



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 01:46 PM BST

PDB ID : 3IZX
EMDB ID: : EMD-5256
Title : 3.1 Angstrom cryoEM structure of cytoplasmic polyhedrosis virus
Authors : Yu, X.; Ge, P.; Jiang, J.; Atanasov, I.; Zhou, Z.H.
Deposited on : 2011-01-15
Resolution : 3.10 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>

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

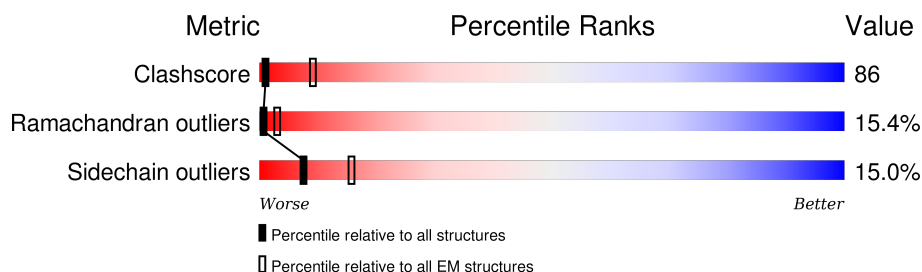
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 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)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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

Mol	Chain	Length	Quality of chain
1	A	1058	
2	B	1333	
2	C	1333	
3	D	448	
3	E	448	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 32209 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Structural protein VP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1057	Total	C	N	O	S	0	0
			8434	5345	1457	1587	45		

- Molecule 2 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1191	Total	C	N	O	S	0	0
			9397	5937	1634	1789	37		
2	C	1249	Total	C	N	O	S	0	0
			9844	6213	1712	1882	37		

- Molecule 3 is a protein called Viral structural protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	290	Total	C	N	O	S	0	0
			2267	1440	398	422	7		
3	E	290	Total	C	N	O	S	0	0
			2267	1440	398	422	7		

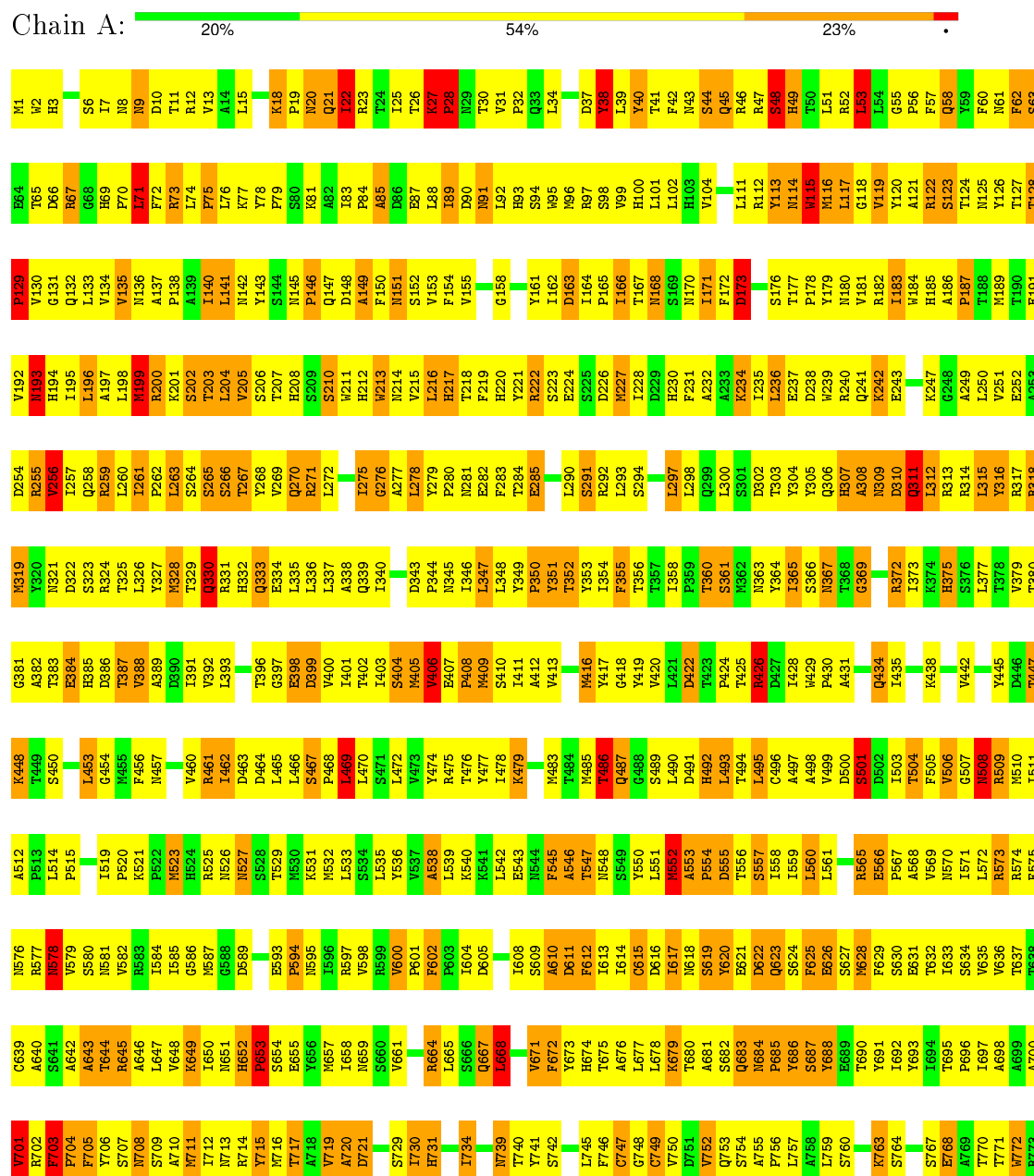
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	37	TRP	TYR	ENGINEERED MUTATION	UNP C6K2M8
E	37	TRP	TYR	ENGINEERED MUTATION	UNP C6K2M8

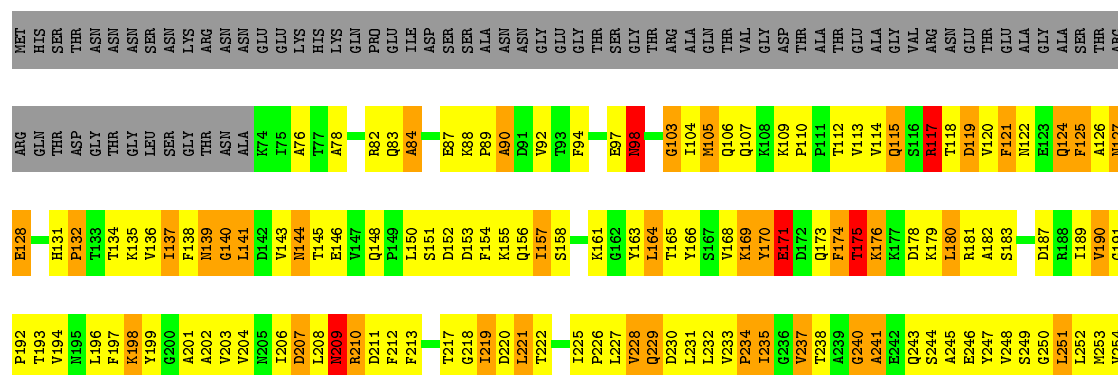
3 Residue-property plots

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

• Molecule 1: Structural protein VP3

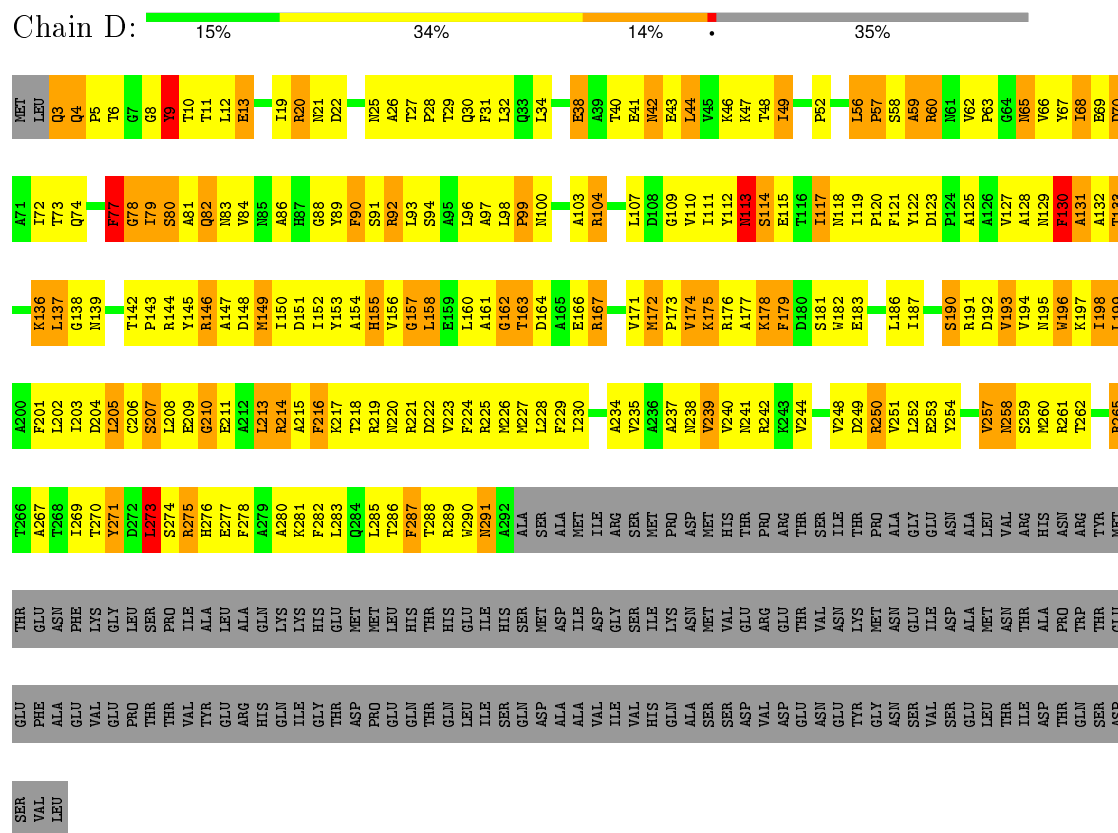




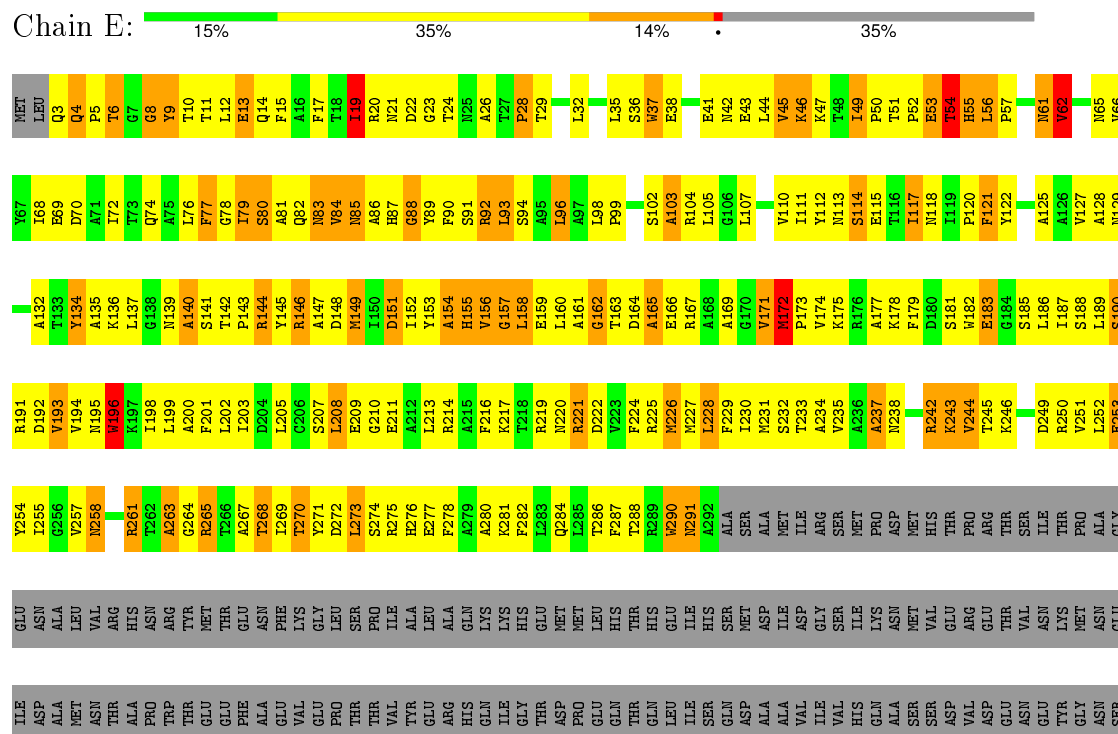


M1283	G1284	Q1285	V1286	L1287	L1288	P1289	K1290	L1291	E1292	V1293	H1294	L1295	L1296	S1297	F1298	M1300	M1304	M1305	T1306	A1307	N1308	I1309	R1310	T1311	G1312	M1315	A1316	V1317	E1318	R1319	M1320	P1321	P1322	V1325	R1326	A1327	I1328	M1329	R1330	M1332	A1333																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
R1212	S1216	D1226	L1227	R1228	P1229	L1230	I1231	P1232	V1233	H1234	P1235	I1236	S1237	F1238	V1239	M1240	S1241	M1242	R1243	L1244	I1245	V1246	N1247	H1248	N1249	E1250	R1251	A1252	R1253	P1254	A1257	V1258	M1259	A1260	S1261	G1262	E1263	M1265	R1266	T1267	G1268	L1270	R1271	G1272	N1273	L1274	S1275	R1276	L1277	K1278	M1279	E1280	A1282																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
A1145	G1146	S1147	K1148	L1149	P1150	V1151	D1152	V1089	L1153	I1154	V1155	I1156	V1159	K1160	S1161	N1162	H1163	V1164	V1165	D1166	L1167	A1168	L1169	D1170	I1171	E1172	L1173	A1174	T1175	E1176	V1177	M1178	P1179	S1180	E1181	T1182	E1183	G1184	H1185	Q1186	L1187	V1188	S1189	K1190	L1191	G1192	K1200	L1201	F1202	G1199	K1201	L1202	T1132	G1133	R1134	H1135	V1136	Q1205	L1206	H1138	M1139	T1140	D1208	P1209	E1143	R1144																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Y1078	L1079	T1080	D1083	P1084	L1085	P1086	V1089	L1090	D1091	V1092	P1093	Y1096	V1097	Q1100	Y1101	A1102	H1103	A1104	L1105	F1106	S1109	L1110	A1111	N1112	K1113	R1114	M1115	R1116	V1117	M1118	P1119	T1120	H1121	P1122	T1123	G1124	G1125	M1126	P1129	S1130	P1131	T1132	G1133	R1134	H1135	V1136	Q1205	L1206	H1138	M1139	T1140	D1208	P1209	E1143	R1144																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
A1145	G1146	S1147	K1148	L1149	P1150	V1151	D1152	V1089	L1153	I1154	V1155	I1156	V1159	K1160	S1161	N1162	H1163	V1164	V1165	D1166	L1167	A1168	L1169	D1170	I1171	E1172	L1173	A1174	T1175	E1176	V1177	M1178	P1179	S1180	E1181	T1182	E1183	G1184	H1185	Q1186	L1187	V1188	S1189	K1190	L1191	G1192	K1200	L1201	F1202	G1199	K1201	L1202	T1132	G1133	R1134	H1135	V1136	Q1205	L1206	H1138	M1139	T1140	D1208	P1209	E1143	R1144																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
N1016	A1017	Q1018	I1019	R1020	R1021	I1022	R1023	P1024	D1025	G1026	T1027	L1028	L1029	R1030	Y1031	Q1034	L1035	D1036	I1037	E1038	A1039	F1040	R1041	W1042	L1050	Q1051	L1052	R1053	R1054	L1055	S1056	V1057	G1058	L1059	R1060	L1061	I1062	P1065	R1066	L1067	A1068	R1069	H1070	F1071	N1072	E1073	Y1074	L1075	I1076	M1077																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
D953	Q954	A955	D956	F957	R958	Q959	T960	S961	A962	A963	V964	R965	Q966	R967	R968	A969	L970	H971	P972	T973	L974	Q978	R979	R980	H981	A982	I983	E984	R985	L986	A987	Q988	T989	D990	D991	V992	D993	S994	T995	D996	Y997	G998	K999	L1000	N1001	R1002	F1004	L1005	L1008	T1009	R1010	E947	N1073	S1011	L1012	K1013	L1014	M1015																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
A893	V894	R895	L896	Q897	R898	S899	G900	V901	N903	R904	P905	A906	S907	T908	Y909	L910	R911	E912	E914	V915	L916	V917	V918	M919	P920	R921	H922	Y923	D924	V925	L926	R927	R928	L929	R930	N931	L934	N933	D935	N936	R937	N938	R939	R940	H941	H942	E943	A944	V945	S886	N821	H887	Q888	A889	L890	K891	H892	R893	A894	H895	S896	N897	H898	T899	R899	L900	R901	P902	R903	R904	H905	H906	H907	H908	H909	H910	H911	H912	H913	H914	H915	H916	H917	H918	H919	H920	H921	H922	H923	H924	H925	H926	H927	H928	H929	H930	H931	H932	H933	H934	H935	H936	H937	H938	H939	H940	H941	H942	H943	H944	H945	H946	H947	H948	H949	H950	H951	H952	H953	H954	H955	H956	H957	H958	H959	H960	H961	H962	H963	H964	H965	H966	H967	H968	H969	H970	H971	H972	H973	H974	H975	H976	H977	H978	H979	H980	H981	H982	H983	H984	H985	H986	H987	H988	H989	H990	H991	H992	H993	H994	H995	H996	H997	H998	H999	H1000	H1001	H1002	H1003	H1004	H1005	H1006	H1007	H1008	H1009	H1010	H1011	H1012	H1013	H1014	H1015	H1016	H1017	H1018	H1019	H1020	H1021	H1022	H1023	H1024	H1025	H1026	H1027	H1028	H1029	H1030	H1031	H1032	H1033	H1034	H1035	H1036	H1037	H1038	H1039	H1040	H1041	H1042	H1043	H1044	H1045	H1046	H1047	H1048	H1049	H1050	H1051	H1052	H1053	H1054	H1055	H1056	H1057	H1058	H1059	H1060	H1061	H1062	H1063	H1064	H1065	H1066	H1067	H1068	H1069	H1070	H1071	H1072	H1073	H1074	H1075	H1076	H1077	H1078	H1079	H1080	H1081	H1082	H1083	H1084	H1085	H1086	H1087	H1088	H1089	H1090	H1091	H1092	H1093	H1094	H1095	H1096	H1097	H1098	H1099	H1100	H1101	H1102	H1103	H1104	H1105	H1106	H1107	H1108	H1109	H1110	H1111	H1112	H1113	H1114	H1115	H1116	H1117	H1118	H1119	H1120	H1121	H1122	H1123	H1124	H1125	H1126	H1127	H1128	H1129	H1130	H1131	H1132	H1133	H1134	H1135	H1136	H1137	H1138	H1139	H1140	H1141	H1142	H1143	H1144	H1145	H1146	H1147	H1148	H1149	H1150	H1151	H1152	H1153	H1154	H1155	H1156	H1157	H1158	H1159	H1160	H1161	H1162	H1163	H1164	H1165	H1166	H1167	H1168	H1169	H1170	H1171	H1172	H1173	H1174	H1175	H1176	H1177	H1178	H1179	H1180	H1181	H1182	H1183	H1184	H1185	H1186	H1187	H1188	H1189	H1190	H1191	H1192	H1193	H1194	H1195	H1196	H1197	H1198	H1199	H1200	H1201	H1202	H1203	H1204	H1205	H1206	H1207	H1208	H1209	H1210	H1211	H1212	H1213	H1214	H1215	H1216	H1217	H1218	H1219	H1220	H1221	H1222	H1223	H1224	H1225	H1226	H1227	H1228	H1229	H1230	H1231	H1232	H1233	H1234	H1235	H1236	H1237	H1238	H1239	H1240	H1241	H1242	H1243	H1244	H1245	H1246	H1247	H1248	H1249	H1250	H1251	H1252	H1253	H1254	H1255	H1256	H1257	H1258	H1259	H1260	H1261	H1262	H1263	H1264	H1265	H1266	H1267	H1268	H1269	H1270	H1271	H1272	H1273	H1274	H1275	H1276	H1277	H1278	H1279	H1280	H1281	H1282	H1283	H1284	H1285	H1286	H1287	H1288	H1289	H1290	H1291	H1292	H1293	H1294	H1295	H1296	H1297	H1298	H1299	H1300	H1301	H1302	H1303	H1304	H1305	H1306	H1307	H1308	H1309	H1310	H1311	H1312	H1313	H1314	H1315	H1316	H1317	H1318	H1319	H1320	H1321	H1322	H1323	H1324	H1325	H1326	H1327	H1328	H1329	H1330	H1331	H1332	H1333	H1334	H1335	H1336	H1337	H1338	H1339	H1340	H1341	H1342	H1343	H1344	H1345	H1346	H1347	H1348	H1349	H1350	H1351	H1352	H1353	H1354	H1355	H1356	H1357	H1358	H1359	H1360	H1361	H1362	H1363	H1364	H1365	H1366	H1367	H1368	H1369	H1370	H1371	H1372	H1373	H1374	H1375	H1376	H1377	H1378	H1379	H1380	H1381	H1382	H1383	H1384	H1385	H1386	H1387	H1388	H1389	H1390	H1391	H1392	H1393	H1394	H1395	H1396	H1397	H1398	H1399	H1400	H1401	H1402	H1403	H1404	H1405	H1406	H1407	H1408	H1409	H1410	H1411	H1412	H1413	H1414	H1415	H1416	H1417	H1418	H1419	H1420	H1421	H1422	H1423	H1424	H1425	H1426	H1427	H1428	H1429	H1430	H1431	H1432	H1433	H1434	H1435	H1436	H1437	H1438	H1439	H1440	H1441	H1442	H1443	H1444	H1445	H1446	H1447	H1448	H1449	H1450	H1451	H1452	H1453	H1454	H1455	H1456	H1457	H1458	H1459	H1460	H1461	H1462	H1463	H1464	H1465	H1466	H1467	H1468	H1469	H1470	H1471	H1472	H1473	H1474	H1475	H1476	H1477	H1478	H1479	H1480	H1481	H1482	H1483	H1484	H1485	H1486	H1487	H1488	H1489	H1490	H1491	H1492	H1493	H1494	H1495	H1496	H1497	H1498	H1499	H1500	H1501	H1502	H1503	H1504	H1505	H1506	H1507	H1508	H1509	H1510	H1511	H1512	H1513	H1514	H1515	H1516	H1517	H1518	H1519	H1520	H1521	H1522	H1523	H1524	H1525	H1526	H1527	H1528	H1529	H1530	H1531	H1532	H1533	H1534	H1535	H1536	H1537	H1538	H1539	H1540	H1541	H1542	H1543	H1544	H1545	H1546	H1547	H1548	H1549	H1550	H1551	H1552	H1553	H1554	H1555	H1556	H1557	H1558	H1559	H1560	H1561	H1562	H1563	H1564	H1565	H1566	H1567	H1568	H1569	H1570	H1571	H1572	H1573	H1574	H1575	H1576	H1577	H1578	H1579	H1580	H1581	H1582	H1583	H1584	H1585	H1586	H1587	H1588	H1589	H1590	H1591	H1592	H1593	H1594	H1595	H1596	H1597	H1598	H1599	H1600	H1601	H1602	H1603	H1604	H1605	H1606	H1607	H1608	H1609	H1610	H1611	H1612	H1613	H1614	H1615	H1616	H1617	H1618	H1619	H1620	H1621	H1622	H1623	H1624	H1625	H1626	H1627	H1628	H1629	H1630	H1631	H1632	H1633	H1634	H1635	H1636	H1637	H1638	H1639	H1640	H1641	H1642	H1643	H1644	H1645	H1646	H1647	H1648	H1649	H1650	H1651	H1652	H1653	H1654	H1655	H1656	H1657	H1658	H1659	H1660	H1661	H1662	H1663	H1664	H1665	H1666	H1667	H1668	H1669	H1670	H1671	H1672	H1673	H1674	H1675	H1676	H1677	H1678	H1679	H1680	H1681	H1682	H1683	H1684	H1685	H1686	H1687	H1688	H1689	H1690	H1691	H1692	H1693	H1694	H1695	H1696	H1697	H1698	H1699	H1700	H1701	H1702	H1703	H1704	H1705	H1706	H1707	H1708	H1709	H1710	H1711	H1712	H1713	H1714	H1715	H1716	H1717	H1718	H1719	H1720	H1721	H1722	H1723	H1724	H1725	H1726	H1727	H1728	H1729	H1730	H1731	H1732	H1733	H1734	H1735	H1736	H1737	H1738	H1739	H1740	H1741	H1742	H1743	H1744	H1745	H1746	H1747	H1748	H1749	H1750	H1751	H1752	H1753	H1754	H1755	H1756	H1757	H1758	H1759	H1760	H1761	H1762	H1763	H1764	H1765	H1766	H1767	H1768	H1769	H1770	H1771	H1772	H1773	H1774	H1775	H1776	H1777	H1778	H1779	H1780	H1781	H1782	H1783	H1784	H1785	H1786	H1787	H1788	H1789	H1790	H1791	H1792	H1793	H1794	H1795	H1796	H1797	H1798	H1799	H1800	H1801	H1802	H1803	H1804	H1805	H1806	H1807	H1808	H1809	H1810	H1811	H1812	H1813	H1814	H1815	H1816

- Molecule 3: Viral structural protein 5



- Molecule 3: Viral structural protein 5



VAL
SER
GLU
LEU
THR
ILE
ASP
THR
GLN
SER
ASP
SER
VAL
LEU

4 Experimental information

Property	Value	Source
Reconstruction method	Not provided	Depositor
Imposed symmetry	POINT, I	Depositor
Number of images	28993	Depositor
Resolution determination method	FSC at 0.143 cut-off	Depositor
CTF correction method	Each particle	Depositor
Microscope	OTHER	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	25	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	59000	Depositor
Image detector	Kodak SO 163 film	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z > 2	RMSZ	# Z > 2
1	A	0.68	9/8619 (0.1%)	1.04	42/11737 (0.4%)
2	B	0.77	16/9590 (0.2%)	1.08	49/13056 (0.4%)
2	C	0.69	7/10045 (0.1%)	1.07	42/13678 (0.3%)
3	D	0.63	0/2314	1.03	17/3147 (0.5%)
3	E	0.65	0/2314	0.98	12/3147 (0.4%)
All	All	0.71	32/32882 (0.1%)	1.06	162/44765 (0.4%)

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	202	ALA	CA-CB	11.75	1.77	1.52
2	B	1098	ALA	CA-CB	8.29	1.69	1.52
2	C	114	VAL	CA-CB	8.29	1.72	1.54
2	C	1320	VAL	CA-CB	7.62	1.70	1.54
1	A	232	ALA	CA-CB	-7.29	1.37	1.52
2	B	185	ALA	CA-CB	7.14	1.67	1.52
1	A	639	CYS	CB-SG	6.80	1.93	1.82
2	B	203	VAL	CA-CB	-6.63	1.40	1.54
1	A	615	CYS	CB-SG	6.61	1.93	1.82
2	B	1320	VAL	CA-CB	6.57	1.68	1.54
2	B	194	VAL	CA-CB	-6.49	1.41	1.54
2	C	347	ALA	CA-CB	-6.11	1.39	1.52
2	B	943	GLU	CB-CG	5.84	1.63	1.52
2	C	1317	VAL	C-O	5.83	1.34	1.23
2	C	917	VAL	CA-CB	5.77	1.66	1.54
2	B	1141	ILE	CA-CB	5.68	1.68	1.54
2	B	1152	ALA	CA-CB	-5.68	1.40	1.52
1	A	860	SER	CA-CB	5.67	1.61	1.52
2	B	1017	ALA	CA-CB	-5.66	1.40	1.52
2	B	249	SER	CA-CB	5.63	1.61	1.52
2	B	733	VAL	CA-CB	-5.62	1.43	1.54
2	B	1316	ALA	CA-CB	-5.40	1.41	1.52
1	A	557	SER	CA-CB	-5.39	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1193	ILE	CA-CB	5.31	1.67	1.54
2	C	865	ILE	CA-CB	-5.29	1.42	1.54
2	B	945	VAL	CA-CB	5.29	1.65	1.54
2	B	829	SER	CA-CB	-5.16	1.45	1.52
1	A	163	ASP	CB-CG	5.11	1.62	1.51
1	A	556	THR	CA-CB	-5.08	1.40	1.53
1	A	538	ALA	CA-CB	5.06	1.63	1.52
1	A	261	ILE	CA-CB	5.06	1.66	1.54
2	B	947	GLU	CB-CG	5.02	1.61	1.52

All (162) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	550	ILE	CB-CA-C	-9.49	92.62	111.60
2	C	1059	LEU	CA-CB-CG	9.28	136.65	115.30
2	C	1316	ALA	CB-CA-C	8.39	122.68	110.10
1	A	971	LEU	CA-CB-CG	-8.22	96.39	115.30
2	B	863	LEU	CA-CB-CG	-8.15	96.55	115.30
1	A	422	ASP	N-CA-C	-8.05	89.27	111.00
1	A	844	LEU	CA-CB-CG	8.03	133.78	115.30
2	C	942	HIS	N-CA-C	-7.94	89.57	111.00
3	E	156	VAL	CB-CA-C	-7.88	96.43	111.40
1	A	205	VAL	CB-CA-C	-7.43	97.27	111.40
3	D	248	VAL	N-CA-C	-7.39	91.05	111.00
2	C	171	GLU	N-CA-C	-7.37	91.09	111.00
1	A	920	LEU	CA-CB-CG	7.36	132.23	115.30
3	D	162	GLY	N-CA-C	7.34	131.46	113.10
1	A	263	LEU	CA-CB-CG	7.33	132.16	115.30
2	B	1074	VAL	CB-CA-C	-7.31	97.51	111.40
2	C	1243	ARG	N-CA-CB	7.22	123.60	110.60
2	C	865	ILE	CB-CA-C	-7.21	97.17	111.60
3	D	179	PHE	CB-CG-CD2	-7.19	115.77	120.80
1	A	881	ILE	N-CA-C	-7.17	91.64	111.00
3	D	249	ASP	N-CA-C	-7.17	91.64	111.00
2	B	736	SER	N-CA-CB	-7.16	99.76	110.50
3	E	157	GLY	N-CA-C	6.99	130.57	113.10
1	A	679	LYS	N-CA-C	-6.95	92.22	111.00
1	A	1053	ILE	CB-CA-C	-6.94	97.71	111.60
3	E	149	MET	N-CA-C	6.93	129.70	111.00
2	B	767	LEU	CA-CB-CG	6.92	131.22	115.30
1	A	897	ILE	CB-CA-C	-6.86	97.89	111.60
2	B	872	ILE	CB-CA-C	-6.84	97.93	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	38	GLU	N-CA-C	-6.83	92.56	111.00
1	A	582	VAL	N-CA-C	-6.82	92.58	111.00
1	A	405	MET	N-CA-C	6.76	129.25	111.00
2	C	178	ASP	N-CA-C	-6.70	92.90	111.00
2	B	1223	SER	N-CA-C	6.68	129.04	111.00
1	A	781	VAL	CB-CA-C	-6.65	98.77	111.40
2	B	1201	LEU	CA-CB-CG	6.63	130.54	115.30
2	C	376	ILE	CB-CA-C	-6.60	98.41	111.60
1	A	372	ARG	N-CA-C	-6.56	93.29	111.00
1	A	1055	LEU	N-CA-C	-6.49	93.48	111.00
2	B	249	SER	CB-CA-C	6.47	122.39	110.10
3	D	273	LEU	CA-CB-CG	6.44	130.11	115.30
2	C	533	GLN	N-CA-C	-6.42	93.67	111.00
1	A	747	CYS	N-CA-C	-6.40	93.73	111.00
3	D	157	GLY	N-CA-C	6.40	129.09	113.10
2	C	273	PRO	N-CA-C	-6.38	95.50	112.10
2	B	686	HIS	CB-CA-C	6.26	122.93	110.40
1	A	917	SER	N-CA-CB	6.26	119.89	110.50
3	E	38	GLU	CB-CA-C	6.21	122.82	110.40
2	B	628	SER	N-CA-C	-6.19	94.29	111.00
2	B	833	ARG	CB-CA-C	-6.17	98.06	110.40
2	C	734	ILE	N-CA-C	-6.17	94.34	111.00
2	B	434	VAL	CB-CA-C	-6.13	99.75	111.40
1	A	205	VAL	N-CA-C	-6.12	94.47	111.00
2	C	115	GLN	C-N-CA	-6.04	106.61	121.70
2	B	1138	HIS	N-CA-C	-6.02	94.75	111.00
2	B	967	LEU	CA-CB-CG	6.02	129.14	115.30
2	B	1016	ASN	N-CA-C	-6.00	94.79	111.00
2	C	858	HIS	N-CA-C	5.99	127.17	111.00
2	B	301	LEU	CA-CB-CG	5.99	129.07	115.30
3	D	77	PHE	N-CA-C	-5.99	94.84	111.00
1	A	749	CYS	N-CA-CB	-5.95	99.88	110.60
2	C	180	LEU	CA-CB-CG	-5.94	101.63	115.30
1	A	880	VAL	CB-CA-C	-5.94	100.12	111.40
3	E	38	GLU	N-CA-C	-5.94	94.97	111.00
1	A	856	THR	N-CA-C	5.93	127.02	111.00
3	D	155	HIS	CB-CA-C	-5.88	98.63	110.40
2	C	459	ALA	CB-CA-C	-5.88	101.28	110.10
2	B	339	LEU	N-CA-C	5.86	126.81	111.00
2	B	1188	VAL	N-CA-C	-5.81	95.31	111.00
3	D	113	ASN	N-CA-C	-5.80	95.35	111.00
2	B	657	ALA	CB-CA-C	-5.79	101.42	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	843	ALA	O-C-N	-5.78	113.45	122.70
2	B	942	HIS	N-CA-C	-5.77	95.42	111.00
2	B	345	GLY	N-CA-C	-5.75	98.73	113.10
2	C	1241	SER	N-CA-CB	-5.73	101.91	110.50
2	B	1225	GLU	N-CA-C	-5.72	95.54	111.00
3	E	193	VAL	CB-CA-C	-5.72	100.53	111.40
2	C	426	ILE	CB-CA-C	-5.72	100.16	111.60
3	E	190	SER	CB-CA-C	-5.71	99.24	110.10
3	D	174	VAL	N-CA-C	-5.70	95.62	111.00
2	B	463	VAL	CB-CA-C	5.70	122.22	111.40
1	A	278	LEU	N-CA-C	5.69	126.38	111.00
2	B	805	SER	CB-CA-C	-5.69	99.28	110.10
2	B	427	VAL	CB-CA-C	-5.67	100.63	111.40
2	C	549	GLY	N-CA-C	-5.67	98.94	113.10
2	C	675	ALA	N-CA-CB	-5.66	102.17	110.10
2	C	252	LEU	CA-CB-CG	-5.65	102.31	115.30
2	B	620	ILE	CB-CA-C	-5.64	100.32	111.60
3	D	179	PHE	CB-CG-CD1	5.63	124.75	120.80
2	B	1301	VAL	CB-CA-C	-5.62	100.72	111.40
2	B	309	TRP	N-CA-C	-5.62	95.83	111.00
3	D	193	VAL	CB-CA-C	-5.62	100.72	111.40
2	C	970	LEU	CB-CA-C	-5.61	99.55	110.20
1	A	805	TYR	N-CA-C	5.60	126.11	111.00
2	B	895	VAL	N-CA-C	-5.59	95.91	111.00
2	C	774	LEU	CA-CB-CG	5.55	128.07	115.30
2	C	758	ILE	C-N-CA	-5.54	107.84	121.70
1	A	141	LEU	CA-CB-CG	-5.51	102.64	115.30
1	A	956	CYS	N-CA-C	-5.50	96.15	111.00
1	A	375	HIS	CB-CA-C	-5.49	99.41	110.40
1	A	447	THR	N-CA-C	5.49	125.83	111.00
3	D	248	VAL	CB-CA-C	5.49	121.83	111.40
2	C	113	VAL	N-CA-C	-5.49	96.19	111.00
2	B	365	LEU	CA-CB-CG	5.47	127.89	115.30
2	C	896	LEU	CA-CB-CG	5.47	127.88	115.30
3	E	273	LEU	CA-CB-CG	-5.45	102.77	115.30
2	B	768	CYS	N-CA-C	5.43	125.67	111.00
2	B	1169	LEU	N-CA-C	5.42	125.64	111.00
2	C	798	THR	N-CA-C	-5.42	96.36	111.00
2	C	462	LEU	CA-CB-CG	-5.41	102.85	115.30
1	A	956	CYS	N-CA-CB	5.41	120.33	110.60
2	B	188	ARG	C-N-CA	-5.39	108.23	121.70
2	C	309	TRP	N-CA-C	-5.37	96.49	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1258	VAL	N-CA-C	5.37	125.51	111.00
1	A	53	LEU	N-CA-C	5.37	125.50	111.00
2	C	635	ILE	N-CA-C	-5.35	96.55	111.00
1	A	668	LEU	CA-CB-CG	5.35	127.60	115.30
2	B	989	ILE	CB-CA-C	-5.34	100.91	111.60
2	C	769	GLN	N-CA-C	5.33	125.40	111.00
3	E	155	HIS	CB-CA-C	-5.32	99.77	110.40
2	C	967	LEU	CA-CB-CG	-5.31	103.09	115.30
2	B	246	GLU	N-CA-C	-5.29	96.72	111.00
2	C	434	VAL	CB-CA-C	-5.28	101.38	111.40
2	B	1320	VAL	CB-CA-C	5.24	121.36	111.40
1	A	469	LEU	CA-CB-CG	5.24	127.34	115.30
2	C	122	ASN	C-N-CA	5.24	134.79	121.70
3	D	178	LYS	N-CA-C	-5.23	96.87	111.00
2	B	462	LEU	CA-CB-CG	-5.23	103.27	115.30
2	B	1229	LEU	CA-CB-CG	5.21	127.29	115.30
2	B	858	HIS	N-CA-C	5.21	125.06	111.00
3	E	242	ARG	C-N-CA	-5.19	108.72	121.70
1	A	404	SER	CB-CA-C	5.19	119.96	110.10
3	D	190	SER	CB-CA-C	-5.17	100.27	110.10
2	C	344	VAL	C-N-CA	-5.17	111.45	122.30
3	E	154	ALA	CB-CA-C	-5.16	102.35	110.10
2	B	352	HIS	CB-CA-C	5.16	120.71	110.40
2	B	688	GLU	N-CA-C	-5.13	97.14	111.00
1	A	615	CYS	CA-CB-SG	5.13	123.24	114.00
2	B	360	ILE	CB-CA-C	5.13	121.85	111.60
1	A	965	ALA	CB-CA-C	-5.12	102.41	110.10
2	C	1138	HIS	N-CA-C	-5.12	97.16	111.00
2	B	440	ILE	CB-CA-C	-5.09	101.42	111.60
3	E	8	GLY	N-CA-C	-5.09	100.38	113.10
2	C	681	LYS	N-CA-C	-5.08	97.27	111.00
2	B	1077	MET	N-CA-C	-5.08	97.28	111.00
3	D	239	VAL	N-CA-C	-5.07	97.31	111.00
1	A	921	PHE	CB-CG-CD2	5.07	124.35	120.80
2	C	121	PHE	N-CA-C	-5.07	97.33	111.00
1	A	48	SER	N-CA-C	-5.06	97.33	111.00
1	A	560	LEU	CA-CB-CG	5.06	126.94	115.30
2	C	1183	GLY	N-CA-C	5.06	125.74	113.10
2	B	1191	GLU	CA-CB-CG	5.04	124.50	113.40
2	B	565	GLU	N-CA-C	-5.04	97.39	111.00
1	A	261	ILE	N-CA-C	5.03	124.59	111.00
1	A	639	CYS	CA-CB-SG	5.03	123.06	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1250	GLU	N-CA-C	-5.03	97.42	111.00
2	B	1097	VAL	CB-CA-C	-5.02	101.85	111.40
1	A	1046	PHE	CB-CG-CD2	-5.02	117.29	120.80
2	C	413	MET	CB-CG-SD	-5.01	97.38	112.40
2	C	558	TYR	CB-CG-CD1	-5.01	118.00	121.00
1	A	263	LEU	N-CA-C	-5.00	97.49	111.00
2	B	894	VAL	CB-CA-C	-5.00	101.90	111.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8434	0	8395	1501	0
2	B	9397	0	9313	1584	0
2	C	9844	0	9749	1701	0
3	D	2267	0	2260	343	0
3	E	2267	0	2260	348	0
All	All	32209	0	31977	5388	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 86.

All (5388) 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:C:1242:MET:HE1	2:C:1260:PRO:CD	1.25	1.60
2:C:615:THR:CG2	2:C:632:GLN:HB3	1.26	1.60
3:D:26:ALA:CB	3:D:30:GLN:HE21	1.13	1.60
2:C:832:MET:CE	2:C:946:LEU:HD12	1.34	1.56
2:B:202:ALA:CB	2:B:202:ALA:CA	1.77	1.56
2:C:1242:MET:CE	2:C:1260:PRO:HD3	1.36	1.56
2:C:615:THR:HG22	2:C:632:GLN:CB	1.31	1.54
2:C:1242:MET:CE	2:C:1260:PRO:CD	1.87	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:286:LEU:CD2	2:C:288:THR:H	1.27	1.46
1:A:967:ILE:HD11	1:A:1049:TYR:CB	1.43	1.46
1:A:161:TYR:CD1	1:A:182:ARG:HD3	1.47	1.46
2:B:409:ILE:HD12	2:B:410:ARG:N	1.33	1.42
2:C:1137:VAL:HG12	2:C:1164:TRP:NE1	1.31	1.41
3:D:26:ALA:HB1	3:D:30:GLN:NE2	1.08	1.40
1:A:303:THR:CG2	1:A:753:GLN:HE22	1.34	1.39
2:C:1242:MET:CE	2:C:1260:PRO:CG	2.01	1.38
2:C:462:LEU:CD2	2:C:680:THR:HG22	1.53	1.37
2:B:147:VAL:CG2	2:B:379:LEU:HD21	1.53	1.37
2:B:652:PHE:CG	2:B:691:PHE:HE1	1.40	1.37
2:C:1137:VAL:CG1	2:C:1164:TRP:CE2	2.10	1.34
1:A:1049:TYR:O	1:A:1051:PRO:HD3	1.26	1.33
1:A:429:TRP:CZ2	1:A:434:GLN:OE1	1.80	1.33
2:C:1150:LEU:HD12	2:C:1151:VAL:N	1.40	1.32
1:A:429:TRP:CE2	1:A:434:GLN:OE1	1.83	1.32
2:B:310:LEU:HD23	2:B:311:ASN:N	1.41	1.32
2:C:1137:VAL:HG11	2:C:1164:TRP:CE2	1.63	1.31
2:B:1076:ILE:CD1	2:B:1230:ILE:HG22	1.61	1.31
2:B:458:SER:O	2:B:676:THR:HG22	1.14	1.29
2:B:458:SER:O	2:B:676:THR:CG2	1.79	1.29
2:C:342:THR:O	2:C:1306:THR:HG22	1.22	1.29
1:A:966:GLY:O	1:A:970:ARG:HG2	1.31	1.27
1:A:1043:LEU:O	1:A:1043:LEU:HD23	1.35	1.26
2:C:531:ASP:O	2:C:534:ASN:HB3	1.16	1.26
2:B:652:PHE:CG	2:B:691:PHE:CE1	2.23	1.25
1:A:305:TYR:O	1:A:308:ALA:HB2	1.36	1.25
1:A:161:TYR:CE1	1:A:182:ARG:NH1	2.05	1.24
2:C:533:GLN:NE2	2:C:537:LEU:HD11	1.49	1.24
1:A:236:LEU:HD13	1:A:236:LEU:C	1.54	1.24
2:B:1156:ILE:O	2:B:1159:VAL:HG12	1.35	1.24
2:C:832:MET:CE	2:C:946:LEU:CD1	2.16	1.24
2:C:286:LEU:HD23	2:C:287:ARG:N	1.52	1.23
2:C:287:ARG:O	2:C:288:THR:HG23	1.37	1.23
2:C:462:LEU:HD22	2:C:680:THR:CG2	1.68	1.23
2:C:362:LEU:HD23	2:C:362:LEU:C	1.53	1.23
1:A:184:TRP:CD2	1:A:195:ILE:HD11	1.74	1.23
2:C:269:GLU:O	2:C:292:ASN:HB2	1.34	1.23
2:C:859:ILE:HD13	2:C:859:ILE:O	1.37	1.23
1:A:967:ILE:CD1	1:A:1049:TYR:HB2	1.68	1.22
2:B:652:PHE:CB	2:B:691:PHE:HE1	1.53	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:888:GLN:OE1	3:D:242:ARG:NH1	1.71	1.22
2:C:301:LEU:HD23	2:C:301:LEU:O	1.36	1.21
2:C:767:LEU:HD13	2:C:767:LEU:C	1.52	1.20
1:A:882:ASP:HB2	1:A:885:THR:CG2	1.70	1.20
1:A:967:ILE:CD1	1:A:1049:TYR:CB	2.20	1.19
2:B:975:SER:O	2:B:979:ILE:HG13	1.43	1.19
2:B:515:ILE:HG21	2:B:655:ILE:CD1	1.72	1.19
2:C:265:VAL:CG2	2:C:1304:MET:HB3	1.71	1.18
2:B:656:VAL:HG13	2:B:684:LEU:CD1	1.73	1.18
2:B:708:THR:O	2:B:711:ASN:ND2	1.77	1.18
1:A:236:LEU:HD13	1:A:237:GLU:N	1.57	1.18
2:B:579:LEU:HD13	2:B:579:LEU:O	1.40	1.18
2:C:1137:VAL:HG12	2:C:1164:TRP:CD1	1.78	1.17
1:A:470:LEU:HD23	1:A:470:LEU:O	1.42	1.17
3:E:273:LEU:HD23	3:E:273:LEU:O	1.42	1.17
2:C:506:SER:O	2:C:509:VAL:HG23	1.45	1.17
2:C:733:VAL:CG1	2:C:1022:ILE:HG21	1.74	1.17
1:A:42:PHE:HD1	1:A:49:HIS:HB3	1.03	1.17
2:B:147:VAL:HG22	2:B:379:LEU:HD21	1.25	1.17
2:B:1055:LEU:O	2:B:1055:LEU:HD13	1.44	1.17
2:C:286:LEU:HD21	2:C:288:THR:N	1.61	1.16
2:B:515:ILE:CG2	2:B:655:ILE:HD11	1.74	1.16
2:C:1150:LEU:HD12	2:C:1150:LEU:C	1.61	1.16
2:C:1242:MET:CE	2:C:1260:PRO:CB	2.24	1.16
2:C:843:LEU:HB3	2:C:942:HIS:CE1	1.81	1.16
2:B:860:ARG:HB3	2:B:860:ARG:HH11	1.06	1.16
2:B:695:ALA:O	2:B:699:THR:HG22	1.42	1.15
2:C:228:VAL:HG23	2:C:250:GLY:HA2	1.25	1.15
2:B:248:VAL:CG2	2:B:970:LEU:HD22	1.76	1.15
2:C:808:GLN:O	2:C:812:LYS:HG2	1.46	1.15
2:B:954:GLN:HE21	3:D:240:VAL:HG12	1.12	1.15
1:A:668:LEU:O	1:A:668:LEU:HD12	1.44	1.14
2:C:180:LEU:HD23	2:C:181:ARG:N	1.61	1.14
2:C:286:LEU:CD2	2:C:288:THR:N	2.09	1.14
1:A:303:THR:CG2	1:A:753:GLN:NE2	2.11	1.14
2:C:679:CYS:O	2:C:682:GLN:HB3	1.46	1.14
1:A:237:GLU:O	1:A:240:ARG:HB2	1.44	1.14
2:C:1139:MET:CB	2:C:1166:VAL:HG12	1.76	1.14
2:B:147:VAL:HG21	2:B:379:LEU:HD21	1.28	1.14
1:A:453:LEU:HD23	1:A:453:LEU:C	1.64	1.13
1:A:806:HIS:O	1:A:809:GLN:HB2	1.43	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:269:GLU:O	2:C:292:ASN:CB	1.97	1.13
2:B:676:THR:O	2:B:680:THR:HG22	1.46	1.13
1:A:474:TYR:OH	1:A:478:ILE:HD12	1.49	1.12
2:C:495:LEU:O	2:C:497:LYS:N	1.82	1.12
2:C:820:ILE:HD12	2:C:983:ILE:HG12	1.30	1.12
2:C:1242:MET:HE3	2:C:1260:PRO:CG	1.68	1.11
2:B:458:SER:C	2:B:676:THR:HG22	1.70	1.11
1:A:422:ASP:HA	1:A:970:ARG:HH12	1.16	1.11
2:B:1190:ALA:HA	2:B:1193:ILE:HG22	1.31	1.11
2:C:180:LEU:C	2:C:180:LEU:HD23	1.67	1.11
2:B:1236:ILE:HG22	2:B:1237:SER:H	1.09	1.11
2:B:462:LEU:O	2:B:462:LEU:HG	1.46	1.11
1:A:270:GLN:HA	1:A:270:GLN:HE21	1.13	1.11
3:D:29:THR:HG22	3:D:222:ASP:CB	1.80	1.10
2:B:652:PHE:CD2	2:B:691:PHE:CD1	2.39	1.10
2:C:893:ALA:O	2:C:915:VAL:HA	1.48	1.10
3:E:273:LEU:C	3:E:273:LEU:HD23	1.68	1.10
2:B:863:LEU:N	2:B:863:LEU:HD12	1.54	1.10
2:C:217:THR:O	2:C:253:MET:HE1	1.49	1.10
2:B:377:LYS:O	2:B:380:GLN:HB3	1.52	1.10
2:C:533:GLN:HE22	2:C:537:LEU:CD1	1.63	1.10
1:A:13:VAL:HG22	1:A:213:TRP:H	1.12	1.10
2:C:832:MET:HE3	2:C:946:LEU:HB2	1.17	1.10
2:C:733:VAL:HG11	2:C:1022:ILE:HG21	1.13	1.10
3:D:29:THR:HG22	3:D:222:ASP:HB2	1.25	1.10
2:C:462:LEU:HD11	2:C:466:VAL:HG23	1.34	1.10
2:B:1139:MET:SD	2:B:1164:TRP:CZ3	2.45	1.10
2:B:830:VAL:HB	2:B:854:GLN:HE21	1.06	1.10
2:C:1137:VAL:CG1	2:C:1164:TRP:NE1	2.10	1.09
2:C:1152:ALA:O	2:C:1155:ILE:HG22	1.52	1.09
1:A:794:LEU:C	1:A:794:LEU:HD13	1.72	1.09
1:A:184:TRP:HB2	1:A:216:LEU:HD23	1.14	1.09
2:B:241:ALA:HA	2:B:1199:GLY:HA3	1.32	1.09
1:A:470:LEU:HD21	1:A:498:ALA:HB2	1.25	1.09
1:A:463:ASP:HB2	1:A:527:ASN:HB2	1.33	1.09
2:C:409:ILE:HD13	2:C:626:ARG:H	1.10	1.09
2:C:1242:MET:HE2	2:C:1260:PRO:CB	1.83	1.08
2:C:832:MET:HE1	2:C:946:LEU:HD12	1.17	1.08
1:A:303:THR:HG21	1:A:753:GLN:HE22	0.93	1.08
2:B:693:ASN:O	2:B:696:VAL:HG12	1.50	1.08
2:B:1076:ILE:HD12	2:B:1230:ILE:HG22	1.14	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:860:ARG:NH1	2:B:860:ARG:HB3	1.65	1.08
2:B:619:ALA:HB2	2:B:711:ASN:HB2	1.28	1.08
3:D:26:ALA:CB	3:D:30:GLN:NE2	1.84	1.07
2:C:265:VAL:HG23	2:C:1304:MET:CB	1.83	1.07
1:A:1049:TYR:O	1:A:1051:PRO:CD	2.01	1.07
2:B:148:GLN:NE2	2:B:149:PRO:HD2	1.69	1.07
2:B:886:SER:O	2:B:890:THR:HG22	1.54	1.07
2:B:154:PHE:CE1	2:B:361:ASN:HB3	1.89	1.07
2:B:674:LYS:HA	2:B:677:ARG:NH1	1.68	1.07
1:A:794:LEU:O	1:A:794:LEU:HD13	1.54	1.07
1:A:856:THR:O	1:A:876:MET:SD	2.11	1.07
2:C:531:ASP:O	2:C:534:ASN:CB	2.03	1.07
2:B:948:ILE:HD11	2:B:952:PHE:CD2	1.89	1.07
2:B:148:GLN:HE21	2:B:149:PRO:HD2	1.07	1.07
2:C:832:MET:CE	2:C:946:LEU:HB2	1.85	1.06
2:B:863:LEU:CD1	2:B:863:LEU:H	1.65	1.06
2:C:1242:MET:HE3	2:C:1260:PRO:HG3	1.29	1.06
3:E:237:ALA:HB3	3:E:253:GLU:HG2	1.35	1.06
2:C:1242:MET:CE	2:C:1260:PRO:HB3	1.85	1.06
2:C:1066:ARG:HH11	2:C:1066:ARG:HB2	1.10	1.06
2:B:383:SER:HB3	2:B:796:PRO:HB3	1.38	1.06
2:B:702:LEU:HD13	2:B:702:LEU:O	1.54	1.06
2:B:652:PHE:CB	2:B:691:PHE:CE1	2.38	1.06
2:B:948:ILE:HD11	2:B:952:PHE:CE2	1.90	1.06
2:B:830:VAL:HB	2:B:854:GLN:NE2	1.69	1.06
1:A:799:ARG:HB3	1:A:799:ARG:HH11	1.16	1.05
2:B:690:GLN:O	2:B:694:ILE:HD13	1.54	1.05
2:C:733:VAL:CG1	2:C:1022:ILE:HD13	1.85	1.05
2:C:831:VAL:HG12	2:C:832:MET:H	0.92	1.05
2:C:668:VAL:HG23	2:C:674:LYS:HD3	1.36	1.05
2:C:832:MET:HE2	2:C:946:LEU:HD12	1.10	1.05
2:B:147:VAL:HG22	2:B:379:LEU:CD2	1.85	1.05
1:A:42:PHE:CD1	1:A:49:HIS:HB3	1.90	1.05
2:C:1226:ASP:O	2:C:1227:MET:HE2	1.57	1.05
3:E:68:ILE:HD12	3:E:111:ILE:HD11	1.38	1.05
2:B:656:VAL:CG1	2:B:684:LEU:CD1	2.34	1.04
1:A:653:PRO:HB2	1:A:658:ILE:HB	1.39	1.04
2:C:265:VAL:HG21	2:C:1304:MET:HB3	1.33	1.04
2:B:674:LYS:HA	2:B:677:ARG:HH12	1.16	1.04
1:A:239:TRP:O	1:A:243:GLU:HG3	1.55	1.04
2:C:798:THR:O	2:C:799:THR:HG22	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:737:PRO:HA	2:B:861:GLU:HG3	1.40	1.04
2:C:286:LEU:HD21	2:C:288:THR:H	0.88	1.04
2:C:1139:MET:HB2	2:C:1166:VAL:HG12	1.34	1.04
1:A:416:MET:HE3	1:A:416:MET:HA	1.37	1.04
2:B:1288:ILE:HG13	3:D:20:ARG:NH2	1.70	1.04
1:A:255:ARG:HG2	1:A:255:ARG:HH11	1.20	1.03
2:B:465:ALA:O	2:B:468:ALA:HB3	1.58	1.03
1:A:151:ASN:O	1:A:155:VAL:HG23	1.57	1.03
2:C:286:LEU:C	2:C:286:LEU:HD23	1.73	1.03
2:B:1159:VAL:HG23	2:B:1164:TRP:O	1.57	1.03
3:D:265:ARG:HB2	3:D:265:ARG:HH11	1.24	1.03
2:C:1236:ILE:HG22	2:C:1237:SER:H	0.89	1.03
2:B:1273:ASN:HD22	3:D:191:ARG:HG3	1.23	1.03
2:C:253:MET:SD	2:C:989:ILE:HD12	1.98	1.03
2:C:362:LEU:HD23	2:C:363:ARG:N	1.72	1.03
3:D:49:ILE:HG22	3:D:152:ILE:CD1	1.88	1.02
2:C:299:ALA:O	2:C:300:LEU:HB3	1.59	1.02
3:D:20:ARG:HA	3:D:25:ASN:HA	1.39	1.02
3:D:277:GLU:O	3:D:280:ALA:HB3	1.56	1.02
3:D:213:LEU:C	3:D:213:LEU:HD13	1.79	1.02
1:A:303:THR:HG21	1:A:753:GLN:NE2	1.70	1.02
2:B:690:GLN:O	2:B:694:ILE:CD1	2.08	1.02
1:A:161:TYR:CD1	1:A:182:ARG:CD	2.43	1.02
2:B:1134:ARG:HH22	2:B:1154:ASN:HD21	1.08	1.02
1:A:882:ASP:HB2	1:A:885:THR:HG23	1.42	1.02
1:A:633:ILE:HG13	1:A:664:ARG:NH1	1.74	1.02
2:B:407:HIS:CE1	2:B:411:CYS:HB2	1.94	1.02
2:C:441:ARG:NH1	2:C:441:ARG:HB3	1.74	1.02
1:A:373:ILE:HG13	1:A:817:GLY:N	1.75	1.01
1:A:189:MET:HE3	1:A:192:VAL:CG1	1.90	1.01
2:C:649:ALA:HB2	2:C:695:ALA:HB2	1.41	1.01
2:C:225:ILE:HG23	2:C:247:TYR:HD1	1.23	1.01
1:A:418:GLY:O	1:A:681:ALA:HB2	1.59	1.01
2:C:82:ARG:HH22	2:C:209:ASN:HA	1.25	1.01
2:C:256:PHE:O	2:C:259:MET:HB3	1.57	1.01
2:C:1156:ILE:HD11	2:C:1194:MET:HE3	1.42	1.01
2:B:652:PHE:CD2	2:B:691:PHE:CE1	2.49	1.01
2:B:384:MET:HG3	2:B:793:TYR:HD1	1.23	1.01
1:A:184:TRP:CG	1:A:195:ILE:HD11	1.95	1.01
2:C:733:VAL:HG13	2:C:1022:ILE:HD13	1.43	1.01
2:B:863:LEU:HD12	2:B:863:LEU:H	0.85	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:371:THR:O	2:C:374:ASP:HB2	1.61	1.00
1:A:921:PHE:HB2	1:A:959:TYR:O	1.61	1.00
3:E:84:VAL:HG12	3:E:85:ASN:H	1.20	1.00
2:B:387:THR:HA	2:B:1322:PRO:HD3	1.42	1.00
2:C:1242:MET:HE2	2:C:1260:PRO:HB3	1.41	1.00
2:C:843:LEU:CB	2:C:942:HIS:CE1	2.44	1.00
2:C:819:PHE:O	2:C:823:ILE:CD1	2.09	1.00
1:A:649:LYS:HB2	1:A:691:TYR:CE1	1.96	1.00
1:A:47:ARG:HH22	1:A:76:LEU:HA	1.23	1.00
3:E:110:VAL:HG12	3:E:111:ILE:H	1.23	1.00
2:B:310:LEU:O	2:B:314:ILE:HG12	1.61	1.00
2:B:829:SER:HA	2:B:946:LEU:O	1.61	1.00
2:C:1236:ILE:HG22	2:C:1237:SER:N	1.72	0.99
2:C:898:GLN:HG2	2:C:898:GLN:O	1.61	0.99
2:C:157:ILE:C	2:C:157:ILE:HD12	1.83	0.99
1:A:470:LEU:HD21	1:A:498:ALA:CB	1.90	0.99
2:B:262:ASN:HB3	2:B:1054:ARG:NH2	1.76	0.99
1:A:373:ILE:HG13	1:A:817:GLY:H	1.23	0.99
2:C:530:GLY:HA3	2:C:575:TRP:CE3	1.98	0.99
2:B:1055:LEU:C	2:B:1055:LEU:HD13	1.83	0.99
1:A:553:ALA:HB1	1:A:554:PRO:HD2	1.45	0.99
2:C:832:MET:HE1	2:C:946:LEU:CD1	1.87	0.99
2:B:652:PHE:O	2:B:655:ILE:HG22	1.62	0.99
3:D:81:ALA:HB3	3:D:275:ARG:HE	1.24	0.99
1:A:703:PHE:H	1:A:704:PRO:HD2	1.27	0.98
2:C:831:VAL:HG12	2:C:832:MET:N	1.72	0.98
2:C:1226:ASP:O	2:C:1227:MET:CE	2.11	0.98
2:B:714:LEU:HD12	2:B:714:LEU:O	1.63	0.98
2:B:1240:ARG:HB3	2:B:1240:ARG:HH11	1.29	0.98
2:B:249:SER:O	2:B:252:LEU:HD12	1.62	0.98
2:C:124:GLN:HE22	2:C:126:ALA:CB	1.76	0.98
1:A:270:GLN:HA	1:A:270:GLN:NE2	1.77	0.98
2:C:668:VAL:CG2	2:C:674:LYS:HD3	1.93	0.98
3:D:49:ILE:HG22	3:D:152:ILE:HD11	1.45	0.98
2:C:362:LEU:CD2	2:C:362:LEU:C	2.30	0.98
1:A:184:TRP:HB2	1:A:216:LEU:CD2	1.93	0.98
2:C:736:SER:HG	2:C:740:SER:CB	1.76	0.98
1:A:593:GLU:HA	1:A:595:ASN:H	1.28	0.97
1:A:757:LEU:O	1:A:757:LEU:HD23	1.64	0.97
1:A:132:GLN:HB2	2:B:641:ARG:HH21	1.29	0.97
2:C:733:VAL:CG1	2:C:1022:ILE:CG2	2.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:168:VAL:HG12	2:B:204:VAL:HG22	1.43	0.97
1:A:127:THR:HA	2:B:641:ARG:CZ	1.95	0.97
1:A:205:VAL:HG23	1:A:263:LEU:HB2	1.46	0.97
1:A:881:ILE:HA	1:A:900:GLN:O	1.65	0.97
2:B:409:ILE:CD1	2:B:410:ARG:N	2.27	0.97
2:B:228:VAL:HG23	2:B:250:GLY:HA2	1.46	0.97
3:D:38:GLU:HB3	3:D:176:ARG:CG	1.94	0.97
2:B:1267:THR:HB	2:B:1299:SER:OG	1.65	0.97
2:C:952:PHE:HB2	2:C:958:ILE:HD11	1.47	0.97
3:D:153:TYR:HD1	3:D:156:VAL:HG11	1.27	0.97
2:C:378:ALA:HA	2:C:622:ALA:HB2	1.41	0.97
1:A:184:TRP:CE3	1:A:195:ILE:HD11	2.00	0.96
1:A:204:LEU:HB3	1:A:227:MET:HE2	1.43	0.96
1:A:303:THR:HG22	1:A:753:GLN:HE22	1.29	0.96
2:C:859:ILE:HD13	2:C:859:ILE:C	1.86	0.96
2:C:213:PHE:CE1	2:C:254:VAL:HG13	1.99	0.96
2:C:1236:ILE:CG2	2:C:1237:SER:H	1.75	0.96
2:B:619:ALA:CB	2:B:711:ASN:HB2	1.94	0.96
2:C:1242:MET:HE2	2:C:1260:PRO:CD	1.92	0.96
2:C:831:VAL:CG1	2:C:832:MET:H	1.77	0.96
2:B:154:PHE:CE2	2:B:365:LEU:HD23	2.01	0.96
2:C:529:LYS:HE2	2:C:586:PRO:HD2	1.47	0.96
2:C:832:MET:HE3	2:C:946:LEU:CB	1.96	0.96
2:B:835:TYR:OH	2:B:941:TYR:HE1	1.48	0.96
2:C:225:ILE:HG23	2:C:247:TYR:CD1	2.01	0.96
2:C:1137:VAL:HG12	2:C:1164:TRP:CE2	1.90	0.95
2:B:310:LEU:HD23	2:B:311:ASN:CA	1.94	0.95
2:B:248:VAL:HG21	2:B:970:LEU:HD22	1.46	0.95
2:C:967:LEU:O	2:C:967:LEU:HD23	1.65	0.95
2:C:489:MET:HE2	2:C:491:ASN:H	1.31	0.95
3:D:242:ARG:NH2	3:D:251:VAL:HG21	1.81	0.95
1:A:944:ARG:HB2	1:A:944:ARG:HH11	1.30	0.95
1:A:472:LEU:HD13	1:A:472:LEU:C	1.87	0.95
2:B:407:HIS:CE1	2:B:411:CYS:CB	2.48	0.95
1:A:373:ILE:CG1	1:A:817:GLY:H	1.79	0.95
2:B:147:VAL:CG2	2:B:379:LEU:CD2	2.42	0.95
1:A:18:LYS:HG3	1:A:19:PRO:HD2	1.47	0.95
3:E:158:LEU:H	3:E:158:LEU:HD23	1.30	0.95
2:C:217:THR:O	2:C:253:MET:CE	2.14	0.95
2:B:548:TYR:O	2:B:552:VAL:HG12	1.66	0.95
1:A:429:TRP:CH2	1:A:434:GLN:OE1	2.19	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:ARG:HB2	1:A:797:ARG:HH11	1.32	0.95
1:A:604:ILE:HD12	1:A:604:ILE:H	1.30	0.95
2:C:1156:ILE:HD11	2:C:1194:MET:CE	1.97	0.95
1:A:264:SER:O	1:A:265:SER:O	1.86	0.94
2:B:148:GLN:HE21	2:B:149:PRO:CD	1.81	0.94
2:C:398:ARG:HH11	2:C:398:ARG:HG2	1.30	0.94
3:E:175:LYS:O	3:E:255:ILE:HG22	1.67	0.94
2:B:656:VAL:HG13	2:B:684:LEU:HD11	1.46	0.94
3:E:189:LEU:HD23	3:E:189:LEU:C	1.87	0.94
2:C:1137:VAL:CG1	2:C:1164:TRP:CD1	2.50	0.94
2:B:428:GLN:OE1	2:B:428:GLN:HA	1.67	0.94
1:A:257:ILE:HD11	1:A:328:MET:HB3	1.47	0.94
1:A:256:VAL:CG1	1:A:335:LEU:HD13	1.98	0.94
1:A:179:TYR:HB2	1:A:220:HIS:O	1.67	0.94
2:C:1137:VAL:CG1	2:C:1164:TRP:CD2	2.51	0.94
1:A:127:THR:HA	2:B:641:ARG:NH2	1.83	0.94
2:C:209:ASN:ND2	2:C:211:ASP:HB2	1.81	0.94
1:A:377:LEU:HD11	1:A:759:LEU:CD1	1.97	0.94
2:C:342:THR:O	2:C:1306:THR:CG2	2.14	0.94
1:A:746:PHE:N	1:A:785:ALA:O	2.01	0.94
2:C:1037:ILE:HG22	2:C:1039:ALA:H	1.32	0.94
2:C:373:ASP:HB2	2:C:394:GLN:HB2	1.50	0.94
1:A:750:VAL:HG12	1:A:783:ILE:HD11	1.48	0.94
2:B:686:HIS:O	2:B:690:GLN:HB3	1.68	0.94
2:C:1150:LEU:C	2:C:1150:LEU:CD1	2.35	0.94
2:C:843:LEU:HA	2:C:942:HIS:NE2	1.81	0.94
2:B:995:THR:HG22	2:B:997:TYR:H	1.31	0.94
2:C:287:ARG:O	2:C:288:THR:CG2	2.16	0.93
1:A:8:ASN:HB3	1:A:339:GLN:NE2	1.81	0.93
2:B:652:PHE:CD2	2:B:691:PHE:HD1	1.83	0.93
1:A:129:PRO:HB2	2:B:1332:ASN:HD22	1.32	0.93
1:A:561:LEU:HB2	1:A:614:ILE:O	1.68	0.93
2:C:517:PHE:HB2	2:C:763:VAL:HG21	1.49	0.93
2:C:1150:LEU:CD1	2:C:1151:VAL:N	2.30	0.93
3:D:38:GLU:HB3	3:D:176:ARG:HG2	1.50	0.93
2:B:265:VAL:HG23	2:B:1304:MET:CB	1.97	0.93
1:A:38:TYR:OH	1:A:89:ILE:HG12	1.68	0.93
2:B:806:VAL:HA	2:B:809:VAL:HG12	1.49	0.93
2:C:736:SER:CB	2:C:740:SER:HG	1.82	0.93
2:B:872:ILE:HG12	2:B:873:TYR:H	1.31	0.93
2:B:872:ILE:HG12	2:B:873:TYR:N	1.81	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:311:ASN:O	2:C:312:ARG:HD2	1.66	0.93
2:C:533:GLN:HE22	2:C:537:LEU:HD11	0.77	0.93
2:B:1290:LYS:NZ	2:B:1300:ASN:HB3	1.83	0.93
2:C:462:LEU:HD12	2:C:462:LEU:O	1.69	0.93
2:B:674:LYS:CA	2:B:677:ARG:HH12	1.82	0.93
2:B:398:ARG:NH1	2:B:1310:ARG:HB3	1.83	0.93
1:A:236:LEU:HD22	1:A:236:LEU:O	1.69	0.93
2:C:656:VAL:O	2:C:660:ALA:HB2	1.69	0.93
2:C:658:THR:O	2:C:662:VAL:HG23	1.68	0.93
2:C:1137:VAL:HG11	2:C:1164:TRP:CZ2	2.03	0.93
2:C:1152:ALA:O	2:C:1155:ILE:CG2	2.17	0.92
1:A:401:ILE:HD13	1:A:823:THR:OG1	1.67	0.92
2:B:310:LEU:CD2	2:B:311:ASN:N	2.30	0.92
2:C:124:GLN:HE22	2:C:126:ALA:HB3	1.34	0.92
2:B:385:ILE:H	2:B:708:THR:CG2	1.82	0.92
2:B:473:ALA:HB1	2:B:762:ILE:HD13	1.51	0.92
1:A:377:LEU:HD11	1:A:759:LEU:HD11	1.50	0.92
2:B:414:LEU:HD23	2:B:1046:PHE:HD1	1.31	0.92
1:A:303:THR:HG22	1:A:753:GLN:NE2	1.80	0.92
2:B:249:SER:HA	2:B:252:LEU:HD11	1.51	0.92
2:C:180:LEU:C	2:C:180:LEU:CD2	2.36	0.92
2:C:82:ARG:NH2	2:C:209:ASN:HA	1.84	0.92
2:B:571:ARG:HD2	2:B:571:ARG:H	1.34	0.92
2:C:767:LEU:C	2:C:767:LEU:CD1	2.30	0.92
2:B:515:ILE:HG21	2:B:655:ILE:HD11	0.92	0.91
2:C:1276:LEU:O	2:C:1289:PRO:HD2	1.69	0.91
2:C:862:ARG:HD2	2:C:952:PHE:CE2	2.05	0.91
2:C:286:LEU:HD23	2:C:288:THR:H	1.28	0.91
1:A:750:VAL:HG12	1:A:783:ILE:CD1	1.99	0.91
2:C:409:ILE:HD13	2:C:626:ARG:N	1.84	0.91
1:A:429:TRP:CE2	1:A:434:GLN:CD	2.42	0.91
1:A:472:LEU:O	1:A:472:LEU:HD13	1.70	0.91
1:A:70:PRO:O	1:A:71:LEU:HB2	1.68	0.91
2:C:297:ASN:O	2:C:299:ALA:O	1.88	0.91
2:C:389:PHE:CE1	2:C:1319:ARG:HD3	2.05	0.91
1:A:302:ASP:O	1:A:306:GLN:HB2	1.71	0.91
1:A:453:LEU:HD23	1:A:454:GLY:N	1.86	0.91
2:C:1066:ARG:NH1	2:C:1066:ARG:HB2	1.86	0.91
1:A:966:GLY:O	1:A:970:ARG:CG	2.17	0.91
2:B:1156:ILE:HD11	2:B:1194:MET:SD	2.11	0.91
1:A:196:LEU:HD12	1:A:197:ALA:N	1.84	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:685:ARG:O	2:C:688:GLU:HG2	1.69	0.91
2:C:461:ARG:HB3	2:C:676:THR:HG21	1.49	0.91
2:B:652:PHE:C	2:B:655:ILE:HG22	1.91	0.91
1:A:192:VAL:HG23	1:A:216:LEU:HD13	1.53	0.91
1:A:612:PHE:HA	1:A:645:ARG:O	1.69	0.91
2:C:615:THR:H	2:C:1333:ALA:C	1.72	0.91
1:A:630:SER:HA	1:A:633:ILE:HG22	1.53	0.91
1:A:565:ARG:CZ	1:A:565:ARG:HA	2.01	0.91
3:E:175:LYS:HB2	3:E:175:LYS:HZ2	1.33	0.91
2:B:187:ASP:O	2:B:191:GLY:CA	2.19	0.91
2:C:751:THR:HA	2:C:1002:LEU:HA	1.52	0.91
1:A:925:ILE:HG23	1:A:942:LYS:HD2	1.53	0.91
2:C:1242:MET:HE3	2:C:1260:PRO:CB	1.95	0.90
2:B:447:ARG:HB2	2:B:768:CYS:O	1.72	0.90
1:A:300:LEU:O	1:A:300:LEU:HD23	1.72	0.90
2:C:1097:VAL:O	2:C:1138:HIS:HB3	1.69	0.90
1:A:243:GLU:O	1:A:247:LYS:HG2	1.71	0.90
2:B:687:LEU:N	2:B:687:LEU:HD23	1.86	0.90
1:A:403:ILE:HD12	1:A:825:GLU:O	1.71	0.90
1:A:379:VAL:HG12	1:A:380:THR:HG23	1.52	0.90
2:B:270:THR:HG22	2:B:291:HIS:HA	1.50	0.90
1:A:136:ASN:O	1:A:138:PRO:HD3	1.70	0.90
1:A:805:TYR:C	1:A:805:TYR:CD2	2.44	0.90
2:B:696:VAL:HG13	2:B:697:ALA:H	1.36	0.90
2:B:704:VAL:O	2:B:707:ALA:HB3	1.70	0.90
3:D:213:LEU:HD13	3:D:214:ARG:N	1.87	0.90
2:B:806:VAL:O	2:B:809:VAL:HG12	1.71	0.90
2:C:516:LEU:HB3	2:C:763:VAL:HG11	1.52	0.90
2:C:1321:ASN:HD22	2:C:1321:ASN:N	1.63	0.90
2:B:409:ILE:HD13	2:B:1040:PHE:CE1	2.07	0.90
2:C:767:LEU:HD13	2:C:768:CYS:N	1.86	0.90
2:C:260:THR:HA	2:C:1054:ARG:HH12	1.37	0.90
1:A:623:GLN:HG2	1:A:627:SER:OG	1.72	0.90
2:B:196:LEU:HD22	2:B:296:VAL:HG11	1.54	0.90
2:C:872:ILE:HG12	2:C:873:TYR:N	1.84	0.90
2:B:846:GLY:HA2	2:B:911:ARG:HG3	1.54	0.90
1:A:161:TYR:HD1	1:A:182:ARG:CD	1.84	0.90
2:B:414:LEU:O	2:B:414:LEU:HD12	1.71	0.90
3:E:189:LEU:HD23	3:E:189:LEU:O	1.70	0.90
2:C:1321:ASN:H	2:C:1321:ASN:HD22	0.90	0.90
2:C:668:VAL:HG23	2:C:674:LYS:CD	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:414:LEU:O	2:C:414:LEU:HD12	1.70	0.90
2:B:712:PHE:O	2:B:713:MET:O	1.90	0.90
2:C:198:LYS:HB2	2:C:198:LYS:NZ	1.84	0.90
1:A:265:SER:HB2	1:A:269:VAL:HB	1.54	0.89
2:C:774:LEU:HD12	2:C:774:LEU:O	1.71	0.89
2:B:334:LEU:HB3	2:B:341:LYS:HA	1.52	0.89
2:B:735:THR:HG22	2:B:1018:GLN:O	1.71	0.89
2:C:1321:ASN:H	2:C:1321:ASN:ND2	1.68	0.89
2:B:908:THR:HA	2:B:911:ARG:HH12	1.37	0.89
1:A:805:TYR:C	1:A:805:TYR:HD2	1.76	0.89
2:B:702:LEU:C	2:B:702:LEU:HD13	1.92	0.89
2:C:1150:LEU:HD12	2:C:1151:VAL:CA	2.01	0.89
2:B:187:ASP:O	2:B:191:GLY:N	2.05	0.89
3:E:83:ASN:H	3:E:83:ASN:HD22	1.19	0.89
3:D:149:MET:O	3:D:152:ILE:HG22	1.73	0.89
2:C:897:TYR:CD2	2:C:919:MET:HE2	2.08	0.89
2:C:648:PHE:CD2	2:C:699:THR:CG2	2.55	0.89
2:C:872:ILE:HG23	2:C:895:VAL:HG13	1.54	0.89
2:B:948:ILE:CD1	2:B:952:PHE:CD2	2.55	0.89
1:A:861:ILE:HG21	1:A:921:PHE:CE2	2.07	0.89
2:B:1077:MET:HG2	2:B:1078:TYR:H	1.38	0.89
2:B:716:PHE:H	2:B:716:PHE:HD2	1.20	0.89
2:C:193:THR:HG21	2:C:300:LEU:HD22	1.54	0.89
1:A:117:LEU:HD23	1:A:117:LEU:C	1.92	0.89
3:E:273:LEU:C	3:E:273:LEU:CD2	2.40	0.89
1:A:799:ARG:HB3	1:A:799:ARG:NH1	1.88	0.89
3:E:29:THR:HG22	3:E:222:ASP:HB2	1.52	0.89
1:A:88:LEU:C	1:A:88:LEU:HD13	1.92	0.88
1:A:318:ARG:HG3	1:A:318:ARG:HH11	1.37	0.88
2:B:1037:ILE:O	2:B:1040:PHE:HB2	1.73	0.88
1:A:349:TYR:CD1	1:A:350:PRO:HD2	2.08	0.88
2:C:890:THR:O	2:C:891:HIS:HD2	1.56	0.88
2:B:975:SER:O	2:B:979:ILE:CG1	2.20	0.88
2:B:859:ILE:O	2:B:863:LEU:HD11	1.73	0.88
2:B:409:ILE:C	2:B:409:ILE:HD12	1.93	0.88
1:A:623:GLN:HB3	1:A:627:SER:HB3	1.53	0.88
2:B:382:HIS:O	2:B:796:PRO:HB3	1.73	0.88
2:C:945:VAL:HG11	2:C:962:ASP:CB	2.04	0.88
1:A:633:ILE:HG13	1:A:664:ARG:HH11	1.35	0.88
2:B:349:ASN:HA	2:B:1299:SER:HA	1.55	0.88
1:A:239:TRP:CH2	1:A:297:LEU:HD21	2.09	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:6:THR:HG22	3:E:9:TYR:CD1	2.07	0.88
1:A:199:MET:HA	1:A:199:MET:CE	2.02	0.88
1:A:236:LEU:C	1:A:236:LEU:CD1	2.30	0.88
2:C:767:LEU:HD13	2:C:767:LEU:O	1.71	0.88
1:A:270:GLN:CA	1:A:270:GLN:HE21	1.82	0.88
1:A:833:VAL:HG21	1:A:1039:GLY:HA2	1.56	0.88
3:E:191:ARG:NH1	3:E:191:ARG:CB	2.37	0.88
3:E:191:ARG:NH1	3:E:191:ARG:HB3	1.88	0.88
1:A:164:ILE:HG12	1:A:183:ILE:HD13	1.55	0.88
2:C:820:ILE:HA	2:C:823:ILE:HD13	1.56	0.88
1:A:978:LYS:HA	1:A:978:LYS:HE2	1.56	0.88
2:B:1212:ARG:HB2	2:B:1212:ARG:HH11	1.37	0.88
1:A:561:LEU:HB3	1:A:615:CYS:HA	1.54	0.87
3:E:268:THR:HG22	3:E:269:ILE:H	1.39	0.87
1:A:13:VAL:CG2	1:A:213:TRP:H	1.86	0.87
2:C:115:GLN:HB3	2:C:117:ARG:NH1	1.88	0.87
2:B:310:LEU:HD23	2:B:310:LEU:C	1.94	0.87
1:A:1012:ILE:HD12	1:A:1012:ILE:H	1.37	0.87
1:A:132:GLN:HB2	2:B:641:ARG:NH2	1.88	0.87
3:E:191:ARG:HB2	3:E:191:ARG:CZ	2.04	0.87
1:A:401:ILE:CD1	1:A:823:THR:OG1	2.23	0.87
2:C:319:GLN:HA	2:C:319:GLN:HE21	1.38	0.87
2:B:382:HIS:O	2:B:796:PRO:CB	2.23	0.87
1:A:204:LEU:HD21	1:A:224:GLU:HA	1.54	0.87
1:A:47:ARG:O	1:A:48:SER:HB3	1.75	0.87
2:B:428:GLN:O	2:B:431:THR:HG22	1.75	0.87
1:A:429:TRP:NE1	1:A:434:GLN:NE2	2.22	0.86
1:A:45:GLN:HA	1:A:45:GLN:HE21	1.40	0.86
2:C:558:TYR:CE1	2:C:585:PHE:HB2	2.09	0.86
1:A:104:VAL:HG23	1:A:138:PRO:HB2	1.57	0.86
2:C:897:TYR:CD2	2:C:919:MET:CE	2.58	0.86
2:C:556:ALA:HB3	2:C:572:ASN:HA	1.55	0.86
3:E:107:LEU:HD22	3:E:122:TYR:HE2	1.37	0.86
2:C:832:MET:HE2	2:C:946:LEU:CD1	1.91	0.86
1:A:74:LEU:HD11	1:A:83:ILE:HG21	1.56	0.86
2:B:242:GLU:O	2:B:243:GLN:HG3	1.75	0.86
2:C:1037:ILE:HG22	2:C:1038:GLU:N	1.91	0.86
3:D:74:GLN:O	3:D:78:GLY:CA	2.23	0.86
2:C:300:LEU:O	2:C:300:LEU:HD23	1.74	0.86
2:B:656:VAL:CG1	2:B:684:LEU:HD12	2.05	0.86
2:C:412:LEU:O	2:C:412:LEU:HD23	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:ILE:CD1	1:A:817:GLY:H	1.89	0.86
2:B:995:THR:HB	2:B:998:GLY:H	1.41	0.86
3:E:69:GLU:HG3	3:E:199:LEU:HG	1.56	0.86
2:C:302:ARG:HB2	2:C:314:ILE:CG2	2.06	0.86
2:C:815:LEU:HD11	2:C:1051:GLN:HE22	1.40	0.86
2:C:462:LEU:HD22	2:C:680:THR:HG22	0.86	0.86
1:A:1038:THR:O	1:A:1042:VAL:HG12	1.74	0.86
1:A:597:ARG:O	1:A:597:ARG:HG2	1.73	0.86
1:A:651:ASN:O	1:A:652:HIS:CG	2.28	0.86
2:B:265:VAL:HG23	2:B:1304:MET:HB2	1.57	0.86
1:A:1043:LEU:C	1:A:1043:LEU:HD23	1.96	0.85
2:C:1061:LEU:HD23	2:C:1061:LEU:O	1.74	0.85
2:B:1298:PHE:O	2:B:1299:SER:HB3	1.76	0.85
1:A:786:ARG:O	1:A:786:ARG:HG2	1.74	0.85
2:B:1077:MET:CE	2:B:1165:VAL:HG11	2.06	0.85
3:D:282:PHE:O	3:D:286:THR:HG22	1.76	0.85
1:A:250:LEU:HD22	1:A:250:LEU:H	1.41	0.85
2:C:736:SER:CB	2:C:740:SER:OG	2.23	0.85
2:C:428:GLN:HA	2:C:431:THR:HG22	1.56	0.85
2:C:832:MET:O	2:C:943:GLU:HA	1.75	0.85
2:C:373:ASP:HB2	2:C:394:GLN:CB	2.06	0.85
3:E:284:GLN:O	3:E:288:THR:HG23	1.75	0.85
1:A:688:TYR:CD1	1:A:688:TYR:O	2.30	0.85
2:B:622:ALA:O	2:B:623:ASN:HB2	1.75	0.85
2:C:135:LYS:HB2	2:C:135:LYS:NZ	1.92	0.85
1:A:184:TRP:HB3	1:A:195:ILE:CD1	2.07	0.85
2:C:843:LEU:HA	2:C:942:HIS:CD2	2.12	0.85
2:C:228:VAL:HG12	2:C:229:GLN:N	1.88	0.85
2:B:398:ARG:HH12	2:B:1310:ARG:HB3	1.36	0.85
2:C:1002:LEU:N	2:C:1002:LEU:HD23	1.92	0.85
2:B:1263:TYR:C	2:B:1265:MET:H	1.79	0.85
2:B:190:VAL:HG12	2:B:194:VAL:HG23	1.58	0.85
2:C:523:THR:HA	2:C:720:PHE:HD2	1.40	0.85
2:B:529:LYS:HE2	2:B:586:PRO:HD2	1.57	0.85
2:C:286:LEU:C	2:C:286:LEU:CD2	2.44	0.85
2:B:1236:ILE:HG22	2:B:1237:SER:N	1.90	0.85
1:A:485:MET:HE3	1:A:492:HIS:HA	1.59	0.85
2:B:687:LEU:HA	2:B:690:GLN:HB3	1.59	0.85
2:C:530:GLY:HA3	2:C:575:TRP:CZ3	2.11	0.85
2:C:890:THR:O	2:C:891:HIS:CD2	2.30	0.85
2:B:954:GLN:NE2	3:D:240:VAL:HG12	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:830:VAL:CB	2:B:854:GLN:NE2	2.40	0.85
1:A:967:ILE:HG22	1:A:971:LEU:HD12	1.58	0.85
2:B:835:TYR:HH	2:B:941:TYR:HE1	0.86	0.85
1:A:983:GLU:HG3	1:A:988:LYS:NZ	1.91	0.85
2:C:462:LEU:HD11	2:C:466:VAL:CG2	2.07	0.84
1:A:429:TRP:CD2	1:A:434:GLN:OE1	2.30	0.84
2:B:835:TYR:CZ	2:B:941:TYR:HE1	1.95	0.84
2:B:368:ALA:HA	3:D:82:GLN:HB2	1.59	0.84
1:A:420:VAL:HA	1:A:974:SER:OG	1.77	0.84
1:A:205:VAL:HA	1:A:219:PHE:O	1.76	0.84
2:B:1273:ASN:ND2	3:D:191:ARG:HG3	1.91	0.84
2:B:414:LEU:HD23	2:B:1046:PHE:CD1	2.11	0.84
1:A:84:PRO:HG2	1:A:87:GLU:HB3	1.58	0.84
1:A:145:ASN:HD22	1:A:146:PRO:HD2	1.42	0.84
3:D:174:VAL:O	3:D:174:VAL:HG23	1.75	0.84
2:C:373:ASP:HB2	2:C:394:GLN:CA	2.06	0.84
2:B:652:PHE:HA	2:B:655:ILE:CG2	2.07	0.84
1:A:7:ILE:HB	1:A:252:GLU:HG3	1.58	0.84
2:C:1075:ARG:HG3	2:C:1075:ARG:HH11	1.41	0.84
1:A:569:VAL:HG23	1:A:584:ILE:HG22	1.60	0.84
2:B:832:MET:SD	2:B:848:ARG:HD3	2.18	0.84
3:E:107:LEU:HD22	3:E:122:TYR:CE2	2.11	0.84
2:C:875:THR:HA	2:C:899:SER:HB3	1.59	0.84
2:C:1037:ILE:HG22	2:C:1038:GLU:H	1.42	0.84
1:A:553:ALA:HB1	1:A:554:PRO:CD	2.07	0.84
2:C:1073:GLY:O	2:C:1233:LEU:HB3	1.78	0.84
2:C:287:ARG:C	2:C:288:THR:HG23	1.97	0.84
1:A:388:VAL:HG11	1:A:757:LEU:HD11	1.57	0.84
2:B:948:ILE:CD1	2:B:952:PHE:HD2	1.90	0.84
2:C:1201:LEU:O	2:C:1201:LEU:HD23	1.78	0.84
2:C:294:VAL:HG12	2:C:295:GLY:H	1.40	0.84
2:B:1116:ARG:HA	2:B:1116:ARG:HH11	1.41	0.84
1:A:796:PHE:O	1:A:797:ARG:O	1.96	0.84
2:C:169:LYS:HB2	2:C:169:LYS:NZ	1.93	0.84
2:B:1331:ARG:HH11	2:B:1331:ARG:HB2	1.42	0.83
2:B:612:PHE:H	2:B:612:PHE:HD2	1.25	0.83
2:B:1263:TYR:O	2:B:1265:MET:N	2.11	0.83
2:B:725:ALA:O	2:B:726:THR:HB	1.77	0.83
2:B:1134:ARG:NH2	2:B:1154:ASN:HD21	1.75	0.83
3:E:269:ILE:HG22	3:E:270:THR:N	1.93	0.83
2:C:835:TYR:OH	2:C:925:VAL:HG21	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:238:ASN:O	3:E:253:GLU:HB2	1.78	0.83
2:B:1001:THR:O	2:B:1005:LEU:HB2	1.78	0.83
1:A:781:VAL:HG12	1:A:782:ASN:N	1.92	0.83
1:A:472:LEU:HD23	1:A:475:ARG:HH22	1.43	0.83
2:B:806:VAL:HA	2:B:809:VAL:CG1	2.08	0.83
2:C:791:ILE:HG13	2:C:1325:VAL:HG11	1.57	0.83
1:A:204:LEU:CD2	1:A:224:GLU:HA	2.08	0.83
2:B:154:PHE:HE2	2:B:365:LEU:HD23	1.43	0.83
2:B:962:ASP:O	2:B:965:ARG:HB3	1.78	0.83
2:C:302:ARG:HG3	2:C:315:THR:HG22	1.60	0.83
2:B:694:ILE:HD12	2:B:694:ILE:N	1.93	0.83
3:D:74:GLN:O	3:D:78:GLY:HA2	1.77	0.83
2:B:407:HIS:CE1	2:B:411:CYS:SG	2.71	0.83
1:A:491:ASP:O	1:A:494:THR:HG22	1.78	0.83
3:E:79:ILE:HD11	3:E:187:ILE:HD11	1.60	0.83
2:B:806:VAL:CA	2:B:809:VAL:HG12	2.07	0.83
2:B:806:VAL:HG23	2:B:997:TYR:HE2	1.41	0.83
2:C:1168:ILE:HD11	2:C:1194:MET:CE	2.08	0.83
3:E:191:ARG:HH11	3:E:191:ARG:HB3	1.39	0.83
2:B:1050:LEU:C	2:B:1050:LEU:HD13	1.99	0.83
1:A:15:LEU:HD23	1:A:15:LEU:O	1.78	0.83
2:C:179:LYS:HB2	2:C:179:LYS:NZ	1.94	0.83
3:D:153:TYR:CD2	3:D:258:ASN:HB2	2.14	0.83
2:B:256:PHE:O	2:B:259:MET:HB3	1.78	0.83
2:C:656:VAL:HG21	2:C:688:GLU:HB3	1.61	0.83
2:B:846:GLY:O	2:B:911:ARG:HA	1.79	0.83
1:A:453:LEU:CD2	1:A:453:LEU:C	2.42	0.82
2:C:493:HIS:HB3	2:C:758:ILE:HG13	1.61	0.82
2:B:525:PHE:CD2	2:B:525:PHE:C	2.51	0.82
2:C:460:ALA:HA	2:C:463:VAL:HB	1.61	0.82
2:B:697:ALA:HB1	2:B:774:LEU:HB3	1.61	0.82
3:E:175:LYS:CB	3:E:175:LYS:HZ2	1.92	0.82
2:B:694:ILE:H	2:B:694:ILE:HD12	1.44	0.82
2:C:342:THR:N	2:C:1306:THR:CG2	2.43	0.82
2:C:872:ILE:HG12	2:C:873:TYR:H	1.44	0.82
3:D:265:ARG:CB	3:D:265:ARG:HH11	1.91	0.82
2:B:336:TYR:CZ	3:D:66:VAL:HG23	2.13	0.82
1:A:234:LYS:HZ2	1:A:234:LYS:HB2	1.42	0.82
2:B:1076:ILE:CD1	2:B:1230:ILE:CG2	2.54	0.82
2:B:1177:VAL:O	2:B:1177:VAL:HG12	1.77	0.82
2:C:342:THR:C	2:C:1306:THR:HG22	1.99	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:686:TYR:HA	1:A:714:ARG:HH21	1.43	0.82
2:C:170:TYR:HA	2:C:201:ALA:HA	1.61	0.82
2:C:362:LEU:CD2	2:C:363:ARG:N	2.43	0.82
3:E:264:GLY:HA2	3:E:270:THR:HG21	1.60	0.82
2:C:198:LYS:HZ2	2:C:198:LYS:HB2	1.39	0.82
2:C:1228:ARG:NH1	2:C:1231:TYR:CE1	2.47	0.82
2:B:227:LEU:HD23	2:B:247:TYR:HA	1.62	0.82
2:B:832:MET:SD	2:B:946:LEU:HD23	2.20	0.82
1:A:794:LEU:CD1	1:A:794:LEU:C	2.47	0.82
1:A:675:THR:HA	1:A:693:TYR:O	1.79	0.82
2:B:409:ILE:HD12	2:B:410:ARG:CA	2.10	0.82
2:B:693:ASN:O	2:B:696:VAL:CG1	2.28	0.82
1:A:13:VAL:HG22	1:A:213:TRP:N	1.94	0.82
2:C:1276:LEU:CD2	2:C:1276:LEU:H	1.93	0.82
3:D:190:SER:HB2	3:D:230:ILE:HD11	1.61	0.82
2:C:433:TYR:O	2:C:436:SER:HB3	1.79	0.82
2:B:1198:LYS:HD2	2:B:1198:LYS:O	1.79	0.82
1:A:633:ILE:CG1	1:A:664:ARG:NH1	2.42	0.81
2:B:148:GLN:NE2	2:B:148:GLN:HA	1.93	0.81
3:E:161:ALA:HB1	3:E:175:LYS:HZ3	1.43	0.81
1:A:654:SER:O	1:A:658:ILE:HG22	1.80	0.81
1:A:99:VAL:HG23	1:A:122:ARG:NE	1.95	0.81
2:B:835:TYR:OH	2:B:941:TYR:CE1	2.28	0.81
1:A:495:LEU:O	1:A:495:LEU:HD12	1.79	0.81
2:B:696:VAL:HG13	2:B:697:ALA:N	1.96	0.81
1:A:184:TRP:CG	1:A:195:ILE:CD1	2.63	0.81
2:C:714:LEU:O	2:C:716:PHE:N	2.12	0.81
3:D:261:ARG:HH22	3:D:270:THR:HA	1.44	0.81
2:B:1050:LEU:HD13	2:B:1050:LEU:O	1.78	0.81
2:C:422:LEU:O	2:C:422:LEU:HD12	1.80	0.81
3:D:65:ASN:CB	3:D:111:ILE:O	2.28	0.81
3:E:265:ARG:HG3	3:E:265:ARG:HH11	1.45	0.81
2:B:409:ILE:HD12	2:B:410:ARG:H	1.45	0.81
2:C:389:PHE:CZ	2:C:1319:ARG:HD3	2.15	0.81
2:C:360:ILE:HD12	2:C:360:ILE:N	1.95	0.81
2:B:144:ASN:HD21	2:B:1319:ARG:H	1.29	0.81
2:B:687:LEU:H	2:B:687:LEU:HD23	1.42	0.81
2:C:1180:PRO:HD3	2:C:1208:ASP:HB3	1.62	0.81
2:B:256:PHE:HE1	2:B:815:LEU:HD22	1.44	0.81
1:A:593:GLU:HA	1:A:595:ASN:N	1.96	0.81
2:C:644:VAL:O	2:C:645:THR:HG23	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:497:ALA:O	1:A:523:MET:HG2	1.81	0.81
2:C:378:ALA:HA	2:C:622:ALA:CB	2.09	0.81
1:A:396:THR:HG21	1:A:747:CYS:SG	2.20	0.81
2:B:1139:MET:HG3	2:B:1166:VAL:HG12	1.62	0.81
2:B:826:GLY:HA3	2:B:949:ALA:HB2	1.63	0.81
1:A:764:SER:HA	1:A:795:GLU:HG3	1.63	0.81
1:A:983:GLU:HG3	1:A:988:LYS:HZ3	1.45	0.81
2:C:92:VAL:HG13	2:C:1311:THR:HG22	1.60	0.81
2:B:652:PHE:CE2	2:B:691:PHE:HD1	1.98	0.81
3:D:221:ARG:NH1	3:D:225:ARG:HD2	1.96	0.81
1:A:811:TYR:HB3	1:A:815:GLY:O	1.81	0.81
1:A:192:VAL:O	1:A:193:ASN:C	2.18	0.81
2:C:833:ARG:HD2	2:C:922:TYR:CZ	2.16	0.81
2:C:615:THR:N	2:C:1333:ALA:O	2.12	0.80
2:C:506:SER:O	2:C:509:VAL:CG2	2.27	0.80
2:C:265:VAL:CG2	2:C:1304:MET:CB	2.44	0.80
1:A:74:LEU:HD13	1:A:74:LEU:O	1.81	0.80
1:A:262:PRO:HB2	1:A:265:SER:HB3	1.61	0.80
1:A:913:LEU:HB2	1:A:953:ARG:HH11	1.46	0.80
1:A:192:VAL:CG2	1:A:216:LEU:HD13	2.11	0.80
2:B:356:SER:HB2	2:B:1276:LEU:HD11	1.63	0.80
3:D:258:ASN:HD22	3:D:259:SER:N	1.78	0.80
2:B:374:ASP:O	2:B:377:LYS:HB2	1.82	0.80
2:B:652:PHE:O	2:B:655:ILE:CG2	2.28	0.80
2:B:855:TYR:CZ	2:B:860:ARG:CG	2.65	0.80
2:C:82:ARG:HH22	2:C:209:ASN:CA	1.93	0.80
1:A:373:ILE:HG13	1:A:817:GLY:CA	2.11	0.80
2:B:458:SER:O	2:B:676:THR:HG21	1.80	0.80
2:C:251:LEU:HG	2:C:1062:ILE:HG23	1.63	0.80
2:B:806:VAL:C	2:B:809:VAL:HG12	2.01	0.80
1:A:377:LEU:CD1	1:A:759:LEU:HD11	2.10	0.80
2:C:945:VAL:HG11	2:C:962:ASP:HB3	1.62	0.80
2:C:1168:ILE:HD11	2:C:1194:MET:HE1	1.61	0.80
2:B:544:TYR:OH	2:B:662:VAL:HG13	1.81	0.80
2:B:287:ARG:HH21	2:B:330:THR:HB	1.43	0.80
3:E:175:LYS:NZ	3:E:175:LYS:HB2	1.95	0.80
2:C:428:GLN:HA	2:C:431:THR:CG2	2.11	0.80
2:B:1001:THR:O	2:B:1005:LEU:N	2.14	0.80
1:A:8:ASN:HB3	1:A:339:GLN:HE21	1.43	0.80
2:C:812:LYS:O	2:C:815:LEU:HB2	1.82	0.80
1:A:964:GLU:HG2	1:A:1049:TYR:O	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1045:TYR:O	2:B:1046:PHE:HB2	1.82	0.80
2:B:512:LEU:HD11	2:B:684:LEU:CD2	2.11	0.80
2:B:243:GLN:HA	2:B:246:GLU:HB2	1.63	0.80
1:A:861:ILE:HG21	1:A:921:PHE:CZ	2.17	0.80
2:C:648:PHE:HB3	2:C:699:THR:HG21	1.64	0.80
2:C:810:LEU:O	2:C:810:LEU:HD23	1.81	0.80
2:C:959:GLN:NE2	2:C:1052:LEU:HD21	1.96	0.80
2:B:231:LEU:HB3	2:B:249:SER:HB2	1.64	0.80
2:B:428:GLN:OE1	2:B:428:GLN:CA	2.30	0.80
1:A:651:ASN:O	1:A:652:HIS:CD2	2.34	0.80
2:C:705:VAL:O	2:C:708:THR:HG22	1.81	0.80
1:A:598:VAL:HG21	1:A:602:PHE:HE2	1.46	0.80
2:C:736:SER:OG	2:C:740:SER:OG	1.58	0.80
3:D:204:ASP:O	3:D:208:LEU:HD23	1.82	0.80
2:C:949:ALA:HA	2:C:958:ILE:HD13	1.63	0.79
2:B:1159:VAL:CG2	2:B:1164:TRP:O	2.30	0.79
2:C:668:VAL:HG11	2:C:673:GLN:HB3	1.64	0.79
1:A:921:PHE:CB	1:A:959:TYR:O	2.29	0.79
2:C:492:VAL:HG21	2:C:581:LEU:HD11	1.65	0.79
1:A:967:ILE:HD11	1:A:1049:TYR:HB3	1.61	0.79
2:B:658:THR:O	2:B:662:VAL:HG23	1.81	0.79
1:A:668:LEU:O	1:A:668:LEU:CD1	2.30	0.79
2:C:798:THR:O	2:C:799:THR:CG2	2.30	0.79
1:A:555:ASP:HA	1:A:581:ASN:O	1.81	0.79
3:E:193:VAL:HG13	3:E:196:TRP:HE3	1.47	0.79
2:B:560:ILE:HG13	2:B:585:PHE:HE2	1.46	0.79
2:B:1067:ILE:HG12	2:B:1067:ILE:O	1.83	0.79
2:C:1242:MET:CE	2:C:1260:PRO:HG3	1.94	0.79
2:B:1074:VAL:HG12	2:B:1075:ARG:N	1.95	0.79
1:A:196:LEU:C	1:A:196:LEU:HD12	2.03	0.79
1:A:28:PRO:HA	1:A:97:ARG:HG2	1.62	0.79
2:B:530:GLY:HA3	2:B:575:TRP:CZ3	2.18	0.79
1:A:422:ASP:HA	1:A:970:ARG:NH1	1.97	0.79
2:C:1139:MET:HB3	2:C:1166:VAL:HG12	1.62	0.79
2:B:1159:VAL:HG13	2:B:1160:ILE:N	1.97	0.79
1:A:467:SER:HB3	1:A:468:PRO:HD3	1.65	0.79
1:A:630:SER:HA	1:A:633:ILE:CG2	2.12	0.79
3:E:110:VAL:HG12	3:E:111:ILE:N	1.94	0.79
2:B:190:VAL:HG12	2:B:194:VAL:CG2	2.11	0.79
2:B:208:LEU:HD23	2:B:221:LEU:HD11	1.63	0.79
2:C:404:ASP:O	2:C:408:ILE:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:153:TYR:CD1	3:D:156:VAL:HG11	2.17	0.79
1:A:664:ARG:HA	1:A:667:GLN:HE21	1.47	0.79
2:B:265:VAL:CG2	2:B:1304:MET:CB	2.60	0.79
2:C:1206:PHE:HD2	2:C:1206:PHE:N	1.80	0.79
2:C:738:GLU:CB	2:C:1015:GLN:HG3	2.12	0.79
1:A:806:HIS:O	1:A:809:GLN:CB	2.29	0.79
2:C:462:LEU:CD1	2:C:462:LEU:O	2.30	0.79
2:B:515:ILE:CG2	2:B:655:ILE:CD1	2.45	0.79
2:B:774:LEU:O	2:B:774:LEU:HD23	1.83	0.79
2:C:856:LEU:HD23	2:C:860:ARG:NH1	1.97	0.79
1:A:560:LEU:O	1:A:586:GLY:HA2	1.82	0.79
1:A:565:ARG:HE	1:A:568:ALA:HB3	1.47	0.79
2:C:641:ARG:HB3	2:C:641:ARG:HH11	1.47	0.79
2:C:190:VAL:O	2:C:190:VAL:HG12	1.83	0.79
2:C:836:GLN:NE2	2:C:843:LEU:N	2.31	0.79
2:C:377:LYS:O	2:C:380:GLN:HB3	1.82	0.79
2:B:145:THR:HG22	2:B:146:GLU:N	1.97	0.79
3:E:233:THR:HG22	3:E:252:LEU:CD2	2.12	0.79
2:B:652:PHE:O	2:B:656:VAL:HG23	1.82	0.79
2:C:856:LEU:CD2	2:C:860:ARG:HH12	1.95	0.79
2:C:174:PHE:O	2:C:175:THR:HG23	1.83	0.79
1:A:236:LEU:CD1	1:A:237:GLU:N	2.42	0.79
1:A:470:LEU:HD23	1:A:470:LEU:C	2.01	0.79
1:A:526:ASN:O	1:A:527:ASN:HB3	1.82	0.79
2:B:612:PHE:N	2:B:612:PHE:HD2	1.79	0.78
2:B:1278:TYR:O	2:B:1287:GLY:HA3	1.84	0.78
2:B:190:VAL:CG1	2:B:194:VAL:CG2	2.61	0.78
3:E:193:VAL:HG13	3:E:196:TRP:CE3	2.17	0.78
2:C:450:PRO:HD2	2:C:453:LEU:HD12	1.65	0.78
2:B:414:LEU:CD2	2:B:1046:PHE:CD1	2.67	0.78
2:C:800:LEU:HD12	2:C:800:LEU:O	1.81	0.78
2:B:1228:ARG:CB	2:C:120:VAL:HG22	2.13	0.78
2:B:1240:ARG:HE	2:B:1243:ARG:HD2	1.48	0.78
2:C:282:VAL:O	2:C:285:VAL:HB	1.83	0.78
2:C:168:VAL:HG12	2:C:204:VAL:HG13	1.66	0.78
2:C:985:ARG:HD2	2:C:985:ARG:O	1.83	0.78
1:A:745:LEU:HA	1:A:786:ARG:HA	1.64	0.78
2:B:462:LEU:CG	2:B:462:LEU:O	2.30	0.78
2:C:625:PRO:O	2:C:626:ARG:HB2	1.83	0.78
2:C:377:LYS:HD3	2:C:621:ALA:HB1	1.64	0.78
2:C:171:GLU:HB2	2:C:1211:LEU:HD12	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:832:MET:CE	2:C:946:LEU:CB	2.58	0.78
2:B:694:ILE:CD1	2:B:694:ILE:H	1.96	0.78
1:A:192:VAL:HA	1:A:195:ILE:HG22	1.63	0.78
3:E:6:THR:HG22	3:E:9:TYR:HD1	1.44	0.78
2:C:1240:ARG:HD3	2:C:1258:VAL:HG21	1.64	0.78
3:E:84:VAL:HG12	3:E:85:ASN:N	1.96	0.78
1:A:49:HIS:HE1	1:A:75:PRO:O	1.66	0.78
2:C:836:GLN:NE2	2:C:843:LEU:H	1.81	0.78
2:B:806:VAL:O	2:B:809:VAL:CG1	2.32	0.78
3:E:37:TRP:HB3	3:E:175:LYS:HB3	1.65	0.78
2:B:738:GLU:HB2	2:B:1015:GLN:HB3	1.64	0.78
2:B:249:SER:O	2:B:252:LEU:CD1	2.30	0.78
1:A:203:THR:O	1:A:264:SER:HB3	1.84	0.78
2:C:1075:ARG:C	2:C:1076:ILE:HD12	2.04	0.78
3:D:38:GLU:HB3	3:D:176:ARG:HG3	1.65	0.78
2:C:228:VAL:HG23	2:C:250:GLY:CA	2.12	0.78
2:C:1287:GLY:O	2:C:1288:ILE:HD12	1.84	0.78
2:B:317:MET:O	2:B:320:GLN:HG2	1.84	0.78
1:A:550:TYR:O	1:A:551:LEU:HD23	1.82	0.78
1:A:407:GLU:HA	1:A:826:PHE:CD2	2.19	0.78
2:B:855:TYR:CZ	2:B:860:ARG:HG2	2.18	0.78
2:C:736:SER:OG	2:C:740:SER:CB	2.27	0.78
2:B:1241:SER:O	2:B:1258:VAL:HG11	1.84	0.78
2:C:264:LEU:HD21	2:C:362:LEU:HB2	1.65	0.78
2:C:668:VAL:HG23	2:C:674:LYS:CE	2.13	0.78
1:A:755:ALA:N	1:A:756:PRO:HD2	1.99	0.77
3:E:137:LEU:HD21	3:E:278:PHE:CZ	2.19	0.77
2:C:733:VAL:HG13	2:C:1022:ILE:CG2	2.14	0.77
1:A:420:VAL:HA	1:A:974:SER:CB	2.14	0.77
2:C:307:VAL:HG21	2:C:1245:ILE:CG2	2.14	0.77
1:A:212:HIS:O	1:A:214:ASN:N	2.17	0.77
2:B:579:LEU:O	2:B:579:LEU:CD1	2.30	0.77
1:A:469:LEU:HD23	1:A:470:LEU:N	1.99	0.77
2:B:550:ILE:O	2:B:553:GLN:HB3	1.84	0.77
1:A:72:PHE:HE1	1:A:171:ILE:CG2	1.95	0.77
1:A:967:ILE:CG1	1:A:1049:TYR:HB3	2.14	0.77
1:A:688:TYR:O	1:A:688:TYR:HD1	1.67	0.77
2:C:362:LEU:O	2:C:362:LEU:HD23	1.83	0.77
1:A:200:ARG:O	1:A:201:LYS:HD3	1.84	0.77
2:C:856:LEU:CD2	2:C:860:ARG:NH1	2.47	0.77
2:B:175:THR:HG22	2:B:200:GLY:HA3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:953:ASP:HB2	3:D:241:ASN:O	1.85	0.77
2:B:282:VAL:O	2:B:285:VAL:HB	1.83	0.77
2:C:715:ASN:N	2:C:715:ASN:HD22	1.82	0.77
2:B:652:PHE:CA	2:B:655:ILE:HG22	2.15	0.77
2:B:1159:VAL:HA	2:B:1164:TRP:HB2	1.66	0.77
2:C:849:MET:HA	2:C:917:VAL:O	1.84	0.77
1:A:71:LEU:O	1:A:172:PHE:HE1	1.68	0.77
2:B:265:VAL:CG2	2:B:1304:MET:HB3	2.14	0.77
3:D:153:TYR:HD1	3:D:156:VAL:CG1	1.96	0.77
2:B:924:ASP:HB3	2:B:927:SER:OG	1.85	0.77
1:A:277:ALA:HB3	1:A:319:MET:CE	2.14	0.77
2:C:529:LYS:HE2	2:C:586:PRO:CD	2.14	0.77
2:C:870:ASP:HB2	2:C:871:PRO:HD2	1.65	0.77
1:A:347:LEU:HD12	1:A:347:LEU:H	1.49	0.77
2:B:385:ILE:H	2:B:708:THR:HG22	1.47	0.77
2:B:1228:ARG:HB2	2:C:120:VAL:HG22	1.64	0.77
2:B:677:ARG:HH11	2:B:677:ARG:HB2	1.49	0.77
3:D:258:ASN:ND2	3:D:260:MET:H	1.83	0.77
2:C:364:ALA:O	2:C:367:GLU:HG2	1.84	0.77
1:A:967:ILE:CD1	1:A:1049:TYR:HB3	2.13	0.77
3:D:19:ILE:HD11	3:D:31:PHE:HB2	1.67	0.77
3:E:77:PHE:CE1	3:E:231:MET:CE	2.68	0.77
2:B:1080:THR:HA	2:B:1227:MET:HB3	1.65	0.77
1:A:372:ARG:HB2	1:A:772:TRP:HD1	1.50	0.77
2:C:462:LEU:CD1	2:C:466:VAL:HG23	2.15	0.77
2:C:334:LEU:N	2:C:334:LEU:HD23	1.96	0.77
2:B:235:ILE:HG23	2:B:978:GLN:NE2	1.99	0.77
1:A:92:LEU:HD11	1:A:96:MET:HG2	1.66	0.77
2:B:1077:MET:HE3	2:B:1165:VAL:HG11	1.65	0.77
2:C:832:MET:HE1	2:C:946:LEU:CG	2.15	0.76
2:B:1139:MET:CG	2:B:1166:VAL:HG12	2.15	0.76
1:A:111:LEU:HD13	1:A:142:ASN:HB3	1.67	0.76
2:C:627:ALA:HB3	2:C:717:THR:HA	1.67	0.76
1:A:72:PHE:HE1	1:A:171:ILE:HG22	1.49	0.76
2:C:342:THR:H	2:C:1306:THR:HG21	1.50	0.76
1:A:184:TRP:CB	1:A:195:ILE:CD1	2.63	0.76
1:A:200:ARG:HH11	1:A:200:ARG:HG2	1.50	0.76
2:C:966:GLN:OE1	2:C:1063:THR:HB	1.85	0.76
1:A:752:VAL:HG12	1:A:753:GLN:H	1.50	0.76
2:B:612:PHE:N	2:B:612:PHE:CD2	2.50	0.76
3:E:93:LEU:O	3:E:93:LEU:HD22	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1004:THR:HG22	1:A:1016:ILE:HD11	1.67	0.76
2:C:1254:PRO:HG2	2:C:1257:ALA:HB2	1.68	0.76
2:C:615:THR:HG22	2:C:632:GLN:CA	2.14	0.76
1:A:985:GLY:O	1:A:986:ARG:HG3	1.85	0.76
1:A:198:LEU:O	1:A:201:LYS:HG2	1.85	0.76
2:B:235:ILE:HG23	2:B:978:GLN:HE21	1.50	0.76
2:B:265:VAL:HG21	2:B:1304:MET:HB3	1.66	0.76
1:A:834:THR:HG21	1:A:990:ALA:HB2	1.67	0.76
1:A:710:ALA:HB1	1:A:1045:VAL:HA	1.68	0.76
1:A:401:ILE:HB	1:A:772:TRP:HH2	1.49	0.76
2:C:836:GLN:HE21	2:C:843:LEU:H	1.33	0.76
2:C:250:GLY:O	2:C:254:VAL:HG23	1.85	0.76
2:C:523:THR:HA	2:C:720:PHE:CD2	2.20	0.76
1:A:890:LEU:HD13	1:A:890:LEU:O	1.85	0.76
2:C:309:TRP:HZ2	2:C:1244:ALA:O	1.69	0.76
2:C:655:ILE:O	2:C:659:LEU:HB2	1.86	0.76
1:A:205:VAL:CG2	1:A:263:LEU:HB2	2.15	0.76
2:B:148:GLN:NE2	2:B:149:PRO:CD	2.42	0.76
1:A:234:LYS:NZ	1:A:234:LYS:HB2	1.98	0.76
1:A:182:ARG:HH21	1:A:220:HIS:CD2	2.02	0.76
3:E:269:ILE:HG22	3:E:270:THR:H	1.50	0.76
2:C:265:VAL:HG23	2:C:1304:MET:HB2	1.68	0.76
1:A:45:GLN:HE21	1:A:45:GLN:CA	1.99	0.76
1:A:664:ARG:O	1:A:667:GLN:NE2	2.19	0.76
1:A:497:ALA:HA	1:A:571:ILE:HD12	1.68	0.76
1:A:231:PHE:O	1:A:235:ILE:HG12	1.86	0.76
2:B:240:GLY:O	2:B:242:GLU:N	2.17	0.76
3:D:49:ILE:CG2	3:D:152:ILE:HD11	2.14	0.76
2:C:1003:ARG:O	2:C:1004:PHE:HB2	1.85	0.76
2:B:847:ILE:HD13	2:B:929:PHE:CE1	2.21	0.76
2:C:301:LEU:HD23	2:C:301:LEU:C	2.07	0.76
2:B:309:TRP:O	2:B:310:LEU:HB3	1.85	0.76
1:A:536:TYR:CE2	1:A:572:LEU:HD22	2.21	0.76
2:C:1018:GLN:HE21	2:C:1042:TRP:HA	1.51	0.76
2:C:341:LYS:HB3	2:C:1306:THR:HG23	1.68	0.76
2:B:897:TYR:OH	2:B:900:GLY:HA2	1.86	0.76
2:B:154:PHE:HE1	2:B:361:ASN:HB3	1.49	0.76
1:A:861:ILE:HD13	1:A:921:PHE:CZ	2.21	0.76
2:C:194:VAL:HG22	2:C:301:LEU:HG	1.68	0.75
2:C:1152:ALA:C	2:C:1155:ILE:HG22	2.06	0.75
2:C:155:LYS:O	2:C:264:LEU:N	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:81:ALA:HB3	3:D:275:ARG:NE	1.99	0.75
2:C:1206:PHE:N	2:C:1206:PHE:CD2	2.52	0.75
2:C:687:LEU:O	2:C:690:GLN:HB3	1.86	0.75
2:C:168:VAL:HG22	2:C:196:LEU:HD11	1.67	0.75
2:B:612:PHE:HE2	2:B:635:ILE:HB	1.51	0.75
2:B:256:PHE:HB2	2:B:819:PHE:CE2	2.21	0.75
2:B:252:LEU:O	2:B:256:PHE:N	2.18	0.75
2:B:528:ILE:HD11	2:B:758:ILE:HG21	1.66	0.75
2:B:806:VAL:CG2	2:B:997:TYR:HE2	1.99	0.75
3:D:34:LEU:HG	3:D:34:LEU:O	1.86	0.75
1:A:757:LEU:C	1:A:757:LEU:HD23	2.06	0.75
3:E:253:GLU:HG3	3:E:254:TYR:CD2	2.22	0.75
1:A:948:THR:O	1:A:951:LEU:HB3	1.86	0.75
2:C:1001:THR:C	2:C:1002:LEU:HD23	2.07	0.75
2:C:269:GLU:O	2:C:292:ASN:HB3	1.86	0.75
2:B:835:TYR:CZ	2:B:941:TYR:CE1	2.74	0.75
2:B:1300:ASN:HD22	2:B:1300:ASN:N	1.85	0.75
1:A:921:PHE:N	1:A:959:TYR:O	2.19	0.75
3:D:73:THR:HG21	3:D:198:ILE:HD13	1.68	0.75
1:A:882:ASP:HB2	1:A:885:THR:HG21	1.68	0.75
2:B:1283:ASN:C	2:B:1285:GLN:H	1.86	0.75
2:B:416:ALA:HB2	2:B:422:LEU:HD23	1.68	0.75
2:C:137:ILE:N	2:C:137:ILE:HD12	2.02	0.75
1:A:185:HIS:O	1:A:185:HIS:CG	2.32	0.75
1:A:593:GLU:HG2	1:A:594:PRO:HA	1.68	0.75
2:C:1287:GLY:O	2:C:1288:ILE:CG1	2.35	0.75
3:E:83:ASN:N	3:E:83:ASN:HD22	1.83	0.75
1:A:204:LEU:N	1:A:204:LEU:HD12	2.02	0.75
1:A:263:LEU:O	1:A:264:SER:HB2	1.87	0.75
2:C:638:THR:HG21	2:C:1331:ARG:HH22	1.52	0.75
1:A:865:ASN:O	1:A:866:LEU:HD12	1.86	0.75
2:C:333:ARG:HG2	2:C:333:ARG:HH11	1.50	0.75
2:C:302:ARG:HB2	2:C:314:ILE:HG21	1.68	0.75
1:A:212:HIS:C	1:A:214:ASN:H	1.86	0.75
2:B:974:LEU:HB2	2:C:644:VAL:CG2	2.17	0.75
2:C:968:ARG:O	2:C:968:ARG:HG2	1.84	0.75
2:C:461:ARG:O	2:C:464:SER:HB3	1.87	0.74
1:A:1004:THR:CG2	1:A:1016:ILE:HD11	2.17	0.74
2:C:157:ILE:CD1	2:C:157:ILE:C	2.56	0.74
1:A:485:MET:HG3	1:A:511:ILE:HD11	1.66	0.74
1:A:858:VAL:HG21	1:A:872:VAL:HG23	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:884:ALA:O	2:C:888:GLN:HG2	1.87	0.74
2:B:815:LEU:HD23	2:B:815:LEU:O	1.85	0.74
2:B:1290:LYS:HZ1	2:B:1300:ASN:HB3	1.48	0.74
1:A:419:TYR:O	1:A:420:VAL:HG13	1.87	0.74
1:A:73:ARG:C	1:A:75:PRO:HD2	2.06	0.74
2:C:1064:ASN:HD22	2:C:1065:PRO:CD	2.00	0.74
2:C:1286:VAL:O	2:C:1288:ILE:HG13	1.87	0.74
1:A:404:SER:OG	1:A:824:ARG:NH1	2.20	0.74
2:C:256:PHE:C	2:C:259:MET:HB3	2.08	0.74
1:A:236:LEU:HD13	1:A:237:GLU:CA	2.15	0.74
1:A:47:ARG:O	1:A:48:SER:CB	2.35	0.74
2:C:1061:LEU:CD2	2:C:1061:LEU:C	2.55	0.74
3:E:105:LEU:HD22	3:E:110:VAL:O	1.87	0.74
3:E:68:ILE:HD11	3:E:93:LEU:HB2	1.69	0.74
1:A:962:PHE:CD1	1:A:998:LEU:HD11	2.22	0.74
2:B:615:THR:O	2:B:617:ASP:N	2.19	0.74
2:C:271:THR:HG22	2:C:272:THR:N	2.01	0.74
1:A:434:GLN:O	1:A:438:LYS:HG2	1.88	0.74
1:A:466:LEU:CD1	1:A:469:LEU:HD22	2.18	0.74
2:C:648:PHE:CB	2:C:699:THR:HG21	2.18	0.74
2:C:1171:ILE:HD11	2:C:1202:PHE:CZ	2.22	0.74
1:A:161:TYR:HD1	1:A:182:ARG:HD3	0.97	0.74
1:A:189:MET:CE	1:A:192:VAL:HG13	2.18	0.74
2:C:819:PHE:O	2:C:823:ILE:HD13	1.87	0.74
2:C:1075:ARG:HG3	2:C:1075:ARG:NH1	2.01	0.74
1:A:774:VAL:O	1:A:775:ASP:HB2	1.85	0.74
2:B:1139:MET:SD	2:B:1164:TRP:HZ3	2.11	0.74
1:A:136:ASN:C	1:A:138:PRO:HD3	2.08	0.74
1:A:466:LEU:O	1:A:466:LEU:HG	1.88	0.74
2:B:529:LYS:HG3	2:B:586:PRO:HG2	1.69	0.74
2:B:843:LEU:HB3	2:B:942:HIS:ND1	2.02	0.74
2:B:866:THR:HG22	2:B:1042:TRP:HH2	1.53	0.74
2:B:1055:LEU:C	2:B:1055:LEU:CD1	2.55	0.74
2:C:360:ILE:HD12	2:C:360:ILE:H	1.52	0.74
2:B:1153:ASP:HA	2:C:138:PHE:CD1	2.23	0.74
1:A:22:ILE:HD13	1:A:22:ILE:O	1.86	0.74
2:B:1077:MET:HG3	2:B:1165:VAL:HG12	1.70	0.74
2:B:574:LYS:HG3	2:B:575:TRP:H	1.53	0.74
2:B:652:PHE:HA	2:B:655:ILE:HG22	1.70	0.74
1:A:224:GLU:O	1:A:227:MET:HB3	1.88	0.74
1:A:28:PRO:HA	1:A:97:ARG:CG	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:559:THR:CG2	2:C:567:GLU:HB3	2.18	0.74
1:A:783:ILE:N	1:A:783:ILE:HD12	2.03	0.73
2:B:376:ILE:HG21	2:B:1317:VAL:HG11	1.68	0.73
2:B:1232:PRO:HB3	2:B:1236:ILE:HD11	1.70	0.73
2:B:713:MET:SD	2:B:804:LEU:HD23	2.28	0.73
3:D:89:TYR:O	3:D:91:SER:N	2.20	0.73
2:C:375:ARG:O	2:C:375:ARG:HD3	1.87	0.73
2:C:340:VAL:O	2:C:341:LYS:HG2	1.87	0.73
1:A:453:LEU:HD12	1:A:1021:THR:HG21	1.68	0.73
1:A:189:MET:HE3	1:A:192:VAL:HG13	1.69	0.73
2:C:1276:LEU:HD23	2:C:1276:LEU:H	1.52	0.73
2:B:381:ALA:HA	2:B:618:LEU:HD13	1.68	0.73
2:C:795:ASP:O	2:C:797:SER:N	2.19	0.73
3:D:26:ALA:HB2	3:D:30:GLN:NE2	1.97	0.73
2:C:260:THR:HA	2:C:1054:ARG:NH1	2.03	0.73
2:C:923:TYR:H	2:C:925:VAL:HG13	1.52	0.73
1:A:461:ARG:HA	1:A:461:ARG:HH11	1.52	0.73
2:B:164:LEU:CD1	2:B:1296:ILE:HD11	2.18	0.73
2:B:1191:GLU:HA	2:C:138:PHE:CE2	2.23	0.73
2:C:342:THR:N	2:C:1306:THR:HG21	2.02	0.73
3:E:77:PHE:CE1	3:E:231:MET:HE2	2.23	0.73
1:A:189:MET:CE	1:A:192:VAL:CG1	2.66	0.73
1:A:703:PHE:N	1:A:704:PRO:HD2	1.95	0.73
2:C:701:HIS:HB2	2:C:774:LEU:HD21	1.69	0.73
2:B:549:GLY:O	2:B:553:GLN:HB2	1.88	0.73
2:B:866:THR:HG22	2:B:1042:TRP:CH2	2.23	0.73
2:C:597:ALA:O	2:C:600:ILE:HG22	1.87	0.73
3:D:186:LEU:HD11	3:D:252:LEU:HD21	1.68	0.73
1:A:239:TRP:HH2	1:A:297:LEU:HD21	1.52	0.73
1:A:797:ARG:HD2	1:A:798:THR:HG23	1.71	0.73
2:B:544:TYR:HB3	2:B:547:GLU:HB2	1.71	0.73
1:A:628:MET:SD	1:A:628:MET:C	2.67	0.73
1:A:1024:LEU:C	1:A:1024:LEU:HD13	2.08	0.73
3:E:191:ARG:CZ	3:E:191:ARG:CB	2.65	0.73
1:A:183:ILE:N	1:A:183:ILE:HD12	2.03	0.73
1:A:417:TYR:CD2	1:A:490:LEU:HD22	2.24	0.73
2:C:342:THR:OG1	2:C:1306:THR:HG21	1.88	0.73
1:A:199:MET:HA	1:A:199:MET:HE3	1.70	0.73
2:C:385:ILE:HG23	2:C:386:SER:H	1.53	0.73
2:B:964:VAL:O	2:B:964:VAL:HG12	1.87	0.73
1:A:846:ARG:HG2	1:A:847:GLU:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:409:ILE:CD1	2:B:1040:PHE:CE1	2.72	0.73
1:A:114:ASN:HD21	1:A:117:LEU:HB3	1.54	0.73
2:C:843:LEU:CA	2:C:942:HIS:CE1	2.71	0.73
2:B:1232:PRO:CB	2:B:1236:ILE:HD11	2.18	0.73
2:B:1034:GLN:C	2:B:1035:ILE:HD12	2.08	0.73
2:C:469:ARG:HD2	2:C:510:VAL:HG22	1.70	0.73
1:A:429:TRP:CZ2	1:A:434:GLN:CD	2.62	0.73
2:C:1066:ARG:HH11	2:C:1066:ARG:CB	1.95	0.73
2:C:1080:THR:HA	2:C:1227:MET:HE2	1.69	0.73
1:A:377:LEU:CD1	1:A:759:LEU:CD1	2.65	0.73
2:B:510:VAL:O	2:B:513:GLU:HB3	1.89	0.73
3:E:46:LYS:HZ2	3:E:46:LYS:HB2	1.54	0.73
1:A:1021:THR:N	1:A:1022:PRO:HD2	2.04	0.73
2:C:409:ILE:CD1	2:C:626:ARG:H	1.97	0.73
3:D:213:LEU:C	3:D:213:LEU:CD1	2.54	0.73
2:C:441:ARG:CZ	2:C:441:ARG:HB3	2.14	0.73
2:C:373:ASP:CB	2:C:394:GLN:HB2	2.18	0.73
3:E:107:LEU:HA	3:E:122:TYR:CE2	2.24	0.73
3:D:235:VAL:HG23	3:D:235:VAL:O	1.88	0.73
1:A:431:ALA:O	1:A:435:ILE:HG13	1.88	0.72
2:C:533:GLN:HG2	2:C:588:LEU:HD12	1.71	0.72
1:A:118:GLY:O	1:A:121:ALA:N	2.20	0.72
3:E:255:ILE:O	3:E:255:ILE:HG23	1.89	0.72
3:E:56:LEU:HB2	3:E:57:PRO:HD2	1.69	0.72
2:C:443:VAL:HG22	2:C:445:GLU:H	1.53	0.72
2:B:1331:ARG:HB2	2:B:1331:ARG:NH1	2.03	0.72
1:A:275:ILE:HG22	1:A:276:GLY:N	2.04	0.72
2:B:389:PHE:CE1	2:B:1319:ARG:HB2	2.23	0.72
2:B:958:ILE:O	2:B:960:THR:HG23	1.89	0.72
1:A:418:GLY:O	1:A:681:ALA:CB	2.37	0.72
1:A:1012:ILE:HD12	1:A:1012:ILE:N	2.04	0.72
2:B:190:VAL:CG1	2:B:194:VAL:HG23	2.18	0.72
1:A:967:ILE:HD11	1:A:1049:TYR:HB2	0.74	0.72
1:A:438:LYS:O	1:A:442:VAL:HG23	1.89	0.72
1:A:47:ARG:NH2	1:A:76:LEU:HA	2.01	0.72
2:B:994:SER:O	2:B:995:THR:O	2.06	0.72
2:C:491:ASN:O	2:C:492:VAL:HB	1.89	0.72
1:A:168:ASN:H	1:A:168:ASN:HD22	1.38	0.72
2:C:1242:MET:HE2	2:C:1260:PRO:N	2.05	0.72
2:C:733:VAL:CG2	2:C:1022:ILE:CG2	2.68	0.72
2:C:124:GLN:HE22	2:C:126:ALA:HB2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:ALA:O	1:A:251:VAL:HG23	1.88	0.72
1:A:631:GLU:O	1:A:634:SER:HB3	1.89	0.72
2:C:461:ARG:CB	2:C:676:THR:HG21	2.18	0.72
2:B:701:HIS:HB2	2:B:774:LEU:HD12	1.70	0.72
2:B:612:PHE:CE1	2:B:1331:ARG:HB3	2.24	0.72
2:B:612:PHE:CE2	2:B:635:ILE:HB	2.25	0.72
3:D:258:ASN:HD22	3:D:258:ASN:C	1.93	0.72
2:C:732:TYR:HB2	2:C:744:ILE:HD12	1.72	0.72
2:C:1242:MET:HE3	2:C:1260:PRO:HB3	1.62	0.72
2:C:831:VAL:O	2:C:832:MET:HB2	1.89	0.72
1:A:882:ASP:CB	1:A:885:THR:CG2	2.60	0.72
2:B:559:THR:HB	2:B:583:GLU:HG2	1.72	0.72
2:B:860:ARG:HH11	2:B:860:ARG:CB	1.95	0.72
1:A:293:LEU:O	1:A:293:LEU:HD13	1.88	0.72
2:B:1124:THR:O	2:B:1126:MET:N	2.20	0.72
1:A:750:VAL:CG1	1:A:783:ILE:HD11	2.18	0.72
2:B:855:TYR:CD1	2:B:859:ILE:HG23	2.25	0.72
1:A:255:ARG:HG2	1:A:255:ARG:NH1	1.95	0.72
1:A:15:LEU:HD21	1:A:56:PRO:HA	1.72	0.72
2:B:558:TYR:CE1	2:B:585:PHE:HB2	2.23	0.72
1:A:329:THR:O	1:A:331:ARG:N	2.23	0.72
2:C:144:ASN:HD22	2:C:1318:GLU:HB2	1.54	0.72
2:B:557:THR:HA	2:B:587:ALA:HB2	1.72	0.72
1:A:161:TYR:CZ	1:A:182:ARG:NH1	2.57	0.72
1:A:305:TYR:O	1:A:308:ALA:CB	2.27	0.72
1:A:203:THR:HB	1:A:204:LEU:HD12	1.71	0.72
2:B:1078:TYR:HE1	2:C:121:PHE:HZ	1.37	0.72
3:E:233:THR:HG22	3:E:252:LEU:HD23	1.70	0.72
2:C:286:LEU:HD21	2:C:288:THR:CA	2.19	0.72
2:B:1228:ARG:NH1	2:C:120:VAL:HG21	2.05	0.72
2:B:241:ALA:HA	2:B:1199:GLY:CA	2.16	0.72
1:A:891:THR:HA	1:A:894:LYS:NZ	2.05	0.72
1:A:134:VAL:HG11	1:A:141:LEU:HD11	1.72	0.71
1:A:861:ILE:CG2	1:A:921:PHE:CE2	2.72	0.71
2:C:559:THR:HG23	2:C:567:GLU:HB3	1.71	0.71
2:C:1116:ARG:HG2	2:C:1116:ARG:HH11	1.55	0.71
2:B:659:LEU:O	2:B:659:LEU:HD23	1.90	0.71
2:B:656:VAL:HG12	2:B:684:LEU:HD12	1.70	0.71
2:B:696:VAL:CG1	2:B:697:ALA:H	2.02	0.71
2:B:385:ILE:H	2:B:708:THR:HG21	1.55	0.71
2:C:843:LEU:HB3	2:C:942:HIS:HE1	1.51	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:656:VAL:O	2:C:660:ALA:CB	2.38	0.71
3:E:29:THR:HG22	3:E:222:ASP:CB	2.20	0.71
3:D:11:THR:HG22	3:D:219:ARG:NH1	2.05	0.71
2:B:698:HIS:O	2:B:702:LEU:HB3	1.88	0.71
1:A:134:VAL:CG1	1:A:141:LEU:HD11	2.21	0.71
2:B:856:LEU:O	2:B:858:HIS:N	2.23	0.71
1:A:259:ARG:CG	1:A:259:ARG:HH11	2.02	0.71
2:B:887:VAL:HG13	2:B:893:ALA:HA	1.71	0.71
2:B:264:LEU:HD22	2:B:362:LEU:HD13	1.71	0.71
2:C:395:GLY:O	3:E:263:ALA:HB1	1.90	0.71
2:B:1240:ARG:CB	2:B:1240:ARG:HH11	2.00	0.71
1:A:578:ASN:ND2	1:A:579:VAL:H	1.88	0.71
2:C:676:THR:HA	2:C:679:CYS:SG	2.30	0.71
1:A:625:PHE:O	1:A:626:GLU:C	2.28	0.71
1:A:688:TYR:C	1:A:688:TYR:CD1	2.62	0.71
1:A:1024:LEU:HD13	1:A:1025:ILE:N	2.04	0.71
1:A:125:ASN:HD21	2:B:647:GLU:HG3	1.54	0.71
2:C:146:GLU:HB2	2:C:1317:VAL:O	1.91	0.71
2:C:1137:VAL:CG1	2:C:1164:TRP:CG	2.73	0.71
2:C:679:CYS:O	2:C:682:GLN:CB	2.34	0.71
2:B:1323:ASP:O	2:B:1324:ASP:HB2	1.90	0.71
2:C:298:PRO:O	2:C:301:LEU:HB3	1.91	0.71
1:A:416:MET:HA	1:A:416:MET:CE	2.19	0.71
1:A:559:ILE:HG22	1:A:585:ILE:HD13	1.71	0.71
2:B:153:ASP:O	2:B:154:PHE:CG	2.44	0.71
2:B:267:VAL:HG13	2:B:1304:MET:HG3	1.71	0.71
3:D:4:GLN:O	3:D:4:GLN:HG3	1.89	0.71
3:D:107:LEU:HD12	3:D:122:TYR:CZ	2.26	0.71
2:C:1117:VAL:O	2:C:1117:VAL:HG12	1.91	0.71
2:C:259:MET:HG3	2:C:260:THR:HG23	1.73	0.71
3:E:161:ALA:HB1	3:E:175:LYS:NZ	2.05	0.71
2:C:585:PHE:CE1	2:C:728:LYS:HD2	2.26	0.71
3:E:148:ASP:O	3:E:152:ILE:HD13	1.91	0.71
2:C:815:LEU:HD11	2:C:1051:GLN:NE2	2.06	0.71
2:B:385:ILE:O	2:B:385:ILE:HG23	1.90	0.71
1:A:164:ILE:CG1	1:A:183:ILE:HD13	2.20	0.71
2:B:985:ARG:O	2:B:989:ILE:HG13	1.90	0.71
2:B:855:TYR:CZ	2:B:860:ARG:HG3	2.26	0.71
1:A:904:PHE:N	1:A:904:PHE:CD2	2.55	0.71
2:C:699:THR:O	2:C:703:SER:HB2	1.89	0.71
2:B:685:ARG:HG3	2:B:685:ARG:HH11	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:302:ARG:HB2	2:C:314:ILE:HG22	1.72	0.71
2:B:686:HIS:O	2:B:690:GLN:CB	2.38	0.71
1:A:60:PHE:HZ	1:A:99:VAL:HG21	1.56	0.71
1:A:861:ILE:CG2	1:A:921:PHE:CZ	2.73	0.71
3:E:149:MET:HB3	3:E:280:ALA:CB	2.21	0.71
1:A:429:TRP:CE2	1:A:434:GLN:NE2	2.57	0.70
1:A:539:LEU:O	1:A:543:GLU:HG2	1.91	0.70
1:A:493:LEU:HD23	1:A:493:LEU:C	2.10	0.70
2:C:547:GLU:HG3	2:C:597:ALA:HA	1.73	0.70
2:C:649:ALA:HB2	2:C:695:ALA:CB	2.18	0.70
1:A:561:LEU:HG	1:A:615:CYS:SG	2.31	0.70
1:A:330:GLN:OE1	1:A:330:GLN:HA	1.91	0.70
2:C:332:THR:O	2:C:334:LEU:N	2.23	0.70
2:B:820:ILE:HD11	2:B:986:ILE:HD12	1.73	0.70
2:B:148:GLN:HA	2:B:148:GLN:HE21	1.53	0.70
2:C:210:ARG:H	2:C:210:ARG:HD2	1.54	0.70
3:E:193:VAL:O	3:E:193:VAL:HG12	1.91	0.70
1:A:275:ILE:HD12	1:A:280:PRO:HG3	1.72	0.70
1:A:504:THR:HG22	1:A:505:PHE:H	1.56	0.70
2:C:1076:ILE:HD12	2:C:1076:ILE:N	2.07	0.70
1:A:192:VAL:HG13	1:A:193:ASN:N	2.06	0.70
2:C:820:ILE:HD12	2:C:983:ILE:CG1	2.16	0.70
2:B:408:ILE:O	2:B:412:LEU:N	2.22	0.70
2:B:812:LYS:NZ	2:B:812:LYS:HB3	2.06	0.70
2:B:350:ILE:HG23	2:B:355:ALA:HB2	1.72	0.70
2:B:357:VAL:HA	2:B:360:ILE:HG12	1.74	0.70
2:B:492:VAL:HG13	2:B:580:TYR:HD2	1.56	0.70
2:B:808:GLN:C	2:B:808:GLN:OE1	2.30	0.70
3:D:283:LEU:O	3:D:287:PHE:HB2	1.91	0.70
1:A:701:VAL:O	1:A:702:ARG:HG2	1.91	0.70
1:A:406:VAL:HG11	1:A:460:VAL:HG22	1.72	0.70
2:C:1278:TYR:CE2	2:C:1289:PRO:HG3	2.26	0.70
3:D:260:MET:O	3:D:262:THR:HG23	1.92	0.70
2:C:650:SER:O	2:C:653:ARG:HB3	1.92	0.70
2:C:348:LEU:HD12	2:C:348:LEU:N	2.06	0.70
2:C:832:MET:CE	2:C:946:LEU:CG	2.70	0.70
1:A:306:GLN:C	1:A:306:GLN:OE1	2.30	0.70
2:B:384:MET:HG3	2:B:793:TYR:CD1	2.16	0.70
2:B:652:PHE:HA	2:B:655:ILE:HG21	1.71	0.70
2:B:1242:MET:SD	2:B:1245:ILE:HD11	2.31	0.70
2:B:226:PRO:O	2:B:227:LEU:HB2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:LEU:CD1	1:A:472:LEU:C	2.59	0.70
2:C:627:ALA:O	2:C:1037:ILE:HD11	1.92	0.70
2:B:739:GLY:HA2	2:C:653:ARG:HD3	1.74	0.70
2:C:1042:TRP:HZ3	2:C:1044:ARG:HD3	1.55	0.70
1:A:754:SER:C	1:A:756:PRO:HD2	2.12	0.70
2:C:644:VAL:O	2:C:645:THR:CG2	2.40	0.70
1:A:235:ILE:O	1:A:238:ASP:HB2	1.92	0.70
2:B:1300:ASN:ND2	2:B:1300:ASN:N	2.36	0.70
1:A:62:PHE:O	1:A:63:SER:HB2	1.91	0.70
2:B:656:VAL:HG13	2:B:684:LEU:HD13	1.72	0.70
2:C:1226:ASP:O	2:C:1227:MET:HE3	1.92	0.70
1:A:336:LEU:HD22	1:A:348:LEU:HD22	1.73	0.70
2:B:585:PHE:HE1	2:B:728:LYS:HG2	1.57	0.70
1:A:536:TYR:CD2	1:A:572:LEU:CD2	2.74	0.70
3:E:190:SER:HA	3:E:230:ILE:HG12	1.74	0.70
1:A:267:THR:HA	1:A:270:GLN:HB2	1.73	0.70
2:B:430:ASN:HD21	2:B:715:ASN:HD21	1.38	0.70
2:C:360:ILE:CD1	2:C:360:ILE:H	2.04	0.70
1:A:967:ILE:HG12	1:A:1049:TYR:HB3	1.73	0.69
2:B:385:ILE:O	2:B:386:SER:HB2	1.92	0.69
2:C:362:LEU:HD23	2:C:363:ARG:CA	2.22	0.69
2:B:248:VAL:HG22	2:B:970:LEU:HD22	1.74	0.69
2:C:441:ARG:HB3	2:C:441:ARG:HH11	1.54	0.69
3:E:167:ARG:NH1	3:E:175:LYS:HE2	2.07	0.69
3:E:189:LEU:C	3:E:189:LEU:CD2	2.60	0.69
3:E:83:ASN:H	3:E:83:ASN:ND2	1.89	0.69
2:C:960:THR:O	2:C:961:SER:HB3	1.92	0.69
2:B:832:MET:HB3	2:B:850:THR:OG1	1.92	0.69
1:A:551:LEU:HA	1:A:576:ASN:HD21	1.57	0.69
2:C:189:ILE:C	2:C:191:GLY:H	1.96	0.69
1:A:135:VAL:O	1:A:138:PRO:HG3	1.91	0.69
1:A:154:PHE:CE1	1:A:162:ILE:HG13	2.26	0.69
3:D:238:ASN:O	3:D:253:GLU:HB2	1.91	0.69
2:C:967:LEU:C	2:C:967:LEU:HD23	2.09	0.69
3:D:11:THR:HG22	3:D:219:ARG:HH12	1.58	0.69
1:A:351:TYR:CD1	1:A:351:TYR:N	2.58	0.69
1:A:182:ARG:NH2	1:A:220:HIS:NE2	2.39	0.69
1:A:560:LEU:N	1:A:585:ILE:O	2.22	0.69
2:B:737:PRO:CG	2:B:1016:ASN:HB2	2.22	0.69
2:B:867:ASN:O	2:B:868:VAL:HG22	1.92	0.69
1:A:1020:SER:HB2	1:A:1022:PRO:HD2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:137:LEU:CD2	3:E:278:PHE:CZ	2.75	0.69
2:B:860:ARG:HA	2:B:863:LEU:HD13	1.74	0.69
2:B:357:VAL:CG2	2:B:1054:ARG:HD3	2.22	0.69
2:C:157:ILE:O	2:C:157:ILE:HD12	1.91	0.69
2:C:493:HIS:CB	2:C:758:ILE:HD11	2.22	0.69
3:E:103:ALA:HA	3:E:112:TYR:O	1.93	0.69
3:D:98:LEU:HB3	3:D:99:PRO:HD2	1.74	0.69
2:B:199:TYR:CE1	2:B:1246:VAL:HA	2.28	0.69
2:B:512:LEU:HD11	2:B:684:LEU:HD21	1.73	0.69
1:A:800:SER:O	1:A:801:ASN:HB2	1.92	0.69
2:C:243:GLN:HE21	2:C:245:ALA:HB3	1.57	0.69
1:A:746:PHE:HB2	1:A:785:ALA:HB3	1.74	0.69
1:A:154:PHE:HE1	1:A:162:ILE:HG13	1.58	0.69
1:A:561:LEU:CB	1:A:615:CYS:HA	2.23	0.69
2:B:1077:MET:HE2	2:B:1165:VAL:HG11	1.74	0.69
2:C:1249:ASN:C	2:C:1249:ASN:HD22	1.95	0.69
1:A:845:ILE:HG21	1:A:920:LEU:HD21	1.73	0.69
2:B:988:GLN:C	2:B:988:GLN:OE1	2.31	0.69
2:C:1045:TYR:O	2:C:1046:PHE:HB2	1.91	0.69
2:B:693:ASN:OD1	2:B:694:ILE:HD12	1.93	0.69
2:B:1159:VAL:CG1	2:B:1160:ILE:N	2.54	0.69
2:B:1076:ILE:HD11	2:B:1230:ILE:HG22	1.70	0.69
2:C:575:TRP:CE3	2:C:575:TRP:O	2.46	0.69
2:B:829:SER:CA	2:B:946:LEU:O	2.38	0.69
2:B:286:LEU:HG	2:B:287:ARG:H	1.56	0.69
2:B:428:GLN:O	2:B:431:THR:CG2	2.41	0.69
2:C:124:GLN:O	2:C:124:GLN:CD	2.30	0.69
3:E:107:LEU:HA	3:E:122:TYR:HE2	1.57	0.69
2:C:1228:ARG:HD3	2:C:1231:TYR:CZ	2.28	0.69
2:C:264:LEU:CD2	2:C:362:LEU:HB2	2.22	0.69
1:A:255:ARG:HE	1:A:258:GLN:HE22	1.39	0.69
2:B:430:ASN:HD21	2:B:715:ASN:ND2	1.91	0.69
2:B:424:GLY:HA3	2:B:752:VAL:HG11	1.74	0.69
2:C:307:VAL:HG21	2:C:1245:ILE:HG23	1.74	0.69
1:A:347:LEU:O	1:A:347:LEU:HD13	1.91	0.69
2:C:1171:ILE:HD11	2:C:1202:PHE:HZ	1.57	0.69
3:E:20:ARG:HG2	3:E:20:ARG:HH11	1.56	0.69
1:A:658:ILE:HD11	1:A:677:LEU:HD11	1.75	0.69
2:C:883:ILE:HG23	2:C:895:VAL:HG21	1.75	0.69
3:D:178:LYS:HA	3:D:250:ARG:O	1.91	0.69
2:B:1267:THR:HB	2:B:1299:SER:HG	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:612:PHE:HE1	2:C:1331:ARG:HA	1.58	0.69
1:A:967:ILE:CD1	1:A:1049:TYR:CG	2.76	0.68
2:B:1319:ARG:HB3	2:B:1319:ARG:HH11	1.57	0.68
2:B:695:ALA:O	2:B:699:THR:CG2	2.33	0.68
1:A:658:ILE:CD1	1:A:677:LEU:HD11	2.23	0.68
1:A:210:SER:O	1:A:211:TRP:CG	2.45	0.68
3:D:38:GLU:O	3:D:176:ARG:N	2.25	0.68
2:B:266:ILE:HG22	2:B:1305:MET:HG3	1.73	0.68
1:A:913:LEU:HB2	1:A:953:ARG:HD2	1.75	0.68
1:A:869:ILE:HG23	1:A:870:SER:N	2.08	0.68
2:B:299:ALA:C	2:B:301:LEU:H	1.95	0.68
2:B:269:GLU:O	2:B:292:ASN:HB3	1.92	0.68
1:A:805:TYR:HD2	1:A:806:HIS:N	1.90	0.68
2:C:843:LEU:HA	2:C:942:HIS:CE1	2.27	0.68
2:B:334:LEU:HB2	2:B:340:VAL:O	1.93	0.68
2:C:135:LYS:HZ2	2:C:135:LYS:HB2	1.57	0.68
2:B:408:ILE:O	2:B:412:LEU:CB	2.42	0.68
2:C:1122:PRO:HB2	2:C:1123:PRO:HD3	1.74	0.68
3:D:146:ARG:HB2	3:D:146:ARG:NH1	2.07	0.68
2:B:697:ALA:HB2	2:B:774:LEU:HD22	1.73	0.68
1:A:587:MET:N	1:A:587:MET:SD	2.65	0.68
2:B:600:ILE:O	2:B:603:ILE:HG22	1.93	0.68
3:E:92:ARG:HD3	3:E:92:ARG:C	2.13	0.68
2:C:1154:ASN:C	2:C:1154:ASN:OD1	2.30	0.68
1:A:161:TYR:CE1	1:A:182:ARG:HD3	2.23	0.68
2:C:342:THR:H	2:C:1306:THR:CG2	2.04	0.68
1:A:536:TYR:CD2	1:A:572:LEU:HD22	2.29	0.68
2:B:661:ASN:OD1	2:B:661:ASN:C	2.30	0.68
1:A:222:ARG:HA	1:A:222:ARG:HH11	1.59	0.68
1:A:649:LYS:HB2	1:A:691:TYR:HE1	1.56	0.68
2:B:1154:ASN:C	2:B:1154:ASN:OD1	2.32	0.68
1:A:195:ILE:HD13	1:A:216:LEU:CD2	2.23	0.68
2:C:652:PHE:HD2	2:C:691:PHE:CD2	2.12	0.68
2:C:208:LEU:HB3	2:C:221:LEU:HD21	1.73	0.68
1:A:560:LEU:HD12	1:A:569:VAL:HB	1.76	0.68
2:C:170:TYR:HD1	2:C:201:ALA:HB2	1.57	0.68
2:C:795:ASP:C	2:C:797:SER:H	1.96	0.68
1:A:845:ILE:HG21	1:A:920:LEU:CD2	2.23	0.68
2:C:388:GLN:HB2	2:C:1320:VAL:CG2	2.23	0.68
3:D:137:LEU:HD11	3:D:278:PHE:CZ	2.29	0.68
2:B:630:ASN:HD22	2:B:630:ASN:H	1.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:279:SER:O	2:C:283:ASN:HB2	1.94	0.68
3:E:160:LEU:O	3:E:160:LEU:HD23	1.93	0.68
2:C:264:LEU:HD11	2:C:365:LEU:CD2	2.23	0.68
1:A:349:TYR:HD1	1:A:350:PRO:HD2	1.56	0.68
1:A:49:HIS:NE2	1:A:75:PRO:HB2	2.08	0.68
2:C:646:ASN:ND2	2:C:695:ALA:HB3	2.08	0.68
2:C:325:TYR:CG	2:C:326:GLY:N	2.61	0.68
1:A:887:ILE:HG22	1:A:888:GLU:O	1.94	0.68
3:D:128:ALA:O	3:D:132:ALA:HB2	1.93	0.68
2:C:1242:MET:HE2	2:C:1260:PRO:CA	2.24	0.68
2:C:1042:TRP:CZ3	2:C:1044:ARG:HA	2.28	0.68
2:C:217:THR:HG22	2:C:253:MET:HE2	1.76	0.68
2:B:652:PHE:HB2	2:B:691:PHE:CE1	2.25	0.68
2:B:1153:ASP:O	2:B:1157:ALA:HB2	1.94	0.68
2:C:1066:ARG:C	2:C:1067:ILE:HD12	2.14	0.68
2:B:1308:ASN:C	2:B:1309:ILE:HD13	2.13	0.68
2:B:1141:ILE:HD13	2:B:1147:MET:HE1	1.75	0.68
2:C:1305:MET:HE2	2:C:1309:ILE:HG12	1.76	0.68
2:C:253:MET:SD	2:C:989:ILE:CD1	2.78	0.68
2:B:376:ILE:CG2	2:B:1317:VAL:HG11	2.23	0.68
2:C:350:ILE:HG12	2:C:350:ILE:O	1.93	0.68
2:C:415:ALA:O	2:C:419:TYR:HB3	1.94	0.68
2:C:450:PRO:CD	2:C:453:LEU:HD12	2.23	0.68
3:D:98:LEU:HD22	3:D:99:PRO:HD2	1.75	0.68
1:A:805:TYR:CD2	1:A:806:HIS:N	2.62	0.68
2:C:462:LEU:HD23	2:C:680:THR:HG22	1.69	0.68
1:A:43:ASN:C	1:A:45:GLN:H	1.97	0.68
2:B:580:TYR:C	2:B:580:TYR:CD1	2.68	0.68
2:B:1104:ARG:HH12	2:B:1105:LEU:HD23	1.59	0.68
2:B:522:PRO:HG2	2:B:523:THR:H	1.59	0.68
2:C:1147:MET:HB3	2:C:1152:ALA:HB2	1.75	0.68
1:A:621:GLU:HB3	1:A:623:GLN:NE2	2.09	0.68
2:B:1190:ALA:O	2:B:1191:GLU:C	2.33	0.68
1:A:212:HIS:C	1:A:214:ASN:N	2.44	0.68
1:A:763:LYS:HD2	1:A:764:SER:N	2.09	0.68
2:C:1054:ARG:HH11	2:C:1054:ARG:HG3	1.58	0.67
2:B:1031:TYR:CE2	2:B:1041:ARG:HB2	2.29	0.67
2:C:1137:VAL:HG11	2:C:1164:TRP:CD2	2.19	0.67
1:A:771:THR:OG1	1:A:781:VAL:CG1	2.42	0.67
1:A:207:THR:O	1:A:260:LEU:HB2	1.94	0.67
2:C:529:LYS:HB2	2:C:589:PHE:CE2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:ARG:CB	1:A:797:ARG:HH11	2.06	0.67
2:C:319:GLN:CA	2:C:319:GLN:HE21	2.04	0.67
2:C:1090:PRO:HD3	2:C:1231:TYR:CD1	2.29	0.67
2:C:306:GLN:O	2:C:307:VAL:C	2.31	0.67
2:C:801:SER:O	2:C:804:LEU:HB2	1.93	0.67
2:B:197:PHE:HD2	2:B:197:PHE:N	1.91	0.67
2:C:1061:LEU:HD23	2:C:1061:LEU:C	2.14	0.67
1:A:461:ARG:HD3	1:A:527:ASN:ND2	2.09	0.67
2:C:1293:VAL:HG11	2:C:1295:HIS:CE1	2.28	0.67
3:D:174:VAL:O	3:D:174:VAL:CG2	2.42	0.67
3:D:3:GLN:NE2	3:D:4:GLN:N	2.42	0.67
2:B:1272:ARG:HH11	3:D:70:ASP:HB3	1.59	0.67
2:B:702:LEU:C	2:B:702:LEU:CD1	2.62	0.67
1:A:453:LEU:O	1:A:453:LEU:HD23	1.94	0.67
1:A:311:GLN:HG3	1:A:312:LEU:N	2.09	0.67
2:B:226:PRO:O	2:B:227:LEU:CB	2.42	0.67
2:C:705:VAL:O	2:C:708:THR:CG2	2.42	0.67
2:B:806:VAL:CG2	2:B:1001:THR:HG21	2.24	0.67
2:C:237:VAL:HG12	2:C:238:THR:H	1.59	0.67
1:A:630:SER:O	1:A:633:ILE:HG22	1.93	0.67
2:B:908:THR:HA	2:B:911:ARG:NH1	2.08	0.67
3:E:56:LEU:HD13	3:E:56:LEU:H	1.58	0.67
2:B:637:TYR:CD2	2:B:637:TYR:N	2.61	0.67
2:C:300:LEU:C	2:C:300:LEU:HD23	2.14	0.67
1:A:366:SER:O	1:A:367:ASN:HB3	1.95	0.67
1:A:400:VAL:HG12	1:A:772:TRP:HZ3	1.59	0.67
2:C:823:ILE:N	2:C:823:ILE:HD12	2.09	0.67
2:B:350:ILE:O	2:B:351:ASP:O	2.12	0.67
2:B:757:ILE:HG22	2:B:757:ILE:O	1.94	0.67
2:B:872:ILE:CG1	2:B:873:TYR:H	2.03	0.67
2:C:832:MET:HB3	2:C:944:SER:O	1.93	0.67
2:C:461:ARG:HB3	2:C:676:THR:CG2	2.21	0.67
2:B:382:HIS:O	2:B:796:PRO:HB2	1.95	0.67
2:B:1155:ILE:CG2	2:B:1166:VAL:HG11	2.25	0.67
3:E:137:LEU:HD21	3:E:278:PHE:CE1	2.29	0.67
2:C:895:VAL:HG23	2:C:915:VAL:HG12	1.77	0.67
2:B:1081:ASP:H	2:B:1227:MET:HA	1.60	0.67
2:C:1277:LEU:HA	2:C:1289:PRO:CD	2.25	0.67
2:B:320:GLN:HA	2:B:320:GLN:OE1	1.93	0.67
2:C:306:GLN:O	2:C:308:ASN:N	2.28	0.67
2:C:836:GLN:HE21	2:C:843:LEU:N	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1288:ILE:HD13	2:C:1291:LEU:HD23	1.76	0.67
2:C:347:ALA:HA	2:C:1300:ASN:O	1.95	0.67
2:C:317:MET:C	2:C:319:GLN:H	1.98	0.67
2:C:558:TYR:HB3	2:C:568:PHE:CD1	2.28	0.67
2:C:428:GLN:CA	2:C:431:THR:HG22	2.25	0.67
2:C:1132:THR:HB	2:C:1161:LYS:HD3	1.75	0.67
2:C:337:VAL:HG12	2:C:343:ILE:HD12	1.76	0.67
2:C:217:THR:HG22	2:C:253:MET:CE	2.25	0.67
1:A:625:PHE:O	1:A:627:SER:N	2.28	0.67
2:B:1048:ASP:HB3	2:B:1051:GLN:HG2	1.76	0.67
2:C:1041:ARG:HH11	2:C:1041:ARG:CB	2.07	0.67
2:B:926:VAL:HG11	2:B:936:MET:O	1.94	0.67
2:C:979:ILE:HD12	2:C:1013:LYS:HG2	1.77	0.67
2:C:859:ILE:CD1	2:C:859:ILE:C	2.58	0.67
1:A:92:LEU:HD11	1:A:96:MET:CG	2.25	0.67
2:C:1289:PRO:O	2:C:1290:LYS:HB2	1.95	0.67
2:B:183:SER:O	2:B:187:ASP:HB2	1.95	0.67
2:B:1106:PHE:CE2	2:B:1119:TYR:HD1	2.13	0.67
2:B:302:ARG:HH21	2:B:315:THR:HG23	1.58	0.67
1:A:508:ASN:O	1:A:510:MET:N	2.27	0.67
2:C:78:ALA:HB2	2:C:1182:GLU:HB3	1.77	0.67
2:C:414:LEU:HB2	2:C:1046:PHE:CE1	2.29	0.67
1:A:781:VAL:HG12	1:A:782:ASN:H	1.56	0.67
2:B:701:HIS:HB2	2:B:774:LEU:CD1	2.25	0.67
2:C:213:PHE:HE1	2:C:254:VAL:HG13	1.55	0.67
2:B:1277:LEU:HB3	2:B:1289:PRO:HA	1.77	0.67
2:B:603:ILE:O	2:B:606:LEU:HG	1.95	0.67
2:B:1198:LYS:NZ	2:B:1198:LYS:HB3	2.10	0.67
2:B:598:ASN:HA	2:B:601:ILE:HG22	1.77	0.67
2:C:301:LEU:CD2	2:C:301:LEU:O	2.30	0.66
2:B:652:PHE:HB3	2:B:691:PHE:CE1	2.29	0.66
2:B:1283:ASN:C	2:B:1285:GLN:N	2.45	0.66
2:C:198:LYS:CB	2:C:198:LYS:NZ	2.58	0.66
2:B:1043:SER:O	2:B:1045:TYR:N	2.28	0.66
1:A:200:ARG:NH1	1:A:200:ARG:HG2	2.06	0.66
2:C:733:VAL:HG22	2:C:1022:ILE:HG23	1.77	0.66
1:A:256:VAL:HG21	1:A:336:LEU:HG	1.75	0.66
1:A:377:LEU:HD11	1:A:759:LEU:HD13	1.76	0.66
1:A:485:MET:CE	1:A:492:HIS:HA	2.24	0.66
1:A:419:TYR:HD2	1:A:419:TYR:H	1.41	0.66
1:A:53:LEU:HD23	1:A:171:ILE:CD1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:928:GLU:HB3	1:A:929:PRO:HD2	1.76	0.66
2:B:676:THR:O	2:B:680:THR:CG2	2.34	0.66
1:A:880:VAL:HG23	1:A:880:VAL:O	1.94	0.66
1:A:73:ARG:HH11	1:A:73:ARG:CB	2.08	0.66
2:B:1141:ILE:HD13	2:B:1147:MET:CE	2.25	0.66
2:B:841:ASP:HB2	2:B:845:GLU:CG	2.25	0.66
2:B:348:LEU:HD12	2:B:348:LEU:O	1.95	0.66
1:A:625:PHE:O	1:A:628:MET:N	2.28	0.66
1:A:880:VAL:CG2	1:A:899:VAL:HG22	2.24	0.66
1:A:75:PRO:HG2	1:A:76:LEU:H	1.61	0.66
2:C:378:ALA:CB	2:C:622:ALA:HB1	2.25	0.66
3:D:44:LEU:O	3:D:44:LEU:HD23	1.95	0.66
1:A:284:THR:HG23	1:A:285:GLU:H	1.60	0.66
2:C:873:TYR:HA	2:C:896:LEU:O	1.95	0.66
2:B:1212:ARG:HB2	2:B:1212:ARG:NH1	2.08	0.66
1:A:597:ARG:O	1:A:597:ARG:CG	2.42	0.66
2:C:179:LYS:HZ2	2:C:179:LYS:HB2	1.58	0.66
2:B:174:PHE:CD2	2:B:174:PHE:N	2.64	0.66
2:C:388:GLN:HB2	2:C:1320:VAL:HG23	1.78	0.66
1:A:501:SER:HB3	1:A:520:PRO:HB3	1.77	0.66
3:E:211:GLU:HA	3:E:214:ARG:HH12	1.59	0.66
3:E:144:ARG:HB2	3:E:144:ARG:CZ	2.25	0.66
2:B:380:GLN:OE1	2:B:380:GLN:HA	1.94	0.66
1:A:453:LEU:CD2	1:A:454:GLY:N	2.58	0.66
2:C:649:ALA:HA	2:C:691:PHE:HE2	1.60	0.66
1:A:613:ILE:O	1:A:646:ALA:HB1	1.96	0.66
1:A:259:ARG:NH1	1:A:259:ARG:CB	2.59	0.66
2:C:124:GLN:C	2:C:124:GLN:OE1	2.34	0.66
2:C:1139:MET:HG3	2:C:1155:ILE:HD11	1.78	0.66
2:C:463:VAL:O	2:C:467:LYS:HB2	1.95	0.66
1:A:195:ILE:HG23	1:A:196:LEU:H	1.61	0.66
2:B:948:ILE:HG23	2:B:949:ALA:N	2.11	0.66
1:A:559:ILE:HG13	1:A:613:ILE:HG23	1.78	0.66
3:E:161:ALA:CB	3:E:175:LYS:NZ	2.59	0.66
1:A:72:PHE:CE1	1:A:171:ILE:HG22	2.31	0.66
3:E:92:ARG:HD3	3:E:92:ARG:O	1.96	0.66
2:B:1109:SER:HB3	2:B:1118:THR:CG2	2.26	0.66
2:B:578:ALA:HA	2:B:747:ARG:HD3	1.78	0.66
2:C:253:MET:HE1	2:C:989:ILE:HD13	1.78	0.66
2:C:859:ILE:CD1	2:C:859:ILE:O	2.30	0.66
2:C:872:ILE:CG1	2:C:873:TYR:N	2.56	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:253:MET:CE	2:B:989:ILE:HD12	2.26	0.66
2:C:733:VAL:HG11	2:C:1022:ILE:CG2	2.03	0.66
1:A:569:VAL:HG23	1:A:584:ILE:CG2	2.26	0.66
2:B:473:ALA:CB	2:B:762:ILE:HD13	2.24	0.66
2:B:388:GLN:HE21	2:B:388:GLN:HA	1.61	0.66
2:C:615:THR:HA	2:C:632:GLN:HA	1.77	0.66
2:C:1054:ARG:NH1	2:C:1054:ARG:HG3	2.10	0.66
2:B:614:ARG:NH1	2:B:707:ALA:O	2.28	0.66
2:B:691:PHE:HA	2:B:694:ILE:HD13	1.78	0.66
2:C:336:TYR:HD1	3:E:191:ARG:CZ	2.09	0.66
2:B:894:VAL:HG12	2:B:895:VAL:N	2.09	0.66
2:C:1064:ASN:HD22	2:C:1065:PRO:HD2	1.59	0.66
1:A:239:TRP:CZ3	1:A:297:LEU:HD21	2.30	0.66
1:A:861:ILE:HD13	1:A:921:PHE:HZ	1.58	0.66
3:E:43:GLU:O	3:E:44:LEU:HD23	1.96	0.66
2:B:334:LEU:CB	2:B:341:LYS:HA	2.25	0.66
3:E:46:LYS:NZ	3:E:155:HIS:ND1	2.42	0.66
2:C:1168:ILE:CD1	2:C:1194:MET:HE1	2.25	0.66
2:C:548:TYR:O	2:C:548:TYR:CG	2.48	0.66
1:A:117:LEU:CD2	1:A:117:LEU:C	2.63	0.66
2:C:897:TYR:CE2	2:C:919:MET:HE1	2.31	0.66
2:B:1057:VAL:O	2:B:1060:ARG:HB3	1.96	0.66
2:B:1050:LEU:C	2:B:1050:LEU:CD1	2.63	0.66
1:A:578:ASN:HD21	1:A:579:VAL:HG23	1.62	0.66
2:C:125:PHE:N	2:C:125:PHE:CD2	2.63	0.66
3:E:269:ILE:N	3:E:269:ILE:HD12	2.12	0.65
1:A:113:TYR:O	1:A:115:TRP:N	2.24	0.65
2:B:228:VAL:HG21	2:B:253:MET:HG2	1.79	0.65
1:A:426:ARG:HA	1:A:426:ARG:CZ	2.26	0.65
2:C:405:HIS:HB2	2:C:623:ASN:HD22	1.61	0.65
2:C:433:TYR:CE1	2:C:794:PRO:HG3	2.30	0.65
1:A:506:VAL:HG23	1:A:507:GLY:N	2.10	0.65
1:A:963:TYR:O	1:A:997:THR:HB	1.96	0.65
2:C:372:ALA:O	2:C:376:ILE:HG13	1.95	0.65
2:C:1104:ARG:HH11	2:C:1104:ARG:HG2	1.60	0.65
2:C:865:ILE:CD1	2:C:1042:TRP:HB2	2.27	0.65
2:C:1156:ILE:CD1	2:C:1194:MET:HE3	2.23	0.65
1:A:205:VAL:HG22	1:A:263:LEU:O	1.95	0.65
2:C:206:ILE:HD12	2:C:1066:ARG:HD3	1.78	0.65
2:C:641:ARG:NH1	2:C:641:ARG:HB3	2.09	0.65
2:C:527:ARG:HG3	2:C:527:ARG:HH11	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:299:ALA:HB2	2:C:1265:MET:SD	2.36	0.65
2:B:458:SER:OG	2:B:675:ALA:HB1	1.97	0.65
2:C:533:GLN:OE1	2:C:533:GLN:C	2.34	0.65
2:C:336:TYR:CD1	3:E:191:ARG:CZ	2.79	0.65
2:C:478:ILE:HG22	2:C:762:ILE:HD11	1.78	0.65
1:A:598:VAL:HG21	1:A:602:PHE:CE2	2.28	0.65
2:B:262:ASN:HA	2:B:361:ASN:HD21	1.60	0.65
2:C:350:ILE:O	2:C:351:ASP:HB2	1.96	0.65
2:B:806:VAL:CG2	2:B:997:TYR:CE2	2.79	0.65
2:B:342:THR:HA	2:B:1309:ILE:HD11	1.78	0.65
2:B:911:ARG:HB3	2:B:911:ARG:NH1	2.11	0.65
2:B:173:GLN:HB3	2:B:174:PHE:CD2	2.31	0.65
3:D:278:PHE:CD1	3:D:278:PHE:C	2.70	0.65
1:A:1049:TYR:C	1:A:1051:PRO:HD3	2.14	0.65
1:A:688:TYR:C	1:A:688:TYR:HD1	1.98	0.65
2:C:835:TYR:CZ	2:C:925:VAL:HG21	2.31	0.65
2:C:843:LEU:CA	2:C:942:HIS:NE2	2.58	0.65
1:A:856:THR:C	1:A:876:MET:SD	2.75	0.65
2:B:571:ARG:CD	2:B:571:ARG:H	2.06	0.65
2:B:1068:ALA:O	2:B:1070:ARG:N	2.29	0.65
1:A:67:ARG:HH11	1:A:67:ARG:HG3	1.62	0.65
2:C:137:ILE:H	2:C:137:ILE:HD12	1.60	0.65
1:A:115:TRP:O	1:A:118:GLY:N	2.30	0.65
1:A:189:MET:O	1:A:192:VAL:HG12	1.96	0.65
1:A:630:SER:CA	1:A:633:ILE:HG22	2.25	0.65
1:A:318:ARG:CG	1:A:318:ARG:HH11	2.09	0.65
2:B:842:ASP:O	2:B:844:ASP:N	2.30	0.65
2:C:603:ILE:O	2:C:606:LEU:HG	1.96	0.65
1:A:715:TYR:O	1:A:715:TYR:CD2	2.49	0.65
1:A:309:ASN:HB3	1:A:312:LEU:HD22	1.77	0.65
2:B:250:GLY:O	2:B:254:VAL:HG23	1.97	0.65
1:A:416:MET:SD	1:A:466:LEU:HD22	2.37	0.65
2:B:855:TYR:OH	2:B:860:ARG:CG	2.45	0.65
2:C:219:ILE:HD12	2:C:219:ILE:H	1.60	0.65
1:A:204:LEU:HB3	1:A:227:MET:CE	2.25	0.65
1:A:300:LEU:HD23	1:A:300:LEU:C	2.16	0.65
2:C:728:LYS:HG3	2:C:729:PRO:HD2	1.78	0.65
2:C:493:HIS:CG	2:C:758:ILE:HD11	2.32	0.65
2:C:433:TYR:HE1	2:C:794:PRO:HG3	1.61	0.65
2:C:174:PHE:HD2	2:C:174:PHE:N	1.95	0.65
3:E:149:MET:N	3:E:149:MET:SD	2.67	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:77:PHE:CD1	3:E:231:MET:HE2	2.32	0.65
2:C:897:TYR:CD2	2:C:919:MET:HE1	2.30	0.65
2:B:897:TYR:OH	2:B:928:ARG:HB2	1.97	0.65
2:C:1287:GLY:O	2:C:1288:ILE:CD1	2.45	0.65
2:C:452:ASN:OD1	2:C:453:LEU:N	2.30	0.65
1:A:849:ILE:HG12	1:A:918:ILE:HD13	1.77	0.65
1:A:964:GLU:HG3	1:A:1049:TYR:HD1	1.62	0.65
3:D:176:ARG:NH2	3:D:254:TYR:OH	2.30	0.65
1:A:205:VAL:CG2	1:A:263:LEU:CB	2.75	0.65
2:C:701:HIS:O	2:C:701:HIS:ND1	2.30	0.65
1:A:27:LYS:HA	1:A:27:LYS:NZ	2.11	0.65
2:B:836:GLN:OE1	2:B:836:GLN:N	2.30	0.65
2:B:732:TYR:O	2:B:744:ILE:HG12	1.97	0.65
2:B:882:GLN:OE1	2:B:882:GLN:N	2.30	0.65
2:C:812:LYS:O	2:C:815:LEU:CB	2.45	0.65
1:A:195:ILE:HG23	1:A:196:LEU:N	2.10	0.65
2:C:872:ILE:CG2	2:C:895:VAL:HG13	2.27	0.65
2:C:910:LEU:HD22	2:C:915:VAL:HB	1.78	0.65
1:A:561:LEU:CB	1:A:614:ILE:O	2.44	0.65
2:C:1037:ILE:HG22	2:C:1039:ALA:N	2.06	0.65
3:E:198:ILE:HG22	3:E:199:LEU:N	2.11	0.65
2:C:720:PHE:CD1	2:C:721:SER:N	2.65	0.65
2:B:953:ASP:HB3	3:D:241:ASN:HB3	1.79	0.65
2:C:243:GLN:HG2	2:C:244:SER:N	2.12	0.65
2:C:231:LEU:HD23	2:C:232:LEU:N	2.11	0.65
2:C:1156:ILE:HA	2:C:1159:VAL:HG23	1.79	0.65
2:C:547:GLU:HG2	2:C:599:THR:OG1	1.97	0.65
1:A:129:PRO:HB2	2:B:1332:ASN:ND2	2.10	0.65
1:A:796:PHE:C	1:A:797:ARG:O	2.34	0.65
2:B:190:VAL:CG1	2:B:194:VAL:HG21	2.26	0.65
2:C:720:PHE:HD1	2:C:721:SER:N	1.94	0.65
1:A:61:ASN:O	1:A:62:PHE:HB2	1.96	0.65
3:D:142:THR:OG1	3:D:145:TYR:HB2	1.96	0.65
3:D:56:LEU:HD12	3:D:56:LEU:H	1.62	0.65
2:B:666:ARG:O	2:B:669:GLN:HB3	1.97	0.65
3:E:86:ALA:O	3:E:88:GLY:N	2.27	0.65
2:C:342:THR:C	2:C:1306:THR:CG2	2.63	0.64
2:C:495:LEU:C	2:C:497:LYS:N	2.45	0.64
2:C:819:PHE:O	2:C:823:ILE:HD12	1.97	0.64
1:A:259:ARG:HH11	1:A:259:ARG:HG2	1.61	0.64
2:B:347:ALA:HA	2:B:1301:VAL:HA	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:345:GLY:HA2	2:B:1303:SER:HA	1.79	0.64
2:B:423:GLU:O	2:B:427:VAL:HG23	1.96	0.64
1:A:760:SER:O	1:A:763:LYS:HG3	1.97	0.64
2:B:1077:MET:HE3	2:B:1165:VAL:CG1	2.27	0.64
1:A:462:ILE:HD12	1:A:465:LEU:HD23	1.77	0.64
2:B:373:ASP:O	2:B:376:ILE:HG13	1.98	0.64
2:B:975:SER:HG	2:B:978:GLN:HG3	1.62	0.64
1:A:203:THR:CB	1:A:204:LEU:HD12	2.27	0.64
2:C:1278:TYR:HB2	2:C:1286:VAL:CG1	2.27	0.64
1:A:257:ILE:CD1	1:A:328:MET:HB3	2.26	0.64
1:A:37:ASP:O	1:A:38:TYR:HB3	1.97	0.64
1:A:88:LEU:HD13	1:A:89:ILE:N	2.11	0.64
1:A:393:LEU:HB3	1:A:748:GLY:HA3	1.78	0.64
2:C:310:LEU:C	2:C:312:ARG:H	2.01	0.64
1:A:752:VAL:C	1:A:754:SER:H	1.97	0.64
2:B:376:ILE:HA	2:B:379:LEU:HD11	1.79	0.64
2:B:547:GLU:HA	2:B:597:ALA:HB2	1.78	0.64
2:C:1148:SER:O	2:C:1150:LEU:N	2.30	0.64
2:C:835:TYR:O	2:C:846:GLY:HA3	1.96	0.64
2:C:1276:LEU:HD12	2:C:1300:ASN:HB3	1.79	0.64
1:A:88:LEU:C	1:A:88:LEU:CD1	2.64	0.64
2:B:526:ASN:ND2	2:B:526:ASN:O	2.30	0.64
3:E:265:ARG:HG3	3:E:265:ARG:NH1	2.12	0.64
2:C:360:ILE:N	2:C:360:ILE:CD1	2.61	0.64
2:B:1149:LYS:HE2	2:C:141:LEU:HD13	1.78	0.64
1:A:967:ILE:CG2	1:A:971:LEU:HD12	2.26	0.64
1:A:986:ARG:HB3	1:A:994:PRO:HB2	1.78	0.64
1:A:236:LEU:HD13	1:A:236:LEU:O	1.96	0.64
1:A:10:ASP:HB3	1:A:13:VAL:CG2	2.27	0.64
1:A:196:LEU:HA	1:A:199:MET:HB2	1.79	0.64
2:C:1067:ILE:O	2:C:1067:ILE:HG22	1.96	0.64
3:D:271:TYR:HD2	3:D:275:ARG:HB3	1.63	0.64
2:B:557:THR:CA	2:B:587:ALA:HB2	2.28	0.64
2:B:1103:HIS:CE1	2:B:1146:GLY:HA3	2.32	0.64
2:B:678:SER:O	2:B:682:GLN:HB2	1.98	0.64
1:A:809:GLN:O	1:A:812:VAL:HG23	1.98	0.64
1:A:1043:LEU:C	1:A:1043:LEU:CD2	2.65	0.64
1:A:196:LEU:CD1	1:A:196:LEU:C	2.66	0.64
1:A:466:LEU:HD11	1:A:469:LEU:HD22	1.77	0.64
2:B:859:ILE:O	2:B:863:LEU:CD1	2.45	0.64
1:A:569:VAL:HG13	1:A:570:ASN:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:995:THR:HG22	2:B:997:TYR:N	2.09	0.64
2:B:839:ALA:HB3	2:B:935:GLN:NE2	2.12	0.64
2:B:929:PHE:O	2:B:930:ALA:C	2.35	0.64
3:D:210:GLY:O	3:D:211:GLU:C	2.36	0.64
1:A:134:VAL:HG23	1:A:135:VAL:N	2.12	0.64
3:D:261:ARG:HH11	3:D:261:ARG:HG2	1.62	0.64
3:D:77:PHE:O	3:D:78:GLY:O	2.14	0.64
3:D:187:ILE:O	3:D:190:SER:HB3	1.97	0.64
3:D:137:LEU:HD11	3:D:278:PHE:CE1	2.32	0.64
2:C:550:ILE:HG22	2:C:594:LEU:HD21	1.80	0.64
2:C:617:ASP:HA	2:C:620:ILE:HG22	1.80	0.64
2:C:455:GLN:N	2:C:455:GLN:HE21	1.96	0.64
3:E:191:ARG:CB	3:E:191:ARG:HH11	2.06	0.64
2:C:855:TYR:HA	2:C:859:ILE:HG22	1.79	0.64
1:A:255:ARG:CG	1:A:255:ARG:HH11	2.03	0.64
3:D:259:SER:O	3:D:260:MET:HB2	1.98	0.64
3:D:213:LEU:CD1	3:D:214:ARG:N	2.60	0.64
1:A:1010:ILE:CG2	1:A:1012:ILE:HD11	2.28	0.64
2:B:187:ASP:O	2:B:191:GLY:HA2	1.98	0.64
1:A:790:ALA:HA	1:A:870:SER:HB3	1.79	0.64
2:C:1119:TYR:CE2	2:C:1121:HIS:HB2	2.33	0.64
2:C:533:GLN:NE2	2:C:537:LEU:CD1	2.37	0.64
2:C:588:LEU:HD13	2:C:604:MET:HE1	1.79	0.64
2:C:156:GLN:N	2:C:156:GLN:OE1	2.31	0.64
2:C:872:ILE:CG1	2:C:873:TYR:H	2.10	0.64
1:A:889:THR:O	1:A:892:GLN:HB3	1.96	0.64
2:C:652:PHE:CD2	2:C:691:PHE:CD2	2.85	0.64
2:B:240:GLY:C	2:B:242:GLU:H	2.01	0.64
2:B:1290:LYS:HZ2	2:B:1300:ASN:HB3	1.58	0.64
2:C:378:ALA:HB2	2:C:622:ALA:HB1	1.80	0.64
1:A:420:VAL:HG22	1:A:679:LYS:HB3	1.78	0.64
3:D:143:PRO:HA	3:D:146:ARG:HH12	1.63	0.64
1:A:912:ASP:O	1:A:914:GLU:N	2.30	0.64
2:B:1186:GLN:O	2:B:1187:HIS:HB2	1.98	0.64
2:C:253:MET:O	2:C:256:PHE:HB3	1.98	0.64
1:A:986:ARG:HD3	1:A:994:PRO:HB2	1.80	0.64
2:B:1153:ASP:O	2:B:1157:ALA:CB	2.45	0.64
3:E:79:ILE:HD11	3:E:187:ILE:CD1	2.28	0.64
3:E:278:PHE:C	3:E:278:PHE:CD1	2.69	0.64
1:A:192:VAL:CA	1:A:195:ILE:HG22	2.28	0.64
3:D:253:GLU:C	3:D:254:TYR:CD2	2.71	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:667:GLN:OE1	1:A:668:LEU:N	2.30	0.64
2:C:353:PHE:O	2:C:357:VAL:HG23	1.98	0.64
2:B:367:GLU:HG3	3:D:81:ALA:HA	1.80	0.64
2:C:1249:ASN:O	2:C:1250:GLU:HB2	1.97	0.64
2:C:1163:ASN:OD1	2:C:1163:ASN:N	2.30	0.64
2:C:461:ARG:CG	2:C:676:THR:HG21	2.27	0.64
1:A:897:ILE:HG22	1:A:898:GLU:N	2.13	0.64
2:C:1290:LYS:HB2	2:C:1290:LYS:NZ	2.12	0.64
3:D:84:VAL:HG21	3:D:275:ARG:HG3	1.79	0.64
2:B:176:LYS:HD2	2:B:176:LYS:N	2.13	0.64
2:C:237:VAL:HG12	2:C:238:THR:N	2.13	0.64
2:C:550:ILE:O	2:C:550:ILE:HG22	1.96	0.64
1:A:844:LEU:HD21	1:A:1017:ILE:HG22	1.80	0.64
1:A:179:TYR:N	1:A:179:TYR:CD2	2.64	0.63
1:A:409:MET:HG3	1:A:411:ILE:HG22	1.79	0.63
1:A:475:ARG:O	1:A:478:ILE:HG22	1.97	0.63
2:C:1037:ILE:CG2	2:C:1038:GLU:N	2.61	0.63
2:C:648:PHE:HD2	2:C:699:THR:CG2	2.06	0.63
2:B:716:PHE:CD2	2:B:716:PHE:N	2.61	0.63
1:A:419:TYR:O	1:A:420:VAL:CG1	2.46	0.63
2:C:333:ARG:HG2	2:C:333:ARG:NH1	2.12	0.63
1:A:424:PRO:HG3	1:A:706:TYR:OH	1.98	0.63
1:A:831:ARG:HG3	1:A:1033:ILE:HD11	1.79	0.63
2:C:856:LEU:HD21	2:C:860:ARG:HH12	1.63	0.63
2:B:975:SER:OG	2:B:978:GLN:HG3	1.97	0.63
1:A:70:PRO:O	1:A:71:LEU:CB	2.46	0.63
2:B:965:ARG:HB2	2:B:965:ARG:NH1	2.13	0.63
3:E:233:THR:CG2	3:E:252:LEU:HD21	2.28	0.63
2:C:1041:ARG:HH11	2:C:1041:ARG:HB2	1.63	0.63
1:A:912:ASP:HA	1:A:919:TYR:OH	1.97	0.63
1:A:1030:ASN:N	1:A:1030:ASN:OD1	2.30	0.63
2:C:190:VAL:HG22	2:C:300:LEU:O	1.97	0.63
1:A:461:ARG:C	1:A:463:ASP:H	2.01	0.63
2:B:352:HIS:HA	2:B:1300:ASN:OD1	1.98	0.63
1:A:796:PHE:O	1:A:797:ARG:C	2.37	0.63
2:B:1138:HIS:HA	2:B:1165:VAL:CG2	2.27	0.63
2:C:556:ALA:CB	2:C:572:ASN:HA	2.27	0.63
3:D:65:ASN:HA	3:D:111:ILE:O	1.98	0.63
1:A:806:HIS:C	1:A:809:GLN:HB2	2.17	0.63
2:B:515:ILE:HG12	2:B:607:PHE:CE1	2.34	0.63
2:C:1325:VAL:HA	2:C:1328:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:974:LEU:HB2	2:C:644:VAL:HG22	1.80	0.63
1:A:419:TYR:N	1:A:419:TYR:CD2	2.64	0.63
2:C:493:HIS:CB	2:C:758:ILE:CD1	2.76	0.63
2:C:493:HIS:HB3	2:C:758:ILE:CG1	2.29	0.63
2:B:217:THR:O	2:B:219:ILE:HG13	1.98	0.63
2:C:1042:TRP:CZ3	2:C:1044:ARG:HD3	2.34	0.63
1:A:373:ILE:HD12	1:A:816:LEU:HA	1.79	0.63
3:E:191:ARG:HB2	3:E:191:ARG:NH1	2.12	0.63
2:B:288:THR:HG22	2:B:289:THR:H	1.64	0.63
2:B:465:ALA:O	2:B:468:ALA:CB	2.41	0.63
2:C:967:LEU:C	2:C:967:LEU:CD2	2.66	0.63
3:E:162:GLY:HA2	3:E:167:ARG:CD	2.28	0.63
3:D:91:SER:C	3:D:93:LEU:H	1.99	0.63
2:C:1243:ARG:O	2:C:1244:ALA:HB3	1.98	0.63
2:C:217:THR:O	2:C:217:THR:HG22	1.99	0.63
2:C:410:ARG:O	2:C:413:MET:HB3	1.99	0.63
2:B:694:ILE:O	2:B:698:HIS:HB2	1.99	0.63
1:A:652:HIS:HB2	1:A:653:PRO:HA	1.81	0.63
3:E:158:LEU:CD2	3:E:158:LEU:H	2.07	0.63
1:A:331:ARG:HG3	1:A:331:ARG:HH11	1.63	0.63
2:C:1305:MET:CE	2:C:1309:ILE:HG12	2.28	0.63
2:B:210:ARG:NH1	2:B:210:ARG:HB2	2.13	0.63
1:A:992:TYR:O	1:A:993:VAL:HB	1.97	0.63
1:A:826:PHE:C	1:A:828:TYR:H	1.99	0.63
2:B:259:MET:CE	2:B:1055:LEU:HD23	2.29	0.63
2:C:1064:ASN:HD21	2:C:1294:ASP:HB3	1.63	0.63
2:B:633:THR:CG2	2:B:710:SER:OG	2.47	0.63
2:C:699:THR:O	2:C:703:SER:CB	2.46	0.63
3:D:136:LYS:O	3:D:138:GLY:N	2.31	0.63
2:C:732:TYR:CB	2:C:744:ILE:HD12	2.28	0.63
2:C:916:LEU:HD23	2:C:916:LEU:O	1.99	0.63
3:D:29:THR:HG22	3:D:222:ASP:HB3	1.77	0.63
1:A:658:ILE:HD11	1:A:677:LEU:HD21	1.81	0.63
2:B:884:ALA:O	2:B:888:GLN:HB3	1.99	0.63
2:C:1286:VAL:O	2:C:1287:GLY:C	2.37	0.63
2:C:405:HIS:CB	2:C:623:ASN:HD22	2.11	0.63
1:A:34:LEU:HA	1:A:38:TYR:CE1	2.34	0.63
2:C:427:VAL:O	2:C:431:THR:HG22	1.99	0.63
1:A:514:LEU:HD11	1:A:520:PRO:HD3	1.81	0.63
2:B:746:GLU:HG2	2:B:747:ARG:H	1.62	0.63
3:E:134:TYR:OH	3:E:286:THR:HG22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:512:LEU:HD11	2:B:684:LEU:HD22	1.79	0.63
2:B:1074:VAL:CG1	2:B:1075:ARG:N	2.62	0.63
1:A:312:LEU:C	1:A:312:LEU:HD23	2.19	0.63
3:E:269:ILE:CG2	3:E:270:THR:N	2.62	0.63
2:B:948:ILE:HD11	2:B:952:PHE:HE2	1.58	0.63
2:B:154:PHE:CD2	2:B:365:LEU:HD23	2.34	0.63
1:A:247:LYS:NZ	1:A:247:LYS:HB3	2.14	0.63
1:A:495:LEU:C	1:A:495:LEU:HD12	2.18	0.63
1:A:678:LEU:CD2	1:A:680:THR:HB	2.29	0.63
2:B:1104:ARG:HG2	2:B:1104:ARG:HH11	1.62	0.63
2:C:826:GLY:HA2	2:C:964:VAL:CG1	2.29	0.63
2:C:931:ASN:HB3	2:C:936:MET:CG	2.28	0.63
2:C:828:ASP:O	2:C:829:SER:HB3	1.99	0.62
2:B:693:ASN:OD1	2:B:694:ILE:CD1	2.47	0.62
3:D:178:LYS:HB3	3:D:251:VAL:HG22	1.81	0.62
2:C:439:VAL:HB	2:C:702:LEU:CD1	2.29	0.62
2:C:733:VAL:HG13	2:C:1022:ILE:HG23	1.81	0.62
1:A:664:ARG:HA	1:A:667:GLN:NE2	2.13	0.62
2:C:1037:ILE:CG2	2:C:1038:GLU:H	2.11	0.62
2:B:1278:TYR:HB2	2:B:1287:GLY:O	1.99	0.62
2:C:1287:GLY:O	2:C:1288:ILE:CB	2.46	0.62
3:D:90:PHE:O	3:D:93:LEU:HB3	1.98	0.62
2:C:415:ALA:CB	2:C:810:LEU:HD21	2.29	0.62
2:B:381:ALA:CB	2:B:618:LEU:HB3	2.29	0.62
2:B:1155:ILE:HG21	2:B:1166:VAL:HG11	1.81	0.62
2:B:1190:ALA:HA	2:B:1193:ILE:CG2	2.21	0.62
1:A:189:MET:O	1:A:189:MET:HE3	1.98	0.62
2:B:354:ALA:O	2:B:357:VAL:HG12	1.98	0.62
2:B:407:HIS:O	2:B:411:CYS:N	2.31	0.62
1:A:1001:ALA:O	1:A:1005:LEU:HG	1.99	0.62
2:B:759:ASP:O	2:B:761:SER:N	2.32	0.62
2:B:537:LEU:HD22	2:B:548:TYR:CE2	2.34	0.62
3:D:65:ASN:N	3:D:65:ASN:OD1	2.31	0.62
2:B:1272:ARG:HD3	3:D:70:ASP:HA	1.81	0.62
2:C:446:LYS:HA	2:C:769:GLN:NE2	2.14	0.62
2:B:704:VAL:HA	2:B:1330:ILE:HD11	1.82	0.62
2:C:537:LEU:HB3	2:C:548:TYR:CE2	2.35	0.62
1:A:197:ALA:O	1:A:200:ARG:HD3	1.99	0.62
2:B:473:ALA:HB2	2:B:761:SER:O	1.99	0.62
1:A:604:ILE:CD1	1:A:604:ILE:H	2.05	0.62
3:D:113:ASN:N	3:D:113:ASN:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:3:GLN:HE21	3:D:3:GLN:CA	2.13	0.62
2:C:937:ASN:O	2:C:939:ASN:N	2.30	0.62
3:E:191:ARG:HA	3:E:194:VAL:HG23	1.82	0.62
1:A:192:VAL:HG13	1:A:193:ASN:H	1.64	0.62
3:D:242:ARG:CZ	3:D:251:VAL:HG21	2.29	0.62
1:A:22:ILE:HG23	1:A:22:ILE:O	1.99	0.62
2:B:541:SER:HA	2:B:548:TYR:CD1	2.33	0.62
2:B:319:GLN:HA	2:B:319:GLN:OE1	1.99	0.62
2:B:601:ILE:O	2:B:604:MET:HB3	1.99	0.62
2:B:326:GLY:O	2:B:327:LEU:HB2	1.98	0.62
2:C:1131:PRO:O	2:C:1134:ARG:HG2	1.99	0.62
1:A:882:ASP:CB	1:A:885:THR:HG23	2.23	0.62
1:A:470:LEU:CD2	1:A:470:LEU:C	2.67	0.62
2:C:1245:ILE:O	2:C:1246:VAL:HG23	1.99	0.62
2:B:388:GLN:HE21	2:B:388:GLN:CA	2.10	0.62
1:A:791:ARG:HG3	1:A:791:ARG:HH11	1.64	0.62
2:B:1227:MET:O	2:C:120:VAL:HG13	1.99	0.62
2:B:897:TYR:CE1	2:B:902:ILE:HD11	2.34	0.62
2:B:407:HIS:HE1	2:B:411:CYS:SG	2.22	0.62
1:A:704:PRO:O	1:A:705:PHE:O	2.17	0.62
2:C:648:PHE:CD2	2:C:699:THR:HG21	2.35	0.62
1:A:981:ARG:HD2	1:A:988:LYS:HZ1	1.63	0.62
1:A:578:ASN:ND2	1:A:579:VAL:N	2.47	0.62
1:A:428:ILE:C	1:A:430:PRO:HD3	2.20	0.62
2:B:235:ILE:CG2	2:B:978:GLN:HE21	2.12	0.62
2:C:440:ILE:HG23	2:C:440:ILE:O	1.99	0.62
2:C:646:ASN:ND2	2:C:695:ALA:CB	2.63	0.62
1:A:613:ILE:H	1:A:646:ALA:HB2	1.64	0.62
2:C:898:GLN:CG	2:C:898:GLN:O	2.38	0.62
2:B:613:LEU:HD13	2:B:721:SER:O	1.99	0.62
2:B:558:TYR:H	2:B:558:TYR:HD1	1.48	0.62
1:A:710:ALA:CB	1:A:1045:VAL:HA	2.29	0.62
1:A:788:ASP:O	1:A:790:ALA:N	2.32	0.62
1:A:844:LEU:CD2	1:A:1017:ILE:HG22	2.29	0.62
3:E:136:LYS:O	3:E:139:ASN:HB2	1.99	0.62
2:C:286:LEU:HD23	2:C:287:ARG:CA	2.28	0.62
2:C:676:THR:O	2:C:680:THR:HG23	2.00	0.62
2:B:144:ASN:H	2:B:144:ASN:HD22	1.47	0.62
2:B:1137:VAL:HG23	2:B:1164:TRP:NE1	2.14	0.62
2:B:880:PRO:HG3	2:B:909:TYR:HB2	1.80	0.62
3:D:65:ASN:HB3	3:D:111:ILE:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:89:TYR:O	3:D:92:ARG:N	2.30	0.62
3:E:53:GLU:HG3	3:E:281:LYS:NZ	2.14	0.62
2:C:243:GLN:NE2	2:C:245:ALA:HB3	2.15	0.62
2:C:1031:TYR:CE2	2:C:1041:ARG:HB2	2.35	0.62
2:B:581:LEU:O	2:B:582:SER:HB3	2.00	0.62
1:A:113:TYR:C	1:A:115:TRP:H	2.03	0.62
1:A:115:TRP:O	1:A:116:MET:C	2.38	0.62
2:C:228:VAL:HG12	2:C:229:GLN:H	1.65	0.62
1:A:263:LEU:O	1:A:264:SER:CB	2.48	0.62
1:A:89:ILE:O	1:A:90:ASP:C	2.37	0.62
1:A:577:ARG:O	1:A:578:ASN:HB3	2.00	0.62
1:A:719:VAL:O	1:A:720:ALA:HB3	2.00	0.62
1:A:986:ARG:HG2	1:A:996:ASP:N	2.15	0.62
2:B:382:HIS:O	2:B:383:SER:CB	2.46	0.62
3:E:79:ILE:HD13	3:E:191:ARG:HD3	1.82	0.62
1:A:201:LYS:O	1:A:202:SER:O	2.17	0.62
2:B:1110:LEU:C	2:B:1110:LEU:HD23	2.20	0.62
2:B:1116:ARG:HH11	2:B:1116:ARG:CA	2.12	0.62
2:B:1080:THR:HA	2:B:1227:MET:CB	2.29	0.62
2:C:1078:TYR:OH	2:C:1227:MET:HG3	1.99	0.62
3:E:6:THR:HG22	3:E:9:TYR:CE1	2.34	0.62
1:A:868:ASP:HB2	1:A:878:TYR:OH	1.99	0.62
2:C:1248:HIS:HB3	2:C:1252:ASP:O	2.00	0.62
2:C:741:TYR:CD2	2:C:741:TYR:O	2.53	0.62
1:A:986:ARG:CB	1:A:994:PRO:HB2	2.29	0.61
1:A:118:GLY:O	1:A:119:VAL:C	2.38	0.61
1:A:184:TRP:HB3	1:A:195:ILE:HD12	1.81	0.61
2:B:874:ILE:HG22	2:B:896:LEU:O	2.00	0.61
2:B:1236:ILE:CG2	2:B:1237:SER:H	1.89	0.61
2:B:528:ILE:CD1	2:B:758:ILE:HG21	2.30	0.61
3:E:162:GLY:HA2	3:E:167:ARG:HD3	1.81	0.61
1:A:913:LEU:CD1	1:A:953:ARG:HA	2.30	0.61
2:B:585:PHE:CE1	2:B:728:LYS:HG2	2.35	0.61
2:C:174:PHE:CD2	2:C:174:PHE:N	2.68	0.61
2:C:1245:ILE:O	2:C:1246:VAL:CG2	2.48	0.61
1:A:957:VAL:HG12	1:A:1056:VAL:HG13	1.82	0.61
2:B:1106:PHE:CD1	2:B:1151:VAL:HG13	2.35	0.61
1:A:393:LEU:H	1:A:393:LEU:HD12	1.65	0.61
1:A:636:VAL:O	1:A:640:ALA:HB2	2.00	0.61
2:C:193:THR:HG21	2:C:300:LEU:CD2	2.27	0.61
2:B:306:GLN:O	2:B:307:VAL:C	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:892:GLN:HE21	1:A:898:GLU:HA	1.64	0.61
2:B:1111:ALA:O	2:B:1112:ASN:HB3	2.00	0.61
1:A:881:ILE:HG12	1:A:900:GLN:HB2	1.82	0.61
2:B:1138:HIS:HA	2:B:1165:VAL:HG23	1.80	0.61
2:C:523:THR:HG21	2:C:634:TYR:HB3	1.83	0.61
1:A:491:ASP:O	1:A:494:THR:CG2	2.47	0.61
2:C:307:VAL:HG21	2:C:1245:ILE:HG22	1.81	0.61
2:B:685:ARG:NH1	2:B:685:ARG:HG3	2.12	0.61
1:A:713:ASN:HA	1:A:716:MET:HB3	1.82	0.61
1:A:391:ILE:N	1:A:391:ILE:HD12	2.15	0.61
1:A:779:ASN:C	1:A:780:LEU:HD12	2.21	0.61
1:A:987:LEU:O	1:A:989:VAL:N	2.33	0.61
1:A:435:ILE:HA	1:A:438:LYS:NZ	2.15	0.61
1:A:405:MET:O	1:A:406:VAL:HG13	2.00	0.61
2:C:530:GLY:CA	2:C:575:TRP:CE3	2.81	0.61
1:A:128:THR:O	1:A:131:GLY:N	2.33	0.61
1:A:261:ILE:HD11	1:A:326:LEU:HD13	1.83	0.61
2:C:849:MET:CB	2:C:917:VAL:O	2.48	0.61
2:C:1278:TYR:HB2	2:C:1286:VAL:HG12	1.81	0.61
2:C:622:ALA:O	2:C:623:ASN:HB2	2.00	0.61
1:A:926:MET:CE	1:A:939:GLN:NE2	2.63	0.61
2:B:338:ARG:O	2:B:340:VAL:N	2.33	0.61
1:A:949:ALA:O	1:A:953:ARG:HG2	1.99	0.61
2:C:738:GLU:HB2	2:C:1015:GLN:HG3	1.79	0.61
2:B:1124:THR:O	2:B:1126:MET:HG3	2.00	0.61
3:E:149:MET:HB3	3:E:280:ALA:HB1	1.82	0.61
2:B:522:PRO:HG2	2:B:523:THR:N	2.15	0.61
2:C:1031:TYR:CZ	2:C:1041:ARG:HB2	2.35	0.61
2:C:1053:ARG:O	2:C:1057:VAL:HG23	2.00	0.61
2:C:1100:GLN:HA	2:C:1100:GLN:OE1	2.00	0.61
2:C:414:LEU:C	2:C:414:LEU:HD12	2.20	0.61
2:B:697:ALA:CB	2:B:774:LEU:HB3	2.29	0.61
1:A:311:GLN:HG3	1:A:312:LEU:H	1.65	0.61
2:B:884:ALA:O	2:B:888:GLN:CB	2.48	0.61
2:B:910:LEU:HD13	2:B:917:VAL:HG21	1.81	0.61
2:B:850:THR:OG1	2:B:916:LEU:HD11	2.00	0.61
3:D:49:ILE:N	3:D:49:ILE:HD13	2.16	0.61
2:C:373:ASP:HB2	2:C:394:GLN:HA	1.81	0.61
2:C:752:VAL:HG23	2:C:1001:THR:HB	1.82	0.61
1:A:979:THR:O	1:A:980:ILE:HD13	2.00	0.61
1:A:913:LEU:CB	1:A:953:ARG:HD2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:738:GLU:HB2	2:B:1015:GLN:CB	2.30	0.61
1:A:858:VAL:CG2	1:A:872:VAL:HG23	2.30	0.61
3:E:139:ASN:O	3:E:141:SER:N	2.34	0.61
2:B:640:GLN:O	2:B:642:GLY:N	2.30	0.61
1:A:315:LEU:HD22	1:A:315:LEU:O	1.99	0.61
1:A:316:TYR:C	1:A:316:TYR:CD2	2.72	0.61
1:A:372:ARG:HB2	1:A:772:TRP:CD1	2.34	0.61
2:C:439:VAL:HG23	2:C:440:ILE:HG22	1.82	0.61
1:A:74:LEU:N	1:A:75:PRO:CD	2.63	0.61
2:C:218:GLY:O	2:C:219:ILE:C	2.39	0.61
3:D:20:ARG:CA	3:D:25:ASN:HA	2.24	0.61
2:C:169:LYS:HZ2	2:C:169:LYS:HB2	1.64	0.61
2:B:145:THR:CG2	2:B:146:GLU:N	2.61	0.61
2:C:105:MET:SD	2:C:106:GLN:N	2.74	0.61
3:E:74:GLN:O	3:E:78:GLY:HA3	2.01	0.61
1:A:466:LEU:O	1:A:466:LEU:CG	2.47	0.61
2:C:823:ILE:H	2:C:823:ILE:HD12	1.64	0.61
2:B:897:TYR:HD2	2:B:919:MET:HG3	1.65	0.61
2:B:633:THR:CB	2:B:710:SER:HG	2.10	0.61
3:D:62:VAL:HG13	3:D:92:ARG:HE	1.66	0.61
2:C:715:ASN:H	2:C:715:ASN:HD22	1.48	0.61
1:A:321:ASN:O	1:A:323:SER:N	2.34	0.61
1:A:600:VAL:HB	1:A:601:PRO:CD	2.31	0.61
1:A:940:MET:O	1:A:940:MET:SD	2.59	0.61
2:C:865:ILE:HD13	2:C:1042:TRP:HB2	1.82	0.61
2:B:383:SER:CB	2:B:796:PRO:HB3	2.24	0.61
1:A:1020:SER:CB	1:A:1022:PRO:HD2	2.30	0.61
3:E:79:ILE:O	3:E:80:SER:HB3	1.99	0.61
2:B:820:ILE:O	2:B:823:ILE:HG22	2.01	0.61
2:B:855:TYR:HD1	2:B:859:ILE:HG23	1.63	0.61
2:B:361:ASN:OD1	2:B:361:ASN:N	2.33	0.61
3:D:158:LEU:O	3:D:161:ALA:O	2.18	0.61
1:A:861:ILE:O	1:A:924:VAL:HG21	2.00	0.61
1:A:88:LEU:CD1	1:A:89:ILE:N	2.64	0.61
1:A:926:MET:HE2	1:A:939:GLN:NE2	2.14	0.61
1:A:952:THR:O	1:A:953:ARG:HD3	2.01	0.61
3:E:233:THR:HG22	3:E:252:LEU:HD21	1.80	0.61
2:B:1149:LYS:HE2	2:C:141:LEU:HB3	1.82	0.61
2:C:1199:GLY:O	2:C:1200:LYS:C	2.39	0.61
3:E:36:SER:OG	3:E:178:LYS:HG3	2.00	0.61
2:C:851:THR:HG23	2:C:854:GLN:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:414:LEU:C	2:B:414:LEU:HD12	2.20	0.61
2:B:1204:LEU:HD12	2:B:1204:LEU:C	2.20	0.61
2:C:179:LYS:CB	2:C:179:LYS:NZ	2.64	0.61
2:C:348:LEU:HD12	2:C:348:LEU:H	1.64	0.61
3:D:269:ILE:HG13	3:D:269:ILE:O	2.00	0.61
2:C:629:ARG:HG3	2:C:629:ARG:O	2.00	0.61
1:A:367:ASN:ND2	1:A:369:GLY:H	1.97	0.61
1:A:192:VAL:O	1:A:195:ILE:N	2.34	0.61
2:C:398:ARG:HH11	2:C:398:ARG:CG	2.09	0.61
2:B:839:ALA:O	2:B:840:ASP:HB2	2.01	0.61
3:E:193:VAL:O	3:E:193:VAL:CG1	2.48	0.61
2:B:439:VAL:HG11	2:B:705:VAL:HG21	1.83	0.61
2:B:453:LEU:C	2:B:455:GLN:H	2.04	0.61
2:C:661:ASN:C	2:C:661:ASN:OD1	2.39	0.61
2:C:309:TRP:CZ2	2:C:1244:ALA:O	2.52	0.61
1:A:628:MET:O	1:A:628:MET:SD	2.59	0.61
1:A:114:ASN:HD21	1:A:117:LEU:CB	2.13	0.61
2:B:833:ARG:HB2	2:B:849:MET:HB3	1.83	0.61
1:A:856:THR:HA	1:A:876:MET:SD	2.40	0.61
1:A:494:THR:HG23	1:A:495:LEU:N	2.16	0.61
2:C:1073:GLY:O	2:C:1233:LEU:CB	2.48	0.61
2:B:1121:HIS:CD2	2:B:1123:PRO:HD2	2.36	0.61
2:B:704:VAL:HA	2:B:707:ALA:HB2	1.83	0.60
2:C:905:PRO:O	2:C:907:SER:N	2.32	0.60
2:B:287:ARG:NH2	2:B:330:THR:HB	2.16	0.60
2:B:426:ILE:HG12	2:B:714:LEU:HD13	1.83	0.60
3:E:189:LEU:HD21	3:E:226:MET:HE3	1.83	0.60
1:A:612:PHE:CA	1:A:645:ARG:O	2.48	0.60
1:A:63:SER:HB3	1:A:66:ASP:H	1.66	0.60
3:D:146:ARG:HH11	3:D:146:ARG:HB2	1.65	0.60
2:B:628:SER:O	2:B:630:ASN:N	2.34	0.60
2:C:985:ARG:NH2	2:C:989:ILE:HD11	2.16	0.60
1:A:401:ILE:HB	1:A:772:TRP:CH2	2.35	0.60
1:A:750:VAL:HG12	1:A:783:ILE:HD13	1.81	0.60
2:C:460:ALA:HA	2:C:463:VAL:CB	2.31	0.60
2:C:454:GLU:HA	2:C:463:VAL:HG11	1.82	0.60
1:A:47:ARG:HE	1:A:79:PRO:HB3	1.65	0.60
2:B:273:PRO:HB2	2:B:278:LEU:HD11	1.83	0.60
3:D:68:ILE:HG13	3:D:111:ILE:HD11	1.82	0.60
2:C:657:ALA:O	2:C:661:ASN:HB3	2.01	0.60
2:C:97:GLU:O	2:C:98:ASN:ND2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:400:GLU:HG2	2:C:401:LEU:N	2.16	0.60
2:C:949:ALA:HB2	2:C:958:ILE:HG21	1.82	0.60
2:B:197:PHE:CD2	2:B:197:PHE:N	2.66	0.60
1:A:116:MET:HG2	1:A:213:TRP:CZ2	2.36	0.60
2:B:253:MET:HE1	2:B:989:ILE:HD12	1.84	0.60
2:B:1173:TYR:O	2:B:1173:TYR:CG	2.53	0.60
1:A:913:LEU:HD13	1:A:953:ARG:HA	1.83	0.60
2:C:289:THR:HG21	2:C:329:LEU:HD23	1.83	0.60
1:A:578:ASN:ND2	1:A:579:VAL:HG23	2.15	0.60
1:A:731:HIS:HE1	1:A:742:SER:O	1.84	0.60
2:C:1084:PRO:HG2	2:C:1085:ASP:H	1.66	0.60
1:A:166:ILE:CG2	1:A:166:ILE:O	2.49	0.60
2:C:311:ASN:C	2:C:312:ARG:HD2	2.22	0.60
2:B:409:ILE:CG2	2:B:625:PRO:HB2	2.32	0.60
2:C:336:TYR:HD1	3:E:191:ARG:NH2	2.00	0.60
1:A:333:GLN:HG3	1:A:354:ILE:HG12	1.83	0.60
2:C:384:MET:HG2	2:C:793:TYR:CE1	2.36	0.60
2:B:267:VAL:CG2	2:B:1306:THR:HA	2.31	0.60
2:C:117:ARG:HH11	2:C:117:ARG:HG2	1.67	0.60
1:A:536:TYR:CD2	1:A:572:LEU:HD21	2.36	0.60
3:E:149:MET:HB3	3:E:280:ALA:HB2	1.84	0.60
3:E:235:VAL:HG12	3:E:276:HIS:HE1	1.66	0.60
3:E:269:ILE:CG2	3:E:270:THR:H	2.13	0.60
2:C:225:ILE:HG22	2:C:227:LEU:HG	1.84	0.60
1:A:386:ASP:O	1:A:387:THR:HG23	2.01	0.60
2:B:796:PRO:O	2:B:796:PRO:HG2	1.99	0.60
2:B:1139:MET:HE1	2:B:1155:ILE:HD11	1.84	0.60
3:D:250:ARG:HH12	3:D:267:ALA:HB1	1.66	0.60
1:A:40:TYR:C	1:A:40:TYR:CD2	2.75	0.60
2:C:219:ILE:HD12	2:C:219:ILE:N	2.16	0.60
1:A:22:ILE:HA	1:A:25:ILE:HD13	1.82	0.60
1:A:923:ALA:O	1:A:925:ILE:N	2.34	0.60
2:C:135:LYS:CB	2:C:135:LYS:NZ	2.63	0.60
2:C:1250:GLU:O	2:C:1251:VAL:HG13	2.01	0.60
2:B:1109:SER:HB3	2:B:1118:THR:HG21	1.84	0.60
3:E:61:ASN:O	3:E:62:VAL:HG12	2.02	0.60
2:B:1241:SER:O	2:B:1258:VAL:CG1	2.49	0.60
2:C:264:LEU:HD11	2:C:365:LEU:HD23	1.82	0.60
2:C:389:PHE:HZ	2:C:796:PRO:HG3	1.67	0.60
2:C:209:ASN:HD21	2:C:211:ASP:HB2	1.62	0.60
2:B:752:VAL:O	2:B:753:ASP:C	2.40	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:281:VAL:O	2:B:285:VAL:HG23	2.01	0.60
2:C:1116:ARG:NH1	2:C:1116:ARG:HG2	2.16	0.60
2:B:309:TRP:CZ3	2:B:1259:ALA:HB2	2.36	0.60
2:B:148:GLN:CA	2:B:148:GLN:HE21	2.10	0.60
2:B:163:TYR:CE2	2:B:354:ALA:HA	2.37	0.60
2:C:1064:ASN:ND2	2:C:1294:ASP:HB3	2.17	0.60
2:C:523:THR:CG2	2:C:634:TYR:HB3	2.32	0.60
1:A:230:HIS:CD2	1:A:234:LYS:HZ1	2.20	0.60
3:D:67:TYR:CD1	3:D:110:VAL:HG12	2.37	0.60
2:C:298:PRO:HB3	2:C:1260:PRO:HG3	1.83	0.60
1:A:987:LEU:O	1:A:989:VAL:HG23	2.01	0.60
2:B:1076:ILE:HD12	2:B:1230:ILE:CG2	2.09	0.60
1:A:197:ALA:HB1	3:D:150:ILE:CD1	2.32	0.60
1:A:83:ILE:CG2	1:A:84:PRO:HD2	2.30	0.60
2:C:1278:TYR:C	2:C:1286:VAL:HG11	2.22	0.60
2:C:319:GLN:HA	2:C:319:GLN:NE2	2.12	0.60
3:D:62:VAL:HG13	3:D:62:VAL:O	2.01	0.60
2:B:141:LEU:N	2:B:141:LEU:HD22	2.16	0.60
2:B:1024:PRO:O	2:B:1025:ASP:HB2	2.01	0.60
2:B:1173:TYR:HD2	2:B:1204:LEU:HG	1.66	0.60
3:D:19:ILE:HD11	3:D:31:PHE:CB	2.32	0.60
1:A:492:HIS:HE1	1:A:503:ILE:HG21	1.67	0.60
3:D:68:ILE:HG22	3:D:69:GLU:N	2.15	0.60
2:B:560:ILE:HG13	2:B:585:PHE:CE2	2.35	0.60
2:C:924:ASP:HB3	2:C:927:SER:OG	2.02	0.60
1:A:779:ASN:ND2	1:A:779:ASN:H	1.98	0.60
2:C:203:VAL:HA	2:C:1243:ARG:HB2	1.83	0.59
2:B:389:PHE:HZ	2:B:796:PRO:HG3	1.66	0.59
1:A:456:PHE:CE2	1:A:1025:ILE:HD11	2.36	0.59
1:A:350:PRO:O	1:A:352:THR:HG22	2.02	0.59
2:B:983:ILE:HA	2:B:986:ILE:HG22	1.81	0.59
2:C:694:ILE:HG23	2:C:698:HIS:HB2	1.83	0.59
2:C:271:THR:CG2	2:C:272:THR:N	2.64	0.59
2:C:1023:ARG:HB2	2:C:1024:PRO:HD2	1.84	0.59
1:A:830:HIS:O	1:A:831:ARG:HG2	2.01	0.59
3:E:178:LYS:HB3	3:E:251:VAL:HG22	1.84	0.59
3:E:12:LEU:HD23	3:E:12:LEU:O	2.01	0.59
1:A:372:ARG:HE	1:A:819:LYS:NZ	2.00	0.59
2:B:1134:ARG:HH22	2:B:1154:ASN:ND2	1.90	0.59
3:E:80:SER:HA	3:E:275:ARG:NH1	2.16	0.59
1:A:122:ARG:O	1:A:124:THR:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:812:LYS:HD2	2:B:992:VAL:HG21	1.84	0.59
3:E:110:VAL:CG1	3:E:111:ILE:H	2.08	0.59
2:B:368:ALA:O	2:B:370:VAL:N	2.35	0.59
2:C:170:TYR:CA	2:C:201:ALA:HA	2.29	0.59
2:C:1305:MET:HE3	2:C:1309:ILE:CG1	2.33	0.59
2:C:337:VAL:HG11	2:C:366:MET:SD	2.43	0.59
2:C:327:LEU:HG	2:C:328:GLY:N	2.17	0.59
2:C:281:VAL:CG1	2:C:302:ARG:HD2	2.32	0.59
2:B:544:TYR:OH	2:B:662:VAL:CG1	2.50	0.59
1:A:632:THR:HA	1:A:635:VAL:HG23	1.84	0.59
2:B:923:TYR:HE1	2:B:928:ARG:NH2	2.01	0.59
2:B:157:ILE:HD13	2:B:263:ARG:HD2	1.82	0.59
1:A:256:VAL:HG12	1:A:335:LEU:HD13	1.84	0.59
2:C:517:PHE:HB2	2:C:763:VAL:CG2	2.28	0.59
2:C:732:TYR:CE1	2:C:1021:ARG:HB2	2.37	0.59
2:C:144:ASN:ND2	2:C:1318:GLU:HB2	2.17	0.59
2:B:518:ALA:O	2:B:522:PRO:HA	2.01	0.59
2:B:1149:LYS:HE2	2:C:141:LEU:CB	2.32	0.59
2:C:1105:LEU:O	2:C:1120:THR:HG23	2.02	0.59
1:A:820:VAL:O	1:A:821:ARG:HB2	2.03	0.59
1:A:434:GLN:N	1:A:434:GLN:HE21	2.00	0.59
1:A:623:GLN:OE1	1:A:628:MET:HA	2.02	0.59
1:A:585:ILE:N	1:A:585:ILE:HD12	2.18	0.59
2:B:357:VAL:HA	2:B:360:ILE:CG1	2.32	0.59
1:A:759:LEU:O	1:A:759:LEU:HD13	2.01	0.59
1:A:926:MET:HE2	1:A:939:GLN:HE21	1.68	0.59
3:D:96:LEU:HD21	3:D:111:ILE:HG23	1.84	0.59
1:A:27:LYS:N	1:A:28:PRO:HD3	2.17	0.59
2:C:1109:SER:OG	2:C:1118:THR:HG21	2.03	0.59
2:B:1311:THR:HG22	2:B:1312:GLY:N	2.17	0.59
2:C:260:THR:CG2	2:C:1051:GLN:HE21	2.15	0.59
2:C:733:VAL:HG21	2:C:1022:ILE:CG2	2.33	0.59
2:C:228:VAL:CG1	2:C:229:GLN:N	2.59	0.59
2:C:1002:LEU:N	2:C:1002:LEU:CD2	2.61	0.59
1:A:7:ILE:O	1:A:252:GLU:HA	2.02	0.59
3:E:261:ARG:NH1	3:E:265:ARG:NH1	2.51	0.59
1:A:72:PHE:CE1	1:A:171:ILE:CG2	2.84	0.59
2:C:612:PHE:H	2:C:612:PHE:HD2	1.49	0.59
2:C:1131:PRO:HA	2:C:1134:ARG:NH1	2.17	0.59
2:B:1022:ILE:HG12	2:B:1022:ILE:O	2.02	0.59
1:A:343:ASP:HB3	1:A:345:ASN:ND2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:564:GLY:O	2:C:565:GLU:C	2.38	0.59
2:C:815:LEU:HD23	2:C:815:LEU:O	2.01	0.59
2:B:242:GLU:O	2:B:242:GLU:HG2	2.03	0.59
2:C:1277:LEU:HB3	2:C:1288:ILE:HA	1.85	0.59
2:C:624:PHE:CE2	2:C:713:MET:HA	2.38	0.59
2:C:738:GLU:CG	2:C:1015:GLN:HG3	2.32	0.59
2:C:638:THR:HG21	2:C:1331:ARG:NH2	2.18	0.59
2:C:594:LEU:HB3	2:C:601:ILE:HD11	1.83	0.59
1:A:600:VAL:HB	1:A:601:PRO:HD3	1.85	0.59
2:B:1159:VAL:CG1	2:B:1160:ILE:H	2.16	0.59
1:A:1039:GLY:O	1:A:1043:LEU:N	2.30	0.59
2:B:225:ILE:HD12	2:B:247:TYR:CD1	2.38	0.59
1:A:470:LEU:O	1:A:470:LEU:CD2	2.35	0.59
1:A:170:ASN:O	1:A:172:PHE:N	2.35	0.59
2:B:267:VAL:HG21	2:B:1306:THR:HA	1.84	0.59
1:A:861:ILE:HD11	1:A:904:PHE:CE2	2.38	0.59
2:C:169:LYS:HB2	2:C:169:LYS:HZ3	1.65	0.59
1:A:400:VAL:HG12	1:A:772:TRP:CZ3	2.38	0.59
2:B:1137:VAL:HG23	2:B:1164:TRP:HE1	1.68	0.59
2:C:137:ILE:CD1	2:C:137:ILE:H	2.15	0.59
2:C:850:THR:HA	2:C:922:TYR:OH	2.03	0.59
2:B:826:GLY:CA	2:B:949:ALA:HB2	2.32	0.59
2:B:1271:SER:HB2	2:B:1277:LEU:CD2	2.31	0.59
3:D:78:GLY:HA3	3:D:275:ARG:NH2	2.17	0.59
1:A:659:ASN:OD1	1:A:705:PHE:HA	2.03	0.59
3:E:221:ARG:HH11	3:E:225:ARG:HD2	1.67	0.59
3:E:107:LEU:C	3:E:107:LEU:HD13	2.23	0.59
2:C:171:GLU:CB	2:C:1211:LEU:HD12	2.30	0.59
2:B:1035:ILE:N	2:B:1035:ILE:HD12	2.17	0.59
2:C:417:ALA:HB2	2:C:744:ILE:HG12	1.85	0.59
3:E:20:ARG:HG2	3:E:20:ARG:NH1	2.16	0.59
2:C:314:ILE:C	2:C:316:ASN:H	2.05	0.59
2:B:1043:SER:O	2:B:1044:ARG:C	2.39	0.59
2:B:1245:ILE:HG22	2:B:1245:ILE:O	2.03	0.59
2:C:866:THR:O	2:C:867:ASN:HB2	2.03	0.59
1:A:883:PRO:HD3	1:A:903:PRO:HG3	1.83	0.59
2:C:1290:LYS:C	2:C:1292:GLU:H	2.06	0.59
2:B:528:ILE:O	2:B:528:ILE:HG13	2.02	0.59
2:B:268:GLY:O	2:B:270:THR:HG23	2.02	0.59
3:D:68:ILE:O	3:D:72:ILE:HG13	2.03	0.59
2:C:443:VAL:HG22	2:C:444:SER:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:112:THR:HG22	2:C:134:THR:OG1	2.03	0.59
2:C:1018:GLN:NE2	2:C:1042:TRP:HA	2.18	0.59
2:B:409:ILE:CD1	2:B:409:ILE:C	2.62	0.59
3:D:74:GLN:O	3:D:78:GLY:HA3	2.02	0.59
2:C:378:ALA:CA	2:C:622:ALA:HB2	2.26	0.59
2:B:333:ARG:HH11	2:B:333:ARG:HB2	1.68	0.59
2:B:199:TYR:CD2	2:B:199:TYR:O	2.56	0.59
2:B:418:ASN:O	2:B:420:PRO:HD3	2.03	0.59
2:C:1143:GLU:O	2:C:1144:ARG:HB3	2.02	0.59
2:B:1248:HIS:HD2	2:B:1250:GLU:O	1.85	0.59
2:C:1055:LEU:O	2:C:1059:LEU:HG	2.03	0.58
2:C:287:ARG:O	2:C:288:THR:CB	2.51	0.58
1:A:821:ARG:HB3	1:A:821:ARG:CZ	2.33	0.58
2:B:1157:ALA:CB	2:C:137:ILE:HG12	2.33	0.58
1:A:944:ARG:CB	1:A:944:ARG:HH11	2.11	0.58
2:B:173:GLN:HB3	2:B:174:PHE:CE2	2.37	0.58
2:B:195:ASN:O	2:B:198:LYS:HG3	2.03	0.58
2:C:612:PHE:O	2:C:612:PHE:CD2	2.56	0.58
2:B:843:LEU:HD13	2:B:942:HIS:CD2	2.38	0.58
1:A:578:ASN:N	1:A:578:ASN:HD22	1.99	0.58
2:B:841:ASP:HB2	2:B:845:GLU:HG3	1.85	0.58
2:C:561:ASN:HB2	2:C:565:GLU:O	2.03	0.58
3:E:182:TRP:CD1	3:E:182:TRP:O	2.56	0.58
2:C:838:GLU:HG3	2:C:911:ARG:NH1	2.18	0.58
1:A:272:LEU:HD23	1:A:272:LEU:C	2.24	0.58
2:B:410:ARG:HD2	2:B:1043:SER:CB	2.34	0.58
1:A:401:ILE:HD12	1:A:823:THR:OG1	2.04	0.58
1:A:117:LEU:O	1:A:117:LEU:HD23	2.02	0.58
2:B:559:THR:HG22	2:B:584:HIS:ND1	2.18	0.58
1:A:679:LYS:CD	1:A:690:THR:HG22	2.33	0.58
2:C:810:LEU:C	2:C:810:LEU:HD23	2.23	0.58
2:B:843:LEU:HB3	2:B:942:HIS:CG	2.38	0.58
2:C:826:GLY:HA2	2:C:964:VAL:HG12	1.85	0.58
1:A:391:ILE:H	1:A:391:ILE:HD12	1.68	0.58
3:D:285:LEU:O	3:D:288:THR:HG22	2.03	0.58
1:A:182:ARG:HE	1:A:220:HIS:CE1	2.21	0.58
1:A:284:THR:O	1:A:285:GLU:HB2	2.02	0.58
1:A:819:LYS:HG2	1:A:820:VAL:N	2.18	0.58
2:B:168:VAL:HG12	2:B:204:VAL:CG2	2.25	0.58
2:C:546:VAL:HG23	2:C:547:GLU:N	2.17	0.58
1:A:196:LEU:HD22	1:A:349:TYR:HE1	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1325:VAL:HG13	2:C:1325:VAL:O	2.03	0.58
1:A:567:PRO:O	1:A:568:ALA:C	2.41	0.58
2:B:1296:ILE:HG23	2:B:1297:SER:N	2.18	0.58
3:D:224:PHE:O	3:D:227:MET:HB3	2.04	0.58
2:C:1071:PHE:HB3	2:C:1234:GLN:NE2	2.18	0.58
2:B:1324:ASP:O	2:B:1325:VAL:HB	2.03	0.58
2:B:1030:ARG:HH11	2:B:1030:ARG:HG3	1.68	0.58
1:A:966:GLY:HA3	1:A:1049:TYR:CE1	2.38	0.58
1:A:821:ARG:HG2	1:A:821:ARG:HH11	1.66	0.58
2:B:690:GLN:O	2:B:694:ILE:HD11	2.00	0.58
1:A:456:PHE:CD2	1:A:1025:ILE:HD11	2.38	0.58
1:A:833:VAL:HG21	1:A:1039:GLY:CA	2.30	0.58
2:B:259:MET:HE2	2:B:1055:LEU:HD23	1.85	0.58
1:A:45:GLN:HA	1:A:45:GLN:NE2	2.16	0.58
1:A:255:ARG:CG	1:A:255:ARG:NH1	2.64	0.58
2:B:806:VAL:HG21	2:B:1001:THR:HG21	1.84	0.58
2:B:449:PHE:HB3	2:B:453:LEU:HB2	1.85	0.58
2:C:564:GLY:O	2:C:566:PHE:HD2	1.87	0.58
2:C:1243:ARG:HG2	2:C:1244:ALA:N	2.17	0.58
2:C:1264:GLU:O	2:C:1265:MET:HB3	2.03	0.58
3:D:29:THR:HA	3:D:222:ASP:HB3	1.86	0.58
2:C:901:VAL:HG12	2:C:903:ASN:H	1.67	0.58
2:C:1277:LEU:HA	2:C:1289:PRO:HD2	1.85	0.58
3:D:81:ALA:O	3:D:82:GLN:O	2.21	0.58
1:A:604:ILE:HD12	1:A:604:ILE:N	2.11	0.58
2:C:412:LEU:C	2:C:412:LEU:HD23	2.24	0.58
2:C:169:LYS:CB	2:C:169:LYS:NZ	2.64	0.58
1:A:27:LYS:HA	1:A:27:LYS:HZ3	1.67	0.58
2:C:1113:LYS:HD2	2:C:1113:LYS:N	2.19	0.58
1:A:701:VAL:C	1:A:702:ARG:HG2	2.23	0.58
2:B:1106:PHE:N	2:B:1106:PHE:CD2	2.71	0.58
1:A:506:VAL:HG23	1:A:507:GLY:H	1.69	0.58
2:C:617:ASP:O	2:C:620:ILE:HG22	2.04	0.58
2:B:1210:LEU:O	2:B:1210:LEU:HD12	2.04	0.58
2:C:992:VAL:HG13	2:C:992:VAL:O	2.03	0.58
1:A:757:LEU:C	1:A:757:LEU:CD2	2.71	0.58
1:A:122:ARG:O	1:A:123:SER:C	2.42	0.58
1:A:211:TRP:CZ2	1:A:216:LEU:HD12	2.37	0.58
2:C:225:ILE:CG2	2:C:227:LEU:HG	2.33	0.58
2:C:350:ILE:O	2:C:351:ASP:CB	2.51	0.58
2:B:533:GLN:HG3	2:B:588:LEU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1212:ARG:CB	2:B:1212:ARG:HH11	2.14	0.58
2:B:165:THR:HG22	2:B:209:ASN:H	1.68	0.58
2:B:530:GLY:HA3	2:B:575:TRP:CH2	2.39	0.58
2:C:540:PHE:CE1	2:C:600:ILE:HG13	2.38	0.58
1:A:472:LEU:HD23	1:A:475:ARG:NH2	2.17	0.58
3:D:148:ASP:O	3:D:149:MET:CB	2.51	0.58
2:C:697:ALA:O	2:C:701:HIS:HB3	2.03	0.58
2:B:1323:ASP:O	2:B:1324:ASP:CB	2.52	0.58
2:C:579:LEU:HB2	2:C:582:SER:OG	2.04	0.58
1:A:617:ILE:HG13	1:A:618:ASN:OD1	2.04	0.58
3:D:26:ALA:CB	3:D:30:GLN:HE22	2.09	0.58
1:A:971:LEU:HB3	1:A:982:VAL:CG2	2.33	0.58
1:A:715:TYR:CD2	1:A:715:TYR:C	2.76	0.58
1:A:216:LEU:HD23	1:A:216:LEU:O	2.04	0.58
2:C:1292:GLU:HG3	2:C:1293:VAL:HG23	1.86	0.58
2:B:548:TYR:CG	2:B:548:TYR:O	2.56	0.58
2:B:847:ILE:HG21	2:B:929:PHE:CZ	2.39	0.58
1:A:970:ARG:HH11	1:A:970:ARG:HB3	1.68	0.58
1:A:781:VAL:CG1	1:A:782:ASN:N	2.62	0.58
1:A:213:TRP:HB2	1:A:215:VAL:HG23	1.84	0.58
1:A:60:PHE:CZ	1:A:99:VAL:HG21	2.36	0.58
1:A:77:LYS:C	1:A:79:PRO:HD2	2.24	0.58
2:B:162:GLY:HA2	2:B:354:ALA:CB	2.34	0.58
3:D:224:PHE:CE2	3:D:228:LEU:HD11	2.39	0.58
1:A:256:VAL:HG11	1:A:335:LEU:HD13	1.83	0.58
2:B:837:THR:HA	2:B:935:GLN:O	2.04	0.58
2:B:336:TYR:O	2:B:338:ARG:N	2.37	0.58
2:B:558:TYR:HB3	2:B:568:PHE:CD1	2.38	0.58
2:B:316:ASN:O	2:B:319:GLN:HB2	2.04	0.58
1:A:506:VAL:CG2	1:A:510:MET:HB2	2.34	0.58
3:E:232:SER:O	3:E:235:VAL:HG22	2.03	0.58
3:E:113:ASN:O	3:E:114:SER:C	2.42	0.58
2:C:821:ASN:OD1	2:C:1014:MET:HB3	2.04	0.58
1:A:179:TYR:HB3	1:A:221:TYR:HD1	1.69	0.58
1:A:10:ASP:HB3	1:A:13:VAL:HG21	1.85	0.58
2:C:733:VAL:CG2	2:C:1022:ILE:HG23	2.31	0.58
2:B:273:PRO:HG3	2:B:286:LEU:CD2	2.34	0.58
2:B:491:ASN:HB3	2:B:756:THR:HG21	1.84	0.58
2:C:618:LEU:O	2:C:621:ALA:HB3	2.04	0.58
2:B:1078:TYR:CE1	2:C:121:PHE:HZ	2.19	0.58
3:E:147:ALA:HB2	3:E:281:LYS:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:ILE:CD1	2:C:1013:LYS:HG2	2.33	0.58
2:C:496:LYS:HG2	2:C:496:LYS:O	2.04	0.58
1:A:545:PHE:O	1:A:547:THR:HG22	2.03	0.58
2:C:652:PHE:O	2:C:655:ILE:HB	2.04	0.57
2:C:1058:GLY:O	2:C:1062:ILE:HG12	2.04	0.57
2:C:772:TYR:HB3	2:C:773:PRO:HD2	1.85	0.57
3:E:261:ARG:HD3	3:E:261:ARG:O	2.04	0.57
3:D:221:ARG:HH12	3:D:225:ARG:HD2	1.67	0.57
2:C:348:LEU:H	2:C:348:LEU:CD1	2.12	0.57
2:B:630:ASN:HD22	2:B:630:ASN:N	2.01	0.57
1:A:830:HIS:ND1	1:A:831:ARG:N	2.51	0.57
1:A:906:PHE:O	1:A:910:ASN:HB2	2.04	0.57
2:C:1018:GLN:HB3	2:C:1020:ARG:HG2	1.86	0.57
2:C:253:MET:HE1	2:C:989:ILE:HG21	1.86	0.57
2:B:414:LEU:HD22	2:B:1046:PHE:CD1	2.39	0.57
1:A:686:TYR:HA	1:A:714:ARG:NH2	2.15	0.57
1:A:466:LEU:HD12	1:A:469:LEU:HD22	1.86	0.57
1:A:587:MET:HB3	1:A:598:VAL:HG22	1.84	0.57
3:D:156:VAL:CG2	3:D:228:LEU:HB3	2.33	0.57
3:D:91:SER:C	3:D:93:LEU:N	2.57	0.57
3:D:3:GLN:C	3:D:3:GLN:HE21	2.08	0.57
3:E:140:ALA:HB2	3:E:281:LYS:CB	2.34	0.57
3:D:146:ARG:CB	3:D:146:ARG:HH11	2.17	0.57
2:B:302:ARG:HD2	2:B:318:LEU:HD12	1.86	0.57
1:A:143:TYR:C	1:A:143:TYR:CD1	2.77	0.57
1:A:114:ASN:N	1:A:143:TYR:HE2	2.02	0.57
1:A:150:PHE:O	1:A:152:SER:N	2.37	0.57
2:C:382:HIS:O	2:C:796:PRO:HB3	2.04	0.57
2:B:362:LEU:HD23	2:B:1303:SER:O	2.04	0.57
2:C:1286:VAL:HG12	2:C:1287:GLY:N	2.19	0.57
1:A:800:SER:OG	1:A:801:ASN:N	2.37	0.57
3:E:68:ILE:CD1	3:E:111:ILE:HD11	2.24	0.57
2:B:548:TYR:O	2:B:552:VAL:CG1	2.46	0.57
3:E:87:HIS:O	3:E:90:PHE:N	2.37	0.57
2:B:222:THR:O	2:B:224:GLY:N	2.37	0.57
2:C:344:VAL:HG21	2:C:346:HIS:NE2	2.20	0.57
3:E:174:VAL:HG23	3:E:174:VAL:O	2.04	0.57
2:B:1061:LEU:O	2:B:1061:LEU:HD23	2.04	0.57
2:C:168:VAL:HG22	2:C:196:LEU:CD1	2.34	0.57
2:C:1042:TRP:HZ3	2:C:1044:ARG:HA	1.70	0.57
2:B:385:ILE:HB	2:B:708:THR:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:252:LEU:HD23	2:B:823:ILE:HD13	1.86	0.57
2:B:212:PHE:CD1	2:B:212:PHE:C	2.78	0.57
1:A:239:TRP:HD1	1:A:279:TYR:HD1	1.51	0.57
2:B:755:LEU:HG	2:B:756:THR:H	1.69	0.57
2:B:539:PHE:C	2:B:539:PHE:CD2	2.78	0.57
2:C:398:ARG:NH1	2:C:398:ARG:HG2	2.08	0.57
2:C:576:ASP:O	2:C:579:LEU:HD23	2.04	0.57
2:C:1188:VAL:HB	2:C:1193:ILE:HD11	1.85	0.57
2:C:414:LEU:HB2	2:C:1046:PHE:CD1	2.40	0.57
2:C:259:MET:SD	2:C:1055:LEU:HD23	2.44	0.57
1:A:774:VAL:O	1:A:775:ASP:CB	2.50	0.57
2:B:1153:ASP:HA	2:C:138:PHE:CE1	2.38	0.57
1:A:828:TYR:HA	1:A:1032:GLY:O	2.04	0.57
1:A:683:GLN:O	1:A:684:ASN:C	2.42	0.57
2:C:767:LEU:CD1	2:C:768:CYS:N	2.61	0.57
2:B:975:SER:HG	2:B:978:GLN:H	1.51	0.57
1:A:92:LEU:CD1	1:A:96:MET:HG2	2.33	0.57
2:B:833:ARG:N	2:B:849:MET:O	2.34	0.57
2:C:1289:PRO:O	2:C:1290:LYS:CB	2.51	0.57
1:A:8:ASN:CB	1:A:339:GLN:NE2	2.63	0.57
1:A:420:VAL:HA	1:A:974:SER:HB3	1.86	0.57
3:D:65:ASN:CA	3:D:111:ILE:O	2.51	0.57
1:A:913:LEU:CA	1:A:953:ARG:HD2	2.34	0.57
2:C:308:ASN:HB2	2:C:1247:ASN:ND2	2.19	0.57
2:C:715:ASN:H	2:C:715:ASN:ND2	2.01	0.57
2:C:1250:GLU:C	2:C:1251:VAL:HG22	2.23	0.57
2:C:281:VAL:CG1	2:C:302:ARG:CD	2.83	0.57
2:B:389:PHE:HE1	2:B:1319:ARG:HB2	1.66	0.57
1:A:102:LEU:HD22	1:A:126:TYR:CZ	2.39	0.57
2:B:247:TYR:OH	2:B:251:LEU:HD11	2.04	0.57
2:C:219:ILE:HG22	2:C:221:LEU:HD12	1.87	0.57
1:A:259:ARG:CB	1:A:259:ARG:HH11	2.16	0.57
2:C:206:ILE:O	2:C:206:ILE:HG22	2.03	0.57
3:D:79:ILE:O	3:D:79:ILE:HG13	2.04	0.57
2:C:1071:PHE:O	2:C:1172:GLU:HA	2.04	0.57
2:B:299:ALA:C	2:B:301:LEU:N	2.58	0.57
2:B:1030:ARG:HG3	2:B:1030:ARG:NH1	2.20	0.57
1:A:179:TYR:HB3	1:A:221:TYR:CD1	2.39	0.57
2:B:834:THR:HG21	2:B:843:LEU:O	2.04	0.57
3:D:3:GLN:HE21	3:D:4:GLN:N	2.01	0.57
2:B:388:GLN:NE2	2:B:388:GLN:HA	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:517:PHE:HD1	2:B:521:PHE:HD2	1.50	0.57
2:B:1130:SER:O	2:B:1134:ARG:HG2	2.05	0.57
2:B:1230:ILE:HG13	2:B:1230:ILE:O	2.02	0.57
1:A:308:ALA:HB3	1:A:313:ARG:NH1	2.18	0.57
2:C:767:LEU:O	2:C:767:LEU:HD22	2.05	0.57
2:B:896:LEU:HD23	2:B:918:VAL:HB	1.86	0.57
2:B:948:ILE:CD1	2:B:952:PHE:CE2	2.78	0.57
2:B:495:LEU:HD13	2:B:528:ILE:HD12	1.86	0.57
2:B:524:GLU:HG2	2:B:758:ILE:HD12	1.87	0.57
2:C:1305:MET:HE3	2:C:1309:ILE:HG13	1.86	0.57
1:A:384:GLU:HA	1:A:802:THR:HG22	1.85	0.57
2:C:813:LEU:O	2:C:816:PRO:HD2	2.04	0.57
2:B:888:GLN:CD	3:D:242:ARG:HH12	2.02	0.57
2:B:979:ILE:O	2:B:983:ILE:HG13	2.05	0.57
3:D:265:ARG:NH1	3:D:265:ARG:CB	2.66	0.57
2:B:1077:MET:CE	2:B:1165:VAL:CG1	2.80	0.57
2:B:965:ARG:HH11	2:B:965:ARG:HA	1.69	0.57
2:C:1071:PHE:HD1	2:C:1234:GLN:HE21	1.52	0.57
2:C:894:VAL:HG13	2:C:894:VAL:O	2.05	0.57
1:A:833:VAL:CG2	1:A:1039:GLY:HA2	2.31	0.57
1:A:111:LEU:CD1	1:A:142:ASN:HD22	2.17	0.57
2:C:833:ARG:HD2	2:C:922:TYR:CE2	2.39	0.57
2:B:225:ILE:HG23	2:B:1069:ARG:O	2.05	0.57
1:A:416:MET:HE3	1:A:416:MET:CA	2.26	0.57
2:B:1111:ALA:HB3	2:B:1116:ARG:HG2	1.87	0.57
1:A:78:TYR:N	1:A:79:PRO:CD	2.68	0.57
2:B:262:ASN:HA	2:B:361:ASN:ND2	2.20	0.57
1:A:999:VAL:O	1:A:1003:VAL:HG23	2.03	0.57
1:A:7:ILE:HD11	1:A:250:LEU:HD12	1.87	0.57
1:A:148:ASP:O	1:A:149:ALA:C	2.43	0.57
2:B:630:ASN:ND2	2:B:630:ASN:O	2.37	0.57
1:A:839:LEU:HD21	1:A:1031:TYR:CE2	2.39	0.57
1:A:730:ILE:O	1:A:730:ILE:HG12	2.05	0.57
2:C:849:MET:CA	2:C:917:VAL:O	2.51	0.56
2:B:948:ILE:CG2	2:B:949:ALA:N	2.68	0.56
1:A:267:THR:O	1:A:270:GLN:HB2	2.05	0.56
2:C:714:LEU:O	2:C:716:PHE:HD2	1.87	0.56
2:C:1003:ARG:O	2:C:1004:PHE:CB	2.52	0.56
1:A:168:ASN:H	1:A:168:ASN:ND2	2.03	0.56
2:B:795:ASP:O	2:B:797:SER:N	2.38	0.56
2:C:874:ILE:HG12	2:C:895:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:228:VAL:HG23	2:B:250:GLY:CA	2.28	0.56
1:A:74:LEU:N	1:A:75:PRO:HD2	2.20	0.56
1:A:565:ARG:HG3	1:A:566:GLU:H	1.70	0.56
1:A:181:VAL:HG23	1:A:181:VAL:O	2.05	0.56
1:A:921:PHE:CA	1:A:959:TYR:O	2.53	0.56
2:B:1212:ARG:CB	2:B:1212:ARG:NH1	2.68	0.56
2:C:118:THR:O	2:C:119:ASP:C	2.43	0.56
3:D:162:GLY:O	3:D:166:GLU:HB2	2.05	0.56
2:C:299:ALA:HB1	2:C:318:LEU:HD11	1.87	0.56
2:C:865:ILE:HD11	2:C:1042:TRP:HD1	1.71	0.56
1:A:967:ILE:HD13	1:A:1049:TYR:CG	2.41	0.56
1:A:986:ARG:CD	1:A:994:PRO:HB2	2.36	0.56
1:A:372:ARG:HD2	1:A:772:TRP:CD1	2.40	0.56
2:C:466:VAL:HG22	2:C:509:VAL:CG1	2.35	0.56
1:A:164:ILE:CG1	1:A:183:ILE:CD1	2.83	0.56
2:B:225:ILE:O	2:B:226:PRO:O	2.23	0.56
2:B:815:LEU:N	2:B:816:PRO:HD2	2.20	0.56
2:C:218:GLY:O	2:C:220:ASP:N	2.38	0.56
2:B:920:PRO:O	2:B:921:ASP:HB2	2.04	0.56
2:B:1296:ILE:CG2	2:B:1297:SER:N	2.68	0.56
2:C:798:THR:O	2:C:799:THR:CB	2.53	0.56
2:C:371:THR:O	2:C:374:ASP:CB	2.45	0.56
1:A:426:ARG:H	1:A:703:PHE:HD1	1.53	0.56
1:A:340:ILE:HD11	1:A:348:LEU:HD21	1.86	0.56
2:C:271:THR:O	2:C:289:THR:HA	2.05	0.56
2:C:469:ARG:CD	2:C:510:VAL:HG22	2.36	0.56
2:C:1249:ASN:C	2:C:1249:ASN:ND2	2.58	0.56
3:E:66:VAL:HG13	3:E:89:TYR:CD1	2.41	0.56
2:C:337:VAL:CG1	2:C:343:ILE:HD12	2.36	0.56
1:A:393:LEU:N	1:A:393:LEU:HD12	2.20	0.56
3:E:207:SER:O	3:E:208:LEU:C	2.43	0.56
2:C:1242:MET:HE1	2:C:1260:PRO:CG	1.93	0.56
2:B:414:LEU:HD22	2:B:1046:PHE:CE1	2.39	0.56
1:A:373:ILE:HD12	1:A:816:LEU:CA	2.36	0.56
2:C:504:ASP:O	2:C:506:SER:N	2.38	0.56
1:A:429:TRP:CZ3	1:A:434:GLN:OE1	2.58	0.56
1:A:151:ASN:O	1:A:155:VAL:CG2	2.44	0.56
1:A:897:ILE:HG22	1:A:898:GLU:H	1.70	0.56
1:A:892:GLN:NE2	1:A:899:VAL:H	2.03	0.56
2:B:737:PRO:CD	2:B:1016:ASN:HB2	2.35	0.56
3:D:261:ARG:HG2	3:D:261:ARG:NH1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:926:MET:HE1	1:A:939:GLN:HE22	1.70	0.56
2:C:1321:ASN:ND2	2:C:1321:ASN:N	2.31	0.56
1:A:419:TYR:HB2	1:A:679:LYS:O	2.05	0.56
3:D:9:TYR:CZ	3:D:122:TYR:HD1	2.23	0.56
3:E:115:GLU:O	3:E:117:ILE:HG13	2.05	0.56
2:B:275:SER:O	2:B:277:THR:N	2.34	0.56
2:C:498:ILE:HG23	2:C:498:ILE:O	2.04	0.56
2:B:1020:ARG:HG2	2:B:1020:ARG:HH11	1.70	0.56
1:A:284:THR:HG23	1:A:285:GLU:N	2.20	0.56
1:A:826:PHE:C	1:A:828:TYR:N	2.58	0.56
3:E:76:LEU:HD11	3:E:282:PHE:CD2	2.40	0.56
1:A:91:ASN:O	1:A:92:LEU:C	2.43	0.56
2:B:850:THR:CG2	2:B:854:GLN:HG3	2.36	0.56
2:B:1197:PRO:HG2	2:B:1200:LYS:HB2	1.88	0.56
3:E:68:ILE:CD1	3:E:93:LEU:HB2	2.35	0.56
2:C:493:HIS:HB3	2:C:758:ILE:CD1	2.36	0.56
3:D:96:LEU:HD21	3:D:111:ILE:CG2	2.35	0.56
1:A:331:ARG:HG3	1:A:331:ARG:NH1	2.18	0.56
1:A:314:ARG:O	1:A:317:ARG:N	2.38	0.56
2:C:577:GLN:O	2:C:579:LEU:N	2.39	0.56
2:C:1110:LEU:C	2:C:1110:LEU:HD13	2.26	0.56
2:C:849:MET:HB3	2:C:917:VAL:HG23	1.87	0.56
2:B:251:LEU:HD22	2:B:1062:ILE:HG23	1.87	0.56
1:A:41:THR:O	1:A:49:HIS:HA	2.06	0.56
1:A:565:ARG:HE	1:A:568:ALA:CB	2.17	0.56
2:B:1199:GLY:O	2:B:1200:LYS:O	2.23	0.56
2:B:163:TYR:O	2:B:164:LEU:HG	2.05	0.56
2:C:124:GLN:NE2	2:C:126:ALA:HB2	2.19	0.56
2:B:725:ALA:O	2:B:726:THR:CB	2.52	0.56
2:B:200:GLY:O	2:B:201:ALA:O	2.23	0.56
2:C:1072:ASN:O	2:C:1171:ILE:CG2	2.54	0.56
3:D:130:PHE:CG	3:D:131:ALA:N	2.73	0.56
2:B:926:VAL:O	2:B:926:VAL:HG12	2.06	0.56
2:B:836:GLN:HB3	2:B:940:ARG:CZ	2.35	0.56
1:A:1046:PHE:O	1:A:1046:PHE:HD1	1.88	0.56
2:B:614:ARG:O	2:B:614:ARG:HG3	2.05	0.56
2:B:652:PHE:CA	2:B:655:ILE:CG2	2.78	0.56
1:A:193:ASN:OD1	1:A:350:PRO:HB3	2.05	0.56
1:A:199:MET:HA	1:A:199:MET:HE2	1.86	0.56
2:C:856:LEU:O	2:C:857:SER:C	2.43	0.56
2:C:705:VAL:C	2:C:708:THR:HG22	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:273:PRO:CB	2:B:278:LEU:HD11	2.36	0.56
2:B:737:PRO:HD2	2:B:1016:ASN:HB2	1.88	0.56
3:D:213:LEU:HD13	3:D:214:ARG:CA	2.35	0.56
2:C:210:ARG:H	2:C:210:ARG:CD	2.19	0.56
2:C:517:PHE:CB	2:C:763:VAL:HG21	2.31	0.56
2:C:1179:THR:HA	2:C:1208:ASP:CB	2.35	0.56
3:D:221:ARG:O	3:D:225:ARG:HG3	2.05	0.56
2:C:738:GLU:HG2	2:C:1015:GLN:HG3	1.86	0.56
3:E:55:HIS:O	3:E:55:HIS:ND1	2.38	0.56
2:C:805:SER:O	2:C:809:VAL:HG23	2.05	0.56
2:B:689:THR:O	2:B:692:ASP:HB2	2.06	0.56
2:C:233:VAL:HB	2:C:234:PRO:HD2	1.88	0.56
2:B:451:GLU:O	2:B:452:ASN:HB3	2.05	0.56
1:A:55:GLY:H	1:A:58:GLN:HE21	1.53	0.56
2:C:253:MET:CE	2:C:989:ILE:HG21	2.36	0.56
2:B:1258:VAL:HG12	2:B:1259:ALA:N	2.21	0.56
1:A:408:PRO:HD2	1:A:826:PHE:CZ	2.41	0.56
3:D:176:ARG:HB2	3:D:252:LEU:O	2.06	0.56
2:B:256:PHE:HE2	2:B:990:THR:HG21	1.70	0.56
2:B:828:ASP:HA	2:C:645:THR:HG22	1.86	0.56
2:C:247:TYR:C	2:C:247:TYR:CD2	2.78	0.56
1:A:526:ASN:O	1:A:527:ASN:CB	2.54	0.56
1:A:959:TYR:CZ	1:A:1054:LYS:HD3	2.41	0.56
3:E:226:MET:O	3:E:226:MET:SD	2.64	0.56
1:A:343:ASP:O	1:A:345:ASN:N	2.38	0.56
2:C:995:THR:O	2:C:997:TYR:N	2.39	0.56
1:A:804:ALA:HB3	1:A:808:TYR:CE1	2.40	0.56
2:C:302:ARG:HG2	2:C:303:ASP:N	2.11	0.56
2:C:865:ILE:HD11	2:C:1042:TRP:CD1	2.41	0.56
2:B:1045:TYR:O	2:B:1046:PHE:CB	2.53	0.56
2:C:1137:VAL:HG13	2:C:1164:TRP:CG	2.39	0.56
1:A:311:GLN:CG	1:A:312:LEU:N	2.68	0.56
2:B:1331:ARG:CB	2:B:1331:ARG:NH1	2.69	0.56
1:A:561:LEU:HD22	1:A:587:MET:HG2	1.86	0.56
2:B:368:ALA:C	2:B:370:VAL:H	2.09	0.56
3:D:271:TYR:CD2	3:D:275:ARG:HB3	2.41	0.56
3:D:81:ALA:CB	3:D:275:ARG:HE	2.08	0.56
1:A:250:LEU:CD2	1:A:250:LEU:H	2.17	0.56
2:C:135:LYS:HB2	2:C:135:LYS:HZ3	1.71	0.56
1:A:650:ILE:HG22	1:A:690:THR:O	2.06	0.56
2:C:806:VAL:O	2:C:810:LEU:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:842:TYR:CD1	1:A:871:VAL:HG21	2.41	0.56
2:C:795:ASP:C	2:C:797:SER:N	2.59	0.56
2:B:1250:GLU:O	2:B:1251:VAL:HB	2.05	0.56
1:A:977:HIS:ND1	1:A:977:HIS:O	2.39	0.56
2:C:862:ARG:HD2	2:C:952:PHE:HE2	1.68	0.56
2:C:1148:SER:C	2:C:1150:LEU:H	2.09	0.56
1:A:210:SER:O	1:A:211:TRP:CD2	2.58	0.56
2:C:836:GLN:HE22	2:C:843:LEU:HA	1.71	0.56
2:B:1282:ALA:O	2:B:1283:ASN:HB3	2.05	0.56
3:E:261:ARG:HG2	3:E:261:ARG:HH11	1.71	0.56
2:C:1206:PHE:HE1	2:C:1232:PRO:HD3	1.71	0.56
2:B:302:ARG:O	2:B:303:ASP:C	2.43	0.56
2:B:741:TYR:CD2	2:B:741:TYR:C	2.79	0.56
2:C:974:LEU:H	2:C:974:LEU:HD12	1.71	0.56
2:C:985:ARG:CZ	2:C:989:ILE:HD11	2.36	0.55
2:B:202:ALA:CB	2:B:202:ALA:C	2.69	0.55
2:C:1168:ILE:HD11	2:C:1194:MET:HE2	1.87	0.55
1:A:623:GLN:HG2	1:A:627:SER:CB	2.36	0.55
1:A:840:MET:SD	1:A:1024:LEU:HB2	2.46	0.55
1:A:131:GLY:O	1:A:134:VAL:HG22	2.05	0.55
1:A:354:ILE:HG22	1:A:355:PHE:N	2.21	0.55
2:C:866:THR:O	2:C:867:ASN:CB	2.54	0.55
2:B:249:SER:CA	2:B:252:LEU:HD11	2.32	0.55
2:B:970:LEU:HD23	2:B:970:LEU:O	2.05	0.55
1:A:461:ARG:O	1:A:463:ASP:N	2.39	0.55
1:A:904:PHE:HD2	1:A:904:PHE:H	1.52	0.55
2:B:1265:MET:O	2:B:1265:MET:HG3	2.05	0.55
2:C:148:GLN:HG3	2:C:1315:MET:CE	2.36	0.55
1:A:462:ILE:CD1	1:A:465:LEU:HD23	2.36	0.55
2:C:1018:GLN:HG3	2:C:1020:ARG:NH2	2.21	0.55
1:A:114:ASN:ND2	1:A:117:LEU:HB3	2.18	0.55
2:B:972:PRO:O	2:B:973:THR:C	2.44	0.55
1:A:259:ARG:HB2	1:A:259:ARG:CZ	2.36	0.55
2:B:1271:SER:HB2	2:B:1277:LEU:HD21	1.88	0.55
3:D:224:PHE:HE2	3:D:228:LEU:HD11	1.72	0.55
2:C:441:ARG:CB	2:C:441:ARG:HH11	2.20	0.55
1:A:678:LEU:HD21	1:A:680:THR:HB	1.88	0.55
2:C:169:LYS:CB	2:C:169:LYS:HZ3	2.19	0.55
3:D:130:PHE:O	3:D:132:ALA:N	2.40	0.55
1:A:360:THR:O	1:A:361:SER:HB3	2.05	0.55
1:A:44:SER:C	1:A:46:ARG:H	2.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:96:LEU:HD22	3:E:127:VAL:HG11	1.87	0.55
2:B:469:ARG:O	2:B:472:GLU:HB3	2.06	0.55
2:C:1008:LEU:HD23	2:C:1008:LEU:H	1.71	0.55
2:B:206:ILE:H	2:B:1239:ALA:HB1	1.70	0.55
2:C:1253:ARG:O	2:C:1253:ARG:HG3	2.05	0.55
2:B:1074:VAL:O	2:B:1168:ILE:O	2.24	0.55
1:A:840:MET:CE	1:A:1047:ASN:ND2	2.70	0.55
2:B:855:TYR:OH	2:B:860:ARG:HG2	2.06	0.55
2:C:1276:LEU:HD23	2:C:1276:LEU:N	2.17	0.55
3:D:46:LYS:HB3	3:D:158:LEU:HD21	1.87	0.55
1:A:881:ILE:CD1	1:A:900:GLN:OE1	2.55	0.55
2:B:491:ASN:CB	2:B:756:THR:HG21	2.36	0.55
1:A:944:ARG:O	1:A:947:ALA:HB3	2.07	0.55
2:C:115:GLN:HB3	2:C:117:ARG:HH11	1.67	0.55
3:D:103:ALA:HB1	3:D:112:TYR:O	2.07	0.55
3:D:136:LYS:C	3:D:138:GLY:N	2.60	0.55
2:C:960:THR:O	2:C:961:SER:CB	2.53	0.55
2:B:1184:TYR:OH	2:B:1207:MET:HB2	2.07	0.55
2:B:653:ARG:HA	2:B:688:GLU:HG3	1.87	0.55
2:B:1150:LEU:O	2:B:1150:LEU:HD23	2.06	0.55
2:C:887:VAL:O	2:C:891:HIS:HA	2.06	0.55
1:A:630:SER:C	1:A:633:ILE:HG22	2.26	0.55
2:C:1293:VAL:HG12	2:C:1294:ASP:N	2.20	0.55
3:D:261:ARG:NH2	3:D:270:THR:HA	2.19	0.55
2:B:752:VAL:O	2:B:754:GLY:N	2.39	0.55
2:B:313:ASP:O	2:B:317:MET:N	2.30	0.55
2:C:1034:GLN:C	2:C:1035:ILE:HD12	2.27	0.55
2:B:742:LYS:HE3	2:B:748:GLN:NE2	2.22	0.55
2:C:369:ASN:ND2	2:C:369:ASN:O	2.40	0.55
1:A:164:ILE:HG12	1:A:183:ILE:CD1	2.34	0.55
2:C:247:TYR:O	2:C:248:VAL:C	2.43	0.55
1:A:499:VAL:O	1:A:574:ARG:NH2	2.40	0.55
2:B:890:THR:O	2:B:891:HIS:HB2	2.07	0.55
2:B:286:LEU:HG	2:B:287:ARG:N	2.21	0.55
2:C:1280:PRO:HA	2:C:1286:VAL:HG22	1.88	0.55
1:A:426:ARG:HG3	1:A:426:ARG:HH11	1.72	0.55
2:C:967:LEU:O	2:C:967:LEU:CD2	2.48	0.55
1:A:679:LYS:HD3	1:A:690:THR:HG22	1.89	0.55
1:A:907:ASP:C	1:A:909:ALA:H	2.09	0.55
1:A:31:VAL:HG22	1:A:93:HIS:CD2	2.42	0.55
3:D:27:THR:O	3:D:30:GLN:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:MET:C	1:A:201:LYS:H	2.10	0.55
3:D:277:GLU:O	3:D:280:ALA:CB	2.45	0.55
2:C:623:ASN:O	2:C:624:PHE:HB2	2.06	0.55
2:B:502:PHE:CD1	2:B:539:PHE:HD1	2.25	0.55
2:B:200:GLY:O	2:B:201:ALA:C	2.43	0.55
2:C:372:ALA:HB1	2:C:1315:MET:SD	2.47	0.55
3:D:56:LEU:O	3:D:57:PRO:O	2.24	0.55
1:A:935:PRO:HG2	1:A:938:MET:HB2	1.89	0.55
2:B:566:PHE:HD1	2:B:592:VAL:HG21	1.70	0.55
2:B:376:ILE:HA	2:B:379:LEU:CD1	2.37	0.55
3:E:77:PHE:O	3:E:194:VAL:HG22	2.06	0.55
2:B:1052:LEU:O	2:B:1055:LEU:HB3	2.07	0.55
2:B:1059:LEU:O	2:B:1063:THR:HG23	2.07	0.55
1:A:145:ASN:HD22	1:A:146:PRO:CD	2.16	0.55
1:A:858:VAL:HG21	1:A:872:VAL:CG2	2.35	0.55
2:C:999:LYS:O	2:C:1000:LEU:HD23	2.06	0.55
2:C:314:ILE:C	2:C:316:ASN:N	2.59	0.55
2:C:334:LEU:N	2:C:334:LEU:CD2	2.65	0.55
3:E:187:ILE:CG2	3:E:188:SER:N	2.70	0.55
1:A:565:ARG:NE	1:A:565:ARG:HA	2.22	0.55
2:C:1016:ASN:OD1	2:C:1016:ASN:N	2.40	0.55
1:A:372:ARG:HD3	1:A:819:LYS:HE3	1.89	0.55
1:A:817:GLY:O	1:A:818:PHE:HB2	2.06	0.55
2:C:461:ARG:HG2	2:C:676:THR:HG21	1.88	0.55
2:B:385:ILE:N	2:B:708:THR:CG2	2.61	0.55
2:C:384:MET:HG2	2:C:793:TYR:CD1	2.41	0.55
2:C:1293:VAL:HG12	2:C:1294:ASP:H	1.72	0.55
2:B:762:ILE:O	2:B:762:ILE:HG23	2.05	0.55
3:E:17:PHE:HD1	3:E:196:TRP:CD1	2.24	0.55
1:A:97:ARG:O	1:A:97:ARG:HD2	2.06	0.55
3:E:46:LYS:HB2	3:E:46:LYS:NZ	2.21	0.55
3:E:56:LEU:O	3:E:56:LEU:HD22	2.07	0.55
2:B:1106:PHE:N	2:B:1106:PHE:HD2	2.04	0.55
2:C:1086:PRO:HG3	2:C:1177:VAL:HG13	1.89	0.55
1:A:665:LEU:HB3	1:A:673:TYR:CD2	2.41	0.55
2:C:882:GLN:N	2:C:882:GLN:OE1	2.40	0.55
2:C:294:VAL:HG12	2:C:295:GLY:N	2.17	0.55
2:C:948:ILE:CG2	2:C:949:ALA:N	2.69	0.55
1:A:814:ASN:O	1:A:816:LEU:N	2.39	0.55
2:C:137:ILE:CD1	2:C:137:ILE:N	2.70	0.55
1:A:408:PRO:HD2	1:A:826:PHE:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:79:ILE:HG23	3:E:79:ILE:O	2.07	0.55
1:A:206:SER:HA	1:A:261:ILE:O	2.07	0.55
1:A:91:ASN:O	1:A:94:SER:N	2.36	0.55
2:C:219:ILE:HG12	2:C:254:VAL:HG22	1.88	0.55
1:A:1007:LEU:HD12	1:A:1008:ARG:N	2.22	0.55
2:C:1001:THR:O	2:C:1002:LEU:C	2.45	0.55
2:B:622:ALA:O	2:B:623:ASN:CB	2.52	0.55
2:C:243:GLN:HG2	2:C:244:SER:H	1.72	0.55
2:C:1305:MET:CE	2:C:1309:ILE:CG1	2.85	0.55
2:B:802:GLN:O	2:B:805:SER:HB3	2.07	0.55
2:C:1000:LEU:HD12	2:C:1008:LEU:CD1	2.37	0.55
2:C:990:THR:O	2:C:991:ASP:HB2	2.06	0.55
2:B:476:SER:OG	2:B:477:SER:N	2.38	0.55
2:C:583:GLU:HG2	2:C:583:GLU:O	2.07	0.55
1:A:531:LYS:HD3	1:A:691:TYR:OH	2.07	0.54
1:A:304:TYR:OH	1:A:312:LEU:HD11	2.07	0.54
3:E:190:SER:OG	3:E:191:ARG:N	2.40	0.54
2:C:867:ASN:O	2:C:868:VAL:C	2.46	0.54
2:B:982:ALA:O	2:B:986:ILE:HG22	2.06	0.54
2:C:389:PHE:CZ	2:C:1319:ARG:CD	2.89	0.54
1:A:559:ILE:O	1:A:559:ILE:HG13	2.07	0.54
2:C:1078:TYR:CZ	2:C:1227:MET:HG3	2.42	0.54
1:A:255:ARG:HE	1:A:258:GLN:NE2	2.05	0.54
2:B:491:ASN:O	2:B:492:VAL:HB	2.07	0.54
1:A:980:ILE:O	1:A:981:ARG:O	2.26	0.54
1:A:275:ILE:CG2	1:A:276:GLY:N	2.69	0.54
2:B:867:ASN:O	2:B:868:VAL:O	2.25	0.54
2:C:153:ASP:HB3	2:C:401:LEU:HD12	1.88	0.54
2:C:400:GLU:HG2	2:C:401:LEU:H	1.73	0.54
1:A:642:ALA:O	1:A:643:ALA:HB2	2.07	0.54
2:C:615:THR:CG2	2:C:632:GLN:CB	2.22	0.54
2:C:992:VAL:O	2:C:992:VAL:HG22	2.06	0.54
1:A:236:LEU:CD2	1:A:236:LEU:O	2.48	0.54
3:D:177:ALA:HB3	3:D:252:LEU:HB2	1.89	0.54
2:C:385:ILE:HD13	2:C:614:ARG:HH21	1.72	0.54
3:D:261:ARG:NE	3:D:265:ARG:NH1	2.55	0.54
3:E:172:MET:HG2	3:E:173:PRO:N	2.20	0.54
2:C:1281:VAL:O	2:C:1282:ALA:HB3	2.08	0.54
2:C:168:VAL:HG12	2:C:204:VAL:CG1	2.35	0.54
1:A:745:LEU:HB2	1:A:785:ALA:O	2.07	0.54
2:B:695:ALA:HA	2:B:698:HIS:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:309:TRP:HA	2:B:312:ARG:NH1	2.23	0.54
3:E:80:SER:N	3:E:275:ARG:HH12	2.05	0.54
1:A:195:ILE:HD13	1:A:216:LEU:HD21	1.90	0.54
1:A:333:GLN:HG3	1:A:354:ILE:CD1	2.36	0.54
2:B:255:LEU:HD21	2:B:1059:LEU:HD23	1.90	0.54
2:B:349:ASN:HB3	2:B:1299:SER:HB2	1.88	0.54
2:C:697:ALA:HA	2:C:774:LEU:HD11	1.89	0.54
2:B:1263:TYR:C	2:B:1265:MET:N	2.47	0.54
2:B:190:VAL:HG11	2:B:194:VAL:HG21	1.89	0.54
2:B:831:VAL:HG12	2:B:945:VAL:HG12	1.89	0.54
2:C:555:GLY:HA3	2:C:569:SER:O	2.07	0.54
3:D:216:PHE:HE1	3:D:220:ASN:HD22	1.54	0.54
2:B:1100:GLN:OE1	2:B:1100:GLN:HA	2.06	0.54
2:C:1070:ARG:O	2:C:1070:ARG:HD2	2.06	0.54
2:C:862:ARG:HG2	2:C:862:ARG:HH11	1.73	0.54
1:A:755:ALA:HB2	1:A:781:VAL:HG21	1.90	0.54
2:C:462:LEU:CG	2:C:462:LEU:O	2.51	0.54
1:A:195:ILE:HG21	1:A:216:LEU:HD22	1.90	0.54
2:C:379:LEU:CD1	2:C:796:PRO:HB2	2.38	0.54
2:B:855:TYR:CE1	2:B:860:ARG:HG2	2.42	0.54
2:C:823:ILE:CD1	2:C:823:ILE:H	2.21	0.54
1:A:270:GLN:CA	1:A:270:GLN:NE2	2.52	0.54
2:B:356:SER:CB	2:B:1276:LEU:HD11	2.36	0.54
2:C:668:VAL:HG21	2:C:674:LYS:HD3	1.86	0.54
1:A:34:LEU:C	1:A:34:LEU:HD23	2.26	0.54
2:C:175:THR:O	2:C:176:LYS:C	2.45	0.54
2:B:733:VAL:HG11	2:B:1022:ILE:HB	1.90	0.54
3:D:139:ASN:OD1	3:D:139:ASN:O	2.25	0.54
2:B:1041:ARG:HD3	2:B:1042:TRP:NE1	2.21	0.54
1:A:654:SER:O	1:A:658:ILE:CG2	2.55	0.54
1:A:192:VAL:HA	1:A:195:ILE:CG2	2.34	0.54
2:B:580:TYR:O	2:B:580:TYR:CD1	2.61	0.54
3:D:192:ASP:O	3:D:195:ASN:HB2	2.07	0.54
1:A:462:ILE:HG13	1:A:462:ILE:O	2.07	0.54
2:B:689:THR:O	2:B:692:ASP:CB	2.56	0.54
2:C:1055:LEU:O	2:C:1055:LEU:HD13	2.08	0.54
2:C:286:LEU:HD23	2:C:288:THR:N	1.95	0.54
1:A:128:THR:OG1	2:B:1332:ASN:HB2	2.07	0.54
1:A:73:ARG:CG	1:A:73:ARG:HH11	2.20	0.54
2:C:1064:ASN:HB3	2:C:1067:ILE:HD13	1.90	0.54
2:C:1294:ASP:O	2:C:1296:ILE:HD13	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1310:ARG:HB2	2:B:1310:ARG:CZ	2.38	0.54
2:B:1176:GLU:HG3	2:B:1177:VAL:N	2.22	0.54
2:B:320:GLN:CA	2:B:320:GLN:OE1	2.54	0.54
3:D:107:LEU:HD12	3:D:122:TYR:CE2	2.43	0.54
1:A:940:MET:C	1:A:940:MET:SD	2.86	0.54
2:B:441:ARG:NH1	2:B:441:ARG:HB2	2.22	0.54
2:B:1205:GLN:O	2:B:1205:GLN:HG3	2.08	0.54
3:E:76:LEU:HD11	3:E:282:PHE:CE2	2.42	0.54
2:C:887:VAL:HG13	2:C:893:ALA:H	1.73	0.54
2:C:1037:ILE:CG2	2:C:1039:ALA:H	2.12	0.54
2:C:1024:PRO:C	2:C:1026:GLY:H	2.11	0.54
2:B:1143:GLU:O	2:B:1144:ARG:HB3	2.08	0.54
2:B:417:ALA:HB2	2:B:744:ILE:HD13	1.89	0.54
1:A:649:LYS:HA	1:A:691:TYR:CD1	2.42	0.54
1:A:688:TYR:CG	1:A:715:TYR:HB2	2.43	0.54
2:B:1192:SER:O	2:B:1193:ILE:C	2.43	0.54
2:B:1191:GLU:HA	2:C:138:PHE:CD2	2.42	0.54
1:A:405:MET:C	1:A:406:VAL:HG22	2.28	0.54
3:E:228:LEU:HD12	3:E:228:LEU:C	2.28	0.54
3:E:80:SER:HA	3:E:275:ARG:HH11	1.72	0.54
1:A:129:PRO:O	1:A:130:VAL:C	2.47	0.54
1:A:799:ARG:CB	1:A:799:ARG:HH11	2.05	0.54
1:A:550:TYR:O	1:A:575:PHE:CE2	2.61	0.54
3:D:182:TRP:O	3:D:182:TRP:CD1	2.60	0.54
2:B:1191:GLU:O	2:C:138:PHE:HE2	1.91	0.54
2:C:869:PRO:O	2:C:890:THR:HG22	2.08	0.54
2:C:913:ASN:O	2:C:914:GLU:C	2.44	0.54
1:A:71:LEU:HA	1:A:74:LEU:HB3	1.90	0.54
1:A:75:PRO:HG2	1:A:76:LEU:N	2.22	0.54
2:B:1276:LEU:N	2:B:1276:LEU:HD12	2.22	0.54
3:D:79:ILE:O	3:D:80:SER:HB3	2.07	0.54
2:B:407:HIS:NE2	2:B:411:CYS:CB	2.71	0.54
2:B:397:LEU:O	2:B:398:ARG:HD3	2.07	0.54
2:C:612:PHE:CE1	2:C:1331:ARG:HA	2.43	0.54
2:C:1021:ARG:O	2:C:1029:LEU:HB2	2.08	0.54
2:C:1116:ARG:HB2	2:C:1129:PRO:HB3	1.89	0.54
2:B:1022:ILE:HG23	2:B:1022:ILE:O	2.08	0.54
2:C:639:ASN:OD1	2:C:640:GLN:N	2.39	0.54
1:A:986:ARG:C	1:A:987:LEU:HD23	2.29	0.54
3:E:84:VAL:CG1	3:E:85:ASN:H	2.01	0.54
2:B:910:LEU:CD2	2:B:915:VAL:HB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:957:PHE:O	2:B:958:ILE:HG13	2.08	0.54
2:B:1196:ALA:HB1	2:B:1197:PRO:HD2	1.89	0.54
1:A:913:LEU:O	1:A:915:ASN:N	2.41	0.54
1:A:293:LEU:HD13	1:A:293:LEU:C	2.28	0.54
2:B:417:ALA:HB2	2:B:744:ILE:CD1	2.38	0.54
3:E:87:HIS:O	3:E:88:GLY:C	2.47	0.54
1:A:636:VAL:O	1:A:640:ALA:CB	2.56	0.54
3:D:104:ARG:NH1	3:D:104:ARG:HG2	2.22	0.54
3:E:3:GLN:HB2	3:E:121:PHE:CE1	2.43	0.54
2:B:309:TRP:HA	2:B:312:ARG:HH12	1.74	0.53
2:C:702:LEU:O	2:C:705:VAL:HG12	2.07	0.53
1:A:87:GLU:O	1:A:91:ASN:HB2	2.08	0.53
2:C:644:VAL:C	2:C:645:THR:HG23	2.27	0.53
2:B:714:LEU:O	2:B:715:ASN:HB2	2.08	0.53
2:B:489:MET:O	2:B:489:MET:SD	2.66	0.53
2:B:174:PHE:O	2:B:175:THR:OG1	2.22	0.53
3:D:3:GLN:NE2	3:D:4:GLN:H	2.04	0.53
3:E:160:LEU:C	3:E:160:LEU:CD2	2.76	0.53
1:A:927:ASN:HB3	1:A:932:ALA:O	2.08	0.53
2:C:498:ILE:CG2	2:C:498:ILE:O	2.55	0.53
2:B:1092:VAL:HG13	2:B:1092:VAL:O	2.08	0.53
2:B:1157:ALA:O	2:B:1160:ILE:HB	2.08	0.53
2:C:334:LEU:O	2:C:336:TYR:N	2.41	0.53
1:A:523:MET:CE	1:A:574:ARG:HH21	2.22	0.53
2:B:1079:LEU:O	2:B:1227:MET:HB2	2.09	0.53
1:A:267:THR:CA	1:A:270:GLN:HB2	2.38	0.53
3:E:253:GLU:O	3:E:254:TYR:CG	2.61	0.53
1:A:998:LEU:HD22	1:A:1003:VAL:CG2	2.38	0.53
3:D:86:ALA:C	3:D:88:GLY:H	2.12	0.53
2:C:212:PHE:CD2	2:C:212:PHE:O	2.61	0.53
2:B:371:THR:OG1	2:B:372:ALA:N	2.39	0.53
3:E:45:VAL:HG22	3:E:171:VAL:CG1	2.38	0.53
1:A:755:ALA:N	1:A:756:PRO:CD	2.71	0.53
2:B:698:HIS:O	2:B:702:LEU:CB	2.56	0.53
2:C:532:ILE:C	2:C:534:ASN:N	2.54	0.53
3:E:35:LEU:HD11	3:E:229:PHE:CE2	2.43	0.53
2:C:874:ILE:N	2:C:896:LEU:O	2.39	0.53
1:A:45:GLN:NE2	1:A:45:GLN:CA	2.70	0.53
2:C:250:GLY:O	2:C:254:VAL:CG2	2.55	0.53
1:A:554:PRO:HG2	1:A:555:ASP:H	1.74	0.53
1:A:925:ILE:HG22	1:A:939:GLN:CG	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:427:VAL:O	2:C:431:THR:CG2	2.57	0.53
3:E:193:VAL:O	3:E:196:TRP:HB2	2.08	0.53
2:C:555:GLY:CA	2:C:569:SER:O	2.56	0.53
2:B:437:ALA:HA	2:B:794:PRO:HD3	1.91	0.53
2:B:1161:LYS:NZ	2:B:1161:LYS:HB2	2.23	0.53
2:C:299:ALA:O	2:C:300:LEU:CB	2.42	0.53
2:C:1043:SER:OG	2:C:1043:SER:O	2.25	0.53
1:A:985:GLY:O	1:A:986:ARG:CG	2.56	0.53
2:B:690:GLN:O	2:B:693:ASN:OD1	2.27	0.53
1:A:128:THR:HA	2:B:1331:ARG:HD3	1.89	0.53
1:A:192:VAL:O	1:A:195:ILE:HG22	2.08	0.53
2:C:439:VAL:HB	2:C:702:LEU:HD11	1.90	0.53
2:C:408:ILE:HA	2:C:411:CYS:HB3	1.90	0.53
2:B:887:VAL:CG1	2:B:893:ALA:HA	2.36	0.53
2:C:1067:ILE:HD12	2:C:1067:ILE:N	2.23	0.53
1:A:800:SER:O	1:A:801:ASN:CB	2.56	0.53
2:C:209:ASN:HD22	2:C:211:ASP:HB2	1.66	0.53
3:E:198:ILE:O	3:E:201:PHE:N	2.35	0.53
3:E:107:LEU:HB2	3:E:120:PRO:O	2.09	0.53
2:C:875:THR:HG22	2:C:877:ALA:H	1.72	0.53
2:B:964:VAL:CG1	2:B:964:VAL:O	2.57	0.53
3:E:17:PHE:HA	3:E:196:TRP:HE1	1.72	0.53
2:B:1141:ILE:CD1	2:B:1147:MET:HE1	2.39	0.53
2:B:1014:MET:O	2:B:1014:MET:HG2	2.08	0.53
2:C:235:ILE:O	2:C:235:ILE:HG13	2.09	0.53
3:D:26:ALA:HB1	3:D:30:GLN:HE21	0.41	0.53
2:B:1019:ILE:O	2:B:1020:ARG:HG2	2.09	0.53
1:A:756:PRO:HG2	1:A:757:LEU:H	1.74	0.53
2:C:588:LEU:HB3	2:C:604:MET:HE2	1.89	0.53
3:E:78:GLY:O	3:E:79:ILE:HB	2.08	0.53
1:A:164:ILE:O	1:A:165:PRO:C	2.44	0.53
2:B:641:ARG:HD3	2:B:641:ARG:N	2.24	0.53
2:C:512:LEU:HD13	2:C:659:LEU:CD2	2.38	0.53
2:C:820:ILE:CA	2:C:823:ILE:HD13	2.34	0.53
2:B:1173:TYR:N	2:B:1173:TYR:CD1	2.76	0.53
2:B:1090:PRO:HG2	2:B:1231:TYR:CD2	2.44	0.53
2:C:1277:LEU:HA	2:C:1289:PRO:HD3	1.91	0.53
2:C:491:ASN:O	2:C:492:VAL:CB	2.53	0.53
2:C:774:LEU:CD1	2:C:774:LEU:O	2.52	0.53
2:C:329:LEU:HD12	2:C:329:LEU:C	2.29	0.53
2:B:1188:VAL:O	2:C:119:ASP:N	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:919:MET:HB2	2:C:920:PRO:HD2	1.91	0.53
1:A:49:HIS:CE1	1:A:75:PRO:HA	2.44	0.53
3:E:189:LEU:HD21	3:E:226:MET:CE	2.38	0.53
2:C:648:PHE:CD2	2:C:699:THR:HG22	2.42	0.53
3:D:62:VAL:HG11	3:D:92:ARG:HD3	1.90	0.53
2:B:1023:ARG:HG3	2:B:1023:ARG:HH11	1.74	0.53
2:B:951:ILE:HG23	2:B:951:ILE:O	2.09	0.53
2:C:194:VAL:O	2:C:197:PHE:C	2.47	0.53
2:C:1020:ARG:HA	2:C:1020:ARG:HH11	1.74	0.53
1:A:752:VAL:C	1:A:754:SER:N	2.61	0.53
2:B:144:ASN:N	2:B:144:ASN:HD22	2.03	0.53
2:B:377:LYS:C	2:B:380:GLN:HB3	2.26	0.53
2:B:1075:ARG:HG3	2:B:1075:ARG:NH1	2.23	0.53
1:A:352:THR:OG1	1:A:353:TYR:N	2.42	0.53
1:A:99:VAL:O	1:A:99:VAL:HG13	2.08	0.53
2:B:212:PHE:HE2	2:B:263:ARG:NH1	2.07	0.53
2:B:350:ILE:CG2	2:B:355:ALA:HB2	2.39	0.53
2:B:354:ALA:O	2:B:357:VAL:CG1	2.56	0.53
1:A:334:GLU:O	1:A:337:LEU:HB2	2.09	0.53
3:D:69:GLU:HB3	3:D:109:GLY:HA3	1.90	0.53
2:B:198:LYS:O	2:B:200:GLY:N	2.41	0.53
3:D:6:THR:HG22	3:D:9:TYR:CE1	2.44	0.53
2:C:78:ALA:CB	2:C:1182:GLU:HB3	2.39	0.53
2:C:931:ASN:C	2:C:933:ASN:H	2.12	0.53
3:E:182:TRP:O	3:E:183:GLU:O	2.27	0.53
2:C:83:GLN:O	2:C:84:ALA:O	2.25	0.53
1:A:783:ILE:CD1	1:A:783:ILE:N	2.72	0.53
1:A:373:ILE:CG1	1:A:817:GLY:N	2.51	0.53
2:B:379:LEU:HA	2:B:382:HIS:HB2	1.91	0.53
2:C:651:ARG:HD2	2:C:651:ARG:O	2.09	0.53
1:A:561:LEU:O	1:A:616:ASP:N	2.24	0.53
2:B:156:GLN:HB3	2:B:266:ILE:HD13	1.91	0.53
1:A:492:HIS:O	1:A:492:HIS:ND1	2.42	0.53
2:C:1090:PRO:CD	2:C:1231:TYR:CD1	2.92	0.53
3:D:92:ARG:HG3	3:D:92:ARG:O	2.08	0.53
2:B:1149:LYS:CE	2:C:141:LEU:HD13	2.38	0.53
1:A:720:ALA:O	1:A:721:ASP:HB3	2.09	0.53
2:C:496:LYS:HD2	2:C:759:ASP:HB3	1.90	0.53
2:C:959:GLN:NE2	2:C:1052:LEU:CD2	2.70	0.53
2:B:380:GLN:CA	2:B:380:GLN:OE1	2.54	0.53
1:A:236:LEU:C	1:A:236:LEU:HD22	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:ALA:HB1	3:D:150:ILE:HD11	1.90	0.53
2:B:611:GLY:HA3	2:B:635:ILE:O	2.09	0.53
2:C:897:TYR:HD2	2:C:919:MET:HE2	1.70	0.53
2:B:888:GLN:HE21	3:D:38:GLU:HG2	1.74	0.53
1:A:205:VAL:CA	1:A:219:PHE:O	2.54	0.53
2:B:677:ARG:HB2	2:B:677:ARG:NH1	2.22	0.53
1:A:1007:LEU:CD2	1:A:1055:LEU:HD21	2.39	0.53
2:B:495:LEU:HD11	2:B:760:THR:HG23	1.91	0.53
2:C:489:MET:CE	2:C:491:ASN:H	2.14	0.53
2:B:533:GLN:HG3	2:B:588:LEU:CG	2.39	0.53
2:C:523:THR:HG22	2:C:720:PHE:CD2	2.43	0.53
1:A:404:SER:O	1:A:827:ARG:N	2.38	0.53
3:E:192:ASP:O	3:E:195:ASN:HB3	2.09	0.53
2:B:864:HIS:CD2	2:B:1030:ARG:HE	2.25	0.53
1:A:954:THR:HA	1:A:1057:ARG:HG2	1.90	0.53
1:A:39:LEU:HB2	1:A:52:ARG:HB3	1.90	0.53
2:C:1043:SER:O	2:C:1044:ARG:C	2.48	0.53
2:B:384:MET:O	2:B:385:ILE:C	2.48	0.53
1:A:833:VAL:CG2	1:A:1039:GLY:CA	2.86	0.53
1:A:116:MET:HE1	1:A:164:ILE:HG21	1.91	0.53
2:B:225:ILE:HD12	2:B:247:TYR:HD1	1.74	0.53
2:C:1277:LEU:O	2:C:1277:LEU:HD12	2.09	0.53
2:C:1287:GLY:O	2:C:1288:ILE:HB	2.08	0.53
2:C:736:SER:HB3	2:C:740:SER:OG	2.08	0.53
2:B:532:ILE:HG22	2:B:533:GLN:N	2.22	0.53
2:B:302:ARG:O	2:B:304:PHE:HB2	2.09	0.53
3:E:91:SER:O	3:E:94:SER:HB3	2.09	0.53
2:C:934:LEU:O	2:C:935:GLN:HG3	2.08	0.53
2:C:995:THR:C	2:C:997:TYR:N	2.60	0.53
2:C:163:TYR:CE2	2:C:212:PHE:HE1	2.27	0.53
2:B:196:LEU:CD2	2:B:296:VAL:HG11	2.35	0.52
1:A:1021:THR:N	1:A:1022:PRO:CD	2.71	0.52
1:A:686:TYR:O	1:A:687:SER:O	2.27	0.52
1:A:236:LEU:HD13	1:A:237:GLU:HA	1.90	0.52
1:A:43:ASN:O	1:A:45:GLN:N	2.42	0.52
1:A:474:TYR:OH	1:A:478:ILE:CD1	2.39	0.52
1:A:565:ARG:NH1	1:A:565:ARG:HA	2.24	0.52
2:B:928:ARG:HG2	2:B:928:ARG:O	2.09	0.52
2:B:290:TYR:CD1	2:B:290:TYR:C	2.83	0.52
2:B:539:PHE:CD2	2:B:540:PHE:N	2.77	0.52
3:E:81:ALA:O	3:E:83:ASN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:981:ARG:NH1	1:A:988:LYS:HE2	2.24	0.52
2:B:171:GLU:O	2:B:173:GLN:N	2.42	0.52
2:B:615:THR:HG22	2:B:632:GLN:HB3	1.91	0.52
3:D:99:PRO:HG2	3:D:100:ASN:H	1.74	0.52
3:D:98:LEU:HB3	3:D:99:PRO:CD	2.38	0.52
2:B:1186:GLN:O	2:B:1187:HIS:CB	2.57	0.52
2:C:931:ASN:HD22	2:C:934:LEU:HA	1.74	0.52
3:E:242:ARG:HB2	3:E:251:VAL:HG21	1.91	0.52
2:C:470:ALA:HA	2:C:764:TRP:HD1	1.75	0.52
2:C:161:LYS:HG3	2:C:161:LYS:O	2.09	0.52
2:B:1139:MET:CE	2:B:1155:ILE:CD1	2.87	0.52
2:B:1171:ILE:HG22	2:B:1172:GLU:N	2.24	0.52
2:C:588:LEU:HD22	2:C:604:MET:SD	2.49	0.52
1:A:47:ARG:NE	1:A:79:PRO:HA	2.24	0.52
1:A:84:PRO:O	1:A:85:ALA:C	2.48	0.52
2:B:273:PRO:HD3	2:B:290:TYR:HE2	1.74	0.52
2:C:1064:ASN:HD22	2:C:1065:PRO:N	2.07	0.52
1:A:1012:ILE:CD1	1:A:1012:ILE:H	2.14	0.52
2:C:282:VAL:CG2	2:C:304:PHE:HE2	2.22	0.52
2:B:498:ILE:HG22	2:B:498:ILE:O	2.09	0.52
1:A:329:THR:O	1:A:330:GLN:C	2.46	0.52
3:D:3:GLN:O	3:D:4:GLN:CB	2.57	0.52
2:B:741:TYR:CD2	2:B:741:TYR:O	2.62	0.52
1:A:272:LEU:HD23	1:A:272:LEU:O	2.09	0.52
2:C:1192:SER:O	2:C:1193:ILE:C	2.46	0.52
2:C:426:ILE:HD12	2:C:488:PRO:HG3	1.90	0.52
1:A:476:THR:O	1:A:479:LYS:HG2	2.09	0.52
1:A:653:PRO:O	1:A:654:SER:HB2	2.09	0.52
2:B:973:THR:O	2:B:973:THR:HG23	2.09	0.52
2:B:235:ILE:HD11	2:C:1326:ARG:NH1	2.24	0.52
2:C:836:GLN:NE2	2:C:942:HIS:NE2	2.57	0.52
1:A:264:SER:O	1:A:265:SER:C	2.47	0.52
1:A:145:ASN:HB3	1:A:148:ASP:HB3	1.91	0.52
3:D:9:TYR:HH	3:D:122:TYR:HD1	1.56	0.52
3:E:53:GLU:HG3	3:E:281:LYS:HZ1	1.74	0.52
2:C:939:ASN:C	2:C:939:ASN:HD22	2.11	0.52
2:C:1056:SER:O	2:C:1060:ARG:HB2	2.09	0.52
2:C:831:VAL:H	2:C:854:GLN:HG2	1.74	0.52
1:A:782:ASN:C	1:A:783:ILE:HD12	2.30	0.52
2:B:1258:VAL:O	2:B:1259:ALA:HB3	2.08	0.52
1:A:118:GLY:O	1:A:120:TYR:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:612:PHE:CD2	2:B:612:PHE:C	2.80	0.52
2:C:902:ILE:HD12	2:C:902:ILE:N	2.25	0.52
1:A:49:HIS:CE1	1:A:75:PRO:CA	2.92	0.52
2:B:1288:ILE:HG13	3:D:20:ARG:HH22	1.68	0.52
3:D:258:ASN:ND2	3:D:260:MET:N	2.56	0.52
2:B:425:ILE:HA	2:B:428:GLN:HB2	1.91	0.52
1:A:348:LEU:C	1:A:348:LEU:HD12	2.29	0.52
1:A:485:MET:CG	1:A:511:ILE:HD11	2.39	0.52
1:A:869:ILE:CG2	1:A:870:SER:N	2.72	0.52
3:D:3:GLN:O	3:D:4:GLN:HG2	2.09	0.52
2:B:731:GLN:HB3	2:B:1022:ILE:CG2	2.39	0.52
2:C:109:LYS:HB3	2:C:110:PRO:HD2	1.90	0.52
3:D:28:PRO:HB3	3:D:226:MET:HG3	1.91	0.52
2:C:1069:ARG:NH1	2:C:1069:ARG:HG3	2.24	0.52
1:A:125:ASN:ND2	2:B:647:GLU:HG3	2.23	0.52
2:C:906:ALA:HA	2:C:909:TYR:HB3	1.92	0.52
1:A:228:ILE:HD11	1:A:268:TYR:HB3	1.92	0.52
2:C:1277:LEU:CB	2:C:1288:ILE:HA	2.39	0.52
2:B:533:GLN:HG3	2:B:588:LEU:HG	1.91	0.52
2:B:1309:ILE:O	2:B:1310:ARG:C	2.47	0.52
1:A:168:ASN:N	1:A:168:ASN:ND2	2.58	0.52
3:E:195:ASN:C	3:E:195:ASN:OD1	2.48	0.52
2:C:931:ASN:O	2:C:933:ASN:N	2.43	0.52
2:C:309:TRP:CG	2:C:309:TRP:O	2.63	0.52
2:C:1101:TYR:CG	2:C:1102:ALA:N	2.77	0.52
2:C:460:ALA:HA	2:C:463:VAL:CG2	2.39	0.52
1:A:531:LYS:O	1:A:535:LEU:HG	2.09	0.52
2:B:168:VAL:CG1	2:B:204:VAL:HG22	2.29	0.52
1:A:327:TYR:CE1	1:A:353:TYR:HD2	2.27	0.52
2:C:226:PRO:O	2:C:227:LEU:HB2	2.10	0.52
2:B:1228:ARG:NH1	2:C:120:VAL:CG2	2.73	0.52
2:B:1240:ARG:NE	2:B:1243:ARG:HD2	2.21	0.52
2:B:716:PHE:O	2:B:717:THR:OG1	2.26	0.52
2:C:875:THR:HG23	2:C:899:SER:OG	2.10	0.52
3:D:98:LEU:HD22	3:D:99:PRO:CD	2.40	0.52
2:B:1105:LEU:HB2	2:B:1106:PHE:HD2	1.75	0.52
2:C:926:VAL:HG21	2:C:938:ASN:N	2.25	0.52
2:C:854:GLN:HE22	2:C:965:ARG:NH2	2.07	0.52
2:B:410:ARG:HD2	2:B:1043:SER:HA	1.92	0.52
2:C:575:TRP:HE3	2:C:575:TRP:O	1.93	0.52
2:C:910:LEU:CD2	2:C:915:VAL:HB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:273:PRO:HD3	2:B:290:TYR:CE2	2.45	0.52
2:C:1286:VAL:HG12	2:C:1287:GLY:H	1.74	0.52
1:A:799:ARG:O	1:A:800:SER:HB3	2.08	0.52
2:C:210:ARG:HD2	2:C:210:ARG:N	2.23	0.52
2:C:82:ARG:NH2	2:C:210:ARG:HD2	2.24	0.52
1:A:900:GLN:HB3	1:A:902:ARG:HG2	1.91	0.52
2:B:755:LEU:CG	2:B:756:THR:H	2.21	0.52
3:E:83:ASN:ND2	3:E:83:ASN:N	2.45	0.52
2:B:525:PHE:CD2	2:B:525:PHE:O	2.62	0.52
3:D:113:ASN:O	3:D:114:SER:OG	2.25	0.52
1:A:493:LEU:HD21	1:A:533:LEU:HD21	1.91	0.52
2:C:1137:VAL:HG13	2:C:1164:TRP:CD2	2.40	0.52
3:E:229:PHE:C	3:E:229:PHE:CD1	2.83	0.52
1:A:127:THR:CA	2:B:641:ARG:NH2	2.66	0.52
2:B:231:LEU:CB	2:B:249:SER:HB2	2.36	0.52
2:B:234:PRO:HG3	2:B:972:PRO:HG3	1.91	0.52
2:C:383:SER:O	2:C:384:MET:C	2.48	0.52
1:A:73:ARG:N	1:A:75:PRO:HD2	2.25	0.52
1:A:613:ILE:HG22	1:A:614:ILE:N	2.24	0.52
1:A:207:THR:HB	1:A:218:THR:HG22	1.91	0.52
2:B:288:THR:HG22	2:B:289:THR:N	2.24	0.52
2:B:397:LEU:O	2:B:398:ARG:CD	2.58	0.52
2:C:115:GLN:OE1	2:C:115:GLN:HA	2.09	0.52
2:C:558:TYR:HB3	2:C:568:PHE:CE1	2.44	0.52
2:C:558:TYR:CD1	2:C:558:TYR:N	2.77	0.52
2:B:189:ILE:HD12	2:B:282:VAL:HG11	1.92	0.52
3:D:40:THR:HG22	3:D:41:GLU:N	2.24	0.52
2:B:274:MET:O	2:B:275:SER:HB3	2.09	0.52
2:C:421:ARG:HG2	2:C:421:ARG:HH11	1.75	0.52
2:B:1229:LEU:HD23	2:B:1229:LEU:O	2.09	0.52
2:C:1178:MET:HG3	2:C:1178:MET:O	2.10	0.52
1:A:261:ILE:HG21	1:A:349:TYR:OH	2.09	0.52
2:C:887:VAL:CG1	2:C:893:ALA:HA	2.40	0.52
2:C:1061:LEU:CD2	2:C:1061:LEU:O	2.50	0.52
2:C:228:VAL:O	2:C:229:GLN:HB2	2.10	0.52
2:B:462:LEU:C	2:B:462:LEU:HD23	2.30	0.52
1:A:239:TRP:HD1	1:A:279:TYR:CD1	2.28	0.52
2:B:965:ARG:HB2	2:B:965:ARG:HH11	1.75	0.52
2:C:1089:VAL:HG22	2:C:1232:PRO:O	2.10	0.52
1:A:842:TYR:CG	1:A:871:VAL:HG21	2.45	0.52
2:B:1126:MET:HB3	3:E:149:MET:SD	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:ARG:O	1:A:316:TYR:N	2.43	0.52
1:A:343:ASP:HB3	1:A:345:ASN:HD22	1.75	0.52
2:B:609:PRO:HB2	2:B:634:TYR:OH	2.10	0.52
2:B:394:GLN:O	2:B:395:GLY:O	2.28	0.52
1:A:373:ILE:HG13	1:A:817:GLY:HA2	1.92	0.52
3:E:269:ILE:O	3:E:270:THR:HG23	2.10	0.52
3:E:77:PHE:CD1	3:E:231:MET:CE	2.93	0.52
1:A:355:PHE:O	1:A:356:THR:HG23	2.09	0.52
2:C:902:ILE:O	2:C:903:ASN:O	2.28	0.52
2:B:256:PHE:CE2	2:B:990:THR:HG21	2.45	0.52
2:C:800:LEU:CD1	2:C:800:LEU:O	2.54	0.52
1:A:560:LEU:HD12	1:A:569:VAL:CB	2.40	0.52
1:A:560:LEU:CD1	1:A:569:VAL:HA	2.40	0.52
2:B:1287:GLY:O	2:B:1288:ILE:HB	2.10	0.52
2:B:153:ASP:O	2:B:154:PHE:CD1	2.63	0.52
2:B:1078:TYR:HE1	2:C:121:PHE:CZ	2.25	0.52
3:E:198:ILE:CG2	3:E:199:LEU:N	2.74	0.52
2:B:526:ASN:C	2:B:526:ASN:ND2	2.63	0.52
2:B:381:ALA:HB2	2:B:618:LEU:HB3	1.91	0.52
3:E:160:LEU:C	3:E:160:LEU:HD23	2.29	0.52
2:B:598:ASN:O	2:B:601:ILE:HG22	2.09	0.52
3:E:90:PHE:O	3:E:91:SER:C	2.47	0.52
1:A:384:GLU:HG2	1:A:802:THR:HG22	1.92	0.52
2:C:664:ASN:CG	2:C:681:LYS:HZ1	2.14	0.52
3:E:213:LEU:HD13	3:E:213:LEU:O	2.09	0.52
2:C:1152:ALA:HA	2:C:1155:ILE:HG22	1.92	0.51
1:A:372:ARG:HH11	1:A:372:ARG:HG3	1.74	0.51
1:A:771:THR:C	1:A:772:TRP:CD1	2.83	0.51
3:E:76:LEU:HD22	3:E:231:MET:SD	2.50	0.51
2:C:652:PHE:HA	2:C:655:ILE:HD12	1.91	0.51
2:B:1232:PRO:HG3	2:B:1236:ILE:HD11	1.91	0.51
2:B:424:GLY:CA	2:B:752:VAL:HG11	2.40	0.51
2:C:378:ALA:CA	2:C:622:ALA:CB	2.85	0.51
1:A:300:LEU:CD2	1:A:300:LEU:C	2.79	0.51
2:C:522:PRO:HG2	2:C:523:THR:N	2.25	0.51
2:C:1212:ARG:HH11	2:C:1212:ARG:HG3	1.75	0.51
1:A:514:LEU:HD12	1:A:515:PRO:HD2	1.90	0.51
3:D:56:LEU:HD12	3:D:56:LEU:N	2.24	0.51
1:A:393:LEU:HB3	1:A:748:GLY:CA	2.40	0.51
1:A:739:ASN:C	1:A:739:ASN:HD22	2.13	0.51
1:A:189:MET:CE	1:A:189:MET:O	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:833:ARG:NH1	2:C:941:TYR:CE1	2.79	0.51
2:B:1111:ALA:CB	3:E:273:LEU:HB3	2.40	0.51
2:B:897:TYR:CD2	2:B:919:MET:HG3	2.44	0.51
2:B:1288:ILE:N	2:B:1288:ILE:HD12	2.25	0.51
2:C:1288:ILE:O	2:C:1289:PRO:C	2.44	0.51
2:B:628:SER:O	2:B:629:ARG:C	2.48	0.51
2:B:926:VAL:HG21	2:B:937:ASN:C	2.29	0.51
2:B:169:LYS:NZ	2:B:1178:MET:HA	2.26	0.51
2:C:197:PHE:HD1	2:C:197:PHE:N	2.08	0.51
1:A:179:TYR:CB	1:A:220:HIS:O	2.51	0.51
1:A:456:PHE:HD1	1:A:686:TYR:CE2	2.29	0.51
3:E:84:VAL:HG11	3:E:278:PHE:CD2	2.46	0.51
1:A:142:ASN:O	1:A:143:TYR:HB3	2.09	0.51
2:B:990:THR:O	2:B:992:VAL:HG22	2.10	0.51
1:A:573:ARG:HG3	1:A:573:ARG:NH1	2.25	0.51
1:A:926:MET:CE	1:A:939:GLN:HE22	2.23	0.51
3:D:3:GLN:O	3:D:4:GLN:HB3	2.09	0.51
1:A:506:VAL:HG22	1:A:510:MET:O	2.11	0.51
1:A:501:SER:HB3	1:A:520:PRO:CB	2.41	0.51
1:A:1034:ARG:HG2	1:A:1035:LEU:N	2.25	0.51
3:E:104:ARG:HG2	3:E:104:ARG:HH11	1.75	0.51
2:B:968:ARG:HA	2:B:971:MET:CE	2.40	0.51
2:C:1156:ILE:O	2:C:1159:VAL:HB	2.10	0.51
2:B:385:ILE:HD12	2:B:614:ARG:HH12	1.74	0.51
2:B:310:LEU:HD23	2:B:311:ASN:HA	1.86	0.51
2:B:1139:MET:CE	2:B:1155:ILE:HD13	2.41	0.51
2:B:459:ALA:HB2	2:B:679:CYS:HB2	1.92	0.51
2:C:910:LEU:O	2:C:913:ASN:O	2.28	0.51
2:C:1325:VAL:O	2:C:1325:VAL:HG22	2.11	0.51
2:B:1112:ASN:O	2:B:1113:LYS:C	2.47	0.51
2:C:219:ILE:HG12	2:C:254:VAL:CG2	2.40	0.51
2:B:1228:ARG:HH12	2:C:120:VAL:HG21	1.71	0.51
2:B:1277:LEU:O	2:B:1277:LEU:HD12	2.10	0.51
1:A:1000:GLU:O	1:A:1004:THR:HG23	2.10	0.51
2:B:332:THR:CG2	2:B:341:LYS:HG3	2.40	0.51
3:D:89:TYR:O	3:D:90:PHE:C	2.49	0.51
2:B:180:LEU:HD23	2:B:181:ARG:N	2.26	0.51
2:C:275:SER:O	2:C:277:THR:N	2.43	0.51
3:E:137:LEU:HD11	3:E:282:PHE:HD1	1.75	0.51
2:C:856:LEU:O	2:C:857:SER:O	2.29	0.51
1:A:411:ILE:HG23	1:A:469:LEU:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1201:LEU:O	2:C:1201:LEU:CD2	2.53	0.51
1:A:204:LEU:CD1	1:A:204:LEU:N	2.72	0.51
1:A:1010:ILE:HG21	1:A:1012:ILE:HD11	1.93	0.51
2:B:911:ARG:HB3	2:B:911:ARG:HH11	1.71	0.51
2:C:560:ILE:HG12	2:C:585:PHE:CE2	2.45	0.51
3:D:73:THR:HG21	3:D:198:ILE:CD1	2.39	0.51
1:A:842:TYR:HB3	1:A:871:VAL:CG2	2.40	0.51
1:A:493:LEU:CD2	1:A:493:LEU:C	2.79	0.51
2:C:455:GLN:CA	2:C:455:GLN:HE21	2.21	0.51
2:C:735:THR:O	2:C:735:THR:HG23	2.09	0.51
3:E:257:VAL:HG12	3:E:257:VAL:O	2.09	0.51
1:A:558:ILE:O	1:A:558:ILE:HG13	2.10	0.51
2:C:332:THR:C	2:C:334:LEU:H	2.10	0.51
3:E:79:ILE:O	3:E:80:SER:CB	2.57	0.51
2:B:855:TYR:HB3	2:B:918:VAL:HG13	1.93	0.51
2:B:894:VAL:HG13	2:B:918:VAL:HG23	1.93	0.51
2:B:356:SER:O	2:B:360:ILE:HG12	2.11	0.51
3:D:213:LEU:HD11	3:D:217:LYS:CE	2.40	0.51
1:A:1002:ASP:O	1:A:1006:MET:HG2	2.10	0.51
2:C:648:PHE:HD2	2:C:699:THR:HG23	1.75	0.51
3:D:136:LYS:C	3:D:138:GLY:H	2.13	0.51
1:A:700:ALA:C	1:A:701:VAL:HG22	2.30	0.51
1:A:393:LEU:CB	1:A:748:GLY:HA3	2.41	0.51
1:A:768:GLU:O	1:A:768:GLU:HG3	2.11	0.51
1:A:314:ARG:C	1:A:316:TYR:N	2.64	0.51
3:E:183:GLU:HG3	3:E:183:GLU:O	2.08	0.51
2:B:787:ILE:N	2:B:787:ILE:HD12	2.26	0.51
2:C:892:VAL:HG13	2:C:951:ILE:HG23	1.92	0.51
1:A:863:GLY:O	1:A:864:ARG:CB	2.58	0.51
3:E:224:PHE:CD2	3:E:290:TRP:NE1	2.79	0.51
2:C:1050:LEU:O	2:C:1050:LEU:HD23	2.11	0.51
2:C:190:VAL:O	2:C:190:VAL:CG1	2.55	0.51
2:C:630:ASN:O	2:C:632:GLN:HG3	2.11	0.51
2:C:1152:ALA:CA	2:C:1155:ILE:HG22	2.40	0.51
2:B:675:ALA:O	2:B:679:CYS:SG	2.57	0.51
2:C:541:SER:HB3	2:C:548:TYR:CE1	2.46	0.51
2:C:548:TYR:O	2:C:552:VAL:HG12	2.11	0.51
1:A:154:PHE:CG	1:A:185:HIS:HB2	2.45	0.51
2:C:440:ILE:HG12	2:C:440:ILE:O	2.11	0.51
1:A:470:LEU:CD2	1:A:498:ALA:HB2	2.18	0.51
1:A:47:ARG:HE	1:A:79:PRO:CB	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:243:GLN:O	2:B:244:SER:C	2.48	0.51
3:D:153:TYR:CD1	3:D:156:VAL:CG1	2.86	0.51
3:D:156:VAL:HG23	3:D:228:LEU:HB3	1.91	0.51
3:D:258:ASN:C	3:D:258:ASN:ND2	2.57	0.51
2:B:419:TYR:HB3	2:B:1005:LEU:HD22	1.92	0.51
2:C:1041:ARG:HH11	2:C:1041:ARG:CG	2.24	0.51
2:B:388:GLN:HB2	2:B:1320:VAL:HB	1.93	0.51
2:C:931:ASN:HB3	2:C:936:MET:HG3	1.93	0.51
2:B:1024:PRO:O	2:B:1025:ASP:CB	2.59	0.51
2:C:168:VAL:HG12	2:C:204:VAL:HG22	1.92	0.51
2:C:1139:MET:HB2	2:C:1166:VAL:CG1	2.24	0.51
2:B:385:ILE:N	2:B:708:THR:HG22	2.23	0.51
1:A:125:ASN:HD21	2:B:647:GLU:CG	2.23	0.51
2:C:901:VAL:HA	2:C:928:ARG:O	2.10	0.51
3:D:179:PHE:CE2	3:D:250:ARG:HG2	2.45	0.51
3:D:38:GLU:O	3:D:175:LYS:HA	2.11	0.51
1:A:170:ASN:ND2	1:A:173:ASP:HB2	2.25	0.51
2:B:346:HIS:HB2	2:B:1304:MET:SD	2.51	0.51
2:B:262:ASN:HB3	2:B:1054:ARG:CZ	2.39	0.51
1:A:1007:LEU:HD22	1:A:1055:LEU:HD21	1.92	0.51
2:B:581:LEU:HB3	2:B:731:GLN:HE22	1.75	0.51
2:B:222:THR:OG1	2:B:223:LYS:N	2.44	0.51
3:E:11:THR:HG22	3:E:219:ARG:CD	2.40	0.51
2:B:463:VAL:O	2:B:467:LYS:HG2	2.10	0.51
2:B:1021:ARG:NH1	2:B:1029:LEU:HD12	2.26	0.51
2:C:301:LEU:CD2	2:C:301:LEU:C	2.75	0.51
2:C:459:ALA:C	2:C:463:VAL:HG23	2.30	0.51
2:B:690:GLN:HE21	2:B:768:CYS:HA	1.76	0.51
1:A:189:MET:O	1:A:192:VAL:CG1	2.59	0.51
1:A:333:GLN:HG3	1:A:354:ILE:CG1	2.41	0.51
2:B:1270:LEU:HD12	2:B:1301:VAL:HG11	1.93	0.51
2:B:343:ILE:HG22	2:B:1305:MET:HA	1.92	0.51
3:D:261:ARG:CZ	3:D:265:ARG:NH1	2.74	0.51
1:A:861:ILE:HG23	1:A:921:PHE:CE1	2.45	0.51
2:B:427:VAL:O	2:B:427:VAL:HG12	2.10	0.51
2:B:433:TYR:O	2:B:436:SER:HB3	2.10	0.51
2:C:619:ALA:HB2	2:C:711:ASN:HB3	1.93	0.51
3:D:257:VAL:O	3:D:257:VAL:HG12	2.09	0.51
2:C:507:SER:C	2:C:509:VAL:H	2.14	0.51
2:B:696:VAL:CG1	2:B:697:ALA:N	2.65	0.51
1:A:183:ILE:N	1:A:183:ILE:CD1	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:TRP:CE3	1:A:195:ILE:CD1	2.85	0.51
2:C:905:PRO:O	2:C:906:ALA:HB3	2.11	0.51
1:A:43:ASN:C	1:A:45:GLN:N	2.61	0.51
3:E:167:ARG:NH1	3:E:175:LYS:CE	2.73	0.51
3:E:37:TRP:HB2	3:E:175:LYS:HD2	1.93	0.51
2:C:612:PHE:CE2	2:C:635:ILE:HB	2.46	0.51
2:B:522:PRO:HD2	2:B:636:PRO:HG3	1.93	0.51
1:A:716:MET:HE3	1:A:716:MET:O	2.11	0.51
2:B:1142:ASN:OD1	2:B:1142:ASN:N	2.43	0.51
1:A:817:GLY:O	1:A:818:PHE:CB	2.59	0.50
1:A:621:GLU:HB3	1:A:623:GLN:HE22	1.74	0.50
2:B:1154:ASN:OD1	2:B:1155:ILE:N	2.44	0.50
2:C:530:GLY:O	2:C:534:ASN:HB2	2.11	0.50
1:A:195:ILE:CG2	1:A:196:LEU:H	2.24	0.50
2:C:733:VAL:HG21	2:C:1022:ILE:HG22	1.93	0.50
1:A:474:TYR:CD1	1:A:474:TYR:O	2.64	0.50
1:A:500:ASP:HA	1:A:523:MET:CE	2.41	0.50
1:A:266:SER:O	1:A:268:TYR:N	2.44	0.50
2:B:849:MET:SD	2:B:919:MET:CE	2.99	0.50
2:B:1267:THR:O	2:B:1267:THR:HG23	2.11	0.50
2:B:537:LEU:HD22	2:B:548:TYR:HE2	1.72	0.50
1:A:604:ILE:HG22	1:A:605:ASP:N	2.26	0.50
2:B:1077:MET:HG2	2:B:1078:TYR:N	2.17	0.50
3:E:159:GLU:HG3	3:E:287:PHE:HE1	1.76	0.50
1:A:420:VAL:CA	1:A:974:SER:OG	2.55	0.50
2:C:1179:THR:HA	2:C:1208:ASP:HB3	1.91	0.50
2:C:433:TYR:HE1	2:C:794:PRO:CG	2.24	0.50
2:C:285:VAL:HG13	2:C:325:TYR:CD1	2.45	0.50
3:E:53:GLU:O	3:E:55:HIS:N	2.44	0.50
1:A:1017:ILE:N	1:A:1052:VAL:O	2.43	0.50
3:E:3:GLN:NE2	3:E:121:PHE:HE1	2.09	0.50
3:E:49:ILE:N	3:E:49:ILE:HD12	2.26	0.50
2:C:1243:ARG:O	2:C:1244:ALA:CB	2.57	0.50
2:C:1244:ALA:HB3	2:C:1257:ALA:HA	1.93	0.50
2:C:1242:MET:HE1	2:C:1260:PRO:HD3	0.55	0.50
2:C:459:ALA:O	2:C:462:LEU:N	2.44	0.50
2:B:144:ASN:ND2	2:B:1318:GLU:HA	2.26	0.50
3:E:77:PHE:CE1	3:E:231:MET:HE3	2.47	0.50
2:C:930:ALA:O	2:C:932:ALA:N	2.44	0.50
2:B:894:VAL:CG1	2:B:895:VAL:N	2.74	0.50
1:A:265:SER:CB	1:A:269:VAL:HB	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:ARG:HA	1:A:461:ARG:NH1	2.23	0.50
1:A:1037:SER:OG	1:A:1038:THR:N	2.37	0.50
1:A:53:LEU:HD23	1:A:171:ILE:HD11	1.91	0.50
2:B:616:ASP:O	2:B:618:LEU:N	2.45	0.50
2:C:1116:ARG:CB	2:C:1129:PRO:HB3	2.42	0.50
2:C:1132:THR:CB	2:C:1161:LYS:HD3	2.40	0.50
1:A:393:LEU:HD11	1:A:734:ILE:CD1	2.41	0.50
2:B:1249:ASN:OD1	2:B:1249:ASN:O	2.29	0.50
3:E:216:PHE:HA	3:E:219:ARG:NH1	2.26	0.50
1:A:557:SER:O	1:A:611:ASP:HB2	2.12	0.50
2:C:410:ARG:HD3	2:C:1043:SER:HB2	1.93	0.50
1:A:652:HIS:O	1:A:715:TYR:CG	2.65	0.50
1:A:236:LEU:C	1:A:236:LEU:CD2	2.78	0.50
1:A:529:THR:HG21	1:A:567:PRO:HG2	1.93	0.50
2:C:822:MET:HG3	2:C:823:ILE:N	2.18	0.50
2:C:353:PHE:HE2	2:C:1296:ILE:HG23	1.76	0.50
1:A:925:ILE:HG22	1:A:939:GLN:HG3	1.94	0.50
2:B:965:ARG:HH11	2:B:965:ARG:CB	2.25	0.50
2:B:408:ILE:O	2:B:412:LEU:HB3	2.10	0.50
1:A:928:GLU:HB2	1:A:932:ALA:HB3	1.93	0.50
1:A:1031:TYR:C	1:A:1033:ILE:H	2.14	0.50
2:C:496:LYS:HB2	2:C:757:ILE:CG2	2.41	0.50
3:E:35:LEU:CD2	3:E:179:PHE:HB3	2.41	0.50
1:A:122:ARG:O	1:A:123:SER:O	2.30	0.50
1:A:883:PRO:HA	1:A:901:SER:HB2	1.94	0.50
1:A:40:TYR:CD2	1:A:41:THR:N	2.79	0.50
1:A:95:TRP:O	1:A:98:SER:N	2.30	0.50
2:B:828:ASP:O	2:B:948:ILE:HB	2.11	0.50
1:A:472:LEU:CD2	1:A:475:ARG:HH22	2.19	0.50
2:B:833:ARG:HB3	2:B:835:TYR:HE1	1.76	0.50
2:B:887:VAL:O	2:B:891:HIS:N	2.39	0.50
2:B:995:THR:HB	2:B:998:GLY:N	2.19	0.50
1:A:944:ARG:HB2	1:A:944:ARG:NH1	2.13	0.50
3:E:161:ALA:CB	3:E:175:LYS:HZ3	2.15	0.50
2:C:648:PHE:CG	2:C:699:THR:HG21	2.45	0.50
3:E:65:ASN:ND2	3:E:112:TYR:CE1	2.79	0.50
3:D:129:ASN:O	3:D:132:ALA:HB3	2.11	0.50
2:B:1061:LEU:O	2:B:1061:LEU:CD2	2.58	0.50
3:E:245:THR:O	3:E:246:LYS:HB2	2.11	0.50
2:B:409:ILE:HG23	2:B:625:PRO:HB2	1.92	0.50
1:A:623:GLN:CB	1:A:627:SER:HB3	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1139:MET:SD	2:B:1164:TRP:CE3	3.03	0.50
2:C:341:LYS:HG3	2:C:1307:ALA:HB3	1.93	0.50
2:C:334:LEU:HD11	2:C:363:ARG:NH1	2.26	0.50
1:A:200:ARG:HH11	1:A:200:ARG:CG	2.23	0.50
2:B:647:GLU:HA	2:B:650:SER:OG	2.11	0.50
2:C:391:GLY:HA3	2:C:1317:VAL:HG12	1.93	0.50
1:A:377:LEU:H	1:A:377:LEU:HD22	1.75	0.50
2:B:332:THR:HG21	2:B:341:LYS:HG3	1.92	0.50
2:C:447:ARG:HD2	2:C:447:ARG:N	2.27	0.50
3:D:107:LEU:CD1	3:D:122:TYR:CZ	2.93	0.50
3:E:195:ASN:O	3:E:195:ASN:OD1	2.30	0.50
2:B:598:ASN:O	2:B:598:ASN:OD1	2.30	0.50
2:B:640:GLN:CD	2:B:640:GLN:O	2.50	0.50
2:C:661:ASN:O	2:C:661:ASN:OD1	2.30	0.50
2:C:103:GLY:O	2:C:104:ILE:HB	2.12	0.50
3:E:125:ALA:O	3:E:128:ALA:HB3	2.12	0.50
2:C:197:PHE:CD1	2:C:197:PHE:N	2.80	0.50
2:C:287:ARG:C	2:C:288:THR:CG2	2.70	0.50
1:A:178:PRO:O	1:A:222:ARG:HB2	2.12	0.50
1:A:363:ASN:O	1:A:365:ILE:N	2.45	0.50
1:A:365:ILE:CG2	1:A:366:SER:N	2.75	0.50
1:A:819:LYS:NZ	1:A:823:THR:HG22	2.27	0.50
1:A:429:TRP:CE3	1:A:434:GLN:OE1	2.64	0.50
2:B:1190:ALA:O	2:B:1191:GLU:O	2.29	0.50
1:A:327:TYR:HB3	1:A:355:PHE:CE2	2.46	0.50
2:C:901:VAL:HG12	2:C:903:ASN:N	2.27	0.50
2:C:385:ILE:HG22	2:C:704:VAL:HG13	1.94	0.50
1:A:170:ASN:O	1:A:170:ASN:CG	2.50	0.50
3:E:237:ALA:HB3	3:E:253:GLU:CG	2.23	0.50
3:E:238:ASN:N	3:E:253:GLU:HB2	2.27	0.50
3:E:162:GLY:HA2	3:E:167:ARG:HD2	1.94	0.50
2:C:875:THR:HA	2:C:899:SER:CB	2.38	0.50
3:E:258:ASN:C	3:E:258:ASN:OD1	2.49	0.50
2:B:301:LEU:O	2:B:301:LEU:CD1	2.59	0.50
1:A:393:LEU:CD2	1:A:748:GLY:HA3	2.42	0.50
1:A:317:ARG:NH1	1:A:317:ARG:HB3	2.26	0.50
2:C:832:MET:O	2:C:943:GLU:CA	2.55	0.50
1:A:365:ILE:HD12	1:A:811:TYR:HE1	1.77	0.50
2:B:385:ILE:O	2:B:386:SER:CB	2.59	0.50
1:A:688:TYR:CE2	1:A:715:TYR:HD1	2.30	0.50
2:C:437:ALA:HB3	2:C:439:VAL:HG13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:HIS:NE2	1:A:75:PRO:CB	2.73	0.50
2:C:1276:LEU:HD22	2:C:1276:LEU:H	1.76	0.50
2:B:423:GLU:HB2	2:B:490:PHE:CE2	2.45	0.50
3:E:13:GLU:O	3:E:15:PHE:N	2.45	0.50
2:C:179:LYS:HB2	2:C:179:LYS:HZ3	1.73	0.50
3:D:91:SER:O	3:D:93:LEU:N	2.45	0.50
2:B:988:GLN:O	2:B:988:GLN:OE1	2.30	0.50
3:D:193:VAL:C	3:D:195:ASN:N	2.63	0.50
2:B:747:ARG:O	2:B:749:GLY:N	2.44	0.50
2:B:206:ILE:HD12	2:B:1066:ARG:HH11	1.77	0.50
3:D:42:ASN:O	3:D:43:GLU:HB3	2.12	0.50
1:A:781:VAL:CG1	1:A:782:ASN:H	2.24	0.50
1:A:192:VAL:CG1	1:A:193:ASN:N	2.74	0.50
2:C:874:ILE:HB	2:C:897:TYR:HA	1.93	0.50
1:A:203:THR:O	1:A:264:SER:CB	2.56	0.50
2:B:1277:LEU:HD13	2:B:1287:GLY:H	1.77	0.50
3:D:258:ASN:HD21	3:D:260:MET:H	1.58	0.50
2:C:624:PHE:CD2	2:C:713:MET:HA	2.46	0.50
1:A:913:LEU:HB2	1:A:953:ARG:NH1	2.21	0.50
2:B:145:THR:O	2:B:1316:ALA:HA	2.11	0.50
2:B:434:VAL:HG12	2:B:435:ALA:N	2.24	0.50
3:E:202:LEU:O	3:E:205:LEU:N	2.45	0.50
2:B:461:ARG:O	2:B:464:SER:HB3	2.11	0.50
2:C:189:ILE:C	2:C:191:GLY:N	2.65	0.50
2:C:194:VAL:O	2:C:197:PHE:O	2.29	0.50
2:C:830:VAL:O	2:C:831:VAL:O	2.30	0.50
2:B:659:LEU:HD23	2:B:659:LEU:C	2.31	0.50
2:C:533:GLN:OE1	2:C:533:GLN:O	2.30	0.50
3:E:229:PHE:CD1	3:E:230:ILE:N	2.80	0.50
2:C:903:ASN:HA	2:C:930:ALA:HB3	1.92	0.50
2:B:884:ALA:HB2	2:B:909:TYR:OH	2.12	0.50
1:A:75:PRO:CG	1:A:76:LEU:H	2.24	0.50
1:A:83:ILE:HG23	1:A:84:PRO:HD2	1.94	0.50
2:B:262:ASN:CB	2:B:1054:ARG:NH2	2.64	0.50
2:C:1278:TYR:O	2:C:1286:VAL:HG21	2.12	0.50
2:C:1277:LEU:HA	2:C:1288:ILE:HA	1.94	0.50
2:B:737:PRO:HA	2:B:861:GLU:CG	2.26	0.50
3:D:84:VAL:CG2	3:D:275:ARG:HG3	2.40	0.50
2:C:209:ASN:O	2:C:209:ASN:OD1	2.30	0.50
1:A:1004:THR:O	1:A:1007:LEU:HD12	2.12	0.50
2:C:1109:SER:OG	2:C:1118:THR:CG2	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:734:ILE:HA	1:A:741:TYR:OH	2.12	0.50
2:B:210:ARG:HH11	2:B:210:ARG:HB2	1.76	0.50
2:B:731:GLN:HB3	2:B:1022:ILE:HG23	1.93	0.50
2:C:1124:THR:O	2:C:1126:MET:HG3	2.12	0.50
1:A:398:GLU:O	1:A:399:ASP:CB	2.60	0.50
1:A:178:PRO:HG2	1:A:179:TYR:CE2	2.47	0.49
1:A:282:GLU:HB2	1:A:363:ASN:HB3	1.94	0.49
3:E:77:PHE:HE1	3:E:231:MET:CE	2.19	0.49
1:A:759:LEU:C	1:A:759:LEU:HD13	2.33	0.49
1:A:419:TYR:CB	1:A:679:LYS:O	2.60	0.49
2:B:926:VAL:HG21	2:B:937:ASN:HA	1.94	0.49
2:C:980:ARG:HH11	2:C:980:ARG:HG2	1.77	0.49
1:A:719:VAL:O	1:A:720:ALA:CB	2.59	0.49
2:B:1092:VAL:O	2:B:1093:PRO:O	2.30	0.49
3:E:205:LEU:HD22	3:E:205:LEU:O	2.12	0.49
2:B:203:VAL:O	2:B:203:VAL:HG23	2.11	0.49
3:E:4:GLN:NE2	3:E:4:GLN:O	2.45	0.49
2:C:981:HIS:C	2:C:981:HIS:HD1	2.15	0.49
2:C:310:LEU:C	2:C:312:ARG:N	2.65	0.49
1:A:809:GLN:O	1:A:812:VAL:CG2	2.60	0.49
1:A:1022:PRO:HG2	1:A:1023:GLU:H	1.78	0.49
1:A:154:PHE:CD2	1:A:185:HIS:HB2	2.46	0.49
1:A:469:LEU:C	1:A:469:LEU:HD23	2.32	0.49
2:B:289:THR:HG23	2:B:329:LEU:HB2	1.93	0.49
1:A:247:LYS:HZ2	1:A:247:LYS:HB3	1.76	0.49
2:B:425:ILE:HG13	2:B:1004:PHE:HE2	1.77	0.49
2:C:396:ALA:O	2:C:397:LEU:HB3	2.12	0.49
2:C:939:ASN:HD22	2:C:940:ARG:HG3	1.75	0.49
2:C:470:ALA:HA	2:C:764:TRP:CD1	2.47	0.49
2:C:1069:ARG:HH11	2:C:1069:ARG:HG3	1.77	0.49
3:E:243:LYS:HB2	3:E:243:LYS:NZ	2.26	0.49
2:C:1267:THR:HB	2:C:1299:SER:OG	2.12	0.49
2:C:310:LEU:O	2:C:313:ASP:N	2.40	0.49
2:C:1017:ALA:O	2:C:1018:GLN:OE1	2.30	0.49
2:C:959:GLN:HE22	2:C:1044:ARG:HD2	1.77	0.49
2:C:1076:ILE:N	2:C:1076:ILE:CD1	2.75	0.49
2:C:1152:ALA:O	2:C:1156:ILE:HG12	2.11	0.49
1:A:531:LYS:HG2	1:A:532:MET:N	2.21	0.49
2:B:307:VAL:HG21	2:B:1245:ILE:HG23	1.94	0.49
2:C:342:THR:CA	2:C:1306:THR:HG21	2.41	0.49
3:E:80:SER:CA	3:E:275:ARG:NH1	2.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:823:ILE:CD1	2:C:823:ILE:N	2.76	0.49
2:C:285:VAL:O	2:C:326:GLY:HA2	2.12	0.49
2:C:1249:ASN:HD21	2:C:1251:VAL:HG23	1.75	0.49
2:B:302:ARG:NH2	2:B:315:THR:HG23	2.25	0.49
2:B:1094:GLU:O	2:B:1096:TYR:N	2.46	0.49
2:C:675:ALA:O	2:C:678:SER:OG	2.21	0.49
2:C:368:ALA:O	2:C:370:VAL:HG23	2.11	0.49
2:B:448:TYR:OH	2:B:769:GLN:HG2	2.12	0.49
2:B:643:THR:O	2:B:644:VAL:O	2.29	0.49
2:C:526:ASN:OD1	2:C:526:ASN:O	2.30	0.49
2:B:135:LYS:HD3	2:B:135:LYS:C	2.33	0.49
2:C:193:THR:HA	2:C:296:VAL:HG22	1.93	0.49
2:B:309:TRP:HZ3	2:B:1259:ALA:HB2	1.76	0.49
2:C:382:HIS:ND1	2:C:800:LEU:HB2	2.27	0.49
2:C:820:ILE:CD1	2:C:983:ILE:HG12	2.21	0.49
2:B:1232:PRO:CG	2:B:1236:ILE:HD11	2.42	0.49
2:C:82:ARG:CZ	2:C:210:ARG:HD2	2.43	0.49
2:B:488:PRO:HA	2:B:719:ASN:HD21	1.78	0.49
2:C:179:LYS:CB	2:C:179:LYS:HZ3	2.25	0.49
2:C:686:HIS:CD2	2:C:687:LEU:N	2.80	0.49
2:C:1021:ARG:HG2	2:C:1021:ARG:O	2.13	0.49
2:C:148:GLN:HG3	2:C:1315:MET:HE3	1.94	0.49
2:C:527:ARG:CG	2:C:527:ARG:HH11	2.26	0.49
3:E:117:ILE:O	3:E:118:ASN:HB2	2.11	0.49
3:D:86:ALA:C	3:D:88:GLY:N	2.62	0.49
2:B:214:ASP:C	2:B:216:ALA:H	2.16	0.49
2:C:789:GLU:O	2:C:790:GLU:HB3	2.12	0.49
3:E:21:ASN:C	3:E:23:GLY:H	2.14	0.49
2:B:414:LEU:CD2	2:B:1046:PHE:CE1	2.96	0.49
2:B:409:ILE:HG22	2:B:625:PRO:HB2	1.94	0.49
1:A:649:LYS:CA	1:A:691:TYR:CD1	2.96	0.49
2:C:1325:VAL:HA	2:C:1328:ILE:CD1	2.43	0.49
2:B:1288:ILE:HG13	3:D:20:ARG:CZ	2.37	0.49
2:C:351:ASP:O	2:C:1300:ASN:ND2	2.46	0.49
2:C:445:GLU:HB2	2:C:447:ARG:HE	1.78	0.49
3:D:142:THR:HG1	3:D:145:TYR:HB2	1.77	0.49
2:B:543:TRP:CD2	2:B:666:ARG:HG2	2.48	0.49
1:A:813:PRO:HG2	1:A:814:ASN:H	1.76	0.49
1:A:453:LEU:HD23	1:A:454:GLY:CA	2.42	0.49
1:A:826:PHE:O	1:A:828:TYR:N	2.46	0.49
1:A:113:TYR:O	1:A:113:TYR:CG	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:612:PHE:CD1	2:B:1331:ARG:HB3	2.47	0.49
2:C:855:TYR:O	2:C:856:LEU:O	2.31	0.49
2:B:231:LEU:O	2:B:233:VAL:N	2.38	0.49
1:A:47:ARG:NH2	1:A:76:LEU:HD23	2.28	0.49
2:C:842:ASP:C	2:C:843:LEU:HD23	2.33	0.49
2:C:1293:VAL:HG21	2:C:1295:HIS:NE2	2.27	0.49
2:B:489:MET:HE3	2:B:527:ARG:NH1	2.28	0.49
1:A:1034:ARG:C	1:A:1034:ARG:HD3	2.33	0.49
1:A:806:HIS:O	1:A:809:GLN:N	2.46	0.49
2:B:792:VAL:HG12	2:B:793:TYR:N	2.27	0.49
1:A:652:HIS:CB	1:A:653:PRO:HA	2.42	0.49
3:E:269:ILE:H	3:E:269:ILE:HD12	1.76	0.49
2:C:645:THR:O	2:C:646:ASN:O	2.31	0.49
2:B:1206:PHE:CE1	2:B:1232:PRO:HD3	2.48	0.49
1:A:228:ILE:HG22	1:A:294:SER:OG	2.13	0.49
2:B:244:SER:OG	2:B:1199:GLY:HA2	2.13	0.49
1:A:239:TRP:CE3	1:A:281:ASN:ND2	2.81	0.49
1:A:861:ILE:HG23	1:A:921:PHE:CZ	2.46	0.49
1:A:553:ALA:CB	1:A:554:PRO:HD2	2.31	0.49
2:B:426:ILE:HG22	2:B:488:PRO:HD2	1.95	0.49
2:B:336:TYR:CE2	3:D:66:VAL:HG23	2.47	0.49
3:D:73:THR:HG22	3:D:198:ILE:HG12	1.94	0.49
3:D:6:THR:CG2	3:D:9:TYR:CE1	2.96	0.49
1:A:493:LEU:HD23	1:A:493:LEU:O	2.11	0.49
3:E:65:ASN:ND2	3:E:112:TYR:HE1	2.10	0.49
2:B:301:LEU:HD13	2:B:301:LEU:O	2.13	0.49
1:A:384:GLU:HG2	1:A:802:THR:CG2	2.43	0.49
2:C:1050:LEU:C	2:C:1050:LEU:HD23	2.33	0.49
3:E:291:ASN:N	3:E:291:ASN:OD1	2.45	0.49
2:C:256:PHE:HA	2:C:259:MET:HB3	1.94	0.49
1:A:992:TYR:O	1:A:993:VAL:O	2.30	0.49
2:B:691:PHE:CD2	2:B:691:PHE:O	2.65	0.49
1:A:649:LYS:HB2	1:A:691:TYR:CD1	2.47	0.49
1:A:1008:ARG:HH21	1:A:1014:HIS:CE1	2.31	0.49
2:C:489:MET:HE2	2:C:491:ASN:N	2.14	0.49
1:A:419:TYR:HB3	1:A:680:THR:HA	1.94	0.49
2:C:687:LEU:O	2:C:687:LEU:HD13	2.12	0.49
1:A:894:LYS:HB2	1:A:894:LYS:HZ2	1.78	0.49
1:A:700:ALA:O	1:A:701:VAL:HG13	2.13	0.49
2:B:1103:HIS:ND1	2:C:388:GLN:NE2	2.61	0.49
3:D:56:LEU:H	3:D:56:LEU:CD1	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:712:ILE:O	1:A:716:MET:N	2.44	0.49
2:C:1053:ARG:HG3	2:C:1053:ARG:NH1	2.27	0.49
2:B:461:ARG:HD3	2:B:504:ASP:HB3	1.95	0.49
3:D:206:CYS:O	3:D:207:SER:HB3	2.13	0.49
2:C:828:ASP:HB3	2:C:948:ILE:CG2	2.43	0.49
1:A:971:LEU:HB3	1:A:982:VAL:HG21	1.94	0.49
1:A:658:ILE:HG13	1:A:692:ILE:HD11	1.93	0.49
2:C:1306:THR:O	2:C:1307:ALA:HB2	2.13	0.49
1:A:684:ASN:O	1:A:685:PRO:C	2.51	0.49
1:A:117:LEU:HD22	1:A:141:LEU:HD21	1.94	0.49
2:B:910:LEU:HD13	2:B:917:VAL:CG2	2.43	0.49
2:B:832:MET:HA	2:B:849:MET:O	2.13	0.49
3:D:19:ILE:O	3:D:20:ARG:HB3	2.12	0.49
1:A:553:ALA:CB	1:A:554:PRO:CD	2.84	0.49
2:C:419:TYR:CG	2:C:419:TYR:O	2.64	0.49
2:C:270:THR:HG22	2:C:291:HIS:HA	1.95	0.49
2:B:798:THR:O	2:B:802:GLN:HB2	2.13	0.49
2:C:486:VAL:O	2:C:486:VAL:HG23	2.12	0.49
2:B:1019:ILE:HD12	2:B:1040:PHE:CE1	2.47	0.49
1:A:372:ARG:HG3	1:A:372:ARG:NH1	2.28	0.49
1:A:445:TYR:CE2	1:A:624:SER:HA	2.48	0.49
2:B:204:VAL:HB	2:B:1242:MET:HB3	1.95	0.49
2:B:1156:ILE:CD1	2:B:1194:MET:SD	2.93	0.49
2:C:362:LEU:HD23	2:C:363:ARG:HA	1.95	0.49
1:A:111:LEU:HD13	1:A:142:ASN:HD22	1.77	0.49
1:A:134:VAL:HG12	1:A:141:LEU:HD11	1.94	0.49
2:B:832:MET:SD	2:B:946:LEU:CD2	2.96	0.49
2:B:163:TYR:HE1	2:B:212:PHE:CZ	2.31	0.49
2:B:580:TYR:O	2:B:580:TYR:HD1	1.95	0.49
2:B:502:PHE:CD1	2:B:539:PHE:HB2	2.48	0.49
1:A:925:ILE:O	1:A:926:MET:HE2	2.13	0.49
2:B:170:TYR:HA	2:B:201:ALA:HA	1.94	0.49
1:A:867:ALA:O	1:A:869:ILE:N	2.45	0.49
2:C:1119:TYR:HE2	2:C:1121:HIS:HB2	1.73	0.49
3:E:61:ASN:O	3:E:62:VAL:O	2.30	0.49
2:C:163:TYR:CZ	2:C:354:ALA:HA	2.48	0.49
1:A:793:ALA:HA	1:A:874:LEU:HD21	1.95	0.49
2:C:192:PRO:HG2	2:C:193:THR:H	1.78	0.48
2:C:959:GLN:NE2	2:C:1044:ARG:HD2	2.28	0.48
2:C:414:LEU:O	2:C:414:LEU:CD1	2.53	0.48
2:C:507:SER:C	2:C:509:VAL:N	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:879:VAL:HG13	1:A:898:GLU:HB2	1.94	0.48
1:A:84:PRO:HG2	1:A:87:GLU:CB	2.37	0.48
1:A:92:LEU:HD12	1:A:92:LEU:O	2.13	0.48
1:A:613:ILE:O	1:A:646:ALA:CB	2.61	0.48
2:C:1280:PRO:CA	2:C:1286:VAL:HG22	2.43	0.48
1:A:487:GLN:HA	1:A:492:HIS:CD2	2.47	0.48
1:A:720:ALA:O	1:A:721:ASP:CB	2.60	0.48
2:C:94:PHE:HB3	2:C:105:MET:HE2	1.95	0.48
2:C:838:GLU:O	2:C:840:ASP:N	2.46	0.48
2:B:1184:TYR:O	2:B:1185:THR:HG23	2.11	0.48
2:B:359:ASN:O	2:B:363:ARG:HB2	2.13	0.48
2:C:434:VAL:HG12	2:C:435:ALA:N	2.22	0.48
1:A:383:THR:O	1:A:383:THR:HG22	2.13	0.48
1:A:648:VAL:O	1:A:691:TYR:HA	2.11	0.48
3:E:228:LEU:HA	3:E:231:MET:CB	2.43	0.48
1:A:112:ARG:O	1:A:113:TYR:HB2	2.13	0.48
1:A:184:TRP:CB	1:A:216:LEU:CD2	2.80	0.48
2:C:874:ILE:HG12	2:C:895:VAL:HG12	1.95	0.48
2:B:874:ILE:O	2:B:874:ILE:HG23	2.13	0.48
1:A:567:PRO:O	1:A:571:ILE:HG12	2.14	0.48
1:A:560:LEU:HD11	1:A:569:VAL:HA	1.95	0.48
3:D:234:ALA:HB1	3:D:271:TYR:CD1	2.48	0.48
2:C:441:ARG:NH1	2:C:441:ARG:CB	2.62	0.48
1:A:962:PHE:CD1	1:A:998:LEU:CD1	2.94	0.48
1:A:426:ARG:NH1	1:A:426:ARG:HA	2.28	0.48
2:C:317:MET:C	2:C:319:GLN:N	2.64	0.48
3:D:145:TYR:O	3:D:146:ARG:O	2.31	0.48
2:B:1118:THR:OG1	2:B:1127:ALA:HB1	2.13	0.48
2:C:816:PRO:HG2	2:C:817:ASP:H	1.78	0.48
3:D:162:GLY:O	3:D:163:THR:O	2.31	0.48
2:B:363:ARG:NH1	2:B:363:ARG:HB3	2.27	0.48
2:C:330:THR:OG1	2:C:331:GLU:N	2.46	0.48
2:C:1271:SER:C	2:C:1273:ASN:H	2.15	0.48
3:E:151:ASP:O	3:E:154:ALA:HB3	2.13	0.48
2:B:959:GLN:OE1	2:B:959:GLN:HA	2.12	0.48
2:C:1159:VAL:HA	2:C:1164:TRP:HB2	1.95	0.48
2:C:855:TYR:CB	2:C:918:VAL:HG11	2.43	0.48
1:A:42:PHE:CE2	1:A:81:LYS:HA	2.48	0.48
2:B:755:LEU:HG	2:B:756:THR:N	2.27	0.48
2:B:502:PHE:CE1	2:B:539:PHE:HB2	2.49	0.48
2:C:135:LYS:CB	2:C:135:LYS:HZ3	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:ILE:HD12	2:C:1013:LYS:CG	2.42	0.48
2:B:1022:ILE:CG1	2:B:1022:ILE:O	2.57	0.48
2:B:1311:THR:HG22	2:B:1312:GLY:H	1.78	0.48
1:A:57:PHE:O	1:A:58:GLN:C	2.50	0.48
2:C:182:ALA:O	2:C:183:SER:C	2.48	0.48
2:C:862:ARG:HE	2:C:948:ILE:HD13	1.78	0.48
2:B:410:ARG:HG2	2:B:410:ARG:NH1	2.29	0.48
1:A:372:ARG:HA	1:A:817:GLY:HA3	1.95	0.48
1:A:126:TYR:HB3	1:A:135:VAL:CG2	2.42	0.48
2:C:907:SER:O	2:C:910:LEU:HB2	2.13	0.48
1:A:880:VAL:CG2	1:A:880:VAL:O	2.61	0.48
2:B:952:PHE:HB3	2:B:958:ILE:HD12	1.94	0.48
2:C:225:ILE:CD1	2:C:1201:LEU:HD11	2.42	0.48
2:B:1281:VAL:O	2:B:1282:ALA:HB3	2.13	0.48
2:B:289:THR:OG1	2:B:290:TYR:N	2.47	0.48
2:B:425:ILE:HA	2:B:428:GLN:CB	2.44	0.48
1:A:377:LEU:CD1	1:A:759:LEU:HD13	2.40	0.48
2:C:373:ASP:HB2	2:C:394:GLN:C	2.34	0.48
2:C:1321:ASN:O	2:C:1322:PRO:C	2.48	0.48
2:B:1077:MET:O	2:B:1078:TYR:HB2	2.13	0.48
1:A:6:SER:C	1:A:7:ILE:HD12	2.33	0.48
1:A:980:ILE:C	1:A:981:ARG:O	2.52	0.48
1:A:53:LEU:HG	1:A:171:ILE:HD11	1.94	0.48
1:A:888:GLU:HB2	1:A:891:THR:HG22	1.94	0.48
2:C:1104:ARG:HG2	2:C:1104:ARG:NH1	2.28	0.48
1:A:731:HIS:CE1	1:A:742:SER:O	2.66	0.48
3:E:174:VAL:CG2	3:E:174:VAL:O	2.61	0.48
3:E:45:VAL:HG22	3:E:171:VAL:HG12	1.95	0.48
2:C:592:VAL:HG13	2:C:593:PRO:HD2	1.95	0.48
1:A:140:ILE:HD13	1:A:140:ILE:O	2.13	0.48
2:B:670:ASP:O	2:B:671:ASP:C	2.52	0.48
2:B:1074:VAL:HG23	2:B:1171:ILE:HG21	1.95	0.48
2:B:1191:GLU:CA	2:C:138:PHE:CE2	2.95	0.48
1:A:184:TRP:CB	1:A:195:ILE:HD13	2.43	0.48
1:A:411:ILE:HG12	1:A:412:ALA:N	2.28	0.48
2:C:1287:GLY:O	2:C:1288:ILE:HG13	2.12	0.48
3:D:149:MET:HE2	3:D:260:MET:SD	2.53	0.48
2:B:407:HIS:ND1	2:B:411:CYS:HB2	2.28	0.48
2:C:169:LYS:HD2	2:C:1179:THR:HG23	1.96	0.48
2:C:289:THR:CG2	2:C:329:LEU:HD23	2.44	0.48
2:B:477:SER:HB2	2:B:480:LEU:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:461:ARG:HG3	2:B:461:ARG:HH11	1.79	0.48
1:A:397:GLY:O	1:A:398:GLU:C	2.52	0.48
2:B:644:VAL:HG12	2:B:645:THR:HG23	1.95	0.48
2:B:1216:SER:O	2:B:1218:PHE:N	2.47	0.48
3:D:291:ASN:N	3:D:291:ASN:OD1	2.45	0.48
2:B:542:ARG:HG2	2:B:542:ARG:H	1.40	0.48
2:C:1045:TYR:O	2:C:1046:PHE:CB	2.60	0.48
1:A:237:GLU:O	1:A:240:ARG:CB	2.37	0.48
1:A:134:VAL:HG23	1:A:135:VAL:H	1.79	0.48
1:A:104:VAL:CG2	1:A:138:PRO:HB2	2.36	0.48
1:A:332:HIS:O	1:A:333:GLN:C	2.51	0.48
2:B:1116:ARG:HA	2:B:1116:ARG:NH1	2.20	0.48
1:A:73:ARG:CA	1:A:75:PRO:HD2	2.43	0.48
1:A:764:SER:CA	1:A:795:GLU:HG3	2.39	0.48
2:C:806:VAL:O	2:C:810:LEU:N	2.40	0.48
1:A:27:LYS:N	1:A:28:PRO:CD	2.76	0.48
2:B:926:VAL:HG21	2:B:938:ASN:N	2.28	0.48
2:C:617:ASP:CA	2:C:620:ILE:HG22	2.44	0.48
1:A:1033:ILE:HG23	1:A:1034:ARG:O	2.13	0.48
2:C:926:VAL:HG21	2:C:937:ASN:CA	2.44	0.48
2:B:1183:GLY:O	2:B:1184:TYR:HB2	2.13	0.48
2:B:339:LEU:HD11	3:D:63:PRO:HB2	1.96	0.48
2:B:625:PRO:HG2	2:B:625:PRO:O	2.13	0.48
2:B:144:ASN:ND2	2:B:144:ASN:N	2.61	0.48
2:C:533:GLN:HA	2:C:588:LEU:HD12	1.95	0.48
1:A:134:VAL:HA	1:A:137:ALA:O	2.13	0.48
1:A:333:GLN:HG3	1:A:354:ILE:HD11	1.96	0.48
2:B:812:LYS:HB3	2:B:812:LYS:HZ2	1.79	0.48
2:C:265:VAL:HG23	2:C:1304:MET:CA	2.44	0.48
2:B:874:ILE:O	2:B:875:THR:HB	2.13	0.48
2:C:645:THR:OG1	2:C:646:ASN:N	2.46	0.48
2:B:272:THR:O	2:B:273:PRO:C	2.52	0.48
2:B:1050:LEU:O	2:B:1053:ARG:HB2	2.13	0.48
2:C:484:ARG:HH11	2:C:758:ILE:HG12	1.78	0.48
2:B:1101:TYR:CZ	2:B:1147:MET:HE2	2.48	0.48
1:A:314:ARG:HA	1:A:317:ARG:NH1	2.29	0.48
3:E:182:TRP:O	3:E:183:GLU:HG2	2.13	0.48
2:C:163:TYR:CG	2:C:354:ALA:HB2	2.48	0.48
1:A:644:THR:O	1:A:696:PRO:HD2	2.13	0.48
2:C:278:LEU:HD12	2:C:278:LEU:O	2.13	0.48
1:A:130:VAL:HG11	1:A:162:ILE:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:VAL:HG23	1:A:122:ARG:HE	1.76	0.48
2:B:256:PHE:HE2	2:B:990:THR:CG2	2.27	0.48
1:A:73:ARG:HB3	1:A:73:ARG:HH11	1.79	0.48
1:A:560:LEU:HD12	1:A:569:VAL:CA	2.44	0.48
2:C:1278:TYR:HB2	2:C:1286:VAL:HG11	1.95	0.48
2:C:392:PRO:O	2:C:393:ASN:C	2.50	0.48
1:A:881:ILE:HG21	1:A:904:PHE:CZ	2.49	0.48
1:A:703:PHE:O	1:A:704:PRO:O	2.31	0.48
1:A:578:ASN:HD22	1:A:579:VAL:H	1.60	0.48
2:B:298:PRO:O	2:B:299:ALA:HB2	2.13	0.48
3:E:144:ARG:HB2	3:E:144:ARG:NH1	2.28	0.48
2:C:1248:HIS:CB	2:C:1252:ASP:O	2.62	0.48
1:A:1046:PHE:O	1:A:1046:PHE:CD1	2.66	0.48
3:D:167:ARG:CB	3:D:167:ARG:HH11	2.26	0.48
2:C:1265:MET:HG3	2:C:1265:MET:O	2.14	0.48
2:C:168:VAL:CG1	2:C:204:VAL:HG13	2.41	0.48
1:A:817:GLY:O	1:A:818:PHE:CD2	2.67	0.48
1:A:715:TYR:O	1:A:715:TYR:CG	2.67	0.48
2:C:334:LEU:HD11	2:C:363:ARG:HH12	1.77	0.48
2:B:213:PHE:CZ	2:B:254:VAL:HG13	2.49	0.48
2:B:815:LEU:C	2:B:815:LEU:HD23	2.34	0.48
2:C:229:GLN:HG3	2:C:230:ASP:H	1.79	0.48
2:B:1286:VAL:HG12	2:B:1288:ILE:H	1.78	0.48
2:B:1278:TYR:CZ	2:B:1290:LYS:HG3	2.49	0.48
2:C:82:ARG:HH22	2:C:209:ASN:CB	2.26	0.48
2:B:600:ILE:O	2:B:603:ILE:CG2	2.60	0.48
3:D:110:VAL:HG21	3:D:112:TYR:CZ	2.49	0.48
3:D:133:THR:O	3:D:136:LYS:HB2	2.14	0.48
2:B:171:GLU:HG3	2:B:1211:LEU:HB3	1.95	0.48
1:A:849:ILE:HD12	1:A:871:VAL:HG12	1.95	0.48
2:B:542:ARG:HB3	2:B:542:ARG:NH1	2.28	0.48
2:B:276:ASN:CG	2:B:276:ASN:O	2.51	0.48
1:A:821:ARG:CG	1:A:821:ARG:HH11	2.27	0.48
2:C:767:LEU:O	2:C:767:LEU:CD1	2.53	0.48
2:B:855:TYR:O	2:B:856:LEU:O	2.32	0.48
2:B:833:ARG:HD2	2:B:922:TYR:CZ	2.47	0.48
3:D:78:GLY:HA3	3:D:275:ARG:HH21	1.79	0.48
3:D:148:ASP:O	3:D:149:MET:HB2	2.14	0.48
1:A:418:GLY:O	1:A:681:ALA:N	2.47	0.48
2:C:87:GLU:HG2	2:C:157:ILE:HB	1.96	0.48
2:B:1240:ARG:CG	2:B:1240:ARG:HH11	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:186:ASP:O	2:B:187:ASP:C	2.45	0.48
1:A:492:HIS:CE1	1:A:503:ILE:HG21	2.46	0.48
1:A:234:LYS:CB	1:A:234:LYS:NZ	2.72	0.48
2:C:1171:ILE:HD11	2:C:1202:PHE:CE1	2.49	0.48
1:A:428:ILE:O	1:A:430:PRO:HD3	2.13	0.48
2:C:1000:LEU:HD12	2:C:1008:LEU:HD11	1.96	0.48
3:D:21:ASN:O	3:D:22:ASP:HB3	2.13	0.48
2:B:410:ARG:HD2	2:B:1043:SER:HB2	1.96	0.47
2:C:680:THR:O	2:C:684:LEU:HB2	2.14	0.47
2:B:1159:VAL:HA	2:B:1164:TRP:CB	2.39	0.47
2:B:1171:ILE:CG2	2:B:1172:GLU:N	2.77	0.47
3:E:135:ALA:C	3:E:137:LEU:N	2.65	0.47
1:A:125:ASN:O	1:A:126:TYR:HB2	2.14	0.47
1:A:130:VAL:O	1:A:133:LEU:HB3	2.14	0.47
2:B:983:ILE:HA	2:B:986:ILE:CG2	2.44	0.47
2:C:442:PRO:HB3	2:C:478:ILE:HD11	1.96	0.47
2:C:694:ILE:HG22	2:C:695:ALA:N	2.25	0.47
1:A:527:ASN:CG	1:A:527:ASN:O	2.51	0.47
2:B:1270:LEU:HD12	2:B:1301:VAL:CG1	2.44	0.47
2:C:1078:TYR:O	2:C:1079:LEU:HB2	2.13	0.47
1:A:881:ILE:CA	1:A:900:GLN:O	2.52	0.47
3:E:161:ALA:O	3:E:162:GLY:C	2.53	0.47
2:C:772:TYR:HB2	2:C:775:VAL:HB	1.94	0.47
2:C:1113:LYS:O	2:C:1114:ARG:O	2.32	0.47
3:D:98:LEU:CB	3:D:99:PRO:HD2	2.42	0.47
2:C:617:ASP:HA	2:C:620:ILE:CG2	2.44	0.47
2:C:327:LEU:CG	2:C:328:GLY:N	2.77	0.47
2:B:297:ASN:C	2:B:297:ASN:OD1	2.51	0.47
2:C:302:ARG:CG	2:C:315:THR:HG22	2.39	0.47
1:A:182:ARG:O	1:A:217:HIS:HA	2.14	0.47
2:B:659:LEU:O	2:B:662:VAL:HB	2.14	0.47
2:B:307:VAL:HG12	2:B:309:TRP:O	2.13	0.47
2:B:1075:ARG:HH11	2:B:1075:ARG:HG3	1.80	0.47
1:A:333:GLN:CG	1:A:354:ILE:HG12	2.44	0.47
1:A:559:ILE:HD11	1:A:613:ILE:HD13	1.96	0.47
2:B:473:ALA:CB	2:B:761:SER:O	2.61	0.47
2:B:1261:SER:O	2:B:1263:TYR:N	2.40	0.47
2:B:961:SER:O	2:B:964:VAL:N	2.46	0.47
2:C:1206:PHE:CE1	2:C:1232:PRO:HD3	2.49	0.47
2:C:1246:VAL:HG12	2:C:1247:ASN:N	2.29	0.47
1:A:61:ASN:O	1:A:62:PHE:CB	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:869:ILE:C	1:A:871:VAL:H	2.17	0.47
2:C:1234:GLN:HB2	2:C:1235:PRO:HD2	1.96	0.47
2:C:1101:TYR:HB3	2:C:1140:THR:O	2.14	0.47
1:A:752:VAL:O	1:A:753:GLN:HB2	2.13	0.47
2:B:382:HIS:C	2:B:383:SER:OG	2.51	0.47
2:B:772:TYR:HB2	2:B:775:VAL:HB	1.96	0.47
3:E:269:ILE:N	3:E:269:ILE:CD1	2.77	0.47
3:E:278:PHE:C	3:E:278:PHE:HD1	2.16	0.47
1:A:885:THR:OG1	1:A:899:VAL:HG11	2.14	0.47
2:B:1055:LEU:CD1	2:B:1055:LEU:O	2.38	0.47
2:C:384:MET:O	2:C:386:SER:N	2.47	0.47
1:A:73:ARG:CG	1:A:73:ARG:NH1	2.77	0.47
2:C:822:MET:HG2	2:C:823:ILE:HD12	1.96	0.47
1:A:267:THR:O	1:A:270:GLN:N	2.48	0.47
2:B:265:VAL:HG23	2:B:1304:MET:CA	2.43	0.47
3:D:20:ARG:HB2	3:D:25:ASN:HB3	1.96	0.47
2:B:719:ASN:O	2:B:720:PHE:HB3	2.14	0.47
1:A:21:GLN:O	1:A:21:GLN:OE1	2.32	0.47
2:B:934:LEU:HB3	2:B:935:GLN:H	1.48	0.47
2:B:208:LEU:CD1	2:B:1067:ILE:HD12	2.44	0.47
2:C:715:ASN:N	2:C:715:ASN:ND2	2.50	0.47
2:B:1146:GLY:O	2:B:1147:MET:O	2.33	0.47
2:B:1149:LYS:HE2	2:C:141:LEU:CD1	2.44	0.47
2:C:139:ASN:O	2:C:141:LEU:N	2.47	0.47
3:E:4:GLN:HE21	3:E:4:GLN:C	2.17	0.47
1:A:365:ILE:HG22	1:A:366:SER:N	2.29	0.47
2:B:196:LEU:HD23	2:B:197:PHE:HE2	1.79	0.47
1:A:840:MET:HE1	1:A:1047:ASN:ND2	2.30	0.47
1:A:150:PHE:C	1:A:152:SER:N	2.68	0.47
2:C:379:LEU:HD11	2:C:796:PRO:HB2	1.95	0.47
1:A:881:ILE:HD13	1:A:900:GLN:OE1	2.14	0.47
3:E:161:ALA:O	3:E:162:GLY:O	2.31	0.47
1:A:675:THR:CA	1:A:693:TYR:O	2.57	0.47
2:B:333:ARG:NH1	3:D:67:TYR:CD2	2.82	0.47
2:C:810:LEU:C	2:C:810:LEU:CD2	2.82	0.47
1:A:552:MET:HB2	1:A:576:ASN:OD1	2.13	0.47
1:A:53:LEU:HD23	1:A:171:ILE:HD12	1.94	0.47
1:A:277:ALA:HB3	1:A:319:MET:HE2	1.94	0.47
3:D:198:ILE:HD12	3:D:198:ILE:H	1.79	0.47
3:E:178:LYS:HA	3:E:250:ARG:O	2.14	0.47
3:E:274:SER:O	3:E:277:GLU:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:104:ARG:HA	3:E:104:ARG:HD3	1.70	0.47
2:B:797:SER:O	2:B:798:THR:C	2.51	0.47
2:B:1184:TYR:CZ	2:B:1207:MET:HB2	2.49	0.47
2:C:1298:PHE:O	2:C:1299:SER:HB2	2.15	0.47
2:C:88:LYS:HG2	2:C:158:SER:HB3	1.96	0.47
3:D:229:PHE:CD1	3:D:229:PHE:C	2.84	0.47
2:C:476:SER:OG	2:C:477:SER:N	2.46	0.47
2:B:656:VAL:CG1	2:B:684:LEU:HD13	2.34	0.47
3:E:278:PHE:CD1	3:E:278:PHE:O	2.66	0.47
1:A:111:LEU:HD13	1:A:142:ASN:CB	2.41	0.47
1:A:99:VAL:HG23	1:A:122:ARG:CZ	2.43	0.47
1:A:130:VAL:HG13	2:B:1332:ASN:ND2	2.29	0.47
2:C:226:PRO:HB2	2:C:250:GLY:HA3	1.95	0.47
2:B:720:PHE:HA	2:B:727:PHE:CE2	2.49	0.47
2:C:801:SER:O	2:C:805:SER:N	2.47	0.47
3:D:104:ARG:HH11	3:D:104:ARG:HG2	1.79	0.47
2:C:678:SER:O	2:C:681:LYS:HB3	2.14	0.47
2:C:284:ASN:OD1	2:C:284:ASN:N	2.44	0.47
1:A:434:GLN:CA	1:A:434:GLN:HE21	2.26	0.47
2:C:540:PHE:CZ	2:C:600:ILE:HG13	2.50	0.47
1:A:113:TYR:C	1:A:115:TRP:N	2.65	0.47
1:A:261:ILE:HD11	1:A:326:LEU:CD1	2.44	0.47
2:C:913:ASN:C	2:C:915:VAL:HG23	2.34	0.47
3:D:177:ALA:O	3:D:252:LEU:N	2.28	0.47
2:C:767:LEU:HD13	2:C:768:CYS:CA	2.44	0.47
2:C:1328:ILE:O	2:C:1329:ASN:C	2.52	0.47
2:B:1266:ASP:O	2:B:1267:THR:C	2.53	0.47
3:D:153:TYR:O	3:D:154:ALA:C	2.50	0.47
3:D:214:ARG:HH11	3:D:214:ARG:HG3	1.79	0.47
2:C:752:VAL:CG2	2:C:1001:THR:HB	2.44	0.47
2:C:648:PHE:CD2	2:C:699:THR:HG23	2.47	0.47
3:D:221:ARG:NH1	3:D:225:ARG:CD	2.74	0.47
2:B:171:GLU:HG3	2:B:1211:LEU:CB	2.45	0.47
2:C:966:GLN:OE1	2:C:1063:THR:CB	2.60	0.47
3:E:153:TYR:CD2	3:E:258:ASN:HB2	2.49	0.47
2:B:408:ILE:O	2:B:412:LEU:HB2	2.14	0.47
3:D:144:ARG:O	3:D:145:TYR:HD1	1.98	0.47
1:A:963:TYR:HE1	1:A:1050:SER:HG	1.61	0.47
2:C:327:LEU:HG	2:C:328:GLY:H	1.78	0.47
2:B:443:VAL:HG22	2:B:444:SER:H	1.79	0.47
3:D:10:THR:CG2	3:D:201:PHE:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:259:MET:HE1	2:C:1051:GLN:HG2	1.97	0.47
1:A:179:TYR:CD1	1:A:180:ASN:N	2.83	0.47
2:B:413:MET:HG2	2:B:1019:ILE:HG21	1.97	0.47
2:C:1156:ILE:HA	2:C:1159:VAL:CG2	2.42	0.47
1:A:292:ARG:HH12	1:A:775:ASP:HA	1.79	0.47
2:B:377:LYS:NZ	2:B:377:LYS:CB	2.73	0.47
2:B:652:PHE:HE2	2:B:687:LEU:O	1.97	0.47
2:B:1137:VAL:CG2	2:B:1164:TRP:NE1	2.78	0.47
2:C:540:PHE:HB3	2:C:548:TYR:HB2	1.95	0.47
3:E:228:LEU:HA	3:E:231:MET:HB3	1.96	0.47
3:E:84:VAL:O	3:E:85:ASN:C	2.52	0.47
1:A:113:TYR:O	1:A:114:ASN:HB3	2.13	0.47
1:A:192:VAL:CG1	1:A:193:ASN:H	2.28	0.47
1:A:355:PHE:HB3	1:A:356:THR:H	1.49	0.47
1:A:114:ASN:C	1:A:114:ASN:OD1	2.53	0.47
2:B:879:THR:HB	2:B:880:PRO:CD	2.45	0.47
3:D:38:GLU:O	3:D:175:LYS:CA	2.63	0.47
2:B:252:LEU:HA	2:B:255:LEU:HB3	1.97	0.47
2:C:385:ILE:H	2:C:708:THR:HB	1.80	0.47
2:B:855:TYR:CE2	2:B:860:ARG:HG3	2.50	0.47
2:B:1204:LEU:HD11	2:B:1206:PHE:CE2	2.49	0.47
1:A:461:ARG:C	1:A:463:ASP:N	2.66	0.47
2:B:1282:ALA:O	2:B:1283:ASN:CB	2.62	0.47
2:B:1276:LEU:O	2:B:1290:LYS:HB2	2.14	0.47
2:B:266:ILE:O	2:B:267:VAL:C	2.52	0.47
2:C:1290:LYS:HB2	2:C:1290:LYS:HZ2	1.77	0.47
2:B:720:PHE:CD2	2:B:722:GLY:N	2.79	0.47
1:A:609:SER:O	1:A:610:ALA:HB2	2.15	0.47
2:C:772:TYR:HB3	2:C:773:PRO:CD	2.45	0.47
3:E:221:ARG:HG3	3:E:222:ASP:N	2.30	0.47
2:B:574:LYS:HG3	2:B:575:TRP:N	2.26	0.47
2:C:282:VAL:HG21	2:C:304:PHE:HE2	1.80	0.47
1:A:536:TYR:CE1	1:A:540:LYS:HG3	2.50	0.47
3:D:197:LYS:O	3:D:198:ILE:C	2.52	0.47
2:C:612:PHE:N	2:C:612:PHE:CD2	2.83	0.47
2:C:1309:ILE:O	2:C:1309:ILE:HG22	2.14	0.47
2:B:636:PRO:HD2	2:B:706:TYR:CD2	2.49	0.47
2:C:237:VAL:CG1	2:C:238:THR:H	2.22	0.47
2:B:732:TYR:C	2:B:744:ILE:HG12	2.35	0.47
2:C:232:LEU:HD12	2:C:232:LEU:O	2.14	0.47
2:C:1119:TYR:OH	2:C:1121:HIS:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:733:VAL:HG21	2:B:741:TYR:CD2	2.50	0.47
1:A:779:ASN:HD22	1:A:779:ASN:H	1.63	0.47
2:C:657:ALA:O	2:C:661:ASN:N	2.35	0.47
2:B:649:ALA:HB1	2:B:692:ASP:HA	1.97	0.47
2:C:557:THR:CA	2:C:587:ALA:HB2	2.44	0.47
3:D:28:PRO:CB	3:D:226:MET:HG3	2.45	0.47
2:C:370:VAL:O	2:C:370:VAL:HG12	2.14	0.47
2:B:443:VAL:HG22	2:B:444:SER:N	2.30	0.47
1:A:161:TYR:CD2	1:A:161:TYR:N	2.82	0.47
2:B:382:HIS:O	2:B:383:SER:OG	2.33	0.47
2:B:704:VAL:HA	2:B:707:ALA:CB	2.44	0.47
2:B:1133:GLY:O	2:B:1134:ARG:O	2.32	0.47
2:B:1076:ILE:HB	2:B:1166:VAL:CG2	2.45	0.47
1:A:840:MET:HE1	1:A:1043:LEU:HD21	1.95	0.47
3:D:234:ALA:CB	3:D:271:TYR:CE1	2.97	0.47
1:A:418:GLY:C	1:A:681:ALA:HB2	2.33	0.47
2:B:419:TYR:CB	2:B:1005:LEU:HD22	2.45	0.47
3:E:198:ILE:O	3:E:199:LEU:C	2.53	0.47
2:B:1065:PRO:O	2:B:1067:ILE:N	2.47	0.47
1:A:53:LEU:CD2	1:A:171:ILE:HD11	2.45	0.47
1:A:869:ILE:O	1:A:872:VAL:HG12	2.15	0.47
2:C:802:GLN:O	2:C:805:SER:HB3	2.15	0.47
2:B:217:THR:HG22	2:B:217:THR:O	2.15	0.47
2:C:924:ASP:C	2:C:926:VAL:H	2.17	0.47
1:A:316:TYR:O	1:A:316:TYR:CD2	2.68	0.47
2:B:409:ILE:O	2:B:413:MET:HB2	2.14	0.47
2:B:410:ARG:HG2	2:B:410:ARG:HH11	1.79	0.47
2:C:1076:ILE:HD11	2:C:1168:ILE:HD12	1.96	0.47
2:C:733:VAL:CG1	2:C:1022:ILE:HG23	2.33	0.47
2:C:228:VAL:CG2	2:C:249:SER:O	2.63	0.47
3:D:79:ILE:O	3:D:79:ILE:CG1	2.63	0.47
1:A:418:GLY:O	1:A:681:ALA:CA	2.62	0.47
2:B:760:THR:O	2:B:762:ILE:N	2.37	0.47
2:B:806:VAL:HG23	2:B:997:TYR:CE2	2.33	0.47
1:A:976:ALA:O	1:A:978:LYS:N	2.48	0.47
2:B:1272:ARG:HD2	3:D:194:VAL:HG12	1.97	0.47
3:D:193:VAL:O	3:D:194:VAL:C	2.52	0.47
2:B:280:THR:HA	2:B:283:ASN:HB2	1.97	0.47
3:D:12:LEU:HD23	3:D:13:GLU:N	2.30	0.47
2:B:284:ASN:N	2:B:284:ASN:OD1	2.48	0.47
2:B:409:ILE:CD1	2:B:1040:PHE:HE1	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1042:TRP:O	2:B:1043:SER:HB3	2.15	0.47
2:C:1150:LEU:HD12	2:C:1151:VAL:HA	1.89	0.47
1:A:1047:ASN:C	1:A:1047:ASN:OD1	2.52	0.47
2:C:336:TYR:CD1	3:E:191:ARG:NH2	2.81	0.47
2:B:863:LEU:N	2:B:863:LEU:CD1	2.30	0.47
1:A:235:ILE:HD12	1:A:259:ARG:HG2	1.96	0.47
2:B:755:LEU:O	2:B:757:ILE:N	2.48	0.47
1:A:335:LEU:O	1:A:338:ALA:N	2.47	0.47
1:A:925:ILE:O	1:A:939:GLN:NE2	2.43	0.47
2:C:1180:PRO:CD	2:C:1208:ASP:HB3	2.38	0.47
2:B:271:THR:HG23	2:B:292:ASN:HB2	1.96	0.47
3:D:130:PHE:C	3:D:132:ALA:N	2.68	0.47
2:B:1119:TYR:CE2	2:B:1121:HIS:HB2	2.50	0.47
2:C:255:LEU:CD2	2:C:1055:LEU:HD22	2.45	0.46
2:B:694:ILE:O	2:B:698:HIS:CB	2.63	0.46
1:A:435:ILE:HA	1:A:438:LYS:HE3	1.97	0.46
2:C:901:VAL:HG13	2:C:928:ARG:O	2.15	0.46
2:B:1110:LEU:HD23	2:B:1111:ALA:N	2.30	0.46
2:C:208:LEU:CB	2:C:221:LEU:HD21	2.41	0.46
2:C:226:PRO:HG2	2:C:251:LEU:CD1	2.45	0.46
2:B:1283:ASN:O	2:B:1285:GLN:N	2.48	0.46
2:B:1275:ASP:CB	3:D:191:ARG:HD2	2.45	0.46
1:A:655:GLU:O	1:A:659:ASN:HB2	2.15	0.46
2:B:419:TYR:CB	2:B:1005:LEU:CD2	2.93	0.46
2:C:378:ALA:O	2:C:381:ALA:HB3	2.15	0.46
2:C:489:MET:CE	2:C:492:VAL:H	2.28	0.46
2:C:1001:THR:O	2:C:1002:LEU:O	2.33	0.46
2:B:143:VAL:HG13	2:B:1316:ALA:HB1	1.96	0.46
2:C:687:LEU:HD13	2:C:687:LEU:C	2.35	0.46
3:D:11:THR:HG22	3:D:219:ARG:CZ	2.46	0.46
2:C:617:ASP:O	2:C:620:ILE:CG2	2.63	0.46
2:C:150:LEU:CD1	2:C:400:GLU:HB2	2.45	0.46
3:E:3:GLN:HG3	3:E:3:GLN:O	2.16	0.46
3:E:164:ASP:O	3:E:166:GLU:N	2.48	0.46
2:C:742:LYS:HG3	2:C:742:LYS:O	2.14	0.46
2:B:421:ARG:HG3	2:B:421:ARG:HH11	1.79	0.46
2:C:192:PRO:O	2:C:193:THR:C	2.54	0.46
2:C:260:THR:HG22	2:C:1051:GLN:HE21	1.78	0.46
1:A:651:ASN:O	1:A:652:HIS:CB	2.62	0.46
2:B:1074:VAL:HG21	2:B:1193:ILE:HD11	1.95	0.46
1:A:460:VAL:CG1	1:A:685:PRO:HG2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:761:SER:O	2:B:761:SER:OG	2.28	0.46
2:C:124:GLN:O	2:C:124:GLN:OE1	2.30	0.46
2:B:540:PHE:CZ	2:B:600:ILE:HG13	2.50	0.46
1:A:792:ILE:HG23	1:A:796:PHE:CD2	2.50	0.46
2:C:320:GLN:N	2:C:320:GLN:OE1	2.48	0.46
2:C:558:TYR:N	2:C:558:TYR:HD1	2.13	0.46
2:B:190:VAL:HG12	2:B:194:VAL:HG21	1.91	0.46
1:A:983:GLU:O	1:A:984:GLU:C	2.53	0.46
2:C:1180:PRO:HB2	2:C:1212:ARG:HH12	1.79	0.46
3:D:52:PRO:HB2	3:D:136:LYS:HD2	1.96	0.46
2:C:266:ILE:O	2:C:267:VAL:C	2.54	0.46
2:C:153:ASP:O	2:C:154:PHE:CD1	2.68	0.46
2:C:742:LYS:HA	2:C:743:PRO:HD2	1.81	0.46
2:C:972:PRO:O	2:C:973:THR:C	2.54	0.46
2:C:217:THR:HG21	2:C:257:LYS:NZ	2.30	0.46
1:A:820:VAL:O	1:A:821:ARG:CB	2.62	0.46
2:B:791:ILE:CG2	2:B:792:VAL:N	2.78	0.46
1:A:648:VAL:O	1:A:692:ILE:N	2.46	0.46
2:B:1158:SER:O	2:B:1159:VAL:C	2.47	0.46
1:A:189:MET:HE3	1:A:192:VAL:HG11	1.86	0.46
1:A:71:LEU:O	1:A:172:PHE:CE1	2.59	0.46
2:B:248:VAL:HG22	2:B:970:LEU:HD13	1.98	0.46
2:B:921:ASP:O	2:B:922:TYR:CG	2.68	0.46
2:B:1283:ASN:O	2:B:1283:ASN:CG	2.53	0.46
2:C:1278:TYR:CB	2:C:1286:VAL:HG11	2.45	0.46
3:E:110:VAL:CG1	3:E:111:ILE:N	2.68	0.46
3:D:65:ASN:HB2	3:D:111:ILE:O	2.13	0.46
2:C:199:TYR:CZ	2:C:1246:VAL:HG13	2.50	0.46
2:B:1061:LEU:CD2	2:B:1061:LEU:C	2.84	0.46
1:A:538:ALA:O	1:A:542:LEU:HB2	2.16	0.46
2:C:543:TRP:N	2:C:543:TRP:CD1	2.84	0.46
1:A:407:GLU:HA	1:A:826:PHE:CE2	2.49	0.46
2:B:233:VAL:HG22	2:B:234:PRO:O	2.16	0.46
2:C:708:THR:HG23	2:C:709:MET:N	2.31	0.46
2:C:625:PRO:O	2:C:626:ARG:CB	2.58	0.46
2:C:1245:ILE:C	2:C:1246:VAL:HG23	2.35	0.46
1:A:168:ASN:HD22	1:A:168:ASN:N	2.00	0.46
2:C:1249:ASN:O	2:C:1250:GLU:CB	2.63	0.46
1:A:868:ASP:HB3	1:A:920:LEU:CD1	2.46	0.46
2:B:1022:ILE:O	2:B:1023:ARG:C	2.53	0.46
3:E:102:SER:O	3:E:104:ARG:NH1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:594:LEU:HD12	2:B:594:LEU:C	2.36	0.46
2:C:1240:ARG:HG3	2:C:1240:ARG:HH11	1.80	0.46
2:C:946:LEU:CD2	2:C:946:LEU:O	2.63	0.46
2:C:958:ILE:O	2:C:959:GLN:HG3	2.15	0.46
1:A:774:VAL:HG13	1:A:820:VAL:HG22	1.96	0.46
1:A:184:TRP:O	1:A:186:ALA:N	2.48	0.46
2:C:895:VAL:HG23	2:C:915:VAL:CG1	2.43	0.46
2:B:948:ILE:CG2	2:B:949:ALA:H	2.29	0.46
2:C:229:GLN:HG3	2:C:230:ASP:N	2.31	0.46
1:A:523:MET:HE3	1:A:574:ARG:HH21	1.78	0.46
1:A:602:PHE:CE1	1:A:608:ILE:HD11	2.51	0.46
2:B:330:THR:CG2	2:B:345:GLY:O	2.63	0.46
3:E:37:TRP:CE3	3:E:177:ALA:HB2	2.50	0.46
1:A:610:ALA:O	1:A:612:PHE:N	2.49	0.46
2:B:334:LEU:O	2:B:334:LEU:HD12	2.14	0.46
1:A:981:ARG:HH11	1:A:988:LYS:HE2	1.81	0.46
1:A:419:TYR:C	1:A:420:VAL:HG13	2.35	0.46
2:B:1103:HIS:CE1	2:C:388:GLN:HG3	2.51	0.46
2:C:524:GLU:O	2:C:527:ARG:HD3	2.15	0.46
3:E:213:LEU:HD12	3:E:217:LYS:HE3	1.98	0.46
2:B:1011:SER:O	2:B:1012:LEU:O	2.34	0.46
1:A:620:TYR:CZ	1:A:622:ASP:HA	2.51	0.46
2:C:281:VAL:CG1	2:C:302:ARG:HD3	2.45	0.46
2:C:948:ILE:HG23	2:C:949:ALA:N	2.30	0.46
2:B:835:TYR:CE1	2:B:941:TYR:CD1	3.04	0.46
3:E:107:LEU:O	3:E:107:LEU:HD13	2.16	0.46
2:C:1180:PRO:HB2	2:C:1212:ARG:NH1	2.31	0.46
2:B:728:LYS:HA	2:B:728:LYS:HD3	1.60	0.46
2:C:612:PHE:CD1	2:C:1331:ARG:NH1	2.84	0.46
2:B:1126:MET:SD	2:B:1126:MET:O	2.74	0.46
1:A:331:ARG:H	1:A:331:ARG:HG2	1.41	0.46
2:C:1114:ARG:CZ	2:C:1116:ARG:HH12	2.28	0.46
2:C:577:GLN:O	2:C:580:TYR:N	2.48	0.46
2:B:205:ASN:HA	2:B:1239:ALA:O	2.16	0.46
1:A:708:ASN:HB2	1:A:1048:HIS:NE2	2.31	0.46
2:C:812:LYS:HE2	2:C:992:VAL:HB	1.96	0.46
2:C:1156:ILE:CA	2:C:1159:VAL:HG23	2.45	0.46
2:B:1319:ARG:HB3	2:B:1319:ARG:NH1	2.27	0.46
2:B:385:ILE:HD12	2:B:614:ARG:NH1	2.30	0.46
2:B:711:ASN:HD22	2:B:711:ASN:H	1.61	0.46
3:E:269:ILE:H	3:E:269:ILE:CD1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:ASN:H	1:A:143:TYR:HE2	1.64	0.46
1:A:192:VAL:O	1:A:194:HIS:N	2.48	0.46
2:C:385:ILE:HG13	2:C:386:SER:N	2.31	0.46
2:C:646:ASN:HD22	2:C:695:ALA:HB3	1.79	0.46
1:A:566:GLU:HG3	1:A:570:ASN:HB2	1.98	0.46
1:A:559:ILE:CG1	1:A:613:ILE:HG23	2.44	0.46
2:C:1294:ASP:O	2:C:1296:ILE:N	2.49	0.46
1:A:425:THR:HA	1:A:703:PHE:CD1	2.51	0.46
2:B:487:SER:HB2	2:B:488:PRO:HD2	1.96	0.46
2:B:495:LEU:HD12	2:B:496:LYS:H	1.81	0.46
1:A:894:LYS:CB	1:A:894:LYS:NZ	2.79	0.46
3:E:19:ILE:HG22	3:E:192:ASP:HB2	1.98	0.46
1:A:831:ARG:HD2	1:A:835:PHE:CD2	2.51	0.46
2:B:436:SER:C	2:B:438:ASN:H	2.18	0.46
2:B:461:ARG:HG3	2:B:461:ARG:NH1	2.31	0.46
2:C:500:GLU:HB3	2:C:502:PHE:CE2	2.51	0.46
2:C:314:ILE:O	2:C:316:ASN:N	2.48	0.46
1:A:971:LEU:HA	1:A:971:LEU:HD23	1.43	0.46
2:B:231:LEU:HB3	2:B:249:SER:CB	2.39	0.46
2:B:815:LEU:N	2:B:816:PRO:CD	2.78	0.46
2:C:649:ALA:CA	2:C:691:PHE:HE2	2.28	0.46
2:C:1236:ILE:CG2	2:C:1237:SER:N	2.47	0.46
2:B:1322:PRO:HG2	2:B:1328:ILE:HD11	1.98	0.46
1:A:21:GLN:C	1:A:23:ARG:H	2.18	0.46
3:E:255:ILE:O	3:E:255:ILE:CG2	2.62	0.46
3:E:201:PHE:HD1	3:E:220:ASN:HD22	1.58	0.46
3:E:17:PHE:CA	3:E:196:TRP:HE1	2.28	0.46
1:A:275:ILE:O	1:A:276:GLY:C	2.54	0.46
2:C:1240:ARG:HG3	2:C:1240:ARG:NH1	2.31	0.46
2:C:1258:VAL:O	2:C:1259:ALA:HB3	2.16	0.46
2:C:295:GLY:O	2:C:296:VAL:HG23	2.15	0.46
2:C:862:ARG:HE	2:C:948:ILE:CD1	2.28	0.46
1:A:819:LYS:HZ2	1:A:823:THR:HG22	1.81	0.46
2:C:547:GLU:HA	2:C:597:ALA:HB2	1.98	0.46
1:A:309:ASN:O	1:A:310:ASP:HB2	2.16	0.46
2:C:156:GLN:N	2:C:156:GLN:CD	2.69	0.46
1:A:150:PHE:O	1:A:153:VAL:N	2.48	0.46
1:A:194:HIS:CE1	1:A:198:LEU:HD12	2.51	0.46
1:A:74:LEU:CD1	1:A:83:ILE:HD13	2.46	0.46
2:B:357:VAL:HG13	2:B:358:LEU:N	2.29	0.46
3:D:79:ILE:O	3:D:80:SER:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:999:VAL:HG12	1:A:1002:ASP:H	1.81	0.46
1:A:1014:HIS:HA	1:A:1054:LYS:O	2.16	0.46
2:B:934:LEU:O	2:B:935:GLN:C	2.54	0.46
2:B:800:LEU:CD1	2:B:804:LEU:HG	2.46	0.46
2:C:720:PHE:O	2:C:721:SER:HB3	2.16	0.46
2:C:415:ALA:HB2	2:C:810:LEU:HD21	1.96	0.46
1:A:72:PHE:HE1	1:A:171:ILE:HG21	1.77	0.46
2:B:953:ASP:O	3:D:241:ASN:HB2	2.16	0.46
2:B:1032:ASP:O	2:B:1034:GLN:N	2.48	0.46
2:B:348:LEU:HD12	2:B:348:LEU:C	2.36	0.46
2:C:931:ASN:ND2	2:C:934:LEU:HA	2.30	0.46
2:B:581:LEU:HD23	2:B:745:ILE:HG22	1.98	0.46
1:A:391:ILE:HG22	1:A:392:VAL:N	2.31	0.46
2:C:816:PRO:HB3	2:C:986:ILE:CG2	2.46	0.46
2:B:274:MET:HB3	2:B:277:THR:HG21	1.97	0.46
1:A:447:THR:O	1:A:448:LYS:HB2	2.16	0.46
2:C:1028:VAL:HG12	2:C:1028:VAL:O	2.16	0.46
1:A:995:VAL:O	1:A:996:ASP:C	2.53	0.46
1:A:805:TYR:HE2	1:A:809:GLN:HG2	1.81	0.46
1:A:309:ASN:CG	1:A:309:ASN:O	2.54	0.46
1:A:472:LEU:CD2	1:A:475:ARG:NH2	2.78	0.46
1:A:235:ILE:HD12	1:A:259:ARG:CG	2.46	0.46
2:B:1287:GLY:C	2:B:1288:ILE:HD12	2.36	0.46
1:A:856:THR:N	1:A:916:ASN:O	2.48	0.46
3:E:253:GLU:HG3	3:E:254:TYR:HD2	1.71	0.46
2:C:165:THR:HG23	2:C:209:ASN:HB3	1.97	0.46
2:B:426:ILE:CG2	2:B:488:PRO:HD2	2.46	0.46
2:B:720:PHE:CE2	2:B:722:GLY:N	2.84	0.46
1:A:21:GLN:O	1:A:25:ILE:HD13	2.15	0.46
3:E:155:HIS:O	3:E:156:VAL:C	2.53	0.46
1:A:1034:ARG:HG2	1:A:1035:LEU:H	1.81	0.46
1:A:767:SER:O	1:A:768:GLU:HB3	2.16	0.46
2:B:453:LEU:O	2:B:455:GLN:N	2.49	0.46
2:C:816:PRO:HG3	2:C:987:ALA:HB2	1.97	0.46
3:E:49:ILE:H	3:E:49:ILE:HD12	1.81	0.46
1:A:786:ARG:CZ	1:A:786:ARG:HB2	2.46	0.45
2:B:652:PHE:CE2	2:B:691:PHE:CD1	2.83	0.45
1:A:435:ILE:HA	1:A:438:LYS:CE	2.46	0.45
2:C:264:LEU:HD11	2:C:365:LEU:HD22	1.97	0.45
2:B:226:PRO:O	2:B:227:LEU:HG	2.16	0.45
1:A:267:THR:O	1:A:268:TYR:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:353:PHE:CE2	2:C:1296:ILE:HG23	2.51	0.45
2:C:395:GLY:O	3:E:263:ALA:CB	2.60	0.45
2:B:720:PHE:HD2	2:B:721:SER:N	2.15	0.45
2:B:633:THR:CB	2:B:710:SER:OG	2.62	0.45
2:C:1113:LYS:O	2:C:1114:ARG:HB2	2.17	0.45
3:D:9:TYR:OH	3:D:122:TYR:HD1	1.99	0.45
2:B:453:LEU:C	2:B:455:GLN:N	2.69	0.45
2:B:274:MET:HB3	2:B:277:THR:CG2	2.45	0.45
3:E:181:SER:HB2	3:E:185:SER:CB	2.47	0.45
2:C:301:LEU:CD2	2:C:305:THR:HB	2.46	0.45
2:C:302:ARG:HH21	2:C:318:LEU:HB2	1.82	0.45
2:C:832:MET:HE1	2:C:946:LEU:CB	2.41	0.45
2:B:699:THR:O	2:B:703:SER:CB	2.63	0.45
1:A:457:ASN:HB3	1:A:687:SER:H	1.81	0.45
2:B:910:LEU:HD23	2:B:915:VAL:HB	1.97	0.45
2:C:225:ILE:HD13	2:C:1201:LEU:HD11	1.97	0.45
1:A:472:LEU:CD2	1:A:475:ARG:HH12	2.29	0.45
2:B:264:LEU:HD21	2:B:362:LEU:HA	1.97	0.45
2:B:335:ASP:H	2:B:342:THR:HG23	1.81	0.45
2:C:720:PHE:CD1	2:C:722:GLY:N	2.85	0.45
3:D:133:THR:O	3:D:136:LYS:HE2	2.15	0.45
2:C:173:GLN:HG2	2:C:174:PHE:CD2	2.51	0.45
1:A:849:ILE:HG23	1:A:918:ILE:CD1	2.46	0.45
2:B:438:ASN:HD21	2:B:441:ARG:HE	1.63	0.45
2:B:443:VAL:HG11	2:B:771:THR:HG23	1.98	0.45
2:B:1220:PRO:HA	2:B:1221:PRO:HD3	1.75	0.45
2:C:1077:MET:O	2:C:1229:LEU:HA	2.16	0.45
2:C:217:THR:HG21	2:C:257:LYS:CE	2.46	0.45
2:C:253:MET:CE	2:C:989:ILE:CD1	2.94	0.45
1:A:372:ARG:CB	1:A:772:TRP:CD1	2.99	0.45
2:B:144:ASN:ND2	2:B:144:ASN:H	2.14	0.45
1:A:442:VAL:HG22	1:A:625:PHE:CD2	2.51	0.45
2:B:1155:ILE:HG12	2:B:1164:TRP:HZ3	1.81	0.45
2:B:1191:GLU:O	2:C:138:PHE:CE2	2.69	0.45
1:A:460:VAL:HG11	1:A:685:PRO:HG2	1.98	0.45
3:E:84:VAL:CG1	3:E:85:ASN:N	2.67	0.45
2:C:849:MET:HB3	2:C:917:VAL:CG2	2.46	0.45
2:B:231:LEU:HB3	2:B:232:LEU:H	1.51	0.45
2:C:1058:GLY:O	2:C:1061:LEU:HB3	2.16	0.45
2:C:228:VAL:HG21	2:C:249:SER:O	2.16	0.45
2:B:830:VAL:CB	2:B:854:GLN:HE22	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:922:TYR:CD2	2:B:925:VAL:HG21	2.51	0.45
2:B:1298:PHE:O	2:B:1299:SER:CB	2.55	0.45
3:D:49:ILE:CD1	3:D:49:ILE:N	2.80	0.45
2:B:727:PHE:CD2	2:B:727:PHE:O	2.69	0.45
3:D:67:TYR:CE1	3:D:110:VAL:CG1	2.99	0.45
1:A:536:TYR:CE2	1:A:572:LEU:CD2	2.97	0.45
1:A:1017:ILE:O	1:A:1052:VAL:HB	2.15	0.45
2:B:206:ILE:O	2:B:207:ASP:O	2.34	0.45
1:A:969:THR:O	1:A:973:GLN:HG3	2.15	0.45
2:C:166:TYR:HE1	2:C:1241:SER:OG	1.99	0.45
2:C:296:VAL:O	2:C:297:ASN:HB2	2.17	0.45
2:C:193:THR:CG2	2:C:300:LEU:HD22	2.37	0.45
2:C:256:PHE:CA	2:C:259:MET:HB3	2.47	0.45
2:C:341:LYS:HB3	2:C:1306:THR:CG2	2.42	0.45
1:A:883:PRO:HB3	1:A:903:PRO:HG2	1.98	0.45
1:A:75:PRO:CG	1:A:76:LEU:N	2.80	0.45
2:B:892:VAL:HG12	2:B:894:VAL:HG23	1.98	0.45
2:C:643:THR:O	2:C:644:VAL:HB	2.16	0.45
3:D:156:VAL:HG13	3:D:157:GLY:N	2.32	0.45
2:B:208:LEU:HD13	2:B:1067:ILE:HD12	1.98	0.45
1:A:66:ASP:O	1:A:72:PHE:HE2	1.99	0.45
2:B:1179:THR:O	2:B:1181:SER:N	2.49	0.45
2:B:651:ARG:CD	2:B:651:ARG:C	2.81	0.45
1:A:401:ILE:HD13	1:A:823:THR:HG1	1.79	0.45
3:D:38:GLU:CB	3:D:176:ARG:CG	2.82	0.45
2:B:255:LEU:CD2	2:B:1059:LEU:HD23	2.46	0.45
2:C:384:MET:O	2:C:385:ILE:C	2.54	0.45
1:A:525:ARG:HB3	1:A:529:THR:OG1	2.17	0.45
1:A:569:VAL:CG1	1:A:570:ASN:N	2.78	0.45
2:B:212:PHE:C	2:B:212:PHE:HD1	2.20	0.45
3:D:152:ILE:HD12	3:D:152:ILE:HA	1.88	0.45
2:B:808:GLN:OE1	2:B:809:VAL:N	2.50	0.45
2:B:552:VAL:HG22	2:B:572:ASN:HB2	1.99	0.45
1:A:377:LEU:HB3	1:A:763:LYS:CB	2.47	0.45
2:B:800:LEU:HD11	2:B:804:LEU:HG	1.99	0.45
2:C:422:LEU:C	2:C:422:LEU:HD12	2.33	0.45
2:B:316:ASN:HA	2:B:319:GLN:HG2	1.99	0.45
2:C:612:PHE:N	2:C:612:PHE:HD2	2.13	0.45
1:A:166:ILE:HG23	1:A:166:ILE:O	2.16	0.45
3:D:28:PRO:HG2	3:D:223:VAL:HA	1.99	0.45
2:C:1184:TYR:O	2:C:1185:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:ILE:HA	1:A:346:ILE:HD13	1.88	0.45
1:A:477:TYR:CD2	1:A:477:TYR:C	2.90	0.45
2:B:409:ILE:HD13	2:B:1040:PHE:HE1	1.76	0.45
2:B:382:HIS:O	2:B:383:SER:HB3	2.16	0.45
1:A:628:MET:HE1	1:A:652:HIS:CD2	2.51	0.45
1:A:195:ILE:CG2	1:A:196:LEU:N	2.77	0.45
2:B:855:TYR:HB3	2:B:918:VAL:CG1	2.47	0.45
2:C:180:LEU:HD23	2:C:181:ARG:CA	2.40	0.45
2:B:736:SER:O	2:B:737:PRO:C	2.53	0.45
2:B:1327:ALA:O	2:B:1328:ILE:C	2.54	0.45
2:B:425:ILE:C	2:B:427:VAL:N	2.68	0.45
2:B:553:GLN:HA	2:B:553:GLN:OE1	2.17	0.45
3:E:250:ARG:NH1	3:E:267:ALA:HB1	2.32	0.45
2:B:469:ARG:O	2:B:472:GLU:CB	2.64	0.45
2:C:369:ASN:N	2:C:369:ASN:HD22	2.13	0.45
2:B:1093:PRO:HB2	2:B:1096:TYR:CE2	2.51	0.45
2:B:1007:THR:O	2:B:1008:LEU:C	2.55	0.45
2:C:632:GLN:HG3	2:C:632:GLN:H	1.62	0.45
2:B:409:ILE:HG12	2:B:627:ALA:HB2	1.99	0.45
2:C:1137:VAL:HG22	2:C:1138:HIS:N	2.32	0.45
1:A:752:VAL:HG12	1:A:753:GLN:N	2.24	0.45
1:A:746:PHE:O	1:A:784:ILE:HA	2.16	0.45
2:B:544:TYR:HH	2:B:662:VAL:HG13	1.78	0.45
3:E:179:PHE:O	3:E:249:ASP:HA	2.17	0.45
3:E:84:VAL:CG1	3:E:278:PHE:CD2	2.99	0.45
1:A:118:GLY:C	1:A:120:TYR:N	2.70	0.45
1:A:150:PHE:CD2	1:A:215:VAL:HG21	2.50	0.45
1:A:200:ARG:C	1:A:201:LYS:HD3	2.37	0.45
1:A:211:TRP:CH2	1:A:216:LEU:HD12	2.51	0.45
1:A:327:TYR:HB3	1:A:355:PHE:HE2	1.81	0.45
2:B:255:LEU:HD21	2:B:1059:LEU:CD2	2.46	0.45
1:A:95:TRP:O	1:A:96:MET:C	2.54	0.45
2:B:1288:ILE:O	2:B:1289:PRO:C	2.54	0.45
2:B:265:VAL:HB	2:B:1304:MET:HE3	1.99	0.45
2:B:266:ILE:HG13	2:B:266:ILE:O	2.17	0.45
1:A:792:ILE:HG23	1:A:796:PHE:HD2	1.82	0.45
1:A:604:ILE:O	1:A:605:ASP:HB3	2.16	0.45
1:A:678:LEU:C	1:A:678:LEU:HD23	2.36	0.45
1:A:208:HIS:HE1	1:A:234:LYS:HE2	1.82	0.45
2:C:170:TYR:CD1	2:C:201:ALA:HB2	2.45	0.45
3:D:62:VAL:CG1	3:D:92:ARG:HD3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:198:ILE:CD1	3:D:198:ILE:H	2.29	0.45
2:C:1072:ASN:O	2:C:1171:ILE:HG23	2.17	0.45
2:C:1112:ASN:O	2:C:1113:LYS:HB2	2.17	0.45
2:B:299:ALA:O	2:B:301:LEU:N	2.49	0.45
1:A:791:ARG:CG	1:A:791:ARG:HH11	2.26	0.45
1:A:779:ASN:ND2	1:A:779:ASN:N	2.64	0.45
2:C:1199:GLY:O	2:C:1200:LYS:O	2.34	0.45
2:B:566:PHE:HD1	2:B:592:VAL:CG2	2.30	0.45
2:C:163:TYR:CD2	2:C:354:ALA:HB2	2.52	0.45
2:C:259:MET:CE	2:C:1047:LEU:HD22	2.46	0.45
2:C:1155:ILE:HG13	2:C:1164:TRP:HZ3	1.80	0.45
1:A:677:LEU:HD23	1:A:677:LEU:HA	1.76	0.45
2:C:404:ASP:HB3	2:C:407:HIS:HB3	1.99	0.45
2:B:350:ILE:C	2:B:351:ASP:O	2.54	0.45
2:B:491:ASN:HD22	2:B:491:ASN:HA	1.59	0.45
1:A:1042:VAL:HG22	1:A:1042:VAL:O	2.17	0.45
2:C:115:GLN:HB3	2:C:117:ARG:HH12	1.74	0.45
1:A:550:TYR:N	1:A:550:TYR:CD2	2.82	0.45
2:B:175:THR:O	2:B:176:LYS:HB2	2.16	0.45
1:A:871:VAL:HG12	1:A:871:VAL:O	2.16	0.45
2:C:884:ALA:O	2:C:888:GLN:CG	2.60	0.45
2:B:836:GLN:OE1	2:B:940:ARG:O	2.35	0.45
1:A:831:ARG:HG3	1:A:1033:ILE:CD1	2.46	0.45
2:C:494:GLU:CG	2:C:757:ILE:HG12	2.47	0.45
1:A:271:ARG:HB3	1:A:271:ARG:CZ	2.47	0.45
1:A:671:VAL:O	1:A:671:VAL:HG12	2.17	0.45
2:C:310:LEU:HA	2:C:310:LEU:HD23	1.49	0.45
2:C:1075:ARG:NH1	2:C:1075:ARG:CG	2.71	0.45
2:B:1157:ALA:HB2	2:C:137:ILE:HG12	1.98	0.45
1:A:1024:LEU:CD1	1:A:1025:ILE:N	2.77	0.45
1:A:212:HIS:HB2	1:A:213:TRP:CE3	2.52	0.45
2:C:1325:VAL:O	2:C:1326:ARG:HG2	2.16	0.45
1:A:500:ASP:HA	1:A:523:MET:HE1	1.98	0.45
1:A:861:ILE:CD1	1:A:904:PHE:CZ	3.00	0.45
1:A:703:PHE:O	1:A:704:PRO:C	2.56	0.45
2:B:800:LEU:O	2:B:800:LEU:HD12	2.17	0.45
2:C:198:LYS:CB	2:C:198:LYS:HZ3	2.28	0.45
3:D:90:PHE:HB2	3:D:138:GLY:HA2	1.98	0.45
1:A:849:ILE:HG23	1:A:918:ILE:HD12	1.99	0.45
2:C:577:GLN:C	2:C:579:LEU:N	2.71	0.45
2:B:184:GLU:O	2:B:188:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:812:LYS:HE3	2:C:812:LYS:HB2	1.71	0.45
1:A:303:THR:HA	1:A:306:GLN:HB3	1.99	0.45
2:B:698:HIS:O	2:B:702:LEU:N	2.50	0.45
1:A:114:ASN:N	1:A:143:TYR:CE2	2.85	0.45
2:C:897:TYR:HD2	2:C:919:MET:CB	2.30	0.45
1:A:463:ASP:O	1:A:464:ASP:C	2.55	0.45
2:C:164:LEU:HD13	2:C:1296:ILE:HG21	1.98	0.45
1:A:385:HIS:HB2	1:A:801:ASN:ND2	2.32	0.45
2:C:393:ASN:ND2	3:E:263:ALA:HB2	2.32	0.45
2:C:124:GLN:C	2:C:124:GLN:CD	2.76	0.45
2:C:775:VAL:HG12	2:C:776:ARG:N	2.32	0.45
2:C:641:ARG:HG2	2:C:642:GLY:H	1.81	0.45
1:A:317:ARG:CZ	1:A:317:ARG:CB	2.95	0.45
2:C:657:ALA:O	2:C:661:ASN:CB	2.65	0.45
2:C:459:ALA:O	2:C:463:VAL:HG23	2.17	0.44
2:B:547:GLU:HA	2:B:597:ALA:CB	2.46	0.44
1:A:1047:ASN:O	1:A:1047:ASN:OD1	2.34	0.44
1:A:134:VAL:CG2	1:A:135:VAL:N	2.79	0.44
2:C:833:ARG:HD2	2:C:922:TYR:CE1	2.53	0.44
2:C:887:VAL:HG13	2:C:893:ALA:N	2.32	0.44
2:B:986:ILE:HG23	2:B:987:ALA:N	2.31	0.44
1:A:69:HIS:ND1	1:A:70:PRO:O	2.45	0.44
2:B:853:ASP:O	2:B:856:LEU:HB2	2.17	0.44
2:B:895:VAL:HG22	2:B:917:VAL:HA	1.98	0.44
1:A:474:TYR:HD1	1:A:499:VAL:HG22	1.81	0.44
1:A:573:ARG:HD3	1:A:584:ILE:HD12	1.98	0.44
2:B:243:GLN:HA	2:B:246:GLU:CB	2.40	0.44
2:B:212:PHE:CE2	2:B:263:ARG:NH1	2.85	0.44
2:B:367:GLU:HB3	3:D:80:SER:O	2.18	0.44
3:D:213:LEU:HD11	3:D:217:LYS:HE3	1.99	0.44
3:E:37:TRP:CB	3:E:175:LYS:HD2	2.46	0.44
3:E:43:GLU:HA	3:E:172:MET:O	2.16	0.44
1:A:988:LYS:O	1:A:990:ALA:N	2.50	0.44
2:C:282:VAL:HG21	2:C:304:PHE:CE2	2.51	0.44
2:C:885:ALA:O	2:C:888:GLN:HB2	2.17	0.44
3:E:153:TYR:CD1	3:E:156:VAL:HG21	2.52	0.44
2:C:839:ALA:H	2:C:935:GLN:HG2	1.81	0.44
2:B:141:LEU:HD22	2:B:141:LEU:H	1.82	0.44
2:C:995:THR:C	2:C:997:TYR:H	2.21	0.44
3:E:165:ALA:O	3:E:166:GLU:C	2.56	0.44
3:D:273:LEU:HD23	3:D:274:SER:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1106:PHE:N	2:C:1106:PHE:CD2	2.85	0.44
2:B:605:ARG:HH11	2:B:605:ARG:HG3	1.82	0.44
2:B:723:ASN:C	2:B:723:ASN:HD22	2.19	0.44
2:B:1026:GLY:O	2:B:1028:VAL:N	2.44	0.44
1:A:987:LEU:HD23	1:A:987:LEU:N	2.32	0.44
2:C:551:PHE:CZ	2:C:588:LEU:HD23	2.52	0.44
2:C:874:ILE:CG2	2:C:902:ILE:HG13	2.47	0.44
2:B:812:LYS:O	2:B:812:LYS:HG2	2.17	0.44
2:C:164:LEU:HD12	2:C:164:LEU:H	1.82	0.44
1:A:426:ARG:HB3	1:A:705:PHE:HB2	1.99	0.44
2:B:208:LEU:O	2:B:209:ASN:C	2.56	0.44
1:A:65:THR:HG23	1:A:66:ASP:H	1.83	0.44
1:A:577:ARG:O	1:A:578:ASN:CB	2.65	0.44
2:C:1122:PRO:HB2	2:C:1123:PRO:CD	2.46	0.44
2:C:1041:ARG:NH1	2:C:1041:ARG:CG	2.79	0.44
1:A:424:PRO:HG3	1:A:706:TYR:CZ	2.52	0.44
1:A:375:HIS:O	1:A:768:GLU:HA	2.17	0.44
2:B:441:ARG:HH21	2:B:773:PRO:HB3	1.83	0.44
2:C:301:LEU:HD21	2:C:305:THR:HB	2.00	0.44
2:C:255:LEU:HD11	2:C:1059:LEU:HB3	2.00	0.44
2:C:828:ASP:O	2:C:829:SER:CB	2.65	0.44
2:C:1152:ALA:O	2:C:1155:ILE:HG23	2.09	0.44
1:A:772:TRP:CZ2	1:A:784:ILE:HD11	2.52	0.44
1:A:406:VAL:O	1:A:407:GLU:C	2.55	0.44
2:C:848:ARG:C	2:C:849:MET:HG2	2.34	0.44
3:D:239:VAL:HG22	3:D:252:LEU:HD13	1.98	0.44
2:B:579:LEU:HD11	2:B:584:HIS:CB	2.47	0.44
2:B:1113:LYS:O	2:B:1114:ARG:HG3	2.18	0.44
1:A:73:ARG:C	1:A:75:PRO:CD	2.83	0.44
1:A:239:TRP:CD1	1:A:279:TYR:HD1	2.34	0.44
3:D:270:THR:OG1	3:D:271:TYR:N	2.50	0.44
2:B:431:THR:HG23	2:B:432:GLY:N	2.32	0.44
3:E:28:PRO:HB3	3:E:226:MET:HG3	1.99	0.44
2:C:775:VAL:CG1	2:C:776:ARG:N	2.80	0.44
3:E:15:PHE:HZ	3:E:107:LEU:HD21	1.82	0.44
1:A:53:LEU:CG	1:A:171:ILE:HD11	2.47	0.44
2:B:174:PHE:C	2:B:175:THR:HG23	2.38	0.44
2:C:612:PHE:HE2	2:C:635:ILE:HB	1.82	0.44
1:A:493:LEU:O	1:A:496:CYS:HB3	2.17	0.44
2:B:1141:ILE:HG22	2:B:1144:ARG:HB2	1.98	0.44
2:B:522:PRO:CG	2:B:523:THR:N	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:ILE:O	2:C:980:ARG:C	2.54	0.44
1:A:844:LEU:HD23	1:A:1019:PRO:HA	1.99	0.44
2:C:926:VAL:HG21	2:C:937:ASN:C	2.36	0.44
2:B:453:LEU:HA	2:B:456:ASN:HD22	1.81	0.44
3:E:276:HIS:O	3:E:277:GLU:C	2.55	0.44
3:D:123:ASP:C	3:D:125:ALA:H	2.21	0.44
2:C:297:ASN:O	2:C:299:ALA:N	2.50	0.44
2:C:865:ILE:HD11	2:C:1042:TRP:HB2	1.99	0.44
1:A:971:LEU:CB	1:A:982:VAL:HG21	2.48	0.44
2:C:849:MET:HB3	2:C:917:VAL:O	2.17	0.44
2:B:253:MET:HE3	2:B:989:ILE:HD12	1.99	0.44
1:A:265:SER:O	1:A:266:SER:HB3	2.18	0.44
3:D:156:VAL:HG23	3:D:228:LEU:HD13	1.99	0.44
3:D:213:LEU:O	3:D:213:LEU:HD13	2.13	0.44
2:B:419:TYR:HB3	2:B:1005:LEU:CD2	2.47	0.44
2:B:502:PHE:CD2	2:B:502:PHE:N	2.86	0.44
2:B:540:PHE:O	2:B:541:SER:C	2.54	0.44
2:C:397:LEU:HD12	2:C:398:ARG:O	2.18	0.44
3:E:167:ARG:C	3:E:169:ALA:H	2.21	0.44
1:A:895:LYS:HD3	1:A:895:LYS:HA	1.78	0.44
3:E:199:LEU:O	3:E:200:ALA:C	2.55	0.44
1:A:419:TYR:CA	1:A:679:LYS:O	2.65	0.44
3:D:65:ASN:HD22	3:D:112:TYR:HE1	1.61	0.44
2:B:175:THR:CG2	2:B:200:GLY:HA3	2.42	0.44
2:C:1171:ILE:HG23	2:C:1172:GLU:N	2.32	0.44
3:E:56:LEU:HD13	3:E:56:LEU:N	2.31	0.44
3:E:140:ALA:HB2	3:E:281:LYS:HG2	2.00	0.44
3:E:65:ASN:HD22	3:E:112:TYR:HE1	1.64	0.44
2:B:581:LEU:O	2:B:582:SER:CB	2.64	0.44
2:C:813:LEU:HD12	2:C:813:LEU:O	2.18	0.44
1:A:729:SER:O	1:A:730:ILE:HB	2.16	0.44
2:B:968:ARG:HA	2:B:971:MET:HE3	1.99	0.44
2:C:526:ASN:HD21	2:C:727:PHE:HD2	1.64	0.44
3:D:58:SER:O	3:D:60:ARG:N	2.50	0.44
3:E:145:TYR:O	3:E:146:ARG:C	2.54	0.44
2:C:1005:LEU:HD23	2:C:1005:LEU:HA	1.82	0.44
2:C:1012:LEU:HA	2:C:1012:LEU:HD23	1.68	0.44
2:C:1240:ARG:NH1	2:C:1243:ARG:HD2	2.31	0.44
2:C:196:LEU:HG	2:C:197:PHE:CD1	2.52	0.44
2:C:281:VAL:HG13	2:C:302:ARG:HD3	1.99	0.44
2:C:309:TRP:O	2:C:310:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1075:ARG:HE	2:C:1165:VAL:HG11	1.82	0.44
2:C:1137:VAL:HG13	2:C:1137:VAL:O	2.17	0.44
2:B:687:LEU:HA	2:B:690:GLN:CB	2.40	0.44
1:A:454:GLY:O	1:A:457:ASN:OD1	2.35	0.44
2:C:541:SER:HA	2:C:548:TYR:CD1	2.53	0.44
1:A:9:ASN:O	1:A:10:ASP:HB2	2.17	0.44
2:B:860:ARG:HA	2:B:863:LEU:CD1	2.44	0.44
2:B:1206:PHE:CE2	2:B:1236:ILE:CD1	3.00	0.44
2:B:243:GLN:C	2:B:245:ALA:N	2.68	0.44
3:D:234:ALA:HB3	3:D:271:TYR:CE1	2.53	0.44
3:D:213:LEU:HD13	3:D:214:ARG:HA	1.99	0.44
2:B:757:ILE:O	2:B:758:ILE:C	2.56	0.44
1:A:795:GLU:O	1:A:895:LYS:HE3	2.18	0.44
3:D:103:ALA:HB2	3:D:113:ASN:HA	2.00	0.44
3:D:62:VAL:HG13	3:D:92:ARG:NE	2.30	0.44
1:A:550:TYR:C	1:A:551:LEU:HD23	2.38	0.44
2:C:375:ARG:C	2:C:375:ARG:HD3	2.37	0.44
2:C:469:ARG:HH11	2:C:513:GLU:HG3	1.82	0.44
2:B:1106:PHE:HD1	2:B:1151:VAL:HG13	1.82	0.44
2:B:318:LEU:HD23	2:B:318:LEU:HA	1.80	0.44
2:C:544:TYR:O	2:C:545:PRO:C	2.55	0.44
2:C:594:LEU:O	2:C:595:ALA:C	2.55	0.44
2:C:826:GLY:HA2	2:C:964:VAL:HG11	1.99	0.44
1:A:314:ARG:O	1:A:315:LEU:C	2.54	0.44
1:A:323:SER:C	1:A:325:THR:N	2.71	0.44
1:A:642:ALA:O	1:A:643:ALA:CB	2.66	0.44
2:C:131:HIS:O	2:C:132:PRO:C	2.54	0.44
1:A:982:VAL:HG13	1:A:986:ARG:O	2.18	0.44
1:A:817:GLY:O	1:A:818:PHE:HD2	2.00	0.44
1:A:154:PHE:O	1:A:155:VAL:C	2.54	0.44
2:C:905:PRO:C	2:C:907:SER:H	2.18	0.44
2:C:836:GLN:HE22	2:C:843:LEU:N	2.14	0.44
2:B:1231:TYR:HB3	2:B:1232:PRO:HD2	2.00	0.44
2:B:835:TYR:CE1	2:B:941:TYR:HD1	2.35	0.44
2:C:626:ARG:NH1	2:C:716:PHE:HA	2.32	0.44
2:B:367:GLU:CG	3:D:80:SER:O	2.65	0.44
2:C:656:VAL:HG21	2:C:688:GLU:CB	2.39	0.44
2:B:1198:LYS:HZ3	2:B:1198:LYS:HB3	1.81	0.44
3:D:130:PHE:HB2	3:D:203:ILE:HA	1.99	0.44
2:B:746:GLU:HG2	2:B:747:ARG:N	2.31	0.44
3:D:166:GLU:HB3	3:D:172:MET:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:271:TYR:C	3:E:272:ASP:O	2.55	0.44
2:C:1284:GLY:O	2:C:1285:GLN:O	2.35	0.44
1:A:242:LYS:C	1:A:242:LYS:HD3	2.38	0.44
2:C:958:ILE:C	2:C:959:GLN:HG3	2.38	0.44
1:A:806:HIS:HA	1:A:809:GLN:CG	2.48	0.44
1:A:684:ASN:O	1:A:686:TYR:N	2.51	0.44
1:A:686:TYR:O	1:A:687:SER:C	2.56	0.44
1:A:411:ILE:H	1:A:469:LEU:HD12	1.81	0.44
1:A:203:THR:HB	1:A:204:LEU:CD1	2.44	0.44
1:A:259:ARG:CB	1:A:259:ARG:CZ	2.95	0.44
2:B:902:ILE:O	2:B:903:ASN:O	2.36	0.44
1:A:241:GLN:NE2	1:A:256:VAL:O	2.51	0.44
2:B:709:MET:O	2:B:710:SER:C	2.52	0.44
1:A:536:TYR:HD2	1:A:572:LEU:HD21	1.82	0.44
1:A:577:ARG:C	1:A:578:ASN:HD22	2.21	0.44
3:E:19:ILE:HB	3:E:20:ARG:H	1.33	0.44
3:D:278:PHE:C	3:D:278:PHE:HD1	2.18	0.44
2:B:181:ARG:HG3	2:B:181:ARG:HH11	1.83	0.44
1:A:863:GLY:O	1:A:864:ARG:HB3	2.18	0.44
1:A:647:LEU:HA	1:A:647:LEU:HD23	1.78	0.44
2:C:274:MET:N	2:C:274:MET:SD	2.91	0.44
1:A:396:THR:HB	1:A:401:ILE:CG2	2.48	0.44
2:B:383:SER:O	2:B:384:MET:C	2.55	0.44
1:A:879:VAL:HG22	1:A:898:GLU:HB2	2.00	0.44
1:A:892:GLN:NE2	1:A:899:VAL:N	2.66	0.44
2:B:819:PHE:O	2:B:822:MET:HB3	2.17	0.44
2:C:694:ILE:O	2:C:698:HIS:HB2	2.18	0.44
2:C:716:PHE:CE1	2:C:717:THR:HG23	2.53	0.44
2:B:496:LYS:O	2:B:496:LYS:HG2	2.18	0.44
2:B:719:ASN:O	2:B:720:PHE:CB	2.65	0.44
2:B:720:PHE:CE2	2:B:722:GLY:CA	3.01	0.44
2:B:529:LYS:HE2	2:B:586:PRO:CD	2.40	0.44
2:C:1003:ARG:O	2:C:1004:PHE:HD2	2.00	0.44
2:C:612:PHE:C	2:C:612:PHE:CD2	2.89	0.44
2:B:1119:TYR:HE2	2:B:1121:HIS:HB2	1.83	0.44
2:C:527:ARG:CG	2:C:527:ARG:NH1	2.80	0.44
2:C:455:GLN:CA	2:C:455:GLN:NE2	2.80	0.44
2:C:829:SER:OG	2:C:965:ARG:HD3	2.18	0.44
1:A:282:GLU:O	1:A:284:THR:N	2.51	0.44
2:C:462:LEU:HG	2:C:462:LEU:O	2.08	0.44
2:B:309:TRP:O	2:B:310:LEU:CB	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:ARG:HH11	1:A:112:ARG:HG2	1.83	0.44
2:C:920:PRO:O	2:C:921:ASP:O	2.36	0.44
3:D:38:GLU:CB	3:D:176:ARG:HG2	2.35	0.44
3:D:252:LEU:HA	3:D:252:LEU:HD13	1.93	0.44
2:B:983:ILE:CA	2:B:986:ILE:HG22	2.48	0.44
2:C:822:MET:CG	2:C:823:ILE:HD12	2.48	0.44
2:B:240:GLY:C	2:B:242:GLU:N	2.68	0.44
2:B:398:ARG:O	2:B:399:PRO:C	2.57	0.44
2:B:709:MET:HA	2:B:712:PHE:CD1	2.52	0.44
3:E:220:ASN:O	3:E:221:ARG:C	2.55	0.44
1:A:978:LYS:CD	1:A:1038:THR:HG21	2.48	0.44
1:A:485:MET:HB3	1:A:492:HIS:HB2	1.99	0.44
3:D:67:TYR:CE1	3:D:110:VAL:HG12	2.53	0.44
1:A:490:LEU:HG	1:A:550:TYR:CE1	2.53	0.44
2:B:416:ALA:HB2	2:B:422:LEU:CD2	2.41	0.44
1:A:868:ASP:HB3	1:A:920:LEU:HD12	2.00	0.44
3:E:54:THR:O	3:E:136:LYS:HE2	2.18	0.44
1:A:713:ASN:HA	1:A:716:MET:CB	2.46	0.44
2:C:1086:PRO:HG3	2:C:1177:VAL:CG1	2.48	0.44
2:B:402:ALA:O	2:B:403:PHE:HB2	2.18	0.44
2:B:392:PRO:CD	2:B:393:ASN:H	2.31	0.44
2:C:747:ARG:NH1	2:C:747:ARG:HG2	2.31	0.44
2:C:418:ASN:OD1	2:C:418:ASN:C	2.56	0.44
3:E:190:SER:HB3	3:E:269:ILE:HD11	2.00	0.43
2:C:855:TYR:CE2	2:C:896:LEU:HD21	2.52	0.43
2:C:855:TYR:HA	2:C:859:ILE:CG2	2.45	0.43
2:C:895:VAL:O	2:C:917:VAL:HA	2.18	0.43
2:B:888:GLN:HE21	3:D:38:GLU:CG	2.30	0.43
2:B:816:PRO:HG3	2:B:987:ALA:HB2	1.99	0.43
2:B:896:LEU:CD2	2:B:918:VAL:HB	2.47	0.43
2:B:1204:LEU:CD1	2:B:1204:LEU:C	2.87	0.43
1:A:181:VAL:HG12	1:A:219:PHE:CE1	2.53	0.43
2:B:493:HIS:ND1	2:B:527:ARG:HD2	2.33	0.43
3:D:65:ASN:HB3	3:D:112:TYR:HA	2.00	0.43
2:C:92:VAL:CG1	2:C:1311:THR:HG22	2.42	0.43
3:D:142:THR:HA	3:D:143:PRO:HD2	1.86	0.43
3:D:193:VAL:O	3:D:193:VAL:HG12	2.18	0.43
3:E:186:LEU:HB2	3:E:267:ALA:O	2.18	0.43
2:B:453:LEU:HD23	2:B:456:ASN:ND2	2.33	0.43
3:E:104:ARG:HG2	3:E:104:ARG:NH1	2.33	0.43
2:C:557:THR:N	2:C:587:ALA:HB2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:420:PRO:O	2:C:421:ARG:CB	2.65	0.43
1:A:620:TYR:OH	1:A:622:ASP:HA	2.17	0.43
3:E:98:LEU:HB3	3:E:99:PRO:HD2	2.00	0.43
1:A:787:ILE:O	1:A:789:PRO:HD3	2.18	0.43
2:B:413:MET:CB	2:B:1019:ILE:HD13	2.48	0.43
1:A:745:LEU:H	1:A:745:LEU:CD2	2.31	0.43
2:B:376:ILE:O	2:B:380:GLN:HB2	2.18	0.43
2:C:385:ILE:HG23	2:C:1328:ILE:HG21	2.00	0.43
1:A:83:ILE:HG22	1:A:84:PRO:HD2	1.98	0.43
2:C:251:LEU:HD12	2:C:251:LEU:HA	1.62	0.43
1:A:474:TYR:CE1	1:A:478:ILE:HB	2.54	0.43
1:A:565:ARG:O	1:A:566:GLU:HB3	2.18	0.43
2:B:1199:GLY:O	2:B:1200:LYS:C	2.56	0.43
2:C:1036:ASP:O	2:C:1037:ILE:O	2.36	0.43
2:B:808:GLN:CD	2:B:808:GLN:C	2.75	0.43
2:B:631:PRO:C	2:B:632:GLN:HG3	2.37	0.43
2:C:232:LEU:CD1	2:C:232:LEU:O	2.66	0.43
2:B:141:LEU:CD2	2:B:141:LEU:N	2.82	0.43
3:E:224:PHE:O	3:E:227:MET:HB3	2.18	0.43
2:C:828:ASP:HB3	2:C:948:ILE:HG21	2.00	0.43
1:A:178:PRO:HG2	1:A:179:TYR:CD2	2.53	0.43
2:B:711:ASN:ND2	2:B:711:ASN:H	2.17	0.43
2:B:777:GLN:HA	2:B:786:SER:HA	1.99	0.43
2:C:533:GLN:HG2	2:C:588:LEU:CD1	2.45	0.43
1:A:311:GLN:C	1:A:311:GLN:OE1	2.56	0.43
3:D:181:SER:HB2	3:D:250:ARG:HB3	2.00	0.43
2:B:228:VAL:HG12	2:B:229:GLN:N	2.33	0.43
2:C:406:ASP:HA	2:C:409:ILE:HG22	2.00	0.43
2:B:428:GLN:C	2:B:431:THR:HG22	2.38	0.43
1:A:20:ASN:C	1:A:20:ASN:HD22	2.21	0.43
2:B:525:PHE:CD2	2:B:526:ASN:N	2.86	0.43
2:C:285:VAL:HG13	2:C:325:TYR:CE1	2.53	0.43
2:B:549:GLY:O	2:B:553:GLN:CB	2.60	0.43
2:C:1024:PRO:O	2:C:1026:GLY:N	2.51	0.43
3:E:214:ARG:CZ	3:E:214:ARG:HB2	2.48	0.43
2:C:926:VAL:HG21	2:C:937:ASN:N	2.33	0.43
2:B:734:ILE:O	2:B:741:TYR:HB2	2.18	0.43
3:D:117:ILE:HG22	3:D:117:ILE:O	2.17	0.43
2:C:1262:SER:O	2:C:1264:GLU:N	2.51	0.43
2:C:1045:TYR:C	2:C:1046:PHE:HD2	2.22	0.43
2:B:1020:ARG:HG2	2:B:1020:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:656:VAL:CG1	2:B:684:LEU:HD11	2.25	0.43
2:B:701:HIS:CB	2:B:774:LEU:CD1	2.95	0.43
1:A:445:TYR:HE2	1:A:625:PHE:H	1.66	0.43
1:A:129:PRO:HA	1:A:132:GLN:HB3	2.00	0.43
1:A:128:THR:CA	2:B:1331:ARG:HD3	2.49	0.43
2:C:913:ASN:O	2:C:915:VAL:HG23	2.18	0.43
2:C:922:TYR:O	2:C:923:TYR:HB3	2.18	0.43
1:A:77:LYS:C	1:A:79:PRO:CD	2.86	0.43
2:B:890:THR:O	2:B:891:HIS:CB	2.66	0.43
2:C:1293:VAL:CG1	2:C:1294:ASP:H	2.29	0.43
1:A:247:LYS:NZ	1:A:247:LYS:CB	2.81	0.43
3:D:271:TYR:CD2	3:D:275:ARG:NH1	2.86	0.43
2:B:533:GLN:HG3	2:B:588:LEU:CB	2.47	0.43
1:A:612:PHE:N	1:A:612:PHE:CD1	2.86	0.43
2:B:341:LYS:HD3	2:B:344:VAL:CG1	2.49	0.43
2:B:1176:GLU:HB2	2:B:1203:HIS:NE2	2.32	0.43
3:E:261:ARG:CZ	3:E:261:ARG:HB2	2.48	0.43
2:B:731:GLN:CB	2:B:1022:ILE:HG23	2.48	0.43
2:C:816:PRO:HG2	2:C:817:ASP:N	2.33	0.43
2:B:644:VAL:O	2:B:645:THR:O	2.37	0.43
2:C:1093:PRO:HD2	2:C:1096:TYR:CE2	2.54	0.43
2:C:203:VAL:HG23	2:C:203:VAL:O	2.17	0.43
2:B:409:ILE:HG23	2:B:625:PRO:CB	2.47	0.43
2:B:376:ILE:O	2:B:379:LEU:HD12	2.19	0.43
1:A:141:LEU:C	1:A:142:ASN:O	2.56	0.43
1:A:150:PHE:C	1:A:152:SER:H	2.22	0.43
2:C:268:GLY:O	2:C:269:GLU:HB2	2.17	0.43
2:C:835:TYR:HD2	2:C:849:MET:SD	2.42	0.43
1:A:205:VAL:CG2	1:A:263:LEU:HB3	2.48	0.43
2:B:925:VAL:HG12	2:B:925:VAL:O	2.18	0.43
2:B:1278:TYR:CE2	2:B:1290:LYS:HG3	2.53	0.43
2:B:264:LEU:HD23	2:B:264:LEU:HA	1.78	0.43
3:D:258:ASN:HD22	3:D:260:MET:H	1.61	0.43
2:B:714:LEU:CD1	2:B:714:LEU:O	2.52	0.43
2:C:623:ASN:O	2:C:624:PHE:O	2.37	0.43
3:D:198:ILE:O	3:D:199:LEU:C	2.55	0.43
2:C:266:ILE:HD11	2:C:1309:ILE:HD12	2.01	0.43
1:A:767:SER:HB3	1:A:791:ARG:CD	2.49	0.43
2:C:88:LYS:HA	2:C:89:PRO:HD3	1.86	0.43
2:B:1201:LEU:O	2:B:1201:LEU:HD13	2.18	0.43
2:C:830:VAL:C	2:C:831:VAL:O	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1049:TYR:O	1:A:1051:PRO:HD2	2.09	0.43
1:A:422:ASP:HB2	1:A:711:MET:SD	2.59	0.43
1:A:771:THR:OG1	1:A:781:VAL:HG12	2.18	0.43
2:B:696:VAL:CG1	2:B:775:VAL:HG22	2.49	0.43
1:A:628:MET:HE3	1:A:652:HIS:NE2	2.34	0.43
1:A:127:THR:CA	2:B:641:ARG:CZ	2.84	0.43
2:B:230:ASP:O	2:B:231:LEU:HD23	2.19	0.43
2:C:614:ARG:HG2	2:C:614:ARG:NH1	2.32	0.43
1:A:92:LEU:C	1:A:92:LEU:HD12	2.39	0.43
2:B:164:LEU:HD12	2:B:1296:ILE:HD11	1.97	0.43
2:B:1300:ASN:ND2	2:B:1300:ASN:O	2.51	0.43
2:C:1294:ASP:O	2:C:1295:HIS:C	2.54	0.43
2:B:1077:MET:CG	2:B:1078:TYR:H	2.16	0.43
3:D:118:ASN:O	3:D:119:ILE:HG13	2.18	0.43
2:B:176:LYS:O	2:B:177:LYS:HB2	2.18	0.43
3:D:32:LEU:C	3:D:34:LEU:H	2.22	0.43
2:B:500:GLU:HG2	2:B:510:VAL:HG21	2.01	0.43
1:A:290:LEU:HA	1:A:293:LEU:HB2	2.00	0.43
3:E:53:GLU:HG3	3:E:281:LYS:HZ3	1.82	0.43
2:C:544:TYR:N	2:C:545:PRO:CD	2.82	0.43
2:C:151:SER:O	2:C:153:ASP:N	2.49	0.43
2:C:1176:GLU:O	2:C:1177:VAL:C	2.56	0.43
2:C:127:ASN:O	2:C:128:GLU:C	2.56	0.43
1:A:930:ASN:O	1:A:931:GLY:C	2.56	0.43
2:C:1152:ALA:HA	2:C:1155:ILE:CG2	2.48	0.43
2:B:1192:SER:C	2:B:1194:MET:N	2.66	0.43
2:C:339:LEU:HB3	2:C:340:VAL:H	1.50	0.43
2:C:537:LEU:HB3	2:C:548:TYR:HE2	1.81	0.43
1:A:215:VAL:O	1:A:216:LEU:C	2.57	0.43
2:C:835:TYR:CD2	2:C:849:MET:SD	3.12	0.43
2:B:1173:TYR:CD2	2:B:1204:LEU:HG	2.50	0.43
2:B:897:TYR:HH	2:B:900:GLY:HA2	1.83	0.43
2:B:164:LEU:HB2	2:B:351:ASP:HB3	2.01	0.43
1:A:418:GLY:H	1:A:681:ALA:CB	2.32	0.43
2:C:392:PRO:C	2:C:393:ASN:O	2.55	0.43
2:B:806:VAL:CG1	2:B:1001:THR:HG21	2.48	0.43
1:A:676:ALA:HB3	1:A:693:TYR:HB3	2.00	0.43
2:C:416:ALA:HB2	2:C:422:LEU:HD23	2.00	0.43
2:B:558:TYR:CD1	2:B:558:TYR:N	2.85	0.43
1:A:1034:ARG:CG	1:A:1035:LEU:N	2.82	0.43
2:B:1249:ASN:O	2:B:1250:GLU:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1249:ASN:O	2:B:1250:GLU:HB2	2.19	0.43
3:D:167:ARG:HB3	3:D:167:ARG:NH1	2.34	0.43
1:A:284:THR:O	1:A:285:GLU:CB	2.65	0.43
2:B:707:ALA:HB2	2:B:1330:ILE:HD13	2.01	0.43
2:B:687:LEU:N	2:B:687:LEU:CD2	2.60	0.43
1:A:625:PHE:CD2	1:A:626:GLU:N	2.87	0.43
1:A:1020:SER:C	1:A:1022:PRO:HD2	2.39	0.43
1:A:682:SER:O	1:A:683:GLN:CB	2.67	0.43
1:A:116:MET:SD	1:A:117:LEU:N	2.92	0.43
1:A:126:TYR:HB3	1:A:135:VAL:HG21	2.00	0.43
2:B:641:ARG:HD3	2:B:641:ARG:H	1.82	0.43
2:C:906:ALA:O	2:C:909:TYR:HB3	2.19	0.43
2:C:731:GLN:HB2	2:C:1022:ILE:HG12	2.00	0.43
2:B:957:PHE:O	2:B:958:ILE:CG1	2.67	0.43
2:C:649:ALA:HA	2:C:691:PHE:CE2	2.46	0.43
1:A:559:ILE:HG12	1:A:613:ILE:HG12	2.00	0.43
2:B:830:VAL:HA	2:B:854:GLN:HE22	1.84	0.43
2:B:928:ARG:O	2:B:928:ARG:CG	2.64	0.43
2:B:1271:SER:HB2	2:B:1277:LEU:HD23	1.98	0.43
2:B:532:ILE:HG23	2:B:536:LEU:HD23	2.01	0.43
2:B:872:ILE:HG12	2:B:873:TYR:O	2.19	0.43
3:E:287:PHE:O	3:E:288:THR:C	2.57	0.43
2:C:1179:THR:HA	2:C:1208:ASP:HB2	2.00	0.43
2:C:493:HIS:HB2	2:C:758:ILE:HD11	1.97	0.43
3:E:233:THR:HG21	3:E:252:LEU:HD21	1.99	0.43
2:B:1211:LEU:HD22	2:B:1211:LEU:N	2.34	0.43
2:C:931:ASN:HB3	2:C:936:MET:HG2	1.99	0.43
2:C:1053:ARG:HG3	2:C:1053:ARG:HH11	1.83	0.43
1:A:314:ARG:HD3	3:D:41:GLU:HG3	2.00	0.43
3:E:232:SER:O	3:E:235:VAL:CG2	2.67	0.43
2:B:1021:ARG:HH12	2:B:1029:LEU:HD12	1.83	0.43
3:E:49:ILE:CD1	3:E:49:ILE:H	2.29	0.43
3:E:202:LEU:O	3:E:203:ILE:C	2.56	0.43
2:B:359:ASN:O	2:B:363:ARG:CB	2.66	0.43
2:B:1006:GLY:O	2:B:1007:THR:C	2.56	0.43
2:C:748:GLN:O	2:C:749:GLY:O	2.37	0.43
1:A:521:LYS:HB2	1:A:521:LYS:HE3	1.78	0.43
2:B:763:VAL:O	2:B:764:TRP:C	2.56	0.43
2:C:297:ASN:O	2:C:298:PRO:C	2.57	0.43
2:B:385:ILE:N	2:B:708:THR:HG21	2.29	0.43
2:B:772:TYR:N	2:B:772:TYR:CD2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:228:LEU:CD1	3:E:228:LEU:C	2.87	0.43
1:A:130:VAL:HG13	2:B:1332:ASN:HD21	1.83	0.43
2:B:248:VAL:CG2	2:B:970:LEU:CD2	2.70	0.43
2:B:1079:LEU:HB2	2:B:1231:TYR:OH	2.19	0.43
2:B:1296:ILE:HG21	2:B:1298:PHE:CE2	2.54	0.43
2:B:290:TYR:CG	2:B:290:TYR:O	2.72	0.43
2:C:1293:VAL:CG1	2:C:1294:ASP:N	2.82	0.43
2:C:209:ASN:O	2:C:209:ASN:CG	2.57	0.43
2:C:82:ARG:HH22	2:C:209:ASN:HB2	1.83	0.43
1:A:1003:VAL:O	1:A:1007:LEU:HG	2.19	0.43
2:B:837:THR:HG22	2:B:846:GLY:HA3	2.01	0.43
3:E:201:PHE:HD1	3:E:220:ASN:ND2	2.17	0.43
2:C:412:LEU:C	2:C:412:LEU:CD2	2.86	0.43
2:C:523:THR:HG22	2:C:720:PHE:HD2	1.84	0.43
2:B:489:MET:HG3	2:B:527:ARG:HD3	2.01	0.43
1:A:65:THR:HG23	1:A:66:ASP:N	2.34	0.43
2:B:177:LYS:C	2:B:179:LYS:H	2.21	0.43
3:D:198:ILE:HD12	3:D:198:ILE:N	2.34	0.43
2:C:443:VAL:CG2	2:C:444:SER:N	2.82	0.43
1:A:290:LEU:O	1:A:291:SER:CB	2.66	0.43
3:E:148:ASP:O	3:E:152:ILE:CD1	2.65	0.43
2:B:199:TYR:CG	2:B:199:TYR:O	2.66	0.43
2:C:1305:MET:CB	2:C:1309:ILE:HD11	2.47	0.43
2:C:1040:PHE:O	2:C:1041:ARG:C	2.57	0.43
2:B:543:TRP:CD1	2:B:543:TRP:N	2.85	0.43
1:A:1033:ILE:HG23	1:A:1034:ARG:N	2.34	0.43
1:A:791:ARG:CG	1:A:791:ARG:NH1	2.80	0.43
2:B:733:VAL:HG23	2:B:743:PRO:HA	2.00	0.43
2:C:163:TYR:N	2:C:163:TYR:CD2	2.87	0.43
3:E:47:LYS:NZ	3:E:151:ASP:HB3	2.34	0.43
2:B:723:ASN:C	2:B:723:ASN:ND2	2.71	0.43
2:B:764:TRP:CE3	2:B:764:TRP:HA	2.54	0.43
2:C:1052:LEU:O	2:C:1055:LEU:HB3	2.18	0.43
2:C:832:MET:HE1	2:C:946:LEU:HB2	1.88	0.43
2:B:656:VAL:O	2:B:660:ALA:HB2	2.19	0.43
2:B:698:HIS:HD2	2:B:772:TYR:CE1	2.36	0.43
2:B:1259:ALA:HA	2:B:1260:PRO:HD2	1.67	0.43
2:B:1076:ILE:HB	2:B:1166:VAL:HG23	2.00	0.43
2:C:264:LEU:HD21	2:C:362:LEU:CB	2.44	0.43
1:A:112:ARG:NH1	1:A:112:ARG:HG2	2.34	0.43
1:A:882:ASP:O	1:A:901:SER:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:385:ILE:HG23	2:C:386:SER:N	2.27	0.43
1:A:630:SER:O	1:A:633:ILE:CG2	2.66	0.43
2:C:404:ASP:CB	2:C:407:HIS:HB3	2.49	0.43
2:C:626:ARG:O	2:C:627:ALA:O	2.36	0.43
2:B:278:LEU:O	2:B:279:SER:C	2.55	0.43
2:B:325:TYR:HA	2:B:1267:THR:CG2	2.49	0.43
2:C:428:GLN:C	2:C:431:THR:HG22	2.38	0.43
2:C:1169:LEU:HD21	2:C:1233:LEU:HD21	2.01	0.43
3:D:190:SER:HA	3:D:230:ILE:HG12	2.01	0.43
2:B:165:THR:CG2	2:B:209:ASN:HA	2.49	0.43
2:C:282:VAL:CG2	2:C:304:PHE:CE2	3.01	0.43
2:C:1118:THR:HG22	2:C:1129:PRO:HG3	2.01	0.43
2:B:1105:LEU:CD2	2:B:1122:PRO:HG3	2.49	0.43
1:A:67:ARG:NH1	1:A:67:ARG:CG	2.79	0.43
3:E:8:GLY:HA2	3:E:208:LEU:HD21	2.01	0.43
2:C:990:THR:O	2:C:991:ASP:CB	2.67	0.43
2:B:1010:ARG:O	2:B:1011:SER:C	2.57	0.43
2:B:1097:VAL:HG12	2:B:1098:ALA:N	2.33	0.43
2:C:187:ASP:O	2:C:191:GLY:HA2	2.19	0.42
2:C:1044:ARG:O	2:C:1045:TYR:CD2	2.72	0.42
2:C:957:PHE:O	2:C:959:GLN:HG3	2.18	0.42
1:A:967:ILE:O	1:A:971:LEU:HB2	2.19	0.42
1:A:752:VAL:O	1:A:754:SER:N	2.52	0.42
2:B:699:THR:O	2:B:703:SER:HB3	2.19	0.42
2:B:711:ASN:HD22	2:B:711:ASN:N	2.16	0.42
2:C:341:LYS:HA	2:C:341:LYS:HD3	1.66	0.42
1:A:828:TYR:HD1	1:A:1032:GLY:O	2.02	0.42
3:E:76:LEU:CD1	3:E:282:PHE:CE2	3.02	0.42
1:A:170:ASN:C	1:A:172:PHE:N	2.72	0.42
2:B:288:THR:CG2	2:B:289:THR:H	2.27	0.42
2:B:362:LEU:CD1	2:B:1305:MET:HE3	2.48	0.42
2:B:362:LEU:HD11	2:B:1305:MET:HE3	2.00	0.42
2:B:1321:ASN:O	2:B:1322:PRO:C	2.56	0.42
1:A:797:ARG:HH11	1:A:797:ARG:CG	2.31	0.42
2:B:846:GLY:O	2:B:911:ARG:CA	2.60	0.42
1:A:978:LYS:CE	1:A:978:LYS:HA	2.35	0.42
2:C:728:LYS:CG	2:C:729:PRO:HD2	2.48	0.42
1:A:145:ASN:HA	1:A:146:PRO:HD2	1.81	0.42
3:E:265:ARG:NH1	3:E:265:ARG:CG	2.80	0.42
2:B:615:THR:HA	2:B:632:GLN:HB3	2.00	0.42
3:D:145:TYR:O	3:D:146:ARG:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:527:ARG:NH1	2:C:527:ARG:HG3	2.33	0.42
2:B:651:ARG:HD2	2:B:651:ARG:O	2.18	0.42
2:C:747:ARG:HH11	2:C:747:ARG:HG2	1.84	0.42
2:C:863:LEU:HA	2:C:863:LEU:HD23	1.79	0.42
2:C:613:LEU:HA	2:C:613:LEU:HD12	1.87	0.42
2:C:1092:VAL:HG23	2:C:1092:VAL:O	2.19	0.42
2:C:309:TRP:CH2	2:C:1257:ALA:HB1	2.54	0.42
2:C:302:ARG:HG3	2:C:315:THR:CG2	2.39	0.42
2:B:414:LEU:HB2	2:B:1046:PHE:HE1	1.83	0.42
1:A:755:ALA:CB	1:A:781:VAL:HG21	2.48	0.42
2:B:701:HIS:O	2:B:704:VAL:HG12	2.18	0.42
1:A:134:VAL:HG12	1:A:141:LEU:CD1	2.49	0.42
2:C:868:VAL:HB	2:C:890:THR:HA	2.02	0.42
2:B:812:LYS:HZ3	2:B:812:LYS:HB3	1.82	0.42
1:A:74:LEU:CD1	1:A:83:ILE:HG21	2.39	0.42
2:C:515:ILE:HG21	2:C:655:ILE:HG21	2.01	0.42
2:B:1270:LEU:O	2:B:1271:SER:O	2.37	0.42
1:A:1010:ILE:HG22	1:A:1012:ILE:HD11	1.98	0.42
2:C:397:LEU:HG	2:C:397:LEU:O	2.19	0.42
2:C:1233:LEU:HD12	2:C:1233:LEU:O	2.19	0.42
3:D:92:ARG:NH2	3:D:113:ASN:ND2	2.67	0.42
2:B:221:LEU:O	2:B:221:LEU:HD23	2.19	0.42
1:A:918:ILE:HG23	1:A:957:VAL:HG23	2.01	0.42
1:A:67:ARG:CG	1:A:67:ARG:HH11	2.25	0.42
3:E:139:ASN:C	3:E:141:SER:N	2.72	0.42
3:E:250:ARG:HH11	3:E:267:ALA:HB1	1.84	0.42
3:D:104:ARG:CD	3:D:115:GLU:HG2	2.49	0.42
1:A:398:GLU:HB3	1:A:402:THR:HG22	2.01	0.42
2:C:310:LEU:O	2:C:314:ILE:N	2.52	0.42
2:C:854:GLN:HE22	2:C:965:ARG:HH22	1.65	0.42
2:B:1041:ARG:NH1	2:B:1041:ARG:HG3	2.35	0.42
2:B:410:ARG:HD2	2:B:1043:SER:CA	2.49	0.42
1:A:372:ARG:NH1	1:A:770:THR:OG1	2.52	0.42
1:A:811:TYR:O	1:A:813:PRO:HD2	2.20	0.42
2:B:659:LEU:CD2	2:B:659:LEU:C	2.88	0.42
2:C:340:VAL:O	2:C:341:LYS:CG	2.61	0.42
1:A:128:THR:O	1:A:129:PRO:C	2.58	0.42
2:B:253:MET:HE3	2:B:989:ILE:CD1	2.50	0.42
2:C:1329:ASN:O	2:C:1330:ILE:HG22	2.19	0.42
2:C:379:LEU:HD12	2:C:796:PRO:HB2	2.02	0.42
2:B:1116:ARG:HB3	2:B:1116:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:652:PHE:CD2	2:C:691:PHE:CG	3.06	0.42
1:A:632:THR:O	1:A:633:ILE:C	2.55	0.42
2:B:1071:PHE:CZ	2:B:1236:ILE:HG23	2.54	0.42
3:D:155:HIS:O	3:D:156:VAL:C	2.56	0.42
3:D:48:THR:O	3:D:49:ILE:C	2.57	0.42
2:B:806:VAL:HA	2:B:809:VAL:HG11	1.94	0.42
2:C:398:ARG:NH1	2:C:398:ARG:CG	2.71	0.42
1:A:485:MET:CE	1:A:495:LEU:HD23	2.49	0.42
1:A:679:LYS:HA	1:A:679:LYS:HD2	1.77	0.42
2:C:1211:LEU:HD22	2:C:1211:LEU:HA	1.84	0.42
2:C:559:THR:HG22	2:C:567:GLU:HB3	1.96	0.42
2:C:243:GLN:CG	2:C:244:SER:N	2.81	0.42
3:D:195:ASN:O	3:D:196:TRP:C	2.57	0.42
2:B:327:LEU:HD12	2:B:327:LEU:HA	1.78	0.42
2:C:1133:GLY:O	2:C:1134:ARG:O	2.37	0.42
1:A:617:ILE:O	1:A:618:ASN:HB2	2.19	0.42
1:A:906:PHE:HD1	1:A:907:ASP:O	2.01	0.42
1:A:31:VAL:HG13	1:A:93:HIS:HB2	2.00	0.42
2:C:212:PHE:C	2:C:212:PHE:CD2	2.89	0.42
1:A:950:MET:HE1	1:A:1057:ARG:HB2	2.01	0.42
2:C:240:GLY:O	2:C:241:ALA:C	2.57	0.42
2:C:946:LEU:C	2:C:946:LEU:HD23	2.39	0.42
1:A:821:ARG:CG	1:A:821:ARG:NH1	2.83	0.42
1:A:327:TYR:CE1	1:A:353:TYR:CD2	3.07	0.42
2:C:733:VAL:HG13	2:C:1022:ILE:CD1	2.31	0.42
1:A:77:LYS:HE2	1:A:77:LYS:HB2	1.88	0.42
2:B:825:SER:OG	2:B:826:GLY:N	2.52	0.42
2:B:1232:PRO:O	2:B:1232:PRO:HG2	2.19	0.42
2:C:716:PHE:CD1	2:C:717:THR:HG23	2.53	0.42
2:B:357:VAL:O	2:B:360:ILE:N	2.51	0.42
3:D:259:SER:O	3:D:260:MET:CB	2.67	0.42
2:B:425:ILE:O	2:B:428:GLN:HB3	2.19	0.42
2:C:176:LYS:HB2	2:C:176:LYS:NZ	2.35	0.42
2:B:178:ASP:O	2:B:179:LYS:C	2.58	0.42
2:B:1105:LEU:HD21	2:B:1122:PRO:HG3	2.00	0.42
2:B:455:GLN:HE21	2:B:455:GLN:HA	1.84	0.42
2:C:1124:THR:OG1	2:C:1126:MET:HE1	2.19	0.42
3:D:167:ARG:HB2	3:D:167:ARG:HH11	1.83	0.42
1:A:708:ASN:CB	1:A:1048:HIS:NE2	2.83	0.42
2:B:1041:ARG:HG3	2:B:1041:ARG:HH11	1.84	0.42
1:A:745:LEU:H	1:A:745:LEU:HD23	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:173:PRO:HG2	3:D:175:LYS:HZ1	1.85	0.42
2:B:231:LEU:CD2	2:B:985:ARG:HB3	2.49	0.42
2:B:975:SER:O	2:B:979:ILE:CD1	2.65	0.42
2:C:1061:LEU:C	2:C:1061:LEU:HD22	2.36	0.42
2:B:1285:GLN:O	2:B:1286:VAL:C	2.56	0.42
3:E:238:ASN:O	3:E:253:GLU:N	2.45	0.42
1:A:254:ASP:C	1:A:255:ARG:HG3	2.40	0.42
2:B:995:THR:HG22	2:B:996:ASP:N	2.35	0.42
2:B:291:HIS:C	2:B:293:ASN:H	2.23	0.42
3:D:235:VAL:HG11	3:D:276:HIS:CE1	2.54	0.42
3:E:66:VAL:HG21	3:E:92:ARG:HB3	2.01	0.42
2:B:845:GLU:CG	2:B:845:GLU:O	2.68	0.42
2:C:894:VAL:HG23	2:C:916:LEU:HD21	2.00	0.42
2:C:954:GLN:N	2:C:954:GLN:OE1	2.52	0.42
1:A:217:HIS:C	1:A:217:HIS:HD1	2.23	0.42
3:E:268:THR:HG22	3:E:269:ILE:N	2.20	0.42
2:C:901:VAL:HG11	2:C:930:ALA:HB2	2.01	0.42
2:B:226:PRO:CG	2:B:254:VAL:HG21	2.50	0.42
1:A:411:ILE:CG1	1:A:412:ALA:N	2.83	0.42
2:C:649:ALA:CB	2:C:695:ALA:CB	2.94	0.42
2:B:832:MET:CA	2:B:849:MET:O	2.67	0.42
3:D:46:LYS:HD2	3:D:155:HIS:CE1	2.55	0.42
2:B:489:MET:HE3	2:B:527:ARG:HH11	1.84	0.42
3:D:62:VAL:HG22	3:D:62:VAL:O	2.20	0.42
2:B:145:THR:CG2	2:B:146:GLU:H	2.32	0.42
2:B:630:ASN:ND2	2:B:630:ASN:N	2.67	0.42
2:B:926:VAL:HG21	2:B:937:ASN:CA	2.49	0.42
2:C:980:ARG:NH1	2:C:980:ARG:HG2	2.33	0.42
1:A:67:ARG:NH1	1:A:67:ARG:HG3	2.33	0.42
2:C:140:GLY:O	2:C:141:LEU:C	2.58	0.42
1:A:1033:ILE:CG2	1:A:1034:ARG:N	2.82	0.42
3:D:167:ARG:CB	3:D:167:ARG:NH1	2.83	0.42
1:A:147:GLN:NE2	1:A:187:PRO:HA	2.34	0.42
2:C:299:ALA:C	2:C:301:LEU:H	2.22	0.42
2:C:259:MET:CE	2:C:1051:GLN:HG2	2.49	0.42
2:C:945:VAL:O	2:C:946:LEU:C	2.58	0.42
1:A:177:THR:O	1:A:178:PRO:C	2.54	0.42
1:A:806:HIS:HA	1:A:809:GLN:HB2	2.02	0.42
2:B:704:VAL:HG22	2:B:704:VAL:O	2.19	0.42
2:C:332:THR:C	2:C:334:LEU:N	2.71	0.42
1:A:354:ILE:HG22	1:A:355:PHE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:897:TYR:CE2	2:C:928:ARG:HG2	2.55	0.42
2:B:259:MET:SD	2:B:1055:LEU:HB2	2.59	0.42
2:B:226:PRO:O	2:B:227:LEU:CG	2.68	0.42
1:A:231:PHE:CE1	1:A:260:LEU:O	2.72	0.42
2:B:238:THR:OG1	2:B:1197:PRO:HB3	2.19	0.42
2:B:1277:LEU:CB	2:B:1289:PRO:HA	2.45	0.42
1:A:426:ARG:HE	1:A:707:SER:HB3	1.85	0.42
2:B:426:ILE:HG21	2:B:488:PRO:CD	2.49	0.42
2:B:492:VAL:HG12	2:B:492:VAL:O	2.19	0.42
3:E:163:THR:N	3:E:167:ARG:HD2	2.35	0.42
2:C:493:HIS:HB2	2:C:758:ILE:CD1	2.49	0.42
3:E:46:LYS:NZ	3:E:155:HIS:CE1	2.88	0.42
2:C:561:ASN:O	2:C:563:ALA:N	2.53	0.42
2:B:517:PHE:HD1	2:B:521:PHE:CD2	2.34	0.42
2:C:1281:VAL:HG12	2:C:1281:VAL:O	2.20	0.42
2:C:1281:VAL:O	2:C:1282:ALA:CB	2.68	0.42
2:B:1021:ARG:HH12	2:B:1029:LEU:CD1	2.33	0.42
2:C:981:HIS:C	2:C:981:HIS:ND1	2.73	0.42
2:B:363:ARG:HH11	2:B:363:ARG:HB3	1.84	0.42
3:D:123:ASP:C	3:D:125:ALA:N	2.72	0.42
3:D:289:ARG:O	3:D:289:ARG:HD3	2.20	0.42
2:C:1044:ARG:HA	2:C:1044:ARG:HD3	1.64	0.42
2:C:260:THR:HG21	2:C:1051:GLN:HE21	1.85	0.42
2:B:775:VAL:O	2:B:777:GLN:HG3	2.20	0.42
2:B:791:ILE:H	2:B:791:ILE:HD12	1.84	0.42
2:B:1139:MET:HE2	2:B:1155:ILE:HD13	2.01	0.42
2:C:546:VAL:CG2	2:C:547:GLU:N	2.83	0.42
2:C:156:GLN:HA	2:C:264:LEU:O	2.20	0.42
3:E:268:THR:HG22	3:E:269:ILE:CD1	2.50	0.42
2:C:905:PRO:C	2:C:907:SER:N	2.73	0.42
2:C:440:ILE:HD13	2:C:478:ILE:HD12	2.02	0.42
2:B:349:ASN:CA	2:B:1299:SER:HA	2.38	0.42
3:E:237:ALA:CB	3:E:253:GLU:HG2	2.26	0.42
2:B:551:PHE:CZ	2:B:588:LEU:HD23	2.55	0.42
2:C:523:THR:CA	2:C:720:PHE:HD2	2.22	0.42
3:D:93:LEU:O	3:D:93:LEU:CG	2.68	0.42
3:D:96:LEU:HD23	3:D:96:LEU:N	2.34	0.42
2:C:308:ASN:HB2	2:C:1247:ASN:HD21	1.83	0.42
2:B:953:ASP:HB3	3:D:241:ASN:CB	2.46	0.42
2:B:412:LEU:CD1	2:B:810:LEU:CD1	2.97	0.42
3:E:66:VAL:HG13	3:E:89:TYR:CG	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:544:TYR:OH	2:C:603:ILE:HD11	2.19	0.42
2:B:1091:ASP:O	2:B:1093:PRO:HD3	2.19	0.42
3:D:59:ALA:O	3:D:60:ARG:HB3	2.20	0.42
2:C:747:ARG:C	2:C:748:GLN:HG3	2.40	0.42
2:C:765:PRO:O	2:C:770:CYS:HB2	2.20	0.42
1:A:2:TRP:O	1:A:3:HIS:C	2.58	0.42
2:B:1255:ARG:HG2	2:B:1255:ARG:HH11	1.85	0.42
2:C:1020:ARG:HH11	2:C:1020:ARG:CA	2.32	0.42
2:C:286:LEU:CD2	2:C:287:ARG:N	2.48	0.42
2:B:701:HIS:CB	2:B:774:LEU:HD12	2.43	0.42
3:E:35:LEU:HD22	3:E:179:PHE:HB3	2.02	0.42
2:C:478:ILE:CG2	2:C:762:ILE:HD11	2.47	0.42
2:C:1022:ILE:O	2:C:1022:ILE:HG13	2.20	0.42
1:A:574:ARG:HB3	1:A:574:ARG:HH11	1.84	0.42
2:B:830:VAL:CG1	2:B:854:GLN:NE2	2.82	0.42
2:B:754:GLY:O	2:B:755:LEU:C	2.58	0.42
3:E:163:THR:H	3:E:167:ARG:HD2	1.84	0.42
2:B:837:THR:CG2	2:B:846:GLY:HA3	2.50	0.42
1:A:491:ASP:C	1:A:494:THR:HG22	2.38	0.42
3:E:261:ARG:NH1	3:E:265:ARG:HH11	2.17	0.42
2:C:231:LEU:C	2:C:231:LEU:HD23	2.40	0.42
2:C:617:ASP:C	2:C:620:ILE:HG22	2.40	0.42
3:E:235:VAL:HG12	3:E:276:HIS:CE1	2.51	0.42
2:C:557:THR:O	2:C:569:SER:OG	2.24	0.42
2:C:275:SER:O	2:C:276:ASN:C	2.58	0.42
3:D:160:LEU:CD1	3:D:229:PHE:HB2	2.50	0.42
2:C:663:VAL:HG12	2:C:663:VAL:O	2.19	0.42
3:E:80:SER:H	3:E:275:ARG:HH12	1.66	0.42
2:B:1111:ALA:HB2	3:E:273:LEU:HB3	2.02	0.42
1:A:585:ILE:HG22	1:A:586:GLY:N	2.34	0.42
1:A:19:PRO:O	1:A:22:ILE:HG22	2.20	0.42
2:C:169:LYS:O	2:C:202:ALA:N	2.51	0.42
1:A:27:LYS:HA	1:A:27:LYS:CE	2.49	0.42
3:E:153:TYR:HD1	3:E:156:VAL:HG21	1.85	0.42
1:A:618:ASN:O	1:A:619:SER:C	2.58	0.42
2:C:1000:LEU:HD12	2:C:1008:LEU:HD12	2.02	0.42
3:E:21:ASN:C	3:E:23:GLY:N	2.73	0.42
2:B:188:ARG:H	2:B:188:ARG:HG2	1.63	0.42
2:B:401:LEU:O	2:B:402:ALA:HB2	2.19	0.42
2:C:189:ILE:HB	2:C:190:VAL:H	1.68	0.41
1:A:745:LEU:HD23	1:A:745:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:655:ILE:O	2:B:659:LEU:HB2	2.19	0.41
3:E:135:ALA:O	3:E:137:LEU:N	2.53	0.41
1:A:134:VAL:O	1:A:135:VAL:C	2.57	0.41
1:A:13:VAL:CG2	1:A:213:TRP:N	2.69	0.41
2:C:896:LEU:HD23	2:C:918:VAL:HB	2.02	0.41
2:B:880:PRO:HG3	2:B:909:TYR:CB	2.48	0.41
2:B:494:GLU:O	2:B:495:LEU:O	2.38	0.41
2:B:806:VAL:O	2:B:809:VAL:HG13	2.17	0.41
2:B:997:TYR:CG	2:B:997:TYR:O	2.71	0.41
2:B:398:ARG:N	2:B:399:PRO:CD	2.82	0.41
2:B:1015:GLN:HA	2:B:1015:GLN:OE1	2.20	0.41
1:A:576:ASN:HA	1:A:576:ASN:HD22	1.59	0.41
2:C:1309:ILE:N	2:C:1309:ILE:HD12	2.35	0.41
2:B:926:VAL:HG11	2:B:937:ASN:HA	2.02	0.41
2:B:1109:SER:HB3	2:B:1118:THR:HG22	1.99	0.41
2:C:574:LYS:HE2	2:C:574:LYS:HB3	1.76	0.41
2:C:253:MET:HE1	2:C:989:ILE:CD1	2.47	0.41
2:C:256:PHE:HA	2:C:259:MET:CB	2.50	0.41
1:A:993:VAL:O	1:A:994:PRO:C	2.58	0.41
2:C:466:VAL:HG22	2:C:509:VAL:HG11	2.01	0.41
1:A:117:LEU:HD23	1:A:118:GLY:N	2.35	0.41
2:C:762:ILE:O	2:C:762:ILE:HG13	2.20	0.41
2:B:462:LEU:CD2	2:B:462:LEU:C	2.78	0.41
2:B:849:MET:SD	2:B:919:MET:HE1	2.60	0.41
3:E:173:PRO:O	3:E:175:LYS:HG3	2.20	0.41
2:C:720:PHE:O	2:C:721:SER:CB	2.69	0.41
2:C:1206:PHE:HE1	2:C:1232:PRO:CD	2.33	0.41
2:C:445:GLU:HB2	2:C:447:ARG:HH21	1.84	0.41
3:D:97:ALA:O	3:D:98:LEU:HG	2.20	0.41
2:C:1143:GLU:HG3	2:C:1145:ALA:H	1.85	0.41
2:B:561:ASN:CG	2:B:562:ALA:H	2.23	0.41
2:C:1042:TRP:CE3	2:C:1042:TRP:O	2.73	0.41
2:C:1101:TYR:OH	2:C:1147:MET:SD	2.71	0.41
1:A:628:MET:CE	1:A:652:HIS:CD2	3.02	0.41
2:C:136:VAL:HG12	2:C:138:PHE:O	2.19	0.41
2:C:342:THR:CA	2:C:1306:THR:CG2	2.96	0.41
3:E:268:THR:HG22	3:E:269:ILE:HD13	2.02	0.41
2:C:1325:VAL:O	2:C:1326:ARG:CG	2.69	0.41
2:C:389:PHE:CE1	2:C:1319:ARG:CD	2.92	0.41
1:A:469:LEU:CD2	1:A:470:LEU:N	2.79	0.41
2:C:655:ILE:O	2:C:659:LEU:CB	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1078:TYR:O	2:C:1079:LEU:CB	2.66	0.41
2:C:371:THR:HB	2:C:395:GLY:HA2	2.01	0.41
2:B:495:LEU:HD11	2:B:760:THR:CG2	2.50	0.41
3:D:62:VAL:CG1	3:D:92:ARG:NE	2.83	0.41
3:E:233:THR:O	3:E:234:ALA:C	2.56	0.41
2:C:1003:ARG:O	2:C:1004:PHE:CD2	2.73	0.41
2:C:1072:ASN:O	2:C:1173:TYR:CE2	2.73	0.41
2:C:995:THR:O	2:C:996:ASP:C	2.57	0.41
1:A:381:GLY:HA3	1:A:804:ALA:HA	2.02	0.41
3:E:129:ASN:O	3:E:132:ALA:HB3	2.20	0.41
3:E:32:LEU:HD23	3:E:32:LEU:HA	1.86	0.41
2:B:690:GLN:NE2	2:B:768:CYS:HA	2.35	0.41
2:C:532:ILE:O	2:C:533:GLN:C	2.59	0.41
2:C:155:LYS:H	2:C:263:ARG:HA	1.86	0.41
1:A:134:VAL:CG1	1:A:141:LEU:CD1	2.95	0.41
2:C:874:ILE:HG21	2:C:902:ILE:HG13	2.01	0.41
2:C:382:HIS:CD2	2:C:382:HIS:N	2.88	0.41
2:C:843:LEU:CB	2:C:942:HIS:ND1	2.82	0.41
2:B:164:LEU:HD13	2:B:1296:ILE:HD11	1.98	0.41
1:A:1006:MET:O	1:A:1010:ILE:HG13	2.21	0.41
2:B:961:SER:O	2:B:962:ASP:C	2.57	0.41
2:C:267:VAL:HG12	2:C:270:THR:HG23	2.02	0.41
2:B:732:TYR:O	2:B:744:ILE:CG1	2.68	0.41
2:C:974:LEU:HB3	2:C:978:GLN:HG2	2.02	0.41
2:B:590:SER:HB2	2:B:592:VAL:HG23	2.03	0.41
3:D:104:ARG:CG	3:D:104:ARG:HH11	2.34	0.41
3:E:50:PRO:O	3:E:51:THR:C	2.59	0.41
2:B:377:LYS:HE2	2:B:377:LYS:HB3	1.96	0.41
1:A:115:TRP:HB3	1:A:116:MET:H	1.74	0.41
2:C:923:TYR:CD1	2:C:923:TYR:O	2.73	0.41
3:D:181:SER:HB2	3:D:250:ARG:CB	2.50	0.41
1:A:45:GLN:C	1:A:47:ARG:H	2.24	0.41
1:A:49:HIS:HE1	1:A:75:PRO:C	2.24	0.41
2:C:246:GLU:O	2:C:249:SER:HB3	2.20	0.41
1:A:637:THR:HG23	1:A:668:LEU:CD2	2.51	0.41
2:B:830:VAL:CA	2:B:854:GLN:NE2	2.82	0.41
2:C:352:HIS:CE1	2:C:1297:SER:H	2.38	0.41
2:B:368:ALA:C	2:B:370:VAL:N	2.73	0.41
2:C:1175:ALA:CB	2:C:1236:ILE:HD13	2.51	0.41
1:A:19:PRO:HG2	1:A:20:ASN:H	1.85	0.41
1:A:318:ARG:CG	1:A:318:ARG:NH1	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:92:ARG:NH2	3:D:113:ASN:HD21	2.19	0.41
2:B:165:THR:HG21	2:B:209:ASN:HA	2.03	0.41
1:A:53:LEU:CD2	1:A:171:ILE:CD1	2.97	0.41
2:C:1023:ARG:HB3	2:C:1029:LEU:HD21	2.03	0.41
2:B:1106:PHE:CD1	2:B:1151:VAL:CG1	3.03	0.41
2:B:522:PRO:CD	2:B:636:PRO:HG3	2.51	0.41
2:B:517:PHE:C	2:B:517:PHE:CD1	2.93	0.41
3:D:205:LEU:HD22	3:D:289:ARG:CG	2.51	0.41
1:A:11:THR:OG1	1:A:12:ARG:N	2.54	0.41
2:B:933:ASN:O	2:B:933:ASN:OD1	2.38	0.41
1:A:509:ARG:H	1:A:509:ARG:HD3	1.86	0.41
2:C:1272:ARG:HE	2:C:1272:ARG:HB3	1.63	0.41
2:C:300:LEU:CD2	2:C:300:LEU:C	2.85	0.41
3:D:29:THR:OG1	3:D:30:GLN:N	2.53	0.41
2:B:614:ARG:HE	2:B:614:ARG:HB2	1.47	0.41
1:A:883:PRO:HB3	1:A:903:PRO:CG	2.50	0.41
1:A:416:MET:CA	1:A:416:MET:CE	2.92	0.41
2:B:974:LEU:HD23	2:B:974:LEU:HA	1.86	0.41
2:B:954:GLN:O	2:B:956:ASP:N	2.54	0.41
1:A:565:ARG:HG3	1:A:566:GLU:N	2.33	0.41
1:A:227:MET:SD	1:A:231:PHE:CE2	3.13	0.41
2:B:1054:ARG:O	2:B:1057:VAL:HB	2.21	0.41
3:E:253:GLU:O	3:E:254:TYR:CD2	2.73	0.41
2:C:1064:ASN:C	2:C:1064:ASN:HD22	2.23	0.41
1:A:998:LEU:H	1:A:998:LEU:HD12	1.85	0.41
2:C:558:TYR:CZ	2:C:585:PHE:HB2	2.53	0.41
2:B:313:ASP:O	2:B:316:ASN:HB3	2.20	0.41
3:D:73:THR:CG2	3:D:198:ILE:HG12	2.50	0.41
3:E:147:ALA:O	3:E:148:ASP:HB2	2.20	0.41
1:A:636:VAL:O	1:A:640:ALA:N	2.48	0.41
2:B:1250:GLU:O	2:B:1251:VAL:CB	2.67	0.41
2:B:433:TYR:C	2:B:433:TYR:CD2	2.94	0.41
2:C:413:MET:HG2	2:C:1019:ILE:HD13	2.03	0.41
1:A:372:ARG:HE	1:A:819:LYS:HZ1	1.66	0.41
1:A:373:ILE:CD1	1:A:817:GLY:N	2.72	0.41
3:E:228:LEU:HD12	3:E:229:PHE:N	2.36	0.41
2:C:868:VAL:HA	2:C:869:PRO:HD3	1.88	0.41
1:A:467:SER:O	1:A:470:LEU:N	2.54	0.41
1:A:470:LEU:HD21	1:A:498:ALA:HB1	1.90	0.41
2:B:958:ILE:O	2:B:960:THR:N	2.54	0.41
2:C:651:ARG:O	2:C:655:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:586:GLY:HA3	1:A:595:ASN:OD1	2.20	0.41
2:B:1270:LEU:O	2:B:1271:SER:C	2.58	0.41
2:C:1064:ASN:OD1	2:C:1296:ILE:CD1	2.68	0.41
2:C:1078:TYR:O	2:C:1079:LEU:CD1	2.68	0.41
1:A:239:TRP:HH2	1:A:297:LEU:HD11	1.85	0.41
2:C:392:PRO:HD2	2:C:1317:VAL:HG12	2.01	0.41
3:E:158:LEU:HD23	3:E:158:LEU:N	2.14	0.41
2:B:150:LEU:HD22	2:B:804:LEU:CD1	2.50	0.41
1:A:492:HIS:ND1	1:A:492:HIS:C	2.72	0.41
3:E:147:ALA:CB	3:E:281:LYS:HA	2.50	0.41
2:C:401:LEU:HD23	2:C:401:LEU:C	2.41	0.41
2:B:1013:LYS:O	2:B:1014:MET:HB3	2.20	0.41
3:E:216:PHE:HA	3:E:219:ARG:HH12	1.85	0.41
2:B:1011:SER:O	2:B:1012:LEU:C	2.58	0.41
2:C:608:THR:HA	2:C:609:PRO:HD3	1.90	0.41
2:C:525:PHE:CE2	2:C:724:HIS:CE1	3.08	0.41
2:B:639:ASN:HD22	2:B:639:ASN:C	2.23	0.41
2:B:947:GLU:O	2:B:950:ASP:N	2.46	0.41
2:C:734:ILE:HG23	2:C:1017:ALA:HB1	2.02	0.41
1:A:772:TRP:CE3	1:A:782:ASN:ND2	2.84	0.41
2:C:466:VAL:HG22	2:C:509:VAL:HG13	2.02	0.41
2:B:385:ILE:O	2:B:385:ILE:CG2	2.62	0.41
2:B:1242:MET:HG3	2:B:1260:PRO:HD3	2.03	0.41
2:C:833:ARG:NH1	2:C:941:TYR:CZ	2.89	0.41
2:C:408:ILE:O	2:C:409:ILE:C	2.59	0.41
2:C:626:ARG:HA	2:C:716:PHE:HB2	2.03	0.41
2:B:330:THR:HG21	2:B:1301:VAL:HG22	2.02	0.41
2:B:262:ASN:O	2:B:262:ASN:OD1	2.39	0.41
2:B:577:GLN:OE1	2:B:580:TYR:HB2	2.20	0.41
2:C:713:MET:HB3	2:C:803:SER:HB3	2.03	0.41
2:B:551:PHE:CD2	2:B:552:VAL:N	2.89	0.41
1:A:335:LEU:C	1:A:337:LEU:N	2.72	0.41
1:A:38:TYR:HE2	1:A:88:LEU:HD11	1.86	0.41
1:A:379:VAL:CG1	1:A:380:THR:HG23	2.36	0.41
2:B:626:ARG:O	2:B:716:PHE:HB2	2.21	0.41
2:C:317:MET:HA	2:C:320:GLN:HE22	1.86	0.41
3:D:112:TYR:CE2	3:D:119:ILE:HG21	2.56	0.41
3:D:91:SER:O	3:D:94:SER:N	2.52	0.41
2:B:1035:ILE:N	2:B:1035:ILE:CD1	2.84	0.41
2:C:266:ILE:HD11	2:C:1309:ILE:CD1	2.50	0.41
2:B:598:ASN:CA	2:B:601:ILE:HG22	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:939:ASN:ND2	2:C:940:ARG:HG3	2.35	0.41
2:C:555:GLY:HA2	2:C:569:SER:O	2.20	0.41
3:E:11:THR:HG22	3:E:219:ARG:HD3	2.03	0.41
3:D:202:LEU:O	3:D:205:LEU:N	2.53	0.41
2:C:609:PRO:HD3	2:C:724:HIS:CD2	2.56	0.41
2:B:1085:ASP:O	2:B:1087:ASP:N	2.54	0.41
1:A:486:THR:OG1	1:A:489:SER:HB2	2.21	0.41
1:A:697:ILE:HG13	1:A:698:ALA:N	2.36	0.41
2:C:946:LEU:O	2:C:946:LEU:HD23	2.21	0.41
1:A:812:VAL:HB	1:A:813:PRO:CD	2.50	0.41
2:C:680:THR:O	2:C:684:LEU:CB	2.68	0.41
2:B:697:ALA:CB	2:B:774:LEU:HD22	2.48	0.41
2:B:791:ILE:H	2:B:791:ILE:CD1	2.34	0.41
2:C:1148:SER:C	2:C:1150:LEU:N	2.69	0.41
2:B:1130:SER:HB2	2:B:1131:PRO:CD	2.50	0.41
2:B:1072:ASN:O	2:B:1171:ILE:HG22	2.20	0.41
1:A:833:VAL:HG22	1:A:1039:GLY:HA3	2.02	0.41
1:A:453:LEU:HD12	1:A:1021:THR:CG2	2.43	0.41
2:C:872:ILE:HB	2:C:886:SER:HB2	2.03	0.41
2:C:835:TYR:CE1	2:C:941:TYR:CE1	3.09	0.41
2:B:884:ALA:O	2:B:888:GLN:HB2	2.19	0.41
2:B:252:LEU:HD23	2:B:823:ILE:CD1	2.50	0.41
2:C:792:VAL:HG23	2:C:793:TYR:N	2.36	0.41
2:B:255:LEU:HB2	2:B:1062:ILE:HG13	2.02	0.41
1:A:467:SER:HB3	1:A:468:PRO:CD	2.42	0.41
2:B:892:VAL:HG21	2:B:952:PHE:CE1	2.56	0.41
2:B:855:TYR:O	2:B:856:LEU:C	2.58	0.41
2:C:643:THR:O	2:C:644:VAL:CB	2.68	0.41
2:B:1060:ARG:HH11	2:B:1060:ARG:HB2	1.84	0.41
2:C:1287:GLY:C	2:C:1288:ILE:HG13	2.40	0.41
2:C:1078:TYR:O	2:C:1079:LEU:HD13	2.20	0.41
2:C:145:THR:O	2:C:146:GLU:HG2	2.21	0.41
2:B:1321:ASN:N	2:B:1321:ASN:OD1	2.53	0.41
2:B:425:ILE:HD13	2:B:1001:THR:HG22	2.03	0.41
2:B:425:ILE:O	2:B:426:ILE:C	2.60	0.41
2:C:621:ALA:C	2:C:623:ASN:H	2.23	0.41
1:A:37:ASP:O	1:A:38:TYR:CB	2.65	0.41
2:C:656:VAL:O	2:C:656:VAL:HG12	2.21	0.41
1:A:925:ILE:HG22	1:A:939:GLN:HG2	2.02	0.41
2:B:633:THR:HG21	2:B:710:SER:OG	2.18	0.41
2:C:648:PHE:CG	2:C:699:THR:CG2	3.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:558:TYR:H	2:C:558:TYR:HD1	1.68	0.41
2:C:560:ILE:HG12	2:C:585:PHE:HE2	1.85	0.41
3:E:157:GLY:C	3:E:159:GLU:N	2.71	0.41
2:C:634:TYR:HB2	2:C:720:PHE:HB3	2.03	0.41
1:A:511:ILE:O	1:A:512:ALA:C	2.57	0.41
1:A:208:HIS:HE1	1:A:234:LYS:CD	2.34	0.41
1:A:27:LYS:NZ	1:A:27:LYS:CA	2.80	0.41
2:B:847:ILE:HD13	2:B:929:PHE:CZ	2.56	0.41
2:B:556:ALA:O	2:B:557:THR:HG22	2.21	0.41
3:E:147:ALA:HB2	3:E:281:LYS:CA	2.50	0.41
3:D:130:PHE:C	3:D:132:ALA:H	2.24	0.41
3:D:195:ASN:O	3:D:196:TRP:O	2.39	0.41
2:B:836:GLN:O	2:B:936:MET:HG3	2.21	0.41
2:C:1104:ARG:NH1	2:C:1104:ARG:CG	2.84	0.41
2:C:148:GLN:HG3	2:C:1315:MET:HE2	2.02	0.41
2:C:1144:ARG:HG2	2:C:1144:ARG:O	2.21	0.41
2:C:557:THR:HA	2:C:587:ALA:HB2	2.02	0.41
3:E:219:ARG:HB2	3:E:219:ARG:CZ	2.51	0.41
2:B:594:LEU:O	2:B:595:ALA:C	2.58	0.41
1:A:447:THR:O	1:A:448:LYS:CB	2.68	0.41
2:C:1285:GLN:N	2:C:1285:GLN:CD	2.74	0.41
2:B:392:PRO:HG2	2:B:393:ASN:N	2.35	0.41
3:D:205:LEU:HD22	3:D:289:ARG:HG2	2.03	0.41
1:A:674:HIS:HB2	1:A:697:ILE:CG2	2.51	0.41
3:E:142:THR:HB	3:E:143:PRO:HD2	2.02	0.41
3:D:215:ALA:O	3:D:218:THR:OG1	2.30	0.41
2:C:281:VAL:HG13	2:C:302:ARG:CD	2.51	0.41
2:C:258:VAL:O	2:C:1054:ARG:HB2	2.21	0.41
2:B:767:LEU:HB3	2:B:768:CYS:H	1.80	0.41
1:A:434:GLN:CA	1:A:434:GLN:NE2	2.83	0.41
1:A:1024:LEU:CD1	1:A:1024:LEU:C	2.81	0.41
1:A:682:SER:O	1:A:683:GLN:HB2	2.21	0.41
2:C:495:LEU:HB3	2:C:531:ASP:HB3	2.03	0.41
1:A:304:TYR:O	1:A:308:ALA:HA	2.21	0.41
1:A:60:PHE:CE1	1:A:119:VAL:HG13	2.55	0.41
2:B:253:MET:O	2:B:257:LYS:HB2	2.21	0.41
2:B:824:LEU:O	2:B:825:SER:C	2.58	0.41
1:A:497:ALA:O	1:A:523:MET:CG	2.60	0.41
2:B:163:TYR:H	2:B:354:ALA:HB2	1.86	0.41
2:C:1292:GLU:CG	2:C:1293:VAL:HG23	2.48	0.41
2:C:351:ASP:HA	2:C:1297:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:720:PHE:HD2	2:B:721:SER:H	1.69	0.41
2:B:760:THR:C	2:B:762:ILE:H	2.19	0.41
2:C:529:LYS:HE2	2:C:586:PRO:CG	2.51	0.41
1:A:34:LEU:O	1:A:34:LEU:HD23	2.21	0.41
2:C:1001:THR:N	2:C:1002:LEU:HD23	2.36	0.41
2:B:526:ASN:O	2:B:527:ARG:C	2.54	0.41
2:C:170:TYR:CB	2:C:201:ALA:HA	2.50	0.41
3:E:261:ARG:CZ	3:E:265:ARG:HH11	2.33	0.41
2:C:325:TYR:CD2	2:C:326:GLY:N	2.81	0.41
1:A:330:GLN:CA	1:A:330:GLN:OE1	2.67	0.41
2:C:550:ILE:CG2	2:C:550:ILE:O	2.62	0.41
1:A:1034:ARG:HG3	1:A:1034:ARG:NH1	2.35	0.41
1:A:712:ILE:HG22	1:A:716:MET:HB2	2.03	0.41
1:A:545:PHE:HB3	1:A:546:ALA:H	1.61	0.41
1:A:1046:PHE:C	1:A:1046:PHE:CD1	2.92	0.41
3:E:3:GLN:O	3:E:3:GLN:CG	2.69	0.41
2:B:1178:MET:HE3	2:B:1178:MET:HB3	1.86	0.41
2:B:968:ARG:HA	2:B:971:MET:HE2	2.02	0.41
3:D:21:ASN:O	3:D:21:ASN:CG	2.60	0.41
2:C:89:PRO:O	2:C:90:ALA:O	2.39	0.41
2:C:536:LEU:O	2:C:539:PHE:HB3	2.21	0.41
2:C:862:ARG:NH1	2:C:862:ARG:HG2	2.36	0.40
2:B:1044:ARG:HH12	2:B:1049:GLU:HG3	1.86	0.40
2:C:1076:ILE:CD1	2:C:1168:ILE:HG13	2.51	0.40
2:B:655:ILE:HG23	2:B:656:VAL:N	2.36	0.40
2:C:1148:SER:OG	2:C:1151:VAL:HG23	2.21	0.40
2:B:909:TYR:O	2:B:913:ASN:HB2	2.21	0.40
1:A:573:ARG:HH11	1:A:573:ARG:HG3	1.85	0.40
2:B:1236:ILE:O	2:B:1237:SER:C	2.60	0.40
2:C:1286:VAL:O	2:C:1287:GLY:O	2.38	0.40
1:A:959:TYR:OH	1:A:1054:LYS:HD3	2.21	0.40
1:A:999:VAL:CG1	1:A:1001:ALA:HB3	2.51	0.40
2:B:423:GLU:O	2:B:424:GLY:C	2.59	0.40
2:C:489:MET:HE2	2:C:490:PHE:N	2.36	0.40
2:C:773:PRO:HG2	2:C:774:LEU:N	2.36	0.40
2:B:945:VAL:CG1	2:C:641:ARG:HG3	2.52	0.40
2:B:313:ASP:O	2:B:317:MET:HB2	2.21	0.40
2:B:1211:LEU:CD2	2:B:1211:LEU:N	2.84	0.40
2:B:929:PHE:O	2:B:931:ASN:N	2.54	0.40
3:D:3:GLN:HA	3:D:3:GLN:HE21	1.86	0.40
1:A:845:ILE:CG2	1:A:920:LEU:HD21	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1104:ARG:HH12	2:B:1105:LEU:CD2	2.31	0.40
1:A:445:TYR:HE2	1:A:625:PHE:N	2.19	0.40
1:A:677:LEU:HD23	1:A:692:ILE:HA	2.03	0.40
1:A:304:TYR:O	1:A:308:ALA:N	2.54	0.40
2:B:1113:LYS:O	2:B:1114:ARG:CB	2.69	0.40
1:A:633:ILE:HG12	1:A:664:ARG:NH1	2.32	0.40
1:A:573:ARG:HH11	1:A:573:ARG:CG	2.35	0.40
2:C:716:PHE:O	2:C:717:THR:OG1	2.32	0.40
2:B:495:LEU:HA	2:B:495:LEU:HD12	1.80	0.40
2:B:762:ILE:HD12	2:B:762:ILE:HA	1.67	0.40
2:B:540:PHE:CE2	2:B:600:ILE:HG13	2.57	0.40
2:C:685:ARG:O	2:C:688:GLU:CG	2.55	0.40
1:A:540:LYS:O	1:A:543:GLU:CG	2.69	0.40
1:A:858:VAL:CG2	1:A:872:VAL:CG2	2.97	0.40
1:A:872:VAL:CG2	1:A:873:PRO:HD2	2.52	0.40
2:B:498:ILE:HG21	2:B:510:VAL:HG13	2.03	0.40
2:B:868:VAL:HG23	2:B:869:PRO:O	2.21	0.40
1:A:717:THR:C	1:A:719:VAL:N	2.73	0.40
3:E:178:LYS:HE3	3:E:178:LYS:HB2	1.90	0.40
3:E:102:SER:HB2	3:E:114:SER:N	2.36	0.40
2:C:421:ARG:HG2	2:C:421:ARG:NH1	2.36	0.40
2:B:787:ILE:HG22	2:B:788:MET:N	2.36	0.40
3:E:244:VAL:HG12	3:E:245:THR:N	2.35	0.40
2:B:435:ALA:HB2	2:B:479:HIS:CD2	2.57	0.40
1:A:657:MET:O	1:A:661:VAL:HG23	2.21	0.40
2:C:1042:TRP:O	2:C:1042:TRP:HE3	2.05	0.40
2:C:1155:ILE:HG13	2:C:1164:TRP:CZ3	2.57	0.40
1:A:816:LEU:HA	1:A:816:LEU:HD23	1.77	0.40
2:C:382:HIS:O	2:C:383:SER:CB	2.68	0.40
1:A:49:HIS:O	1:A:49:HIS:CD2	2.74	0.40
2:C:836:GLN:HE22	2:C:843:LEU:CA	2.32	0.40
2:B:887:VAL:HA	2:B:890:THR:CG2	2.52	0.40
1:A:876:MET:HA	1:A:876:MET:HE2	2.04	0.40
1:A:799:ARG:NH1	1:A:800:SER:H	2.19	0.40
2:C:170:TYR:O	2:C:171:GLU:C	2.55	0.40
2:C:375:ARG:HG3	2:C:375:ARG:HH11	1.85	0.40
2:B:868:VAL:O	2:B:869:PRO:O	2.39	0.40
2:C:327:LEU:C	2:C:327:LEU:HD23	2.41	0.40
2:C:577:GLN:C	2:C:579:LEU:H	2.25	0.40
3:D:171:VAL:O	3:D:172:MET:HB2	2.22	0.40
2:C:420:PRO:O	2:C:421:ARG:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:181:ARG:HG3	2:B:181:ARG:NH1	2.36	0.40
3:D:147:ALA:HB2	3:D:281:LYS:HA	2.03	0.40
2:C:734:ILE:CD1	2:C:1019:ILE:HG12	2.51	0.40
2:B:197:PHE:CE1	2:B:1242:MET:SD	3.14	0.40
2:B:1152:ALA:O	2:B:1153:ASP:C	2.59	0.40
2:B:1139:MET:CE	2:B:1155:ILE:HD11	2.48	0.40
1:A:127:THR:HG22	2:B:641:ARG:NH1	2.37	0.40
2:C:874:ILE:HA	2:C:874:ILE:HD13	1.91	0.40
3:D:254:TYR:CD2	3:D:254:TYR:N	2.86	0.40
1:A:497:ALA:HA	1:A:571:ILE:CG2	2.52	0.40
2:C:407:HIS:O	2:C:411:CYS:N	2.42	0.40
2:C:716:PHE:CD1	2:C:717:THR:N	2.90	0.40
3:D:103:ALA:CB	3:D:113:ASN:HA	2.50	0.40
3:D:93:LEU:O	3:D:93:LEU:HG	2.21	0.40
3:D:208:LEU:HD22	3:D:208:LEU:N	2.36	0.40
3:E:140:ALA:HB2	3:E:281:LYS:HB2	2.03	0.40
2:B:1121:HIS:CG	2:B:1123:PRO:HD2	2.56	0.40
1:A:391:ILE:H	1:A:391:ILE:CD1	2.34	0.40
2:B:141:LEU:CD2	2:B:141:LEU:H	2.35	0.40
1:A:672:PHE:HB3	1:A:673:TYR:H	1.44	0.40
3:E:213:LEU:HD13	3:E:213:LEU:C	2.42	0.40
2:C:88:LYS:HB3	2:C:88:LYS:HE2	1.93	0.40
2:C:1019:ILE:O	2:C:1019:ILE:HG22	2.21	0.40
1:A:306:GLN:OE1	1:A:307:HIS:N	2.55	0.40
1:A:400:VAL:CG1	1:A:772:TRP:HZ3	2.30	0.40
2:B:775:VAL:O	2:B:776:ARG:C	2.60	0.40
1:A:621:GLU:HB3	1:A:623:GLN:CD	2.40	0.40
1:A:407:GLU:CA	1:A:826:PHE:CD2	2.98	0.40
2:B:646:ASN:HB3	2:B:647:GLU:H	1.66	0.40
2:C:850:THR:O	2:C:918:VAL:HA	2.22	0.40
3:D:176:ARG:NH2	3:D:254:TYR:CZ	2.88	0.40
2:C:226:PRO:HG2	2:C:251:LEU:HD12	2.02	0.40
1:A:630:SER:HA	1:A:633:ILE:HG21	1.98	0.40
2:B:265:VAL:HG23	2:B:1304:MET:HA	2.04	0.40
1:A:999:VAL:HG12	1:A:1001:ALA:HB3	2.04	0.40
1:A:1010:ILE:CG2	1:A:1012:ILE:CD1	2.97	0.40
1:A:38:TYR:HD2	1:A:51:LEU:CD1	2.35	0.40
3:E:107:LEU:CD1	3:E:107:LEU:C	2.89	0.40
1:A:413:VAL:HG11	1:A:494:THR:HG21	2.04	0.40
1:A:494:THR:CG2	1:A:495:LEU:N	2.83	0.40
1:A:275:ILE:O	1:A:278:LEU:N	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1141:ILE:HD13	2:B:1147:MET:HE3	2.01	0.40
2:B:543:TRP:CE3	2:B:666:ARG:HG2	2.56	0.40
1:A:844:LEU:HD22	1:A:1017:ILE:HG22	2.01	0.40
2:C:400:GLU:CG	2:C:401:LEU:N	2.84	0.40
2:C:837:THR:O	2:C:838:GLU:HB2	2.21	0.40
1:A:546:ALA:O	1:A:547:THR:HB	2.22	0.40
2:C:344:VAL:HG23	2:C:346:HIS:CD2	2.56	0.40
2:C:212:PHE:HD2	2:C:212:PHE:O	2.02	0.40
1:A:223:SER:OG	1:A:226:ASP:HB2	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1055/1058 (100%)	659 (62%)	233 (22%)	163 (16%)	0	0
2	B	1187/1333 (89%)	800 (67%)	183 (15%)	204 (17%)	0	0
2	C	1245/1333 (93%)	861 (69%)	207 (17%)	177 (14%)	0	1
3	D	288/448 (64%)	203 (70%)	46 (16%)	39 (14%)	0	1
3	E	288/448 (64%)	191 (66%)	55 (19%)	42 (15%)	0	1
All	All	4063/4620 (88%)	2714 (67%)	724 (18%)	625 (15%)	1	0

All (625) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	48	SER
1	A	63	SER
1	A	123	SER
1	A	135	VAL
1	A	202	SER

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Mol	Chain	Res	Type
1	A	203	THR
1	A	213	TRP
1	A	256	VAL
1	A	265	SER
1	A	266	SER
1	A	267	THR
1	A	283	PHE
1	A	291	SER
1	A	309	ASN
1	A	330	GLN
1	A	360	THR
1	A	364	TYR
1	A	367	ASN
1	A	384	GLU
1	A	399	ASP
1	A	406	VAL
1	A	486	THR
1	A	506	VAL
1	A	509	ARG
1	A	552	MET
1	A	553	ALA
1	A	554	PRO
1	A	580	SER
1	A	600	VAL
1	A	617	ILE
1	A	620	TYR
1	A	623	GLN
1	A	626	GLU
1	A	643	ALA
1	A	652	HIS
1	A	683	GLN
1	A	685	PRO
1	A	687	SER
1	A	701	VAL
1	A	704	PRO
1	A	705	PHE
1	A	730	ILE
1	A	740	THR
1	A	768	GLU
1	A	789	PRO
1	A	797	ARG
1	A	799	ARG

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Mol	Chain	Res	Type
1	A	801	ASN
1	A	805	TYR
1	A	812	VAL
1	A	818	PHE
1	A	821	ARG
1	A	896	ASN
1	A	913	LEU
1	A	988	LYS
1	A	1037	SER
1	A	1050	SER
2	B	143	VAL
2	B	154	PHE
2	B	172	ASP
2	B	180	LEU
2	B	201	ALA
2	B	207	ASP
2	B	223	LYS
2	B	226	PRO
2	B	227	LEU
2	B	241	ALA
2	B	267	VAL
2	B	299	ALA
2	B	307	VAL
2	B	335	ASP
2	B	339	LEU
2	B	351	ASP
2	B	369	ASN
2	B	383	SER
2	B	384	MET
2	B	385	ILE
2	B	386	SER
2	B	391	GLY
2	B	395	GLY
2	B	401	LEU
2	B	402	ALA
2	B	404	ASP
2	B	452	ASN
2	B	495	LEU
2	B	555	GLY
2	B	582	SER
2	B	583	GLU
2	B	595	ALA

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Mol	Chain	Res	Type
2	B	616	ASP
2	B	617	ASP
2	B	629	ARG
2	B	641	ARG
2	B	644	VAL
2	B	645	THR
2	B	671	ASP
2	B	713	MET
2	B	715	ASN
2	B	726	THR
2	B	738	GLU
2	B	748	GLN
2	B	753	ASP
2	B	756	THR
2	B	760	THR
2	B	840	ASP
2	B	843	LEU
2	B	856	LEU
2	B	857	SER
2	B	903	ASN
2	B	923	TYR
2	B	939	ASN
2	B	951	ILE
2	B	955	ALA
2	B	995	THR
2	B	1011	SER
2	B	1012	LEU
2	B	1025	ASP
2	B	1043	SER
2	B	1069	ARG
2	B	1093	PRO
2	B	1125	GLY
2	B	1134	ARG
2	B	1147	MET
2	B	1200	LYS
2	B	1217	ALA
2	B	1250	GLU
2	B	1264	GLU
2	B	1265	MET
2	B	1324	ASP
2	C	84	ALA
2	C	90	ALA

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Mol	Chain	Res	Type
2	C	141	LEU
2	C	143	VAL
2	C	152	ASP
2	C	207	ASP
2	C	219	ILE
2	C	221	LEU
2	C	228	VAL
2	C	229	GLN
2	C	276	ASN
2	C	294	VAL
2	C	298	PRO
2	C	307	VAL
2	C	339	LEU
2	C	384	MET
2	C	385	ILE
2	C	446	LYS
2	C	496	LYS
2	C	505	PRO
2	C	574	LYS
2	C	595	ALA
2	C	609	PRO
2	C	626	ARG
2	C	627	ALA
2	C	631	PRO
2	C	715	ASN
2	C	721	SER
2	C	827	GLY
2	C	831	VAL
2	C	839	ALA
2	C	840	ASP
2	C	843	LEU
2	C	857	SER
2	C	871	PRO
2	C	903	ASN
2	C	921	ASP
2	C	923	TYR
2	C	932	ALA
2	C	934	LEU
2	C	938	ASN
2	C	939	ASN
2	C	1002	LEU
2	C	1004	PHE

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Mol	Chain	Res	Type
2	C	1028	VAL
2	C	1037	ILE
2	C	1044	ARG
2	C	1069	ARG
2	C	1093	PRO
2	C	1134	ARG
2	C	1135	PRO
2	C	1143	GLU
2	C	1185	THR
2	C	1250	GLU
2	C	1251	VAL
2	C	1265	MET
2	C	1269	THR
2	C	1288	ILE
2	C	1329	ASN
3	D	4	GLN
3	D	5	PRO
3	D	13	GLU
3	D	57	PRO
3	D	79	ILE
3	D	80	SER
3	D	82	GLN
3	D	83	ASN
3	D	90	PHE
3	D	146	ARG
3	D	149	MET
3	D	207	SER
3	D	209	GLU
3	D	237	ALA
3	E	5	PRO
3	E	14	GLN
3	E	19	ILE
3	E	24	THR
3	E	54	THR
3	E	79	ILE
3	E	80	SER
3	E	84	VAL
3	E	85	ASN
3	E	114	SER
3	E	121	PHE
3	E	140	ALA
3	E	183	GLU

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Mol	Chain	Res	Type
3	E	196	TRP
3	E	209	GLU
3	E	237	ALA
1	A	28	PRO
1	A	38	TYR
1	A	44	SER
1	A	62	PHE
1	A	71	LEU
1	A	116	MET
1	A	129	PRO
1	A	151	ASN
1	A	158	GLY
1	A	167	THR
1	A	171	ILE
1	A	187	PRO
1	A	199	MET
1	A	276	GLY
1	A	308	ALA
1	A	322	ASP
1	A	328	MET
1	A	350	PRO
1	A	369	GLY
1	A	388	VAL
1	A	398	GLU
1	A	426	ARG
1	A	462	ILE
1	A	501	SER
1	A	546	ALA
1	A	578	ASN
1	A	610	ALA
1	A	619	SER
1	A	622	ASP
1	A	625	PHE
1	A	671	VAL
1	A	672	PHE
1	A	709	SER
1	A	798	THR
1	A	815	GLY
1	A	822	LYS
1	A	864	ARG
1	A	868	ASP
1	A	914	GLU

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Mol	Chain	Res	Type
1	A	924	VAL
1	A	981	ARG
1	A	984	GLU
1	A	989	VAL
2	B	183	SER
2	B	191	GLY
2	B	209	ASN
2	B	232	LEU
2	B	238	THR
2	B	276	ASN
2	B	329	LEU
2	B	337	VAL
2	B	393	ASN
2	B	403	PHE
2	B	446	LYS
2	B	454	GLU
2	B	477	SER
2	B	491	ASN
2	B	573	GLU
2	B	574	LYS
2	B	584	HIS
2	B	596	GLY
2	B	597	ALA
2	B	628	SER
2	B	632	GLN
2	B	729	PRO
2	B	751	THR
2	B	755	LEU
2	B	757	ILE
2	B	761	SER
2	B	766	ILE
2	B	776	ARG
2	B	791	ILE
2	B	797	SER
2	B	921	ASP
2	B	922	TYR
2	B	929	PHE
2	B	930	ALA
2	B	973	THR
2	B	1007	THR
2	B	1033	ASP
2	B	1066	ARG

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Mol	Chain	Res	Type
2	B	1088	PHE
2	B	1095	GLY
2	B	1113	LYS
2	B	1114	ARG
2	B	1183	GLY
2	B	1187	HIS
2	B	1237	SER
2	B	1256	GLY
2	B	1262	SER
2	B	1267	THR
2	B	1271	SER
2	B	1299	SER
2	B	1306	THR
2	B	1328	ILE
2	B	1332	ASN
2	C	76	ALA
2	C	128	GLU
2	C	140	GLY
2	C	175	THR
2	C	190	VAL
2	C	235	ILE
2	C	288	THR
2	C	310	LEU
2	C	314	ILE
2	C	335	ASP
2	C	421	ARG
2	C	440	ILE
2	C	473	ALA
2	C	578	ALA
2	C	628	SER
2	C	644	VAL
2	C	645	THR
2	C	749	GLY
2	C	796	PRO
2	C	829	SER
2	C	856	LEU
2	C	867	ASN
2	C	900	GLY
2	C	905	PRO
2	C	948	ILE
2	C	996	ASP
2	C	1025	ASP

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Mol	Chain	Res	Type
2	C	1096	TYR
2	C	1114	ARG
2	C	1129	PRO
2	C	1149	LYS
2	C	1160	ILE
2	C	1200	LYS
2	C	1209	GLY
2	C	1236	ILE
2	C	1237	SER
2	C	1244	ALA
2	C	1263	TYR
2	C	1267	THR
2	C	1285	GLN
2	C	1287	GLY
2	C	1290	LYS
2	C	1293	VAL
2	C	1299	SER
2	C	1306	THR
2	C	1312	GLY
3	D	59	ALA
3	D	78	GLY
3	D	117	ILE
3	D	131	ALA
3	D	137	LEU
3	D	183	GLU
3	D	198	ILE
3	D	210	GLY
3	E	26	ALA
3	E	41	GLU
3	E	82	GLN
3	E	146	ARG
3	E	162	GLY
3	E	165	ALA
3	E	208	LEU
1	A	75	PRO
1	A	91	ASN
1	A	113	TYR
1	A	115	TRP
1	A	311	GLN
1	A	361	SER
1	A	382	ALA
1	A	409	MET

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Mol	Chain	Res	Type
1	A	450	SER
1	A	487	GLN
1	A	523	MET
1	A	611	ASP
1	A	686	TYR
1	A	703	PHE
1	A	720	ALA
1	A	721	ASP
1	A	870	SER
1	A	993	VAL
1	A	1038	THR
2	B	175	THR
2	B	222	THR
2	B	229	GLN
2	B	277	THR
2	B	293	ASN
2	B	300	LEU
2	B	306	GLN
2	B	368	ALA
2	B	623	ASN
2	B	724	HIS
2	B	869	PRO
2	B	876	GLY
2	B	901	VAL
2	B	913	ASN
2	B	959	GLN
2	B	1009	THR
2	B	1027	THR
2	B	1032	ASP
2	B	1077	MET
2	B	1086	PRO
2	B	1181	SER
2	B	1197	PRO
2	B	1219	ASP
2	B	1251	VAL
2	B	1260	PRO
2	B	1283	ASN
2	B	1300	ASN
2	B	1331	ARG
2	C	103	GLY
2	C	107	GLN
2	C	117	ARG

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Mol	Chain	Res	Type
2	C	119	ASP
2	C	241	ALA
2	C	273	PRO
2	C	442	PRO
2	C	497	LYS
2	C	623	ASN
2	C	646	ASN
2	C	799	THR
2	C	832	MET
2	C	1010	ARG
2	C	1014	MET
2	C	1084	PRO
2	C	1179	THR
2	C	1216	SER
2	C	1274	GLY
2	C	1295	HIS
2	C	1326	ARG
2	C	1332	ASN
3	D	8	GLY
3	D	9	TYR
3	D	47	LYS
3	D	60	ARG
3	D	120	PRO
3	D	121	PHE
3	D	163	THR
3	E	52	PRO
3	E	88	GLY
3	E	117	ILE
3	E	134	TYR
3	E	253	GLU
3	E	263	ALA
1	A	53	LEU
1	A	149	ALA
1	A	193	ASN
1	A	285	GLU
1	A	315	LEU
1	A	344	PRO
1	A	358	ILE
1	A	387	THR
1	A	389	ALA
1	A	410	SER
1	A	448	LYS

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Mol	Chain	Res	Type
1	A	508	ASN
1	A	594	PRO
1	A	684	ASN
1	A	717	THR
2	B	178	ASP
2	B	231	LEU
2	B	274	MET
2	B	275	SER
2	B	322	GLY
2	B	327	LEU
2	B	493	HIS
2	B	767	LEU
2	B	935	GLN
2	B	936	MET
2	B	958	ILE
2	B	974	LEU
2	B	1008	LEU
2	B	1013	LYS
2	B	1081	ASP
2	B	1121	HIS
2	B	1146	GLY
2	B	1191	GLU
2	B	1236	ILE
2	B	1259	ALA
2	B	1278	TYR
2	C	98	ASN
2	C	209	ASN
2	C	222	THR
2	C	325	TYR
2	C	350	ILE
2	C	402	ALA
2	C	449	PHE
2	C	504	ASP
2	C	630	ASN
2	C	773	PRO
2	C	925	VAL
2	C	931	ASN
2	C	955	ALA
2	C	1278	TYR
3	D	20	ARG
3	D	196	TRP
3	D	199	LEU

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Mol	Chain	Res	Type
3	E	13	GLU
3	E	62	VAL
3	E	96	LEU
3	E	103	ALA
3	E	265	ARG
1	A	22	ILE
1	A	32	PRO
1	A	58	GLN
1	A	85	ALA
1	A	101	LEU
1	A	119	VAL
1	A	173	ASP
1	A	176	SER
1	A	310	ASP
1	A	467	SER
1	A	547	THR
1	A	566	GLU
1	A	790	ALA
1	A	800	SER
1	A	853	GLU
2	B	200	GLY
2	B	342	THR
2	B	492	VAL
2	B	825	SER
2	B	931	ASN
2	B	938	ASN
2	B	1024	PRO
2	B	1030	ARG
2	B	1109	SER
2	B	1118	THR
2	B	1160	ILE
2	B	1172	GLU
2	B	1180	PRO
2	B	1280	PRO
2	C	132	PRO
2	C	237	VAL
2	C	317	MET
2	C	340	VAL
2	C	544	TYR
2	C	545	PRO
2	C	616	ASP
2	C	716	PHE

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Mol	Chain	Res	Type
2	C	738	GLU
2	C	756	THR
2	C	790	GLU
2	C	947	GLU
2	C	993	ASP
2	C	1031	TYR
2	C	1083	ASP
2	C	1186	GLN
2	C	1259	ALA
2	C	1282	ALA
3	D	99	PRO
3	D	114	SER
3	E	6	THR
3	E	42	ASN
3	E	45	VAL
1	A	146	PRO
1	A	719	VAL
1	A	752	VAL
1	A	903	PRO
1	A	930	ASN
1	A	1036	GLY
2	B	451	GLU
2	B	497	LYS
2	B	1044	ARG
2	B	1078	TYR
2	B	1210	LEU
2	B	1258	VAL
2	C	395	GLY
2	C	401	LEU
2	C	492	VAL
2	C	828	ASP
2	C	937	ASN
2	C	1172	GLU
2	C	1291	LEU
2	C	1330	ILE
3	D	92	ARG
3	D	130	PHE
3	D	172	MET
3	E	10	THR
3	E	28	PRO
3	E	210	GLY
3	E	244	VAL

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Mol	Chain	Res	Type
2	B	398	ARG
2	B	545	PRO
2	B	868	VAL
2	C	240	GLY
2	C	624	PHE
2	C	668	VAL
2	C	951	ILE
2	C	1183	GLY
3	E	172	MET
1	A	1019	PRO
2	B	773	PRO
2	B	1028	VAL
1	A	89	ILE
1	A	734	ILE
2	B	298	PRO
2	B	796	PRO
2	B	1289	PRO
2	C	1177	VAL
3	D	244	VAL
1	A	27	LYS
1	A	365	ILE
1	A	928	GLU
1	A	980	ILE
2	B	611	GLY
2	B	1268	GLY
2	C	234	PRO
2	C	1035	ILE
2	C	1125	GLY
2	C	1232	PRO
3	D	257	VAL
2	C	870	ASP
1	A	653	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	942/943 (100%)	786 (83%)	156 (17%)	3	12
2	B	1038/1153 (90%)	891 (86%)	147 (14%)	4	18
2	C	1088/1153 (94%)	928 (85%)	160 (15%)	4	16
3	D	238/379 (63%)	204 (86%)	34 (14%)	4	17
3	E	238/379 (63%)	203 (85%)	35 (15%)	4	16
All	All	3544/4007 (88%)	3012 (85%)	532 (15%)	7	15

All (532) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	9	ASN
1	A	18	LYS
1	A	20	ASN
1	A	21	GLN
1	A	22	ILE
1	A	26	THR
1	A	27	LYS
1	A	28	PRO
1	A	30	THR
1	A	38	TYR
1	A	40	TYR
1	A	45	GLN
1	A	49	HIS
1	A	67	ARG
1	A	71	LEU
1	A	73	ARG
1	A	100	HIS
1	A	114	ASN
1	A	115	TRP
1	A	117	LEU
1	A	122	ARG
1	A	128	THR
1	A	129	PRO
1	A	140	ILE
1	A	163	ASP
1	A	166	ILE
1	A	168	ASN
1	A	173	ASP
1	A	183	ILE
1	A	191	GLU

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Mol	Chain	Res	Type
1	A	193	ASN
1	A	196	LEU
1	A	199	MET
1	A	200	ARG
1	A	204	LEU
1	A	210	SER
1	A	216	LEU
1	A	217	HIS
1	A	222	ARG
1	A	227	MET
1	A	234	LYS
1	A	236	LEU
1	A	242	LYS
1	A	255	ARG
1	A	256	VAL
1	A	259	ARG
1	A	270	GLN
1	A	271	ARG
1	A	275	ILE
1	A	297	LEU
1	A	298	LEU
1	A	307	HIS
1	A	311	GLN
1	A	312	LEU
1	A	316	TYR
1	A	318	ARG
1	A	319	MET
1	A	324	ARG
1	A	330	GLN
1	A	333	GLN
1	A	347	LEU
1	A	351	TYR
1	A	352	THR
1	A	355	PHE
1	A	406	VAL
1	A	408	PRO
1	A	416	MET
1	A	426	ARG
1	A	434	GLN
1	A	453	LEU
1	A	461	ARG
1	A	469	LEU

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Mol	Chain	Res	Type
1	A	479	LYS
1	A	483	MET
1	A	486	THR
1	A	492	HIS
1	A	493	LEU
1	A	495	LEU
1	A	501	SER
1	A	504	THR
1	A	508	ASN
1	A	519	ILE
1	A	527	ASN
1	A	545	PHE
1	A	548	ASN
1	A	552	MET
1	A	555	ASP
1	A	565	ARG
1	A	573	ARG
1	A	578	ASN
1	A	589	ASP
1	A	602	PHE
1	A	612	PHE
1	A	628	MET
1	A	629	PHE
1	A	644	THR
1	A	645	ARG
1	A	649	LYS
1	A	653	PRO
1	A	664	ARG
1	A	667	GLN
1	A	668	LEU
1	A	688	TYR
1	A	695	THR
1	A	701	VAL
1	A	703	PHE
1	A	708	ASN
1	A	711	MET
1	A	715	TYR
1	A	731	HIS
1	A	739	ASN
1	A	749	CYS
1	A	763	LYS
1	A	772	TRP

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Mol	Chain	Res	Type
1	A	779	ASN
1	A	783	ILE
1	A	786	ARG
1	A	797	ARG
1	A	799	ARG
1	A	805	TYR
1	A	818	PHE
1	A	825	GLU
1	A	832	GLU
1	A	838	LYS
1	A	844	LEU
1	A	846	ARG
1	A	855	MET
1	A	864	ARG
1	A	865	ASN
1	A	866	LEU
1	A	890	LEU
1	A	903	PRO
1	A	904	PHE
1	A	910	ASN
1	A	916	ASN
1	A	927	ASN
1	A	944	ARG
1	A	970	ARG
1	A	977	HIS
1	A	978	LYS
1	A	980	ILE
1	A	987	LEU
1	A	998	LEU
1	A	1007	LEU
1	A	1008	ARG
1	A	1015	GLU
1	A	1024	LEU
1	A	1028	CYS
1	A	1030	ASN
1	A	1033	ILE
1	A	1034	ARG
1	A	1035	LEU
1	A	1046	PHE
1	A	1054	LYS
1	A	1057	ARG
2	B	137	ILE

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Mol	Chain	Res	Type
2	B	144	ASN
2	B	160	PRO
2	B	161	LYS
2	B	171	GLU
2	B	174	PHE
2	B	188	ARG
2	B	197	PHE
2	B	207	ASP
2	B	212	PHE
2	B	231	LEU
2	B	252	LEU
2	B	267	VAL
2	B	274	MET
2	B	284	ASN
2	B	289	THR
2	B	294	VAL
2	B	301	LEU
2	B	304	PHE
2	B	306	GLN
2	B	310	LEU
2	B	330	THR
2	B	333	ARG
2	B	334	LEU
2	B	352	HIS
2	B	361	ASN
2	B	363	ARG
2	B	371	THR
2	B	377	LYS
2	B	379	LEU
2	B	382	HIS
2	B	388	GLN
2	B	393	ASN
2	B	401	LEU
2	B	414	LEU
2	B	419	TYR
2	B	428	GLN
2	B	438	ASN
2	B	462	LEU
2	B	467	LYS
2	B	469	ARG
2	B	484	ARG
2	B	486	VAL

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Mol	Chain	Res	Type
2	B	490	PHE
2	B	491	ASN
2	B	522	PRO
2	B	525	PHE
2	B	527	ARG
2	B	532	ILE
2	B	539	PHE
2	B	542	ARG
2	B	546	VAL
2	B	557	THR
2	B	558	TYR
2	B	565	GLU
2	B	571	ARG
2	B	580	TYR
2	B	581	LEU
2	B	610	GLN
2	B	612	PHE
2	B	626	ARG
2	B	630	ASN
2	B	632	GLN
2	B	637	TYR
2	B	639	ASN
2	B	640	GLN
2	B	641	ARG
2	B	651	ARG
2	B	661	ASN
2	B	664	ASN
2	B	677	ARG
2	B	684	LEU
2	B	686	HIS
2	B	687	LEU
2	B	691	PHE
2	B	711	ASN
2	B	716	PHE
2	B	720	PHE
2	B	723	ASN
2	B	741	TYR
2	B	747	ARG
2	B	748	GLN
2	B	762	ILE
2	B	767	LEU
2	B	773	PRO

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Mol	Chain	Res	Type
2	B	777	GLN
2	B	813	LEU
2	B	855	TYR
2	B	860	ARG
2	B	861	GLU
2	B	868	VAL
2	B	922	TYR
2	B	923	TYR
2	B	928	ARG
2	B	931	ASN
2	B	933	ASN
2	B	934	LEU
2	B	946	LEU
2	B	957	PHE
2	B	961	SER
2	B	965	ARG
2	B	985	ARG
2	B	1005	LEU
2	B	1010	ARG
2	B	1012	LEU
2	B	1018	GLN
2	B	1022	ILE
2	B	1060	ARG
2	B	1061	LEU
2	B	1067	ILE
2	B	1072	ASN
2	B	1075	ARG
2	B	1086	PRO
2	B	1106	PHE
2	B	1112	ASN
2	B	1116	ARG
2	B	1119	TYR
2	B	1135	PRO
2	B	1142	ASN
2	B	1150	LEU
2	B	1154	ASN
2	B	1164	TRP
2	B	1171	ILE
2	B	1172	GLU
2	B	1179	THR
2	B	1186	GLN
2	B	1198	LYS

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Mol	Chain	Res	Type
2	B	1202	PHE
2	B	1204	LEU
2	B	1210	LEU
2	B	1212	ARG
2	B	1225	GLU
2	B	1227	MET
2	B	1238	VAL
2	B	1240	ARG
2	B	1250	GLU
2	B	1255	ARG
2	B	1270	LEU
2	B	1275	ASP
2	B	1276	LEU
2	B	1279	SER
2	B	1290	LYS
2	B	1296	ILE
2	B	1300	ASN
2	B	1319	ARG
2	B	1321	ASN
2	B	1331	ARG
2	C	98	ASN
2	C	105	MET
2	C	117	ARG
2	C	124	GLN
2	C	125	PHE
2	C	127	ASN
2	C	137	ILE
2	C	139	ASN
2	C	144	ASN
2	C	157	ILE
2	C	164	LEU
2	C	169	LYS
2	C	170	TYR
2	C	171	GLU
2	C	174	PHE
2	C	175	THR
2	C	176	LYS
2	C	198	LYS
2	C	207	ASP
2	C	209	ASN
2	C	210	ARG
2	C	251	LEU

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Mol	Chain	Res	Type
2	C	274	MET
2	C	277	THR
2	C	278	LEU
2	C	291	HIS
2	C	294	VAL
2	C	298	PRO
2	C	300	LEU
2	C	301	LEU
2	C	302	ARG
2	C	304	PHE
2	C	310	LEU
2	C	319	GLN
2	C	320	GLN
2	C	327	LEU
2	C	330	THR
2	C	334	LEU
2	C	337	VAL
2	C	339	LEU
2	C	348	LEU
2	C	362	LEU
2	C	369	ASN
2	C	373	ASP
2	C	375	ARG
2	C	384	MET
2	C	398	ARG
2	C	406	ASP
2	C	407	HIS
2	C	427	VAL
2	C	434	VAL
2	C	441	ARG
2	C	447	ARG
2	C	455	GLN
2	C	489	MET
2	C	491	ASN
2	C	498	ILE
2	C	503	GLU
2	C	513	GLU
2	C	516	LEU
2	C	521	PHE
2	C	522	PRO
2	C	525	PHE
2	C	527	ARG

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Mol	Chain	Res	Type
2	C	548	TYR
2	C	558	TYR
2	C	579	LEU
2	C	581	LEU
2	C	612	PHE
2	C	630	ASN
2	C	632	GLN
2	C	634	TYR
2	C	637	TYR
2	C	641	ARG
2	C	661	ASN
2	C	668	VAL
2	C	686	HIS
2	C	701	HIS
2	C	706	TYR
2	C	715	ASN
2	C	718	ASN
2	C	720	PHE
2	C	728	LYS
2	C	738	GLU
2	C	742	LYS
2	C	746	GLU
2	C	768	CYS
2	C	769	GLN
2	C	770	CYS
2	C	775	VAL
2	C	808	GLN
2	C	822	MET
2	C	836	GLN
2	C	848	ARG
2	C	849	MET
2	C	851	THR
2	C	853	ASP
2	C	856	LEU
2	C	859	ILE
2	C	860	ARG
2	C	891	HIS
2	C	903	ASN
2	C	915	VAL
2	C	937	ASN
2	C	939	ASN
2	C	941	TYR

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Mol	Chain	Res	Type
2	C	951	ILE
2	C	974	LEU
2	C	985	ARG
2	C	1001	THR
2	C	1002	LEU
2	C	1008	LEU
2	C	1010	ARG
2	C	1018	GLN
2	C	1020	ARG
2	C	1041	ARG
2	C	1042	TRP
2	C	1044	ARG
2	C	1054	ARG
2	C	1055	LEU
2	C	1059	LEU
2	C	1060	ARG
2	C	1061	LEU
2	C	1064	ASN
2	C	1066	ARG
2	C	1075	ARG
2	C	1110	LEU
2	C	1113	LYS
2	C	1116	ARG
2	C	1119	TYR
2	C	1131	PRO
2	C	1132	THR
2	C	1134	ARG
2	C	1135	PRO
2	C	1136	HIS
2	C	1139	MET
2	C	1150	LEU
2	C	1154	ASN
2	C	1163	ASN
2	C	1164	TRP
2	C	1176	GLU
2	C	1185	THR
2	C	1201	LEU
2	C	1202	PHE
2	C	1205	GLN
2	C	1206	PHE
2	C	1211	LEU
2	C	1226	ASP

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Mol	Chain	Res	Type
2	C	1238	VAL
2	C	1243	ARG
2	C	1249	ASN
2	C	1251	VAL
2	C	1253	ARG
2	C	1267	THR
2	C	1276	LEU
2	C	1277	LEU
2	C	1297	SER
2	C	1321	ASN
2	C	1330	ILE
2	C	1332	ASN
3	D	3	GLN
3	D	9	TYR
3	D	42	ASN
3	D	44	LEU
3	D	49	ILE
3	D	56	LEU
3	D	65	ASN
3	D	68	ILE
3	D	70	ASP
3	D	77	PHE
3	D	104	ARG
3	D	113	ASN
3	D	127	VAL
3	D	130	PHE
3	D	133	THR
3	D	136	LYS
3	D	151	ASP
3	D	158	LEU
3	D	164	ASP
3	D	167	ARG
3	D	175	LYS
3	D	205	LEU
3	D	213	LEU
3	D	214	ARG
3	D	216	PHE
3	D	250	ARG
3	D	258	ASN
3	D	265	ARG
3	D	271	TYR
3	D	273	LEU

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Mol	Chain	Res	Type
3	D	275	ARG
3	D	287	PHE
3	D	290	TRP
3	D	291	ASN
3	E	4	GLN
3	E	9	TYR
3	E	19	ILE
3	E	22	ASP
3	E	37	TRP
3	E	46	LYS
3	E	49	ILE
3	E	53	GLU
3	E	54	THR
3	E	55	HIS
3	E	56	LEU
3	E	61	ASN
3	E	62	VAL
3	E	70	ASP
3	E	72	ILE
3	E	77	PHE
3	E	83	ASN
3	E	92	ARG
3	E	93	LEU
3	E	144	ARG
3	E	151	ASP
3	E	158	LEU
3	E	171	VAL
3	E	172	MET
3	E	196	TRP
3	E	221	ARG
3	E	226	MET
3	E	228	LEU
3	E	243	LYS
3	E	258	ASN
3	E	261	ARG
3	E	268	THR
3	E	270	THR
3	E	290	TRP
3	E	291	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (136) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	20	ASN
1	A	45	GLN
1	A	49	HIS
1	A	58	GLN
1	A	125	ASN
1	A	142	ASN
1	A	145	ASN
1	A	147	GLN
1	A	168	ASN
1	A	194	HIS
1	A	208	HIS
1	A	212	HIS
1	A	214	ASN
1	A	230	HIS
1	A	258	GLN
1	A	270	GLN
1	A	281	ASN
1	A	309	ASN
1	A	339	GLN
1	A	345	ASN
1	A	363	ASN
1	A	367	ASN
1	A	385	HIS
1	A	395	GLN
1	A	434	GLN
1	A	487	GLN
1	A	492	HIS
1	A	526	ASN
1	A	576	ASN
1	A	578	ASN
1	A	652	HIS
1	A	731	HIS
1	A	739	ASN
1	A	753	GLN
1	A	779	ASN
1	A	801	ASN
1	A	837	HIS
1	A	875	ASN
1	A	892	GLN
1	A	910	ASN
1	A	939	GLN
1	A	991	ASN
1	A	1047	ASN

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Mol	Chain	Res	Type
2	B	144	ASN
2	B	148	GLN
2	B	291	HIS
2	B	306	GLN
2	B	352	HIS
2	B	388	GLN
2	B	407	HIS
2	B	438	ASN
2	B	455	GLN
2	B	456	ASN
2	B	479	HIS
2	B	491	ASN
2	B	526	ASN
2	B	630	ASN
2	B	646	ASN
2	B	664	ASN
2	B	690	GLN
2	B	698	HIS
2	B	711	ASN
2	B	715	ASN
2	B	719	ASN
2	B	723	ASN
2	B	724	HIS
2	B	731	GLN
2	B	748	GLN
2	B	777	GLN
2	B	854	GLN
2	B	864	HIS
2	B	898	GLN
2	B	931	ASN
2	B	935	GLN
2	B	954	GLN
2	B	966	GLN
2	B	978	GLN
2	B	1016	ASN
2	B	1034	GLN
2	B	1154	ASN
2	B	1205	GLN
2	B	1234	GLN
2	B	1248	HIS
2	B	1249	ASN
2	B	1295	HIS

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Mol	Chain	Res	Type
2	B	1332	ASN
2	C	98	ASN
2	C	124	GLN
2	C	139	ASN
2	C	144	ASN
2	C	209	ASN
2	C	243	GLN
2	C	308	ASN
2	C	319	GLN
2	C	349	ASN
2	C	369	ASN
2	C	388	GLN
2	C	390	HIS
2	C	393	ASN
2	C	455	GLN
2	C	491	ASN
2	C	623	ASN
2	C	646	ASN
2	C	669	GLN
2	C	686	HIS
2	C	715	ASN
2	C	724	HIS
2	C	769	GLN
2	C	836	GLN
2	C	854	GLN
2	C	858	HIS
2	C	891	HIS
2	C	903	ASN
2	C	937	ASN
2	C	939	ASN
2	C	959	GLN
2	C	1034	GLN
2	C	1051	GLN
2	C	1064	ASN
2	C	1203	HIS
2	C	1205	GLN
2	C	1234	GLN
2	C	1249	ASN
2	C	1321	ASN
3	D	3	GLN
3	D	25	ASN
3	D	30	GLN

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Mol	Chain	Res	Type
3	D	139	ASN
3	D	155	HIS
3	D	258	ASN
3	D	276	HIS
3	E	4	GLN
3	E	30	GLN
3	E	83	ASN
3	E	139	ASN
3	E	276	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.