



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 30, 2023 – 03:01 AM EDT

PDB ID : 3PRX
Title : Structure of Complement C5 in Complex with CVF and SSL7
Authors : Laursen, N.S.; Andersen, G.R.; Sottrup-Jensen, L.; Andersen, K.R.; Spillner, E.; Braren, I.
Deposited on : 2010-11-30
Resolution : 4.30 Å(reported)

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

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35

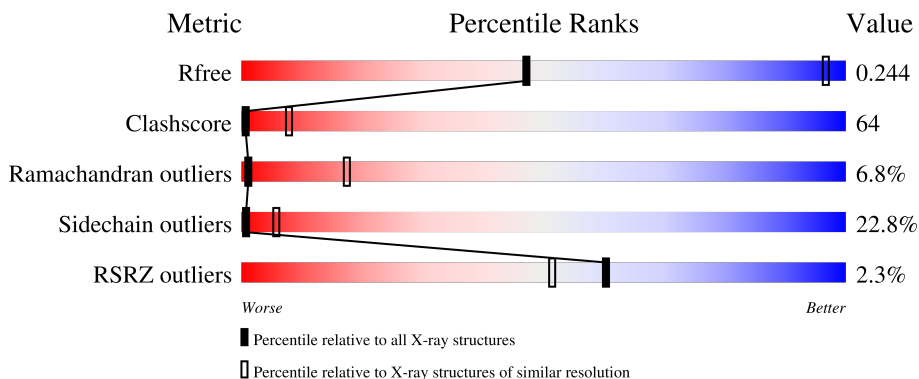
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.30 Å.

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







Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1014 (4.80-3.80)
Clashscore	141614	1077 (4.80-3.80)
Ramachandran outliers	138981	1029 (4.80-3.80)
Sidechain outliers	138945	1012 (4.80-3.80)
RSRZ outliers	127900	1075 (4.90-3.70)

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

Mol	Chain	Length	Quality of chain
1	A	1676	 24% 50% 21% . .
1	C	1676	 3% 23% 51% 21% . .
2	B	1642	 23% 38% 13% 26%
2	D	1642	 22% 39% 12% 26%
3	X	231	 11% 26% 44% 11% . 17%

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Mol	Chain	Length	Quality of chain
3	Y	231	
4	E	2	
4	F	2	
4	G	2	
4	H	2	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	NAG	E	1	-	-	-	X
4	NAG	E	2	-	-	-	X
4	NAG	F	1	-	-	-	X
4	NAG	F	2	-	-	-	X
4	NAG	G	2	-	-	-	X
4	NAG	H	1	-	-	-	X
4	NAG	H	2	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 48236 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Complement C5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1626	Total	C	N	O	S	0	0	0
			12874	8242	2113	2467	52			
1	C	1626	Total	C	N	O	S	0	0	0
			12874	8242	2113	2467	52			

- Molecule 2 is a protein called Cobra venom factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	1215	Total	C	N	O	S	0	0	0
			9635	6143	1617	1836	39			
2	D	1215	Total	C	N	O	S	0	0	0
			9635	6143	1617	1836	39			

- Molecule 3 is a protein called Superantigen-like protein 7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	X	191	Total	C	N	O	S	0	0	0
			1539	965	267	306	1			
3	Y	191	Total	C	N	O	S	0	0	0
			1539	965	267	306	1			

- Molecule 4 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



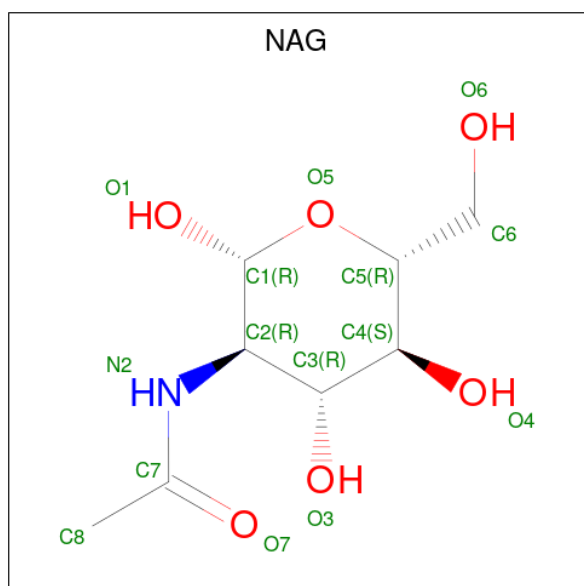
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
4	E	2	Total	C	N	O	0	0	0
			28	16	2	10			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
4	F	2	Total 28	C 16	N 2	O 10	0	0	0
4	G	2	Total 28	C 16	N 2	O 10	0	0	0
4	H	2	Total 28	C 16	N 2	O 10	0	0	0

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).

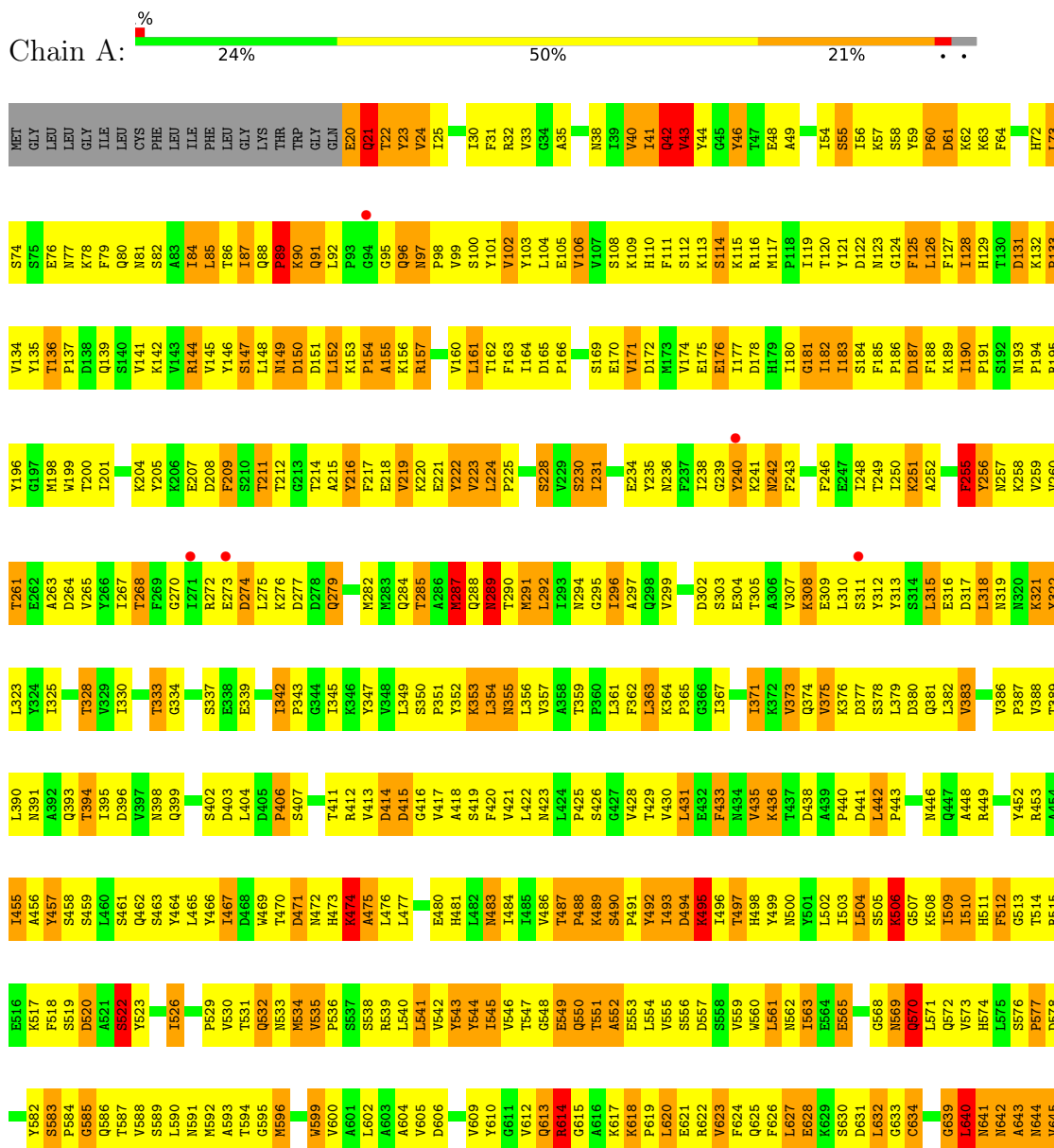


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
5	A	1	Total 14	C 8	N 1	O 5	0	0
5	C	1	Total 14	C 8	N 1	O 5	0	0

3 Residue-property plots

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

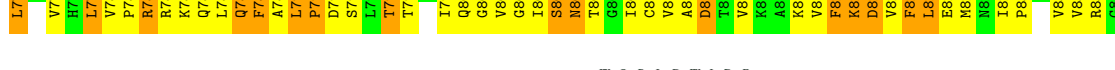
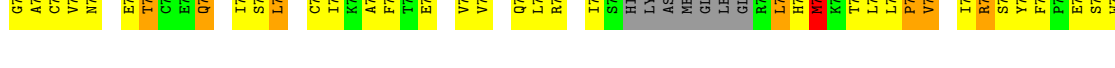
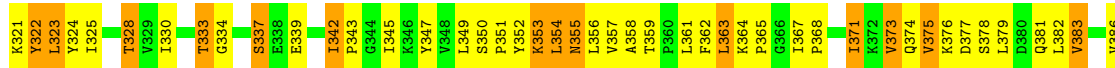
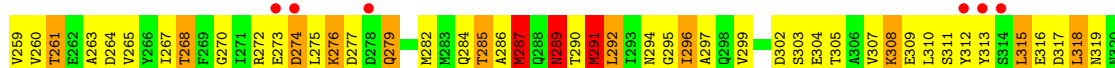
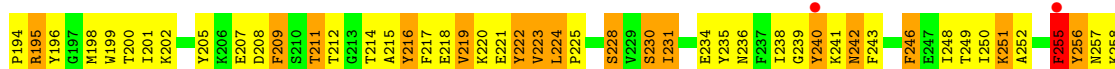
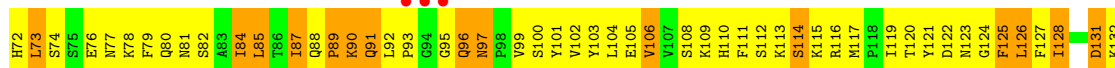
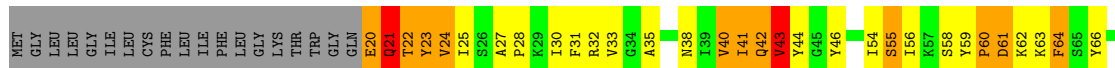
• Molecule 1: Complement C5



F646	E709	W780	T844	L907	T971	F1034	C101	I1164	M1231	I1294	V1359	I1426	S1489	T1551
H647	T710	F781	V845	H908	E972	H1035	M102	D1165	L1232	E1295	H1360	S1427	P1490	A1552
L648	C711	R782	Y846	N909	E973	S1036	S103	T1166	Q1233	G1296	A1491	T1428	T1492	C1553
A649	E712	R783	Y847	N910	K974	D1037	L1103	A1167	L1234	L1297	T1362	P1429	F1493	P1555
G650	Q713	K784	N848	N911	R975	P1038	L1045	L1168	D1235	T1298	V1364	T1430	F1494	P1556
L651	W718	Q785	R849	F912	Y976	E1041	W106	A1171	D1236	E1299	V1365	G1431	V1495	T1557
T652	S719	L786	T850	S913	L977	E1042	L1107	D1172	S1237	Y1300	H1366	I1432	Y1496	I1558
F653	L720	Q787	S851	E914	S978	K1043	V1108	L1184	S1238	S1301	H1367	S1433	Y1497	Y1559
L654		F788	G852	E915	Y979	Q1043	E1109	L1175	V1239	L1302	K1367	A1434	H1498	T1560
D660		A789	M853	E916	K980	K1044	M110	L1180	N1240	V1303	S1368	W1435	H1499	Y1561
D661		L790	M854	W917	Q854	K1045	Y1111	P1181	N1241	V1304	S1369	A1436	R1500	Y1562
S662	C724	L791	F855	F918	L982	K1047	O1112	P1182	G1243	K1305	T1370	E1436	R1501	V1563
Q663	W725	D792	F856	G919	L983	L1048	L1113	P1183	G1244	Q1306	S1371		R1502	S1564
E664	K726	S793	V857	K920	Y984	L1049	L1114	A1182	T1244	L1307	E1372	L1439	D1502	T1565
C669	A727	F794	M858	L923	G985	K1050	D1114	A1183	A1245	R1308	E1373	K1440	K1503	T1566
K670	F728	L795	K859	L923	E986	E1051	Q1183	Q1183	A1246	R1309		V1443	Q1504	T1567
E671	W734	T796	M859	K925	E987	G1052	S1117	S1184	V1247	L1313	S1376	E1444	C1505	S1568
L672	Q737	Q800	V862	K925	L988	M1053	F1118	F1185	W1248	I1314	L1379	E1445	T1506	T1569
L673	W738	L801	E863	T926	S989	L1054	K1119	F1186	E1249	D1314	L1380	G1446	M1507	V1570
L673	E739	L804	G864	L927	A990	S1055	E1120	T1187	T1250	V1315	V1315	V1446		
ARG		N806	S870	R928	S993	I1056	W1221	L1188	L1251	S1316	D1447	D1447	S1510	
PRO	I742	L807	P871	R935	Q994	S1065	F1126	L1189	A1252	K1317	Q1448	Q1448	T1511	
ARG	S743	L808	R872	R936	E995	I1066	K1128	L1190	A1253	K1318	T1383	L1449	S1512	
ARG	HIS	L809	D874	E937	L1000	S1067	Q1123	L1191	Y1254	H1319	Q1384	F1450	N1513	
THR	LYS	C810	S933	V929	T1001	V1068	G1131	S1191	L1254	K1320	Q1385	F1451	I1514	
L679	ASP	W811	H875	V939	H1002	V1069	T1132	A1192	L1255	G1321	T1386	D1452	LYS	
Q680	MET	A812	Q876	S940	L1003	K1070	T1133	K1200	K1262	M1327	ARG	G1453	GLY	
K681	GLN	D813	G877	G941	P1004	G1071	L1133	K1201	D1263	M1328	GLY	H1459	GLU	
L682	LEU	W814	T878	V942	S1007	S1073	P1134	H1202	N1264	T1329	TYR	V1460	ALA	
E684	GLY	L815	K879	T943	A1008	G1074	V1135	H1201	N1265	D1330	GLY	L1461	ALA	
E685	R751	K816	L944	L944	E1011	A1075	M1140	I1207	Y1266	K1331	ASN	L1462	C1525	
L686	L752	A817	C883	D945	E1012	S1076	S1141	Q1204	Y1267	M1332	S1367	L1463	K1526	
A687	K755	L818	R884	P946	E1013	T1076	L1142	Q1204	M1268	F1333	D1368	L1464	C1527	
A688	R756	W819	R885	R947	E1014	W1077	L1143	S1207	P1269	L1334	Y1399	M1465	V1528	
K689	T756	F820	Q886	G948	L1012	L1078	Y1143	I1208	V1270	G1335	K1400	P1468	E1529	
Y690	T756	F821	Q887	L949	L1013	T1079	L1144	I1209	I1271	R1336	R1401	P1469	C1532	
K691	L757	D822	V888	Y950	S1014	A1080	T1145	I1210	K1272	L1341	I1402	S1470	G1533	
H692	L758	W823	E889	G951	Y1015	F1081	T1146	I1211	W1273	V1340	V1403	D1471	Q1534	
S693	F759	F824	G890	T952	P1017	A1082	F1147	K1212	W1274	L1342	A1404	F1472	M1535	
V694	W760	L825	S891	L953	W1018	L1083	T1148	R1214	S1275	L1343	C1405	L1473	Q1536	
V695	I765	E826	S892	R954	F1019	R1084	V1149	A1215	E1276	M1343	A1406	L1474	E1537	
K696	L766	R827	S893	R955	Y1020	V1085	I1150	A1216	E1277	D1344	S1407	C1474	O1538	
K697	S767	W828	H894	L895	Y1021	L1086	G1151	I1217	Q1278	D1345	Y1408	V1475	E1539	
C698	F768	L829	L895	E958	F1022	G1087	I1152	I1218	R1279	L1346	K1409	R1476	L1539	
C699	F769	P830	V896	F959	H1023	Q1088	R1153	K1219	Y1280	I1347	P1410	L1476	D1540	
Y700	P770	W833	T897	P960	Y1024	V1089	K1154	G1220	G1283	V1348	S1411	L1479	L1541	
D701	E771	F834	F898	Y961	L1025	M1090	A1155	M1221	G1283	S1349	E1414	F1480	T1542	
G702	S772	W834	T899	R962	E1026	K1091	F1156	P1222	F1284	T1350	E1414	E1481	K1602	
C703	E773	V900	T899	L963	Y1092	Y1092	D1157	P1223	Y1285	G1351	S1415	L1482	S1544	
A704	W773	E837	V900	P964	G1028	V1093	L1158	R1226	S1286	F1352	S1416	F1483	A1545	
C704	L774	O838	L901	P964	M1029	E1094	C1159	F1227	Q1288	G1355	S1420	F1484	E1546	
V705	L839	L839	P902	L965	H1030	Q1095	P1160	F1227	Q1288	G1356	S1420	V1485	T1547	
W706	Q840	Q840	E904	D966	H1031	M1096	L1161	W1228	D1289	L1356	H1421	F1486	R1548	
N707	W777	E904	E904	L967	M1032	Q1097	V1162	K1229	A1289	L1357	H1422	F1487	A1609	
D708	L779	G843	G906	V968	I1033	M1098	K1163	D1230	A1293	T1358	V1423	L1488	Q1550	

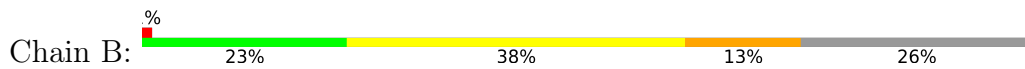


● Molecule 1: Complement C5

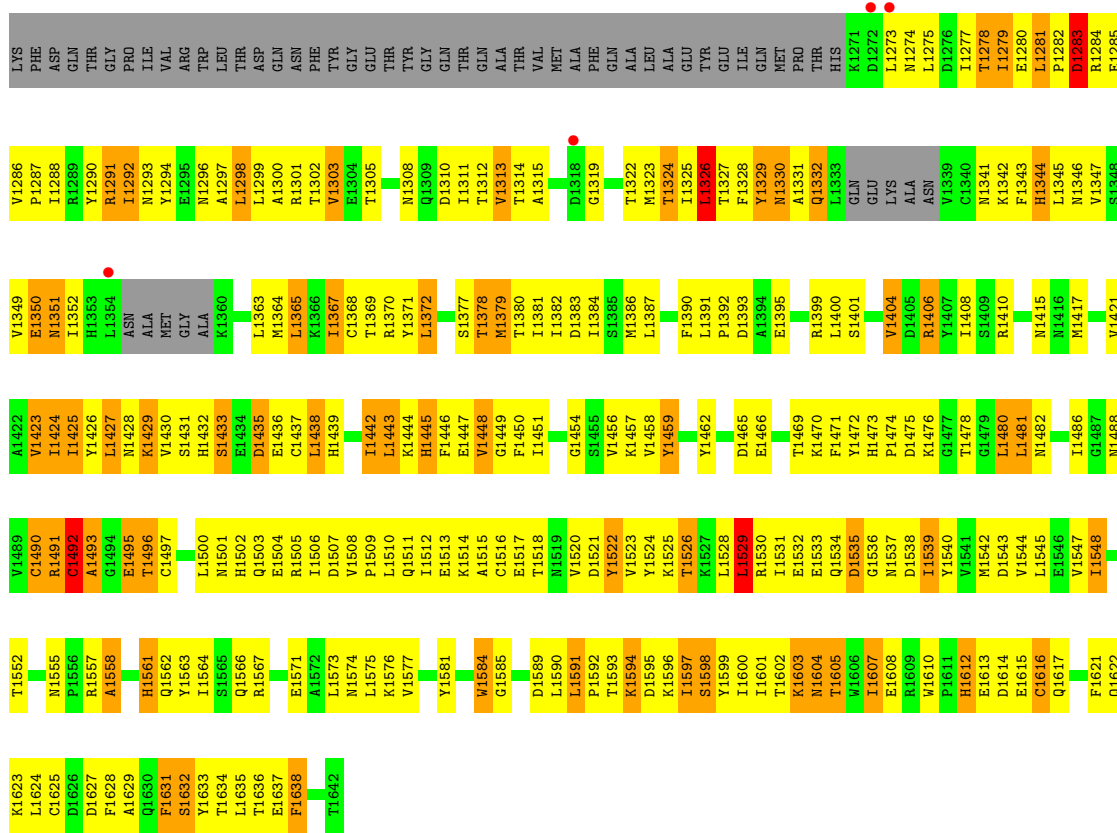


L1673	M1608	F1607	T1547	V1485	H1421	L1356	A1293	D1230	V1162	M1098	H1029	L967	P902	Q888	E837
M1674	A1609	F1487	R1548	G1486	A1422	A1357	A1294	M1231	K1163	S1099	H1030	V968	L903	Q889	E838
C1676	L1488	L1488	Q1550	L1488	V1423	T1358	E1295	L1232	D1166	I1100	H1032	P969	E904	I839	E840
	L1611	S1489	L1551	P1490	A1426	H1360	G1296	H1234	T1166	C1101	H1033	K970	G906	K970	Q840
	L1612	P1490	A1552	P1490	S1427	H1361	L1297	K1235	A1167	M1102	F1034	T971	G907	G906	G843
	L1613	A1491	C1553	A1491	L1428	T1362	T1298	D1236	L1168	L1104	H1035	I973	H908	T844	T844
	G1614	T1492	K1554	T1492	P1429	T1363	E1299	S1237	A1171	L1105	E1041	K974	N909	V845	V845
	G1615	F1493	P1555	F1493	T3430	V1364	E1300	S1238	L1106	M1106	E1042	R975	J910	Y846	Y846
	Q1616	L1494	E1556	L1494	G1431	H1365	S1301	V1239	L1107	L1107	K1042	I976	N911	N847	N847
	Q1617	V1495	L1557	V1495	I4432	H1366	L1302	P1240	V1108	V1108	L977	F912	F912	Y848	Y848
	L1618	Y1496	A1558	Y1496	S1433	K1367	L1303	M1241	E1109	E1109	K1047	S978	S913	R849	R849
	L1619	A1497	H1558	A1497	A1434	T1368	V1304	T1242	M1110	M1110	K1048	V879	L914	T850	T850
	M1620	Y1498	H1560	Y1498	H1485	K1305	K1305	G1243	K980	K980	E985	E915	E915	S851	S851
	G1621	H1499	K1561	H1499	E1436	T1370	Q1306	T1244	A1171	Y1111	L1049	K980	E916	G852	G852
	K1622	R1500	K1562	R1500	G1439	S1371	L1307	A1245	L1175	Q1112	K1050	I987	T926	M853	M853
	E1623	F1501	V1563	F1501	K1440	E1372	R1308	M1246	L1176	L1113	E1051	L982	L927	Y917	Y917
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	Q1626	Q1504	T1566	Q1504	V1443	S1376	I1313	V1248	S1184	S1117	L1054	G985	L923	V855	V855
	K1628	C1505	S1567	C1505	E1444	F1377	D1314	E1249	T1185	K1119	L1056	E986	V924	V857	V857
	Y1629	T1568	I1568	T1568	G1445	Y1378	V1315	T1250	F1186	F1118	S1056	I987	K925	K888	K888
	M1630	V1569	V1569	V1569	V1446	L1379	S1316	A1252	L1188	E1120	L988	L988	T926	M859	M859
	F1631	V1570	V1570	V1570	D1447	K1380	I1317	Y1253	A1189	M1121	S1058	S989	L927	M859	M859
		E1571	Q1448	E1571	Q1448	I1381	K1318	A1254	I1190	Q1123	H1061	A990	R928	V862	V862
		M1572	L1449	M1572	L1449	D1382	H1319	L1255	S1191	Y1124	S993	V930	V930	G884	G884
		V1573	F1450	V1573	F1450	T1383	G1320	L1256	A1192	K1126	Y1064	P931	P931	I865	I865
		F1574	T1451	F1574	T1451	Q1384	G1321	T1257	Y1193	P1126	S1065	V934	V934	E869	E869
		K1575	A1452	K1575	A1452	D1385	A1322	S1258	L1194	K1127	Y1066	K936	K936	S870	S870
		K1576	Y1453	K1576	Y1453	T1386	L1323	L1259	L1195	S1067	S1067	R936	R936	P871	P871
		Y1577	Q1454	Y1577	Q1454	E1387	H1324	M1260	S1196	L1129	V1068	I999	I999	V872	V872
		K1578	I1455	K1578	I1455	ALA	M1325	L1261	G1198	Q1130	V1069	E937	S938	V873	V873
		A1579	K1456	A1579	K1456	SER	Y1326	A1262	G1199	G1131	K1070	L900	S938	V874	V874
		T1580	D1457	T1580	D1457	TYR	K1327	D1263	T1201	T1332	G1071	T1001	Y939	H875	H875
		L1581	G1458	L1581	G1458	HIS	M1328	I1264	K1200	L1133	G1072	H875	S940	D874	D874
		L1582	H1459	L1582	H1459	ARG	T1329	M1265	R1200	P1134	S1073	L1003	G941	K876	K876
		I1583	V1460	I1583	V1460	GLY	D1330	Y1266	H1202	A1074	P1004	G877	V942	G877	G877
		L1584	I1461	L1584	I1461	TYR	K1331	V1267	P1203	S1075	K1005	T878	T943	T878	T878
		Y1585	L1462	Y1585	L1462	GLY	M1332	M1268	Q1204	G1131	G1006	K879	L944	K879	K879
		K1586	Q1463	K1586	Q1463	ASN	F1333	P1269	S1207	S1141	S1007	V882	D945	V882	V882
		G1587	L1464	G1587	L1464	S1397	L1334	V1270	I1208	L1142	A1008	V883	P946	V883	V883
		E1588	N1465	E1588	N1465	D1398	G1335	I1271	I1208	Y1143	T1079	R947	R947	K883	K883
		A1590	S1466	A1590	S1466	Y1399	R1336	K1272	A1211	L1144	F1081	R884	G948	R884	R884
		V1591	I1467	V1591	I1467	K1400	P1337	H1273	A1211	L1145	L1012	R885	T949	R885	R885
		A1592	P1468	A1592	P1468	R1401	V1338	L1274	L1212	A1146	M1013	Q886	Y950	Q886	Q886
		E1593	S1469	E1593	S1469	I1402	E1339	S1275	K1213	F1147	L1083	K887	Y951	K887	K887
		K1594	S1470	K1594	S1470	V1403	V1340	E1276	R1214	L1148	S1014	V888	T952	V888	V888
		D1595	D1471	D1595	D1471	A1404	L1341	E1277	E1215	V1149	V1085	E889	I953	E889	E889
		S1596	F1472	S1596	F1472	C1405	L1342	Q1278	A1216	I1150	L1086	G890	S954	G890	G890
		E1597	L1473	E1597	L1473	A1406	M1343	R1279	L1217	G1151	G1087	S891	R955	S891	S891
		I1598	C1474	I1598	C1474	S1407	D1344	V1280	V1218	L1152	Q1088	S892	R955	S892	S892
		V1599	V1475	V1599	V1475	Y1408	L1345	G1283	K1219	R1153	Y1020	S893	E958	S893	S893
		F1600	R1476	F1600	R1476	K1409	L1346	F1284	L1220	K1154	Y1021	H894	F959	H894	H894
		L1601	F1480	L1601	F1480	P1410	I1347	S1285	M1221	A1155	P1022	L895	P960	L895	L895
		K1602	F1481	K1602	F1481	S1411	V1348	S1286	P1222	F1156	H1023	V896	P961	V896	V896
		K1603	E1481	K1603	E1481	E1414	T1350	T1287	P1226	D1157	Y1092	T897	R962	T897	T897
		V1604	L1482	V1604	L1482	S1415	G1351	D1288	R1226	L1158	L1024	F898	L963	F898	F898
		T1605	F1483	T1605	F1483	S1416	F1352	D1289	P1227	K1159	E1094	T899	P964	T899	T899
		C1606	E1484	C1606	E1484	S1416	F1352	T1290	M1229	P1160	L1026	V900	L965	V900	V900
											G1028	L901	D966	L901	L901

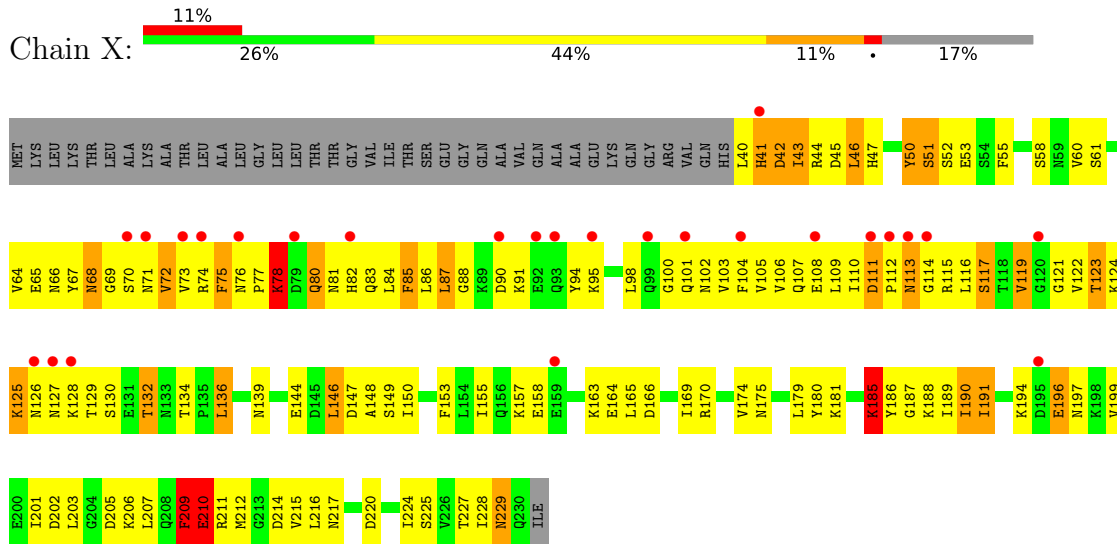
• Molecule 2: Cobra venom factor



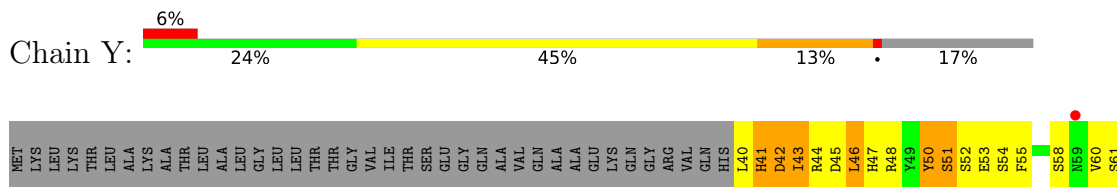
Y928	Y866	P805	ASN	ARG	S635	M469	L400	D327	E256	D190	L128	R63	GLU	MET
K929	R867	Y806	E736	LYS	V538	A470	L404	M328	E257	L191	F129	K64	GLY	GLY
L930	Q868	I807	D737	CYS	K541	M471	P410	V329	E258	V192	I130	Q85	ARG	ARG
Q931	Q869	I808	G738	CYS	K542	S472	P411	V330	E259	L194	Q131	L68	MET	MET
P932	R870	R809	F739	GLU	T543	I476	I410	Q333	A261	L195	T132	F69	ALA	ALA
R933	P871	V810	I740	ASP	T544	K477	I411	Q334	F262	T196	D133	O70	LEU	LEU
R934	I872	M811	A741	VAL	T545	Y478	T415	I336	V263	T197	K134	T71	TYR	TYR
V937	K873	K812	D742	MET	T546	Y479	M416	H337	V264	W197	G136	R72	LEU	LEU
G938	A874	H813	S743	HIS	T547	F478	M417	H338	F265	R198	I136	R72	VAL	VAL
G939	L875	F814	D744	GLU	T548	T480	G418	I339	F266	I199	V137	V73	ALA	ALA
T940	L876	F815	I745	ASN	T549	Y481	G419	I340	G266	V200	Y138	D74	ALA	ALA
Q941	R878	I816	I746	ASN	T550	L482	D419	A340	V267	A201	F139	N75	LEU	LEU
Q942	R879	D817	S747	MET	L548	L483	L420	P139	K268	K202	G140	N76	LEU	LEU
E943	V880	L818	S747	GLY	L555	L484	P421	P342	I269	Y203	S141	P77	ILE	ILE
K946	P881	Q819	D750	TYR	L556	L484	R422	P342	I269	E204	S141	P77	ILE	ILE
A947	F882	Q820	F751	THR	L557	K488	Q344	Q344	A272	E204	F143	A78	GLY	GLY
R948	F883	R821	P752	THR	L558	I489	E423	Q344	A272	H205	V143	G79	PHE	PHE
K949	I884	Y822	K753	CYS	M558	F490	R424	I345	K273	S206	L144	G80	PRO	PRO
L950	P885	S823	K753	GLU	P559	F491	Q425	H346	K274	P207	Y145	M81	GLY	GLY
P886	P886	S824	L756	LYS	G560	K491	A426	F347	S275	E208	R146	L82	SER	SER
E888	P887	V824	L757	ARG	A561	V492	T427	T348	I276	N209	V147	V83	SER	SER
D952	L887	R825	W757	ALA	A562	G493	K349	K349	I277	Y210	F148	T94	HIS	HIS
Q953	E888	K826	L758	LYS	M563	R494	S429	T350	D278	T211	S149	P85	GLY	GLY
G954	Q889	N827	T759	TYR	K564	M430	M430	T351	S279	G279	M150	T86	GLY	GLY
P955	G890	E828	K760	ILE	I565	T431	T431	K352	L280	F214	D151	I87	L24	L24
D956	L891	Q829	D761	GLN	K566	R497	R497	K353	L281	F215	H152	F88	Y25	Y25
I957	H892	V830	L762	GLU	L567	A498	A433	F554	R282	D215	H152	F88	T26	T26
E958	D893	E831	T763	GLY	D570	Q501	A434	K355	I283	V216	ASN	I89	T27	T27
I959	F894	A834	E764	ASP	I571	M502	A435	K356	P284	R217	THR	P90	L27	L27
E960	I896	R835	Q769	ALA	A573	L503	Q436	P356	P284	K218	SER	A91	L28	L28
T961	K897	I836	Q769	CYS	R574	V504	Q437	G357	I285	Y219	LYS	A91	L28	L28
K962	A898	L837	S772	LYS	R575	T505	Q438	M358	T291	V220	MET	T96	P30	P30
I963	I963	N838	T775	ALA	V575	M506	Q438	P359	K291	L221	A31	D97	P30	P30
I964	E901	Y839	T775	ALA	V575	M507	S441	Y860	A292	R222	M158	S88	V32	V32
I965	E902	V840	M776	PHE	D570	L508	Q442	E361	A293	S223	K159	S88	V32	V32
Q966	Q966	N841	F777	LEU	I571	L509	Q442	E362	A294	S224	T160	R99	L33	L33
G967	L904	E842	S778	GLU	K582	H509	M443	L362	K295	F224	V161	Q100	R34	R34
Y905	L905	D843	Y779	CYS	A583	I510	Y444	L445	K296	E225	I162	Q101	R34	R34
S906	S906	D844	Y779	ARG	V584	P512	L445	Y365	D297	V226	V163	M101	D36	D36
D907	D907	I844	L780	ARG	Y585	D513	H446	V366	T998	Q229	F165	Y103	D36	D36
G908	G908	Y845	R781	ARG	N588	D514	V447	V367	F299	P230	Q166	Y104	E39	E39
V909	V909	V846	D782	SER	I588	L514	A448	N368	F303	P231	Q167	Y105	Q40	Q40
R910	R910	R847	S783	SER	I593	I515	T450	P369	F303	E232	T167	Q107	L41	L41
K911	K911	E849	I784	VAL	S593	P516	T451	D370	L306	K233	L172	V108	L42	L42
K912	K912	L850	T785	VAL	S594	R518	T452	D370	L306	F234	L172	V108	L42	L42
L913	L913	L851	T786	ARG	Q595	R519	E452	D370	L306	F234	L172	V108	L42	L42
S914	S914	Y851	W787	ASP	I598	F520	I454	D370	L306	F234	L172	V108	L42	L42
K915	K915	Y852	W788	ASP	I599	V521	E454	D370	L306	F234	L172	V108	L42	L42
V915	V915	N853	V788	ASP	I600	F522	I454	D370	L306	F234	L172	V108	L42	L42
P916	P916	P854	V789	ASN	D600	A522	P456	D370	L306	F234	L172	V108	L42	L42
P917	P917	A855	W789	ASN	T601	Y524	G457	D370	L306	F234	L172	V108	L42	L42
E918	E918	F856	V792	ARG	I602	Q525	D458	D370	L306	F234	L172	V108	L42	L42
G919	G919	C857	S793	LYS	I603	Q526	M459	D370	L306	F234	L172	V108	L42	L42
V920	V920	R857	F794	SER	E603	G527	P461	D370	L306	F234	L172	V108	L42	L42
Q921	Q921	S858	T795	GLU	K604	N528	M463	D370	L306	F234	L172	V108	L42	L42
K922	K922	S860	P796	LEU	S605	G529	M463	D370	L306	F234	L172	V108	L42	L42
S923	S923	T861	P916	PHE	F607	E530	F464	D370	L306	F234	L172	V108	L42	L42
I924	I924	K862	C801	LEU	G608	I531	M465	D370	L306	F234	L172	V108	L42	L42
G925	G925	Q864	V802	ALA	A611	V532	V466	D370	L306	F234	L172	V108	L42	L42
T926	T926	Q864	A803	ARG	G612	A533	K467	D370	L306	F234	L172	V108	L42	L42
PRO	PRO	R865	E804	ASP	G612	D534	G468	D370	L306	F234	L172	V108	L42	L42

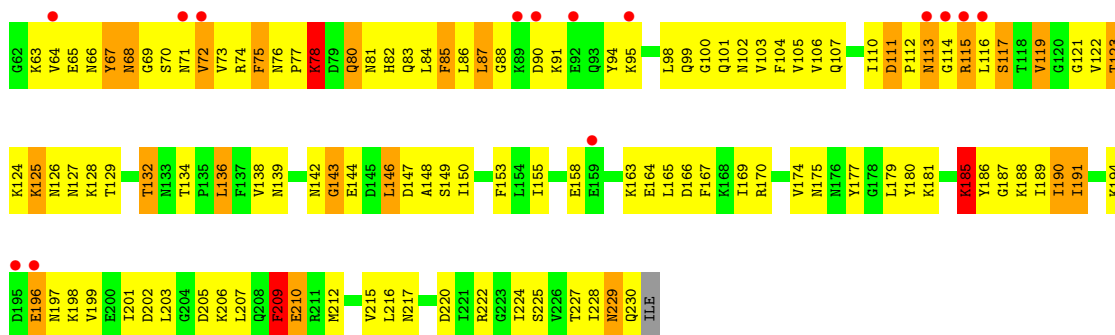


• Molecule 3: Superantigen-like protein 7



• Molecule 3: Superantigen-like protein 7





- Molecule 4: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain E: 100%

MAG1
MAG2

- Molecule 4: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain F: 50%

MAG1
MAG2

- Molecule 4: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain G: 100%

MAG1
MAG2

- Molecule 4: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain H: 50%

MAG1
MAG2

4 Data and refinement statistics

Property	Value	Source
Space group	P 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	163.65Å 181.96Å 392.78Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.21 – 4.30 49.21 – 4.30	Depositor EDS
% Data completeness (in resolution range)	96.9 (49.21-4.30) 96.9 (49.21-4.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.83 (at 4.29Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486)	Depositor
R, R_{free}	0.208 , 0.261 0.193 , 0.244	Depositor DCC
R_{free} test set	1818 reflections (2.33%)	wwPDB-VP
Wilson B-factor (Å ²)	116.2	Xtrriage
Anisotropy	0.456	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 160.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	48236	wwPDB-VP
Average B, all atoms (Å ²)	167.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.27% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.60	1/13151 (0.0%)	0.80	3/17841 (0.0%)
1	C	0.60	0/13151	0.80	5/17841 (0.0%)
2	B	0.53	1/9833 (0.0%)	0.73	2/13345 (0.0%)
2	D	0.54	0/9833	0.74	3/13345 (0.0%)
3	X	0.47	1/1560 (0.1%)	0.67	1/2096 (0.0%)
3	Y	0.49	0/1560	0.69	1/2096 (0.0%)
All	All	0.57	3/49088 (0.0%)	0.77	15/66564 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	C	0	1
All	All	0	3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	X	210	GLU	C-N	5.35	1.46	1.34
2	B	347	PHE	CB-CG	-5.29	1.42	1.51
1	A	42	GLN	CB-CG	5.16	1.66	1.52

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	347	PHE	CB-CA-C	-7.26	95.88	110.40
2	D	347	PHE	CB-CA-C	-6.90	96.60	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	640	LEU	CA-CB-CG	6.49	130.23	115.30
1	C	640	LEU	CA-CB-CG	6.30	129.80	115.30
1	A	871	PRO	CA-N-CD	-6.16	102.87	111.50
2	D	347	PHE	CB-CG-CD2	-6.11	116.52	120.80
1	C	166	PRO	CA-N-CD	-5.83	103.33	111.50
2	D	1326	LEU	CA-CB-CG	5.60	128.18	115.30
1	C	1195	LEU	CA-CB-CG	-5.40	102.89	115.30
1	C	1256	LEU	CA-CB-CG	-5.26	103.20	115.30
2	B	1326	LEU	CA-CB-CG	5.23	127.33	115.30
3	Y	209	PHE	N-CA-C	5.17	124.97	111.00
3	X	209	PHE	N-CA-C	5.16	124.92	111.00
1	C	673	LEU	CA-CB-CG	5.12	127.07	115.30
1	A	673	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1504	GLN	Peptide
1	A	98	PRO	Peptide
1	C	1504	GLN	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	12874	0	12814	1855	0
1	C	12874	0	12814	1901	0
2	B	9635	0	9630	1082	0
2	D	9635	0	9630	1079	0
3	X	1539	0	1530	166	0
3	Y	1539	0	1530	194	0
4	E	28	0	25	3	0
4	F	28	0	25	3	0
4	G	28	0	25	4	0
4	H	28	0	25	3	0
5	A	14	0	13	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	14	0	13	2	0
All	All	48236	0	48074	6152	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 64.

All (6152) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1525:CYS:O	1:A:1528:VAL:HG22	1.34	1.25
3:X:207:LEU:HD12	3:X:207:LEU:O	1.32	1.24
3:Y:207:LEU:HD12	3:Y:207:LEU:O	1.32	1.23
1:C:386:VAL:H	1:C:411:THR:HG22	1.03	1.17
1:A:500:ASN:HB2	1:A:543:TYR:CE1	1.79	1.17
2:B:518:PHE:HE2	2:B:538:VAL:HB	1.12	1.15
2:D:1607:ILE:H	2:D:1607:ILE:HD12	1.10	1.15
1:C:500:ASN:HB2	1:C:543:TYR:CE1	1.80	1.14
1:C:1562:LYS:HD3	1:C:1664:LEU:HD21	1.19	1.14
1:C:535:VAL:HG23	1:C:536:PRO:HD3	1.27	1.14
2:D:261:ALA:HB2	2:D:320:VAL:HG23	1.30	1.13
1:C:1228:TRP:H	1:C:1251:THR:HG22	1.13	1.13
2:D:518:PHE:CE2	2:D:538:VAL:HB	1.83	1.13
1:A:386:VAL:H	1:A:411:THR:HG22	1.03	1.12
1:A:535:VAL:HG23	1:A:536:PRO:HD3	1.28	1.12
1:C:1525:CYS:O	1:C:1528:VAL:HG22	1.49	1.12
2:B:518:PHE:CE2	2:B:538:VAL:HB	1.84	1.11
1:A:1012:LEU:HD22	1:A:1085:VAL:HG21	1.33	1.10
1:A:25:ILE:H	1:A:655:THR:CG2	1.64	1.10
1:C:979:VAL:HG21	1:C:1326:TYR:CE1	1.86	1.10
2:D:1473:HIS:HD2	2:D:1474:PRO:HD2	1.10	1.10
2:B:1613:GLU:O	2:B:1616:CYS:HB2	1.49	1.09
2:D:829:GLN:HG3	2:D:1480:LEU:HD13	1.12	1.09
1:A:182:ILE:HG12	1:A:804:ILE:HD11	1.10	1.09
1:C:120:THR:HG22	1:C:122:ASP:H	1.17	1.09
2:D:1594:LYS:HE2	2:D:1594:LYS:HA	1.30	1.09
1:A:936:ARG:HG3	1:A:936:ARG:HH11	1.15	1.08
1:C:421:VAL:HG11	2:D:505:THR:HG22	1.35	1.08
1:A:25:ILE:H	1:A:655:THR:HG23	1.18	1.08
1:A:1228:TRP:H	1:A:1251:THR:HG22	1.13	1.08
1:A:944:LEU:HD11	1:A:1313:ILE:HD11	1.35	1.08
1:A:979:VAL:HG21	1:A:1326:TYR:CE1	1.86	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:LYS:HE3	1:A:378:SER:HA	1.19	1.07
2:D:518:PHE:HE2	2:D:538:VAL:HB	1.13	1.07
2:B:263:VAL:HG22	2:B:318:VAL:HG23	1.37	1.07
1:C:353:LYS:HE3	1:C:378:SER:HA	1.21	1.07
2:D:380:VAL:HG12	2:D:387:MET:HB3	1.29	1.07
1:C:1068:VAL:HA	1:C:1078:LEU:HD12	1.35	1.06
2:B:261:ALA:HB2	2:B:320:VAL:HG23	1.31	1.05
1:C:591:ASN:HB3	1:C:785:GLN:HE21	1.16	1.05
1:A:120:THR:HG22	1:A:122:ASP:H	1.11	1.05
1:C:936:ARG:HH11	1:C:936:ARG:HG3	1.13	1.05
2:D:954:VAL:HB	2:D:957:THR:HG21	1.38	1.05
1:C:127:PHE:HE2	1:C:623:VAL:HG13	1.21	1.05
1:C:1560:ALA:HB2	1:C:1620:MET:HG3	1.38	1.05
2:B:1594:LYS:HA	2:B:1594:LYS:HE2	1.30	1.04
1:A:955:ARG:HG2	1:A:1350:THR:HG23	1.37	1.04
1:C:128:ILE:HG22	1:C:145:VAL:HG22	1.40	1.04
1:A:222:TYR:CE1	1:A:768:TYR:HB2	1.94	1.03
1:A:830:PRO:HG3	1:A:1483:PHE:CZ	1.94	1.03
1:A:1068:VAL:HA	1:A:1078:LEU:HD12	1.36	1.02
2:D:1473:HIS:CD2	2:D:1474:PRO:HD2	1.92	1.02
2:B:1473:HIS:HD2	2:B:1474:PRO:HD2	1.22	1.02
1:C:1133:LEU:H	1:C:1133:LEU:HD12	1.20	1.02
1:A:1102:ASN:ND2	1:C:1162:VAL:HG22	1.74	1.02
1:C:944:LEU:HD11	1:C:1313:ILE:HD11	1.36	1.02
1:C:1623:GLU:HB2	1:C:1638:PRO:HG3	1.38	1.02
2:B:965:ILE:HG13	2:B:1301:ARG:HB2	1.42	1.02
2:D:563:MET:HG3	2:D:780:LEU:HD23	1.42	1.02
1:A:470:THR:HG22	2:B:450:THR:HG22	1.42	1.01
1:C:830:PRO:HG3	1:C:1483:PHE:CZ	1.93	1.01
1:C:1620:MET:HB2	1:C:1644:TRP:HB3	1.42	1.01
2:B:954:VAL:HB	2:B:957:THR:HG21	1.40	1.01
1:C:869:GLU:O	1:C:871:PRO:HD3	1.58	1.01
2:B:829:GLN:HG3	2:B:1480:LEU:HD13	1.40	1.01
1:A:1133:LEU:H	1:A:1133:LEU:HD12	1.21	1.01
2:B:1505:ARG:HH11	2:B:1505:ARG:HG3	1.24	1.00
2:D:263:VAL:HG22	2:D:318:VAL:HG23	1.42	1.00
1:A:1562:LYS:HD2	1:A:1648:TRP:HZ2	1.26	1.00
1:A:1556:GLU:HB3	1:A:1622:LYS:HE2	1.43	1.00
2:B:469:ASN:HD22	2:B:469:ASN:C	1.65	1.00
1:C:60:PRO:HD2	1:C:61:ASP:H	1.27	1.00
1:C:182:ILE:HG12	1:C:804:ILE:HD11	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:380:VAL:HG12	2:B:387:MET:HB3	1.40	1.00
1:A:591:ASN:HB3	1:A:785:GLN:HE21	1.22	1.00
1:A:1623:GLU:HB2	1:A:1638:PRO:HG3	1.44	1.00
2:D:829:GLN:CG	2:D:1480:LEU:HD13	1.91	1.00
2:D:840:VAL:HG12	2:D:841:ASN:H	1.27	0.99
1:C:1012:LEU:HD22	1:C:1085:VAL:HG21	1.41	0.99
1:A:656:ASN:OD1	1:A:658:ASN:HB3	1.62	0.99
1:A:373:VAL:HG11	1:A:435:VAL:HG11	1.41	0.99
1:A:869:GLU:O	1:A:871:PRO:HD3	1.62	0.99
1:C:1493:PHE:HD1	1:C:1494:THR:N	1.60	0.99
2:D:482:LEU:HB3	2:D:492:VAL:HG23	1.45	0.99
1:A:222:TYR:HE1	1:A:768:TYR:HB2	1.24	0.99
1:A:838:GLN:HA	1:A:901:LEU:HB2	1.45	0.99
3:X:194:LYS:HZ2	3:X:197:ASN:HB2	1.28	0.98
1:A:371:ILE:HG22	1:A:420:PHE:HB2	1.46	0.98
2:B:851:LEU:HD23	2:B:852:TYR:H	1.28	0.98
1:C:1219:LYS:NZ	1:C:1239:VAL:HG11	1.76	0.98
1:C:1585:TYR:HD1	1:C:1671:ILE:HG21	1.28	0.98
1:A:128:ILE:HG22	1:A:145:VAL:HG22	1.40	0.98
2:D:469:ASN:C	2:D:469:ASN:HD22	1.66	0.98
1:A:292:LEU:HA	1:A:297:ALA:HB2	1.44	0.98
2:D:384:PHE:CD1	2:D:400:LEU:HG	1.97	0.98
1:C:373:VAL:HG11	1:C:435:VAL:HG11	1.42	0.98
2:D:965:ILE:HG13	2:D:1301:ARG:HB2	1.46	0.98
2:B:526:VAL:HG23	2:B:530:GLU:HB3	1.46	0.97
1:A:60:PRO:HD2	1:A:61:ASP:H	1.25	0.97
2:B:384:PHE:CD1	2:B:400:LEU:HG	1.99	0.97
1:A:1525:CYS:O	1:A:1528:VAL:CG2	2.13	0.97
2:D:435:TYR:HD1	2:D:436:GLN:H	1.10	0.97
1:A:1008:ALA:HB3	1:A:1078:LEU:HD11	1.46	0.97
1:A:1526:LYS:O	1:A:1529:GLU:HG3	1.63	0.97
1:C:955:ARG:HG2	1:C:1350:THR:HG23	1.45	0.97
1:A:1365:VAL:HG22	1:A:1366:HIS:H	1.29	0.97
1:A:576:SER:HB3	1:A:577:PRO:HD3	1.45	0.97
1:A:884:VAL:O	1:A:885:ARG:HB2	1.65	0.97
1:C:33:VAL:HG21	1:C:121:TYR:CD1	1.99	0.96
1:C:576:SER:HB3	1:C:577:PRO:HD3	1.47	0.96
1:C:1612:VAL:HB	1:C:1615:ARG:HB3	1.46	0.96
1:A:1560:ALA:HB2	1:A:1620:MET:HG3	1.42	0.96
2:D:526:VAL:HG23	2:D:530:GLU:HB3	1.47	0.96
2:D:244:HIS:HB3	2:D:291:LYS:HD2	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:GLU:HG3	1:A:235:TYR:CD2	2.00	0.96
1:C:234:GLU:HG3	1:C:235:TYR:CD2	2.01	0.96
1:C:656:ASN:OD1	1:C:658:ASN:HB3	1.64	0.96
1:C:702:GLY:HA2	1:C:728:PHE:CE1	2.01	0.96
1:A:1612:VAL:HB	1:A:1615:ARG:HB3	1.46	0.96
1:C:292:LEU:HA	1:C:297:ALA:HB2	1.46	0.96
1:C:706:ASN:ND2	1:C:709:GLU:H	1.64	0.96
1:A:500:ASN:CB	1:A:543:TYR:HE1	1.79	0.95
1:A:706:ASN:ND2	1:A:709:GLU:H	1.64	0.95
1:A:1493:PHE:HD1	1:A:1494:THR:N	1.64	0.95
2:B:237:ILE:HD11	2:B:309:LEU:HB2	1.46	0.95
1:C:500:ASN:HB2	1:C:543:TYR:HE1	1.20	0.95
2:B:563:MET:HG3	2:B:780:LEU:HD23	1.47	0.95
1:C:838:GLN:HA	1:C:901:LEU:HB2	1.43	0.95
1:A:868:SER:HA	1:A:1527:CYS:HB2	1.47	0.95
1:C:569:ASN:O	1:C:570:GLN:HB2	1.66	0.95
3:Y:194:LYS:HZ2	3:Y:197:ASN:HB2	1.29	0.94
1:A:33:VAL:HG21	1:A:121:TYR:CD1	2.02	0.94
1:A:500:ASN:HB2	1:A:543:TYR:HE1	1.17	0.94
1:C:706:ASN:HD22	1:C:709:GLU:H	1.02	0.94
2:D:380:VAL:HG12	2:D:387:MET:CB	1.96	0.94
1:C:230:SER:HB3	1:C:251:LYS:HG3	1.49	0.94
1:A:419:SER:HB2	2:B:459:ASN:HD22	1.30	0.94
1:A:702:GLY:HA2	1:A:728:PHE:CE1	2.03	0.94
1:A:1559:TYR:OH	1:A:1591:VAL:HA	1.67	0.94
1:A:706:ASN:HD22	1:A:709:GLU:H	1.01	0.94
2:D:829:GLN:HE22	2:D:883:VAL:HG13	1.33	0.94
2:D:851:LEU:HD23	2:D:852:TYR:H	1.31	0.94
3:X:81:ASN:O	3:X:115:ARG:HB2	1.68	0.94
1:A:430:VAL:HG11	1:A:453:ARG:HH21	1.33	0.94
1:C:1124:TYR:HA	1:C:1465:ASN:OD1	1.66	0.94
1:A:24:VAL:HA	1:A:655:THR:OG1	1.66	0.94
2:B:840:VAL:HG12	2:B:841:ASN:H	1.30	0.94
1:C:1061:ASN:HB2	1:C:1065:SER:O	1.68	0.94
2:B:1528:LEU:HD23	2:B:1576:LYS:O	1.68	0.93
1:A:1219:LYS:NZ	1:A:1239:VAL:HG11	1.83	0.93
1:C:596:MET:H	1:C:782:ARG:HH11	1.03	0.93
3:Y:81:ASN:O	3:Y:115:ARG:HB2	1.68	0.93
1:A:1490:PRO:HB3	1:A:1510:SER:HB2	1.50	0.93
1:A:606:ASP:O	1:A:609:VAL:HG23	1.68	0.93
1:C:830:PRO:HG3	1:C:1483:PHE:HZ	1.33	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:884:VAL:O	1:C:885:ARG:HB2	1.65	0.93
1:A:596:MET:H	1:A:782:ARG:HH11	1.09	0.93
1:C:357:VAL:HA	1:C:672:ILE:HG21	1.50	0.92
1:A:569:ASN:O	1:A:570:GLN:HB2	1.65	0.92
1:A:87:ILE:HD13	1:A:87:ILE:N	1.84	0.92
2:B:244:HIS:HB3	2:B:291:LYS:HD2	1.48	0.92
2:B:1473:HIS:CD2	2:B:1474:PRO:HD2	2.03	0.92
2:D:521:VAL:HG13	2:D:535:SER:HB3	1.52	0.92
1:C:135:TYR:HE1	1:C:141:VAL:HA	1.35	0.92
2:B:482:LEU:HB3	2:B:492:VAL:HG23	1.48	0.92
1:A:1012:LEU:CD2	1:A:1085:VAL:HG21	2.00	0.92
1:A:353:LYS:CE	1:A:378:SER:HA	2.01	0.91
1:A:944:LEU:CD1	1:A:1313:ILE:HD11	2.00	0.91
1:C:1556:GLU:HB3	1:C:1622:LYS:HE2	1.51	0.91
2:B:563:MET:HE2	2:B:564:LYS:H	1.35	0.91
1:A:849:ARG:HH11	1:A:849:ARG:HG2	1.36	0.91
1:A:753:HIS:O	1:A:754:MET:HB3	1.68	0.91
3:Y:166:ASP:CG	3:Y:207:LEU:CD2	2.38	0.91
1:A:1562:LYS:HD2	1:A:1648:TRP:CZ2	2.05	0.91
3:X:50:TYR:CE2	3:X:170:ARG:HD2	2.06	0.91
1:C:1008:ALA:HB3	1:C:1078:LEU:HD11	1.52	0.91
1:A:135:TYR:HE1	1:A:141:VAL:HA	1.34	0.91
1:C:553:GLU:HA	1:C:658:ASN:HB2	1.53	0.91
2:D:469:ASN:CG	2:D:472:SER:HB2	1.92	0.91
2:D:1528:LEU:HD23	2:D:1576:LYS:O	1.70	0.91
1:C:1490:PRO:HB3	1:C:1510:SER:HB2	1.53	0.91
2:B:1341:ASN:ND2	2:B:1342:LYS:HG2	1.86	0.90
1:C:849:ARG:HG2	1:C:849:ARG:HH11	1.35	0.90
3:Y:170:ARG:HH22	3:Y:206:LYS:HA	1.37	0.90
1:A:33:VAL:HG21	1:A:121:TYR:CE1	2.06	0.90
1:A:230:SER:HB3	1:A:251:LYS:HG3	1.50	0.90
1:C:1559:TYR:OH	1:C:1591:VAL:HA	1.71	0.90
2:D:1590:LEU:HD23	2:D:1591:LEU:H	1.36	0.90
1:C:430:VAL:HG11	1:C:453:ARG:HH21	1.36	0.90
2:B:221:LEU:HD11	2:B:753:LYS:HG2	1.52	0.90
2:B:435:TYR:HD1	2:B:436:GLN:H	1.11	0.90
1:A:315:LEU:HD13	1:A:317:ASP:HB2	1.53	0.90
1:A:1232:LEU:HD11	1:A:1233:GLN:HE21	1.36	0.90
1:C:25:ILE:H	1:C:655:THR:HG23	1.35	0.90
1:A:481:HIS:CE1	1:A:529:PRO:HB3	2.06	0.90
1:C:315:LEU:HD13	1:C:317:ASP:HB2	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:221:LEU:HD11	2:D:753:LYS:HG2	1.53	0.90
2:B:120:LEU:HD12	2:B:121:LEU:H	1.37	0.90
1:A:502:LEU:HB2	1:A:541:LEU:CD2	2.01	0.89
1:A:1068:VAL:HG21	1:A:1124:TYR:CD1	2.06	0.89
1:C:584:PRO:HB3	1:C:792:ASP:HA	1.54	0.89
1:C:1232:LEU:HD11	1:C:1233:GLN:HE21	1.35	0.89
2:D:1273:LEU:HB2	2:D:1319:GLY:HA3	1.52	0.89
3:Y:50:TYR:CE2	3:Y:170:ARG:HD2	2.06	0.89
2:B:469:ASN:CG	2:B:472:SER:HB2	1.92	0.89
2:B:1273:LEU:HB2	2:B:1319:GLY:HA3	1.53	0.89
1:A:1404:ALA:HB1	1:A:1493:PHE:CE2	2.08	0.89
1:C:753:HIS:O	1:C:754:MET:HB3	1.72	0.89
1:C:60:PRO:CD	1:C:61:ASP:H	1.86	0.89
1:C:500:ASN:CB	1:C:543:TYR:HE1	1.83	0.89
1:C:576:SER:HB2	1:C:589:SER:HB2	1.52	0.89
1:A:576:SER:HB2	1:A:589:SER:HB2	1.54	0.89
1:C:481:HIS:CE1	1:C:529:PRO:HB3	2.06	0.89
1:A:60:PRO:CD	1:A:61:ASP:H	1.85	0.89
2:D:237:ILE:HD11	2:D:309:LEU:HB2	1.55	0.89
2:B:416:ASN:HA	2:B:425:GLN:HE22	1.37	0.89
1:C:59:TYR:CG	1:C:60:PRO:HD3	2.07	0.89
1:A:31:PHE:HB2	1:A:119:ILE:HG22	1.53	0.88
1:A:618:LYS:H	1:A:619:PRO:HD3	1.38	0.88
1:A:59:TYR:CG	1:A:60:PRO:HD3	2.08	0.88
1:A:1576:LYS:HG2	1:A:1601:ILE:HG22	1.53	0.88
1:C:23:TYR:CD1	1:C:655:THR:HB	2.09	0.88
1:A:830:PRO:HG3	1:A:1483:PHE:HZ	1.36	0.88
1:A:980:LYS:HD3	1:A:986:GLU:HA	1.55	0.88
1:C:511:HIS:CE1	3:Y:149:SER:OG	2.26	0.88
2:D:519:ARG:NH1	2:D:608:GLY:HA3	1.89	0.88
3:X:77:PRO:HD2	3:X:80:GLN:O	1.74	0.88
2:B:455:LYS:O	2:B:458:ASP:HB2	1.72	0.88
2:B:829:GLN:HE22	2:B:883:VAL:HG13	1.36	0.88
3:Y:77:PRO:HD2	3:Y:80:GLN:O	1.73	0.88
1:C:386:VAL:N	1:C:411:THR:HG22	1.88	0.88
1:C:532:GLN:HE21	1:C:568:GLY:HA2	1.38	0.88
2:D:120:LEU:HD12	2:D:121:LEU:H	1.38	0.87
2:D:750:ASP:OD1	2:D:752:PRO:HD3	1.73	0.87
1:A:386:VAL:N	1:A:411:THR:HG22	1.88	0.87
1:A:1124:TYR:HA	1:A:1465:ASN:OD1	1.74	0.87
1:C:31:PHE:HB2	1:C:119:ILE:HG22	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:606:ASP:O	1:C:609:VAL:HG23	1.72	0.87
1:A:467:ILE:HG22	1:A:486:VAL:HG22	1.55	0.87
1:C:78:LYS:NZ	3:Y:144:GLU:HA	1.88	0.87
2:B:1590:LEU:HD23	2:B:1591:LEU:H	1.36	0.87
1:A:120:THR:HG22	1:A:122:ASP:N	1.88	0.87
1:A:584:PRO:HB3	1:A:792:ASP:HA	1.57	0.87
2:B:494:ARG:HG3	2:B:494:ARG:HH11	1.39	0.87
1:C:944:LEU:CD1	1:C:1313:ILE:HD11	2.05	0.87
2:D:1473:HIS:HB3	2:D:1476:LYS:HB2	1.55	0.87
2:D:1607:ILE:H	2:D:1607:ILE:CD1	1.81	0.87
3:Y:58:SER:HB3	3:Y:102:ASN:ND2	1.90	0.87
1:A:1068:VAL:HG13	1:A:1069:TRP:H	1.39	0.87
3:Y:166:ASP:CG	3:Y:207:LEU:HD21	1.95	0.87
2:B:347:PHE:O	2:B:350:THR:HG22	1.75	0.87
1:C:33:VAL:HG21	1:C:121:TYR:CE1	2.09	0.87
1:C:502:LEU:HB2	1:C:541:LEU:CD2	2.05	0.87
1:A:1365:VAL:HG22	1:A:1366:HIS:N	1.84	0.87
1:C:353:LYS:CE	1:C:378:SER:HA	2.03	0.86
2:D:455:LYS:O	2:D:458:ASP:HB2	1.74	0.86
1:A:182:ILE:HG12	1:A:804:ILE:CD1	2.02	0.86
1:A:855:PHE:HA	2:B:904:LEU:HD11	1.57	0.86
1:A:1560:ALA:CB	1:A:1620:MET:HG3	2.05	0.86
2:B:750:ASP:OD1	2:B:752:PRO:HD3	1.75	0.86
1:C:572:GLN:HB2	1:C:593:ALA:HB3	1.56	0.86
1:C:618:LYS:H	1:C:619:PRO:HD3	1.38	0.86
1:C:934:VAL:HG22	1:C:1366:HIS:CD2	2.10	0.86
1:C:1068:VAL:HG13	1:C:1069:TRP:H	1.40	0.86
1:C:1585:TYR:CD1	1:C:1671:ILE:HG21	2.10	0.86
1:C:599:TRP:O	1:C:803:GLY:HA2	1.74	0.86
2:D:416:ASN:HA	2:D:425:GLN:HE22	1.40	0.86
3:X:166:ASP:CG	3:X:207:LEU:CD2	2.42	0.86
1:A:618:LYS:N	1:A:619:PRO:CD	2.38	0.86
1:A:936:ARG:HG3	1:A:936:ARG:NH1	1.89	0.86
1:A:1546:GLU:O	1:A:1667:PHE:HZ	1.57	0.86
1:C:127:PHE:CE2	1:C:623:VAL:HG13	2.08	0.86
1:C:1562:LYS:HD2	1:C:1648:TRP:CZ2	2.11	0.86
1:C:463:SER:HB3	1:C:491:PRO:HA	1.57	0.86
1:C:618:LYS:N	1:C:619:PRO:CD	2.38	0.86
1:C:1560:ALA:CB	1:C:1620:MET:HG3	2.04	0.86
1:C:120:THR:HG22	1:C:122:ASP:N	1.90	0.86
1:C:1315:VAL:HG12	1:C:1324:HIS:O	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:TYR:N	1:A:23:TYR:CD1	2.40	0.86
1:C:504:LEU:CD1	1:C:509:ILE:HG23	2.06	0.86
1:C:1404:ALA:HB1	1:C:1493:PHE:CE2	2.10	0.86
2:D:1341:ASN:ND2	2:D:1342:LYS:HG2	1.91	0.86
1:A:24:VAL:HG21	1:A:554:LEU:HD11	1.55	0.86
2:B:1444:LYS:HE2	2:B:1447:GLU:HA	1.58	0.86
1:C:128:ILE:HD12	1:C:201:ILE:HG22	1.57	0.86
2:B:151:ASP:HB2	2:B:794:PHE:HZ	1.38	0.86
2:B:519:ARG:NH1	2:B:608:GLY:HA3	1.91	0.86
2:B:850:LEU:HB2	2:B:882:PHE:HE1	1.41	0.86
1:C:696:LYS:HZ3	1:C:759:PRO:HD2	1.38	0.85
1:C:1068:VAL:HG21	1:C:1124:TYR:CD1	2.10	0.85
1:C:1219:LYS:HZ1	1:C:1239:VAL:HG11	1.40	0.85
3:X:58:SER:HB3	3:X:102:ASN:ND2	1.91	0.85
1:C:936:ARG:HH11	1:C:936:ARG:CG	1.89	0.85
3:Y:207:LEU:O	3:Y:207:LEU:CD1	2.22	0.85
2:B:1590:LEU:HD23	2:B:1591:LEU:N	1.91	0.85
1:C:1531:ASP:OD2	1:C:1531:ASP:C	2.14	0.85
2:D:151:ASP:HB2	2:D:794:PHE:HZ	1.39	0.85
2:D:850:LEU:HB2	2:D:882:PHE:CE1	2.11	0.85
1:A:641:ASN:ND2	1:A:643:ALA:HB3	1.90	0.85
1:A:1333:PHE:O	1:A:1334:LEU:HB2	1.77	0.85
1:C:1576:LYS:HG2	1:C:1601:ILE:HG22	1.59	0.85
2:D:518:PHE:HE2	2:D:538:VAL:CB	1.88	0.85
3:X:170:ARG:HD3	3:X:203:LEU:HD23	1.59	0.85
1:A:1003:LEU:HD11	1:A:1286:SER:HA	1.59	0.85
2:B:850:LEU:HB2	2:B:882:PHE:CE1	2.12	0.85
1:C:371:ILE:HG22	1:C:420:PHE:HB2	1.56	0.85
1:A:127:PHE:HE2	1:A:623:VAL:HG13	1.40	0.85
1:A:1315:VAL:HG12	1:A:1324:HIS:O	1.76	0.85
1:A:315:LEU:HD12	1:A:318:LEU:HG	1.59	0.85
1:C:222:TYR:CE1	1:C:768:TYR:HB2	2.12	0.85
1:C:467:ILE:HG22	1:C:486:VAL:HG22	1.59	0.85
2:D:161:VAL:HG21	2:D:180:LEU:HD21	1.58	0.85
1:C:1278:GLN:OE1	1:C:1283:GLY:HA2	1.76	0.85
1:C:1365:VAL:HG22	1:C:1366:HIS:H	1.40	0.85
2:D:326:SER:HB2	2:D:819:GLN:HG3	1.59	0.85
1:A:145:VAL:HB	1:A:183:ILE:HG13	1.58	0.84
1:A:391:ASN:HD21	1:A:406:PRO:HG3	1.41	0.84
2:B:380:VAL:HG12	2:B:387:MET:CB	2.06	0.84
2:B:518:PHE:HE2	2:B:538:VAL:CB	1.89	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1512:ILE:O	2:B:1516:CYS:HB2	1.77	0.84
1:C:315:LEU:HD12	1:C:318:LEU:HG	1.59	0.84
1:A:284:GLN:HG2	1:A:310:LEU:HD21	1.59	0.84
1:C:614:ARG:HD2	1:C:615:GLY:N	1.92	0.84
1:C:641:ASN:ND2	1:C:643:ALA:HB3	1.93	0.84
1:A:614:ARG:HD2	1:A:615:GLY:N	1.92	0.84
1:A:696:LYS:HZ3	1:A:759:PRO:HD2	1.42	0.84
2:B:481:TYR:O	2:B:481:TYR:HD2	1.61	0.84
1:A:1123:GLN:HA	1:A:1123:GLN:HE21	1.42	0.84
2:B:175:SER:H	2:B:1300:ALA:HB2	1.42	0.84
1:C:133:PRO:HD2	1:C:609:VAL:HG11	1.60	0.84
2:D:933:ARG:HH11	2:D:933:ARG:HG3	1.40	0.84
2:D:1444:LYS:HE2	2:D:1447:GLU:HA	1.59	0.84
1:A:191:PRO:HD2	1:A:194:PRO:HB3	1.60	0.83
1:C:1575:VAL:HB	1:C:1602:LYS:O	1.76	0.83
1:A:1278:GLN:OE1	1:A:1283:GLY:HA2	1.78	0.83
2:B:925:VAL:HG22	2:B:1326:LEU:HD23	1.60	0.83
1:C:145:VAL:HB	1:C:183:ILE:HG13	1.60	0.83
1:C:1526:LYS:O	1:C:1529:GLU:HB2	1.78	0.83
2:D:925:VAL:HG22	2:D:1326:LEU:HD23	1.59	0.83
2:D:1590:LEU:HD23	2:D:1591:LEU:N	1.91	0.83
3:X:207:LEU:O	3:X:207:LEU:CD1	2.22	0.83
1:A:1061:ASN:HB2	1:A:1065:SER:O	1.77	0.83
1:C:980:LYS:HD3	1:C:986:GLU:HA	1.60	0.83
2:D:563:MET:HE2	2:D:564:LYS:H	1.39	0.83
2:D:824:VAL:HG21	2:D:830:VAL:HG11	1.60	0.83
1:A:1571:GLU:HB2	1:A:1574:PHE:CZ	2.13	0.83
2:B:494:ARG:HG3	2:B:494:ARG:NH1	1.91	0.83
2:D:175:SER:H	2:D:1300:ALA:HB2	1.41	0.83
2:D:347:PHE:O	2:D:350:THR:HG22	1.78	0.83
2:D:847:ARG:HG3	2:D:869:GLN:HG2	1.60	0.83
1:C:284:GLN:HG2	1:C:310:LEU:HD21	1.61	0.83
2:D:494:ARG:HH11	2:D:494:ARG:HG3	1.43	0.83
1:A:1056:ILE:HD11	1:A:1066:TYR:CE2	2.14	0.83
1:C:618:LYS:N	1:C:619:PRO:HD3	1.93	0.83
2:D:481:TYR:HE1	2:D:506:MET:SD	2.02	0.83
1:A:572:GLN:HB2	1:A:593:ALA:HB3	1.60	0.83
1:A:895:LEU:HD12	1:A:896:VAL:H	1.42	0.83
1:A:1228:TRP:N	1:A:1251:THR:HG22	1.94	0.83
1:C:1623:GLU:HB2	1:C:1638:PRO:CG	2.07	0.83
2:D:1500:LEU:HD12	2:D:1501:ASN:H	1.44	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:44:GLU:HG2	2:D:82:LEU:HB2	1.61	0.83
1:A:1066:TYR:H	1:A:1079:THR:HG23	1.44	0.82
2:B:1331:ALA:O	2:B:1332:GLN:HB3	1.79	0.82
1:C:391:ASN:HD21	1:C:406:PRO:HG3	1.42	0.82
2:D:563:MET:HG3	2:D:780:LEU:CD2	2.09	0.82
3:Y:86:LEU:HG	3:Y:91:LYS:HB2	1.61	0.82
1:A:1153:ARG:HD2	1:A:1197:LEU:HB3	1.58	0.82
1:C:493:ILE:HG23	1:C:495:LYS:H	1.43	0.82
1:C:1573:VAL:HB	1:C:1603:LYS:HD3	1.60	0.82
1:A:936:ARG:HH11	1:A:936:ARG:CG	1.92	0.82
1:C:250:ILE:HD11	1:C:265:VAL:HG11	1.61	0.82
1:C:824:PHE:H	1:C:824:PHE:HD2	1.27	0.82
3:X:70:SER:HB3	3:X:91:LYS:HE3	1.61	0.82
1:A:1219:LYS:HZ1	1:A:1239:VAL:HG11	1.44	0.82
1:A:1546:GLU:HG2	1:A:1663:ASN:ND2	1.95	0.82
2:B:521:VAL:HG13	2:B:535:SER:HB3	1.60	0.82
1:C:1123:GLN:HA	1:C:1123:GLN:HE21	1.45	0.82
2:B:326:SER:HB2	2:B:819:GLN:HG3	1.60	0.82
2:D:481:TYR:HD2	2:D:481:TYR:O	1.62	0.82
3:X:86:LEU:HG	3:X:91:LYS:HB2	1.59	0.82
1:C:500:ASN:HB2	1:C:543:TYR:CD1	2.14	0.82
2:D:168:PRO:HG3	2:D:196:THR:C	2.00	0.82
1:A:1570:VAL:HA	1:A:1574:PHE:O	1.80	0.82
1:A:1585:TYR:CE2	1:A:1586:LYS:HB3	2.15	0.82
1:A:546:VAL:O	1:A:553:GLU:HB3	1.78	0.82
1:A:1590:ALA:HB1	1:A:1635:TYR:CE1	2.14	0.82
2:D:850:LEU:HB2	2:D:882:PHE:HE1	1.41	0.82
1:A:171:VAL:HG12	1:A:172:ASP:N	1.93	0.81
2:D:250:ARG:HG2	2:D:256:GLU:HA	1.61	0.81
1:A:1488:LEU:HD12	1:A:1488:LEU:O	1.80	0.81
1:A:1575:VAL:HB	1:A:1602:LYS:O	1.79	0.81
2:B:200:VAL:HG12	2:B:211:THR:OG1	1.80	0.81
1:C:1228:TRP:N	1:C:1251:THR:HG22	1.94	0.81
1:C:1582:LEU:HD21	1:C:1616:GLN:HG2	1.62	0.81
1:A:25:ILE:N	1:A:655:THR:CG2	2.44	0.81
1:A:1582:LEU:HD21	1:A:1616:GLN:HG2	1.62	0.81
2:B:435:TYR:HD1	2:B:436:GLN:N	1.78	0.81
2:B:933:ARG:HH11	2:B:933:ARG:HG3	1.44	0.81
1:C:696:LYS:HZ3	1:C:759:PRO:CD	1.93	0.81
2:B:168:PRO:HG3	2:B:196:THR:C	2.01	0.81
1:C:1020:TYR:HE1	1:C:1295:GLU:HG3	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1049:LEU:HD11	1:C:1089:VAL:HG13	1.63	0.81
1:C:1218:VAL:HG12	1:C:1219:LYS:H	1.46	0.81
1:A:500:ASN:HB2	1:A:543:TYR:CD1	2.16	0.81
1:A:1576:LYS:HG2	1:A:1601:ILE:CG2	2.10	0.81
2:B:795:THR:HG22	2:B:796:PRO:HD2	1.61	0.81
2:D:435:TYR:HD1	2:D:436:GLN:N	1.78	0.81
2:D:1607:ILE:HD12	2:D:1607:ILE:N	1.94	0.81
1:A:123:ASN:HB3	1:A:209:PHE:CD1	2.16	0.81
1:A:618:LYS:N	1:A:619:PRO:HD3	1.94	0.81
2:B:322:THR:HG22	2:B:327:ASP:O	1.80	0.81
2:D:961:THR:HG22	2:D:1327:THR:HG23	1.63	0.81
1:A:23:TYR:CD1	1:A:655:THR:HB	2.16	0.81
1:C:1531:ASP:OD2	1:C:1531:ASP:O	1.97	0.81
1:A:267:ILE:CD1	1:A:299:VAL:HG11	2.11	0.81
1:C:87:ILE:HD13	1:C:87:ILE:N	1.96	0.81
1:C:1067:SER:HA	1:C:1074:ALA:HA	1.63	0.81
2:D:954:VAL:HG12	2:D:955:PRO:HD2	1.63	0.81
1:C:1199:ASP:OD1	1:C:1201:THR:HG23	1.81	0.81
2:D:795:THR:HG22	2:D:796:PRO:HD2	1.63	0.81
2:B:469:ASN:HD22	2:B:470:ALA:N	1.79	0.80
1:C:149:ASN:HD22	1:C:149:ASN:H	1.26	0.80
1:C:523:TYR:CE1	2:D:359:PRO:HG2	2.16	0.80
1:C:1620:MET:HB2	1:C:1644:TRP:CB	2.10	0.80
1:C:1623:GLU:CB	1:C:1638:PRO:HG3	2.11	0.80
1:A:22:THR:HG21	1:A:657:ALA:HB2	1.62	0.80
1:A:504:LEU:CD1	1:A:509:ILE:HG23	2.11	0.80
1:C:617:LYS:HD2	1:C:622:ARG:HH21	1.46	0.80
3:Y:70:SER:HB3	3:Y:91:LYS:HE3	1.61	0.80
1:A:584:PRO:HD3	1:A:820:PHE:HB2	1.63	0.80
1:A:1190:ILE:HG12	1:A:1253:TYR:CD1	2.17	0.80
1:C:584:PRO:HD3	1:C:820:PHE:HB2	1.63	0.80
3:X:166:ASP:CG	3:X:207:LEU:HD21	2.01	0.80
1:A:1573:VAL:HB	1:A:1603:LYS:HD3	1.63	0.80
2:B:824:VAL:HG21	2:B:830:VAL:HG11	1.62	0.80
2:D:69:PHE:CE2	2:D:71:THR:HB	2.16	0.80
1:A:1213:LYS:HG2	1:A:1266:TYR:HE2	1.45	0.80
1:A:1232:LEU:HG	1:A:1233:GLN:HG3	1.63	0.80
2:B:161:VAL:HG21	2:B:180:LEU:HD21	1.62	0.80
1:C:1152:ILE:CG2	1:C:1168:LEU:HD21	2.10	0.80
1:C:1333:PHE:O	1:C:1334:LEU:HB2	1.79	0.80
2:D:344:GLN:HA	2:D:344:GLN:HE21	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1341:ASN:HD22	2:B:1342:LYS:HG2	1.44	0.80
1:C:371:ILE:HD11	1:C:433:PHE:CE2	2.16	0.80
1:C:1571:GLU:HB2	1:C:1574:PHE:CZ	2.16	0.80
2:B:69:PHE:CE2	2:B:71:THR:HB	2.17	0.80
1:C:492:TYR:CD2	1:C:493:ILE:N	2.50	0.80
1:C:1067:SER:HB3	1:C:1072:GLY:O	1.81	0.80
1:A:243:PHE:CE1	1:A:316:GLU:HB3	2.17	0.80
1:A:599:TRP:O	1:A:803:GLY:HA2	1.81	0.80
1:A:796:THR:HG23	1:A:818:LYS:HB3	1.64	0.80
2:B:44:GLU:HG2	2:B:82:LEU:HB2	1.63	0.80
2:B:1562:GLN:HE22	2:B:1596:LYS:NZ	1.78	0.80
1:C:243:PHE:CE1	1:C:316:GLU:HB3	2.16	0.80
1:A:706:ASN:HD22	1:A:709:GLU:N	1.79	0.80
3:Y:165:LEU:O	3:Y:169:ILE:HG12	1.82	0.80
3:Y:188:LYS:HD3	3:Y:202:ASP:HA	1.64	0.80
1:C:1066:TYR:H	1:C:1079:THR:HG23	1.46	0.79
1:C:1570:VAL:HA	1:C:1574:PHE:O	1.82	0.79
2:D:344:GLN:HA	2:D:344:GLN:NE2	1.96	0.79
2:D:818:LEU:HB3	2:D:911:LYS:HD2	1.63	0.79
2:D:1383:ASP:HB3	2:D:1457:LYS:HB2	1.63	0.79
1:A:442:LEU:HD23	1:A:443:PRO:HD2	1.64	0.79
1:A:1546:GLU:O	1:A:1667:PHE:CZ	2.35	0.79
2:B:151:ASP:HB2	2:B:794:PHE:CZ	2.18	0.79
3:X:125:LYS:HA	3:X:127:ASN:N	1.98	0.79
2:B:1284:ARG:HD2	2:B:1285:GLU:H	1.45	0.79
1:C:1341:LEU:HB2	1:C:1342:LEU:HD23	1.63	0.79
2:B:137:TYR:CZ	2:B:143:VAL:HG22	2.17	0.79
1:C:799:ILE:HG22	1:C:815:VAL:O	1.82	0.79
1:C:1232:LEU:HG	1:C:1233:GLN:HG3	1.62	0.79
2:D:557:GLN:OE1	2:D:557:GLN:HA	1.82	0.79
2:D:1341:ASN:HD22	2:D:1342:LYS:HG2	1.48	0.79
1:A:696:LYS:NZ	1:A:759:PRO:HD2	1.98	0.79
2:B:218:LYS:HB3	2:B:822:TYR:CD2	2.17	0.79
1:C:1562:LYS:HD3	1:C:1664:LEU:CD2	2.10	0.79
2:B:481:TYR:HE1	2:B:506:MET:SD	2.05	0.79
1:C:135:TYR:CE1	1:C:141:VAL:HA	2.17	0.79
1:A:78:LYS:NZ	3:X:144:GLU:HA	1.98	0.79
1:C:1153:ARG:HD2	1:C:1197:LEU:HB3	1.64	0.79
3:X:170:ARG:HH22	3:X:206:LYS:HA	1.47	0.79
1:C:191:PRO:HD2	1:C:194:PRO:HB3	1.64	0.79
1:C:706:ASN:HD22	1:C:709:GLU:N	1.79	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1012:LEU:CD2	1:C:1085:VAL:HG21	2.12	0.79
2:D:165:PHE:CZ	2:D:199:ILE:HD11	2.18	0.79
1:A:532:GLN:OE1	1:A:532:GLN:HA	1.83	0.79
1:A:830:PRO:CG	1:A:1483:PHE:HZ	1.95	0.79
1:A:934:VAL:HG22	1:A:1366:HIS:CD2	2.17	0.79
1:C:470:THR:HB	2:D:450:THR:O	1.81	0.79
2:D:872:ILE:HG22	2:D:878:ARG:HG3	1.65	0.79
2:D:1284:ARG:HD2	2:D:1285:GLU:H	1.46	0.79
2:B:872:ILE:HG22	2:B:878:ARG:HG3	1.65	0.79
2:B:961:THR:HG22	2:B:1327:THR:HG23	1.64	0.79
1:C:765:ILE:HD12	1:C:765:ILE:O	1.82	0.79
1:A:371:ILE:HD11	1:A:433:PHE:CE2	2.18	0.78
1:A:824:PHE:H	1:A:824:PHE:HD2	1.30	0.78
1:A:1497:GLU:OE1	1:A:1500:ARG:HD3	1.83	0.78
1:C:1031:TRP:CZ2	1:C:1042:LYS:HG3	2.17	0.78
2:D:1505:ARG:CZ	2:D:1623:LYS:HZ1	1.95	0.78
1:A:1133:LEU:H	1:A:1133:LEU:CD1	1.96	0.78
1:A:1573:VAL:CG1	1:A:1603:LYS:HD3	2.13	0.78
2:B:847:ARG:HG3	2:B:869:GLN:HG2	1.64	0.78
1:C:20:GLU:C	1:C:21:GLN:HG3	2.03	0.78
1:C:696:LYS:NZ	1:C:759:PRO:HD2	1.97	0.78
2:D:1349:VAL:HA	2:D:1364:MET:O	1.83	0.78
1:A:471:ASP:OD2	1:A:474:LYS:HB3	1.83	0.78
1:A:492:TYR:CD2	1:A:493:ILE:N	2.50	0.78
1:A:830:PRO:HG3	1:A:1483:PHE:CE2	2.18	0.78
1:A:1573:VAL:O	1:A:1603:LYS:HG2	1.84	0.78
2:B:265:PHE:CD2	2:B:294:LEU:HB2	2.18	0.78
1:C:111:PHE:CE2	1:C:113:LYS:HB2	2.18	0.78
1:C:1622:LYS:NZ	1:C:1642:LEU:HD23	1.98	0.78
2:D:494:ARG:HG3	2:D:494:ARG:NH1	1.97	0.78
1:A:617:LYS:HD2	1:A:622:ARG:HH21	1.49	0.78
1:A:1623:GLU:HB2	1:A:1638:PRO:CG	2.12	0.78
1:C:1108:VAL:HG21	1:C:1167:ALA:HB2	1.65	0.78
1:A:804:ILE:HG22	1:A:809:ILE:HG13	1.65	0.78
1:A:1049:LEU:HD11	1:A:1089:VAL:HG13	1.65	0.78
1:A:1190:ILE:HG12	1:A:1253:TYR:CE1	2.18	0.78
2:B:563:MET:HG3	2:B:780:LEU:CD2	2.13	0.78
1:C:23:TYR:N	1:C:23:TYR:HD1	1.81	0.78
1:A:391:ASN:ND2	1:A:406:PRO:HG3	1.99	0.78
2:D:385:HIS:CE1	3:Y:142:ASN:HD21	2.01	0.78
3:Y:132:THR:HG23	3:Y:155:ILE:HB	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:166:ASP:OD1	3:Y:207:LEU:HD23	1.82	0.78
1:A:284:GLN:HG2	1:A:310:LEU:CD2	2.13	0.78
2:B:598:ILE:CD1	2:B:800:ILE:HG21	2.14	0.78
1:C:442:LEU:HD23	1:C:443:PRO:HD2	1.66	0.78
2:D:69:PHE:HE2	2:D:71:THR:HB	1.47	0.78
1:A:250:ILE:HD11	1:A:265:VAL:HG11	1.64	0.78
1:A:1160:PRO:HG2	1:C:1098:ASN:OD1	1.83	0.78
1:A:1199:ASP:OD1	1:A:1201:THR:HG23	1.84	0.78
1:C:23:TYR:CD1	1:C:23:TYR:N	2.42	0.78
2:B:1383:ASP:HB3	2:B:1457:LYS:HB2	1.66	0.78
2:D:151:ASP:HB2	2:D:794:PHE:CZ	2.18	0.78
2:D:261:ALA:HB2	2:D:320:VAL:CG2	2.13	0.78
2:D:1331:ALA:O	2:D:1332:GLN:HB3	1.82	0.78
1:A:1056:ILE:HD11	1:A:1066:TYR:CD2	2.18	0.78
1:A:1535:MET:H	1:A:1608:ASN:HB3	1.49	0.78
1:C:1593:GLU:HB2	1:C:1596:SER:OG	1.83	0.78
1:A:42:GLN:HA	1:A:80:GLN:HG3	1.65	0.77
2:B:69:PHE:HE2	2:B:71:THR:HB	1.47	0.77
1:C:391:ASN:ND2	1:C:406:PRO:HG3	1.98	0.77
2:D:137:TYR:CZ	2:D:143:VAL:HG22	2.19	0.77
2:D:218:LYS:HB3	2:D:822:TYR:CD2	2.18	0.77
2:D:285:ILE:HD12	2:D:285:ILE:N	1.97	0.77
2:D:422:ARG:HH12	3:Y:44:ARG:HA	1.49	0.77
1:A:22:THR:CG2	1:A:657:ALA:HB2	2.15	0.77
2:B:557:GLN:OE1	2:B:557:GLN:HA	1.82	0.77
1:C:463:SER:CB	1:C:491:PRO:HA	2.13	0.77
1:C:532:GLN:NE2	1:C:568:GLY:HA2	1.98	0.77
1:C:1190:ILE:HG12	1:C:1253:TYR:CD1	2.19	0.77
1:C:1213:LYS:HG2	1:C:1266:TYR:HE2	1.48	0.77
1:A:20:GLU:C	1:A:21:GLN:HG3	2.04	0.77
1:A:1162:VAL:H	1:C:1102:ASN:ND2	1.82	0.77
1:C:535:VAL:CG2	1:C:536:PRO:HD3	2.13	0.77
1:C:830:PRO:CG	1:C:1483:PHE:HZ	1.96	0.77
1:C:968:VAL:HG23	1:C:971:THR:HG21	1.67	0.77
1:A:576:SER:CB	1:A:577:PRO:HD3	2.15	0.77
1:A:1179:THR:CG2	1:A:1208:ILE:HD13	2.15	0.77
1:C:55:SER:O	1:C:56:ILE:HD13	1.85	0.77
1:C:1573:VAL:HG12	1:C:1603:LYS:HB3	1.66	0.77
1:C:1585:TYR:HD1	1:C:1671:ILE:CG2	1.97	0.77
2:D:1446:PHE:HD2	2:D:1448:VAL:HG22	1.49	0.77
1:A:1213:LYS:HG2	1:A:1266:TYR:CE2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:471:ASP:OD2	1:C:474:LYS:HB3	1.84	0.77
1:A:765:ILE:HD12	1:A:765:ILE:O	1.84	0.77
1:A:979:VAL:HG21	1:A:1326:TYR:HE1	1.50	0.77
2:B:285:ILE:N	2:B:285:ILE:HD12	2.00	0.77
1:C:42:GLN:HB2	1:C:80:GLN:NE2	1.99	0.77
1:C:284:GLN:HG2	1:C:310:LEU:CD2	2.15	0.77
1:A:23:TYR:N	1:A:23:TYR:HD1	1.79	0.77
1:A:906:GLY:H	1:A:929:VAL:HB	1.50	0.77
1:C:576:SER:CB	1:C:577:PRO:HD3	2.15	0.77
1:C:613:GLN:HG3	1:C:613:GLN:O	1.85	0.77
2:D:598:ILE:CD1	2:D:800:ILE:HG21	2.13	0.77
1:A:135:TYR:CE1	1:A:141:VAL:HA	2.17	0.77
1:A:1161:LEU:HD12	1:C:1105:LEU:HD13	1.67	0.77
2:B:224:PHE:CZ	2:B:329:VAL:HG22	2.20	0.77
1:C:532:GLN:OE1	1:C:532:GLN:HA	1.83	0.77
2:D:1613:GLU:O	2:D:1616:CYS:HB2	1.85	0.77
2:B:954:VAL:HG12	2:B:955:PRO:HD2	1.67	0.76
3:Y:87:LEU:HA	3:Y:91:LYS:HD3	1.67	0.76
1:A:1161:LEU:HA	1:C:1102:ASN:HD21	1.49	0.76
1:A:1218:VAL:HG12	1:A:1219:LYS:H	1.50	0.76
1:C:25:ILE:H	1:C:655:THR:CG2	1.98	0.76
1:C:128:ILE:HG13	1:C:215:ALA:HB2	1.66	0.76
1:C:1576:LYS:HG2	1:C:1601:ILE:CG2	2.16	0.76
1:A:23:TYR:HD1	1:A:23:TYR:H	1.29	0.76
2:B:469:ASN:C	2:B:469:ASN:ND2	2.37	0.76
1:C:267:ILE:CD1	1:C:299:VAL:HG11	2.15	0.76
1:C:1003:LEU:HD11	1:C:1286:SER:HA	1.65	0.76
1:C:1560:ALA:HB3	1:C:1585:TYR:HE2	1.50	0.76
1:C:1573:VAL:CG1	1:C:1603:LYS:HD3	2.15	0.76
2:D:478:TYR:O	2:D:478:TYR:HD1	1.68	0.76
3:Y:170:ARG:HD3	3:Y:203:LEU:HD23	1.65	0.76
1:C:78:LYS:HZ2	3:Y:144:GLU:HA	1.50	0.76
2:D:1496:THR:HG23	2:D:1603:LYS:HD2	1.66	0.76
2:B:478:TYR:HD1	2:B:478:TYR:O	1.67	0.76
1:A:696:LYS:HZ3	1:A:759:PRO:CD	1.98	0.76
1:C:43:VAL:HG13	1:C:79:PHE:HB3	1.68	0.76
1:C:171:VAL:HG12	1:C:172:ASP:N	1.97	0.76
1:C:1320:LYS:CD	1:C:1321:GLY:H	1.99	0.76
1:C:1562:LYS:HD2	1:C:1648:TRP:HZ2	1.49	0.76
2:D:1280:GLU:HG2	2:D:1287:PRO:HB3	1.66	0.76
3:X:150:ILE:HD12	3:X:150:ILE:O	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:250:ARG:HG2	2:B:256:GLU:HA	1.68	0.76
2:B:422:ARG:H	2:B:422:ARG:HD3	1.49	0.76
1:C:315:LEU:CD1	1:C:318:LEU:HG	2.15	0.76
1:C:849:ARG:HG2	1:C:849:ARG:NH1	1.95	0.76
1:C:1494:THR:HB	1:C:1506:THR:HG23	1.68	0.76
3:Y:125:LYS:HA	3:Y:127:ASN:N	2.00	0.76
1:A:25:ILE:N	1:A:655:THR:HG23	1.99	0.76
1:A:641:ASN:HD21	1:A:643:ALA:HB3	1.50	0.76
1:A:1213:LYS:HE2	1:A:1266:TYR:CD2	2.21	0.76
1:C:351:PRO:HG2	1:C:352:TYR:CD2	2.20	0.76
1:C:830:PRO:HG3	1:C:1483:PHE:CE2	2.21	0.76
1:C:1304:VAL:HG12	1:C:1305:LYS:N	2.01	0.76
3:Y:136:LEU:HG	3:Y:136:LEU:O	1.84	0.76
1:A:386:VAL:H	1:A:411:THR:CG2	1.92	0.76
1:C:1497:GLU:OE1	1:C:1500:ARG:HD3	1.86	0.76
2:D:415:THR:OG1	2:D:425:GLN:HB2	1.85	0.76
1:C:144:ARG:HD2	1:C:146:TYR:CE1	2.20	0.76
1:C:804:ILE:HG22	1:C:809:ILE:HG13	1.67	0.76
2:D:322:THR:HG22	2:D:327:ASP:O	1.84	0.76
1:A:111:PHE:CE2	1:A:113:LYS:HB2	2.21	0.75
1:C:1179:THR:CG2	1:C:1208:ILE:HD13	2.16	0.75
2:D:954:VAL:HB	2:D:957:THR:CG2	2.15	0.75
1:A:315:LEU:CD1	1:A:318:LEU:HG	2.15	0.75
2:B:261:ALA:HB2	2:B:320:VAL:CG2	2.13	0.75
1:C:1488:LEU:HD12	1:C:1488:LEU:O	1.85	0.75
1:A:463:SER:HB3	1:A:491:PRO:HA	1.68	0.75
1:C:796:THR:HG23	1:C:818:LYS:HB3	1.67	0.75
2:D:200:VAL:HG12	2:D:211:THR:OG1	1.87	0.75
1:A:1067:SER:HB3	1:A:1072:GLY:O	1.85	0.75
1:A:1379:LEU:HD11	1:A:1505:CYS:O	1.86	0.75
2:B:344:GLN:NE2	2:B:344:GLN:HA	2.02	0.75
2:B:825:VAL:O	2:B:828:GLU:HG3	1.87	0.75
2:B:1583:ILE:HG12	2:B:1607:ILE:HG23	1.66	0.75
1:C:596:MET:N	1:C:782:ARG:HD3	2.01	0.75
1:C:1585:TYR:CE2	1:C:1586:LYS:HB3	2.22	0.75
1:A:1108:VAL:HG21	1:A:1167:ALA:HB2	1.69	0.75
1:A:1162:VAL:H	1:C:1102:ASN:HD21	1.34	0.75
1:A:1560:ALA:HB3	1:A:1585:TYR:HE2	1.52	0.75
2:B:42:LEU:HD11	2:B:82:LEU:HD12	1.67	0.75
2:D:148:PHE:CE2	2:D:792:VAL:HG11	2.21	0.75
1:C:180:ILE:HB	1:C:599:TRP:CZ3	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:539:ARG:NH2	1:C:634:CYS:H	1.84	0.75
1:C:1068:VAL:HA	1:C:1078:LEU:CD1	2.15	0.75
2:D:422:ARG:H	2:D:422:ARG:HD3	1.50	0.75
2:D:1424:ILE:HG12	2:D:1426:TYR:CE2	2.22	0.75
1:A:433:PHE:CE1	1:A:452:TYR:HB2	2.21	0.75
1:A:539:ARG:NH2	1:A:634:CYS:H	1.85	0.75
1:A:1244:THR:HG23	1:A:1502:ASP:OD2	1.85	0.75
2:B:948:ARG:HH21	2:B:948:ARG:HB2	1.51	0.75
2:B:1284:ARG:CD	2:B:1285:GLU:H	2.00	0.75
1:C:1104:LEU:O	1:C:1108:VAL:HG12	1.87	0.75
2:D:469:ASN:C	2:D:469:ASN:ND2	2.39	0.75
1:A:128:ILE:HD12	1:A:201:ILE:HG22	1.67	0.75
1:A:535:VAL:CG2	1:A:536:PRO:HD3	2.13	0.75
1:A:1638:PRO:O	1:A:1639:LEU:HB2	1.87	0.75
2:B:818:LEU:HB3	2:B:911:LYS:HD2	1.69	0.75
1:C:38:ASN:HA	1:C:84:ILE:HG22	1.68	0.75
1:C:260:VAL:HG12	1:C:261:THR:H	1.50	0.75
1:C:1504:GLN:HG3	1:C:1505:CYS:HA	1.69	0.75
2:D:265:PHE:CD2	2:D:294:LEU:HB2	2.21	0.75
2:D:1347:VAL:HG22	2:D:1367:ILE:HG23	1.69	0.75
1:A:255:PHE:HE1	1:A:258:LYS:CB	1.98	0.75
2:B:829:GLN:CG	2:B:1480:LEU:HD13	2.17	0.75
1:C:44:TYR:HB2	1:C:545:ILE:HD12	1.69	0.75
1:C:549:GLU:CD	1:C:550:GLN:H	1.89	0.75
1:C:1320:LYS:HD2	1:C:1321:GLY:H	1.51	0.75
1:A:111:PHE:HE2	1:A:113:LYS:HB2	1.52	0.74
1:A:1402:ILE:HG13	1:A:1479:ILE:HD11	1.69	0.74
2:B:508:LEU:HD12	2:B:509:HIS:H	1.52	0.74
1:C:1218:VAL:HG12	1:C:1219:LYS:N	2.02	0.74
1:C:1314:ASP:HA	1:C:1325:ASN:HB2	1.68	0.74
1:A:849:ARG:HG2	1:A:849:ARG:NH1	1.94	0.74
1:C:415:ASP:HB2	1:C:417:VAL:HB	1.69	0.74
1:C:1244:THR:HG23	1:C:1502:ASP:OD2	1.87	0.74
2:D:42:LEU:HD11	2:D:82:LEU:HD12	1.68	0.74
2:D:261:ALA:CB	2:D:320:VAL:HG23	2.15	0.74
1:C:224:LEU:HD23	1:C:225:PRO:HD2	1.70	0.74
1:A:613:GLN:HG3	1:A:613:GLN:O	1.85	0.74
2:B:1473:HIS:HB3	2:B:1476:LYS:HB2	1.68	0.74
1:C:33:VAL:HG21	1:C:121:TYR:HD1	1.51	0.74
2:D:615:GLN:HB2	2:D:616:ASN:ND2	2.03	0.74
3:X:87:LEU:HA	3:X:91:LYS:HD3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:961:TYR:HE2	1:C:1343:ASN:HA	1.53	0.74
1:A:1067:SER:HA	1:A:1074:ALA:HA	1.68	0.74
1:A:1314:ASP:HA	1:A:1325:ASN:HB2	1.70	0.74
1:A:1562:LYS:HD3	1:A:1664:LEU:HD21	1.70	0.74
1:C:285:THR:O	1:C:285:THR:HG22	1.86	0.74
1:C:640:LEU:H	1:C:644:ASN:HB3	1.53	0.74
1:C:895:LEU:HD12	1:C:896:VAL:H	1.52	0.74
1:A:258:LYS:HD3	1:A:893:SER:OG	1.85	0.74
1:A:1047:LYS:HE2	1:A:1051:GLU:OE2	1.86	0.74
1:A:1402:ILE:HG13	1:A:1479:ILE:CD1	2.17	0.74
1:C:1056:ILE:HD11	1:C:1066:TYR:CE2	2.23	0.74
2:D:34:ARG:HD3	2:D:124:GLN:HG2	1.69	0.74
2:D:469:ASN:HD22	2:D:470:ALA:N	1.86	0.74
1:A:620:LEU:O	1:A:623:VAL:HG23	1.88	0.74
1:C:123:ASN:HB3	1:C:209:PHE:CD1	2.23	0.74
1:C:538:SER:O	1:C:561:LEU:HB2	1.88	0.74
1:C:695:VAL:HG13	1:C:724:CYS:HA	1.70	0.74
1:C:1024:TYR:HA	1:C:1302:LEU:HD21	1.69	0.74
2:D:758:LEU:HD13	2:D:760:LYS:HE2	1.69	0.74
1:A:42:GLN:HB2	1:A:80:GLN:NE2	2.02	0.74
1:A:128:ILE:HG13	1:A:215:ALA:HB2	1.69	0.74
1:A:1031:TRP:CZ2	1:A:1042:LYS:HG3	2.22	0.74
1:A:1152:ILE:CG2	1:A:1168:LEU:HD21	2.17	0.74
1:C:993:SER:C	1:C:995:GLU:H	1.91	0.74
2:D:620:VAL:HG12	2:D:621:PHE:HD2	1.53	0.74
2:D:1525:LYS:HD2	2:D:1610:TRP:CZ2	2.22	0.74
1:A:144:ARG:HD2	1:A:146:TYR:CE1	2.22	0.73
1:A:538:SER:O	1:A:561:LEU:HB2	1.86	0.73
2:B:344:GLN:HA	2:B:344:GLN:HE21	1.52	0.73
1:C:1013:MET:SD	1:C:1016:VAL:HG21	2.28	0.73
1:C:1186:PHE:HA	1:C:1250:THR:HG22	1.70	0.73
1:C:1622:LYS:HZ3	1:C:1642:LEU:HD23	1.52	0.73
3:X:132:THR:HG23	3:X:155:ILE:HB	1.70	0.73
1:A:503:ILE:HB	1:A:511:HIS:HB2	1.69	0.73
1:A:1020:TYR:HE1	1:A:1295:GLU:HG3	1.52	0.73
2:B:1435:ASP:OD1	4:F:1:NAG:H81	1.88	0.73
1:C:127:PHE:CD2	1:C:623:VAL:HG22	2.23	0.73
1:C:133:PRO:HD2	1:C:609:VAL:CG1	2.17	0.73
1:C:1627:ILE:HD12	1:C:1629:TYR:HB3	1.69	0.73
1:A:1341:LEU:HB2	1:A:1342:LEU:HD23	1.69	0.73
1:A:1370:THR:HG23	1:A:1373:GLU:OE1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1593:GLU:HB2	1:A:1596:SER:OG	1.88	0.73
1:C:222:TYR:HE1	1:C:768:TYR:HB2	1.51	0.73
1:C:1133:LEU:H	1:C:1133:LEU:CD1	1.95	0.73
2:D:948:ARG:HH21	2:D:948:ARG:HB2	1.53	0.73
3:X:111:ASP:OD1	3:X:112:PRO:HD2	1.89	0.73
2:B:1349:VAL:HA	2:B:1364:MET:O	1.88	0.73
1:C:433:PHE:CE1	1:C:452:TYR:HB2	2.23	0.73
1:C:1190:ILE:HG12	1:C:1253:TYR:CE1	2.23	0.73
1:C:1365:VAL:HG22	1:C:1366:HIS:N	2.01	0.73
1:A:160:VAL:HG22	1:A:175:GLU:HB3	1.71	0.73
1:A:1068:VAL:HA	1:A:1078:LEU:CD1	2.17	0.73
2:B:484:LEU:HB2	2:B:519:ARG:HG3	1.70	0.73
1:C:42:GLN:NE2	1:C:44:TYR:N	2.37	0.73
1:C:936:ARG:HG3	1:C:936:ARG:NH1	1.87	0.73
1:C:1056:ILE:HD11	1:C:1066:TYR:CD2	2.23	0.73
2:B:1607:ILE:H	2:B:1607:ILE:HD12	1.53	0.73
1:C:1493:PHE:CD1	1:C:1494:THR:N	2.52	0.73
2:B:620:VAL:HG12	2:B:621:PHE:HD2	1.52	0.73
1:C:906:GLY:H	1:C:929:VAL:HB	1.53	0.73
2:D:1508:VAL:HB	2:D:1509:PRO:HD3	1.70	0.73
3:X:165:LEU:O	3:X:169:ILE:HG12	1.89	0.73
1:A:182:ILE:CG1	1:A:804:ILE:HD11	2.06	0.73
1:A:968:VAL:HG23	1:A:971:THR:OG1	1.88	0.73
2:B:415:THR:OG1	2:B:425:GLN:HB2	1.89	0.73
1:C:111:PHE:HE2	1:C:113:LYS:HB2	1.50	0.73
1:C:489:LYS:CG	1:C:490:SER:N	2.50	0.73
1:A:470:THR:HB	2:B:450:THR:O	1.89	0.73
1:C:255:PHE:HE1	1:C:258:LYS:CB	2.02	0.73
1:C:1573:VAL:O	1:C:1603:LYS:HG2	1.89	0.73
1:C:1626:GLN:HB2	1:C:1635:TYR:HD1	1.53	0.73
1:A:700:TYR:HD2	1:A:700:TYR:C	1.92	0.73
2:B:548:LEU:HD22	2:B:793:SER:HB3	1.70	0.73
1:C:160:VAL:HG22	1:C:175:GLU:HB3	1.71	0.73
1:C:220:LYS:HD3	1:C:765:ILE:HG23	1.69	0.73
1:C:1527:CYS:C	1:C:1529:GLU:N	2.34	0.73
2:D:825:VAL:O	2:D:828:GLU:HG3	1.88	0.73
1:A:415:ASP:HB2	1:A:417:VAL:HB	1.69	0.72
1:A:993:SER:C	1:A:995:GLU:H	1.93	0.72
2:B:844:ILE:HG13	2:B:872:ILE:HG12	1.71	0.72
1:C:494:ASP:O	1:C:496:ILE:N	2.22	0.72
2:D:1482:ASN:HB2	2:D:1495:GLU:HG2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:514:THR:O	1:A:515:ARG:HD3	1.89	0.72
1:A:517:LYS:HG2	1:A:518:PHE:N	2.04	0.72
2:B:148:PHE:CE2	2:B:792:VAL:HG11	2.24	0.72
1:C:963:ILE:HG23	1:C:967:LEU:HD23	1.72	0.72
1:C:1152:ILE:HG21	1:C:1168:LEU:HD21	1.70	0.72
1:C:1213:LYS:HG2	1:C:1266:TYR:CE2	2.24	0.72
1:A:149:ASN:H	1:A:149:ASN:HD22	1.36	0.72
1:A:493:ILE:HG23	1:A:495:LYS:H	1.55	0.72
1:A:695:VAL:HG13	1:A:724:CYS:HA	1.70	0.72
1:A:1573:VAL:HG12	1:A:1603:LYS:HB3	1.70	0.72
2:B:1347:VAL:HG22	2:B:1367:ILE:HG23	1.70	0.72
1:C:365:PRO:HD2	1:C:464:TYR:CD2	2.25	0.72
1:C:700:TYR:HD2	1:C:700:TYR:C	1.92	0.72
1:C:1358:THR:HB	1:C:1360:HIS:CE1	2.24	0.72
2:D:834:ALA:O	2:D:835:ILE:HD13	1.89	0.72
2:D:850:LEU:HD12	2:D:851:LEU:H	1.53	0.72
1:A:483:ASN:ND2	2:B:399:ILE:HB	2.04	0.72
1:A:799:ILE:HG22	1:A:815:VAL:O	1.90	0.72
2:B:34:ARG:HD3	2:B:124:GLN:HG2	1.71	0.72
2:B:1279:ILE:HG22	2:B:1288:ILE:HB	1.71	0.72
1:C:238:ILE:HD12	1:C:347:TYR:HE1	1.53	0.72
1:C:330:ILE:HG22	1:C:337:SER:CB	2.20	0.72
2:D:844:ILE:HG13	2:D:872:ILE:HG12	1.72	0.72
1:A:148:LEU:HD23	1:A:152:LEU:CD1	2.19	0.72
1:C:374:GLN:HA	1:C:416:GLY:O	1.88	0.72
1:C:1255:LEU:O	1:C:1255:LEU:HD12	1.90	0.72
3:X:68:ASN:CG	3:X:69:GLY:H	1.92	0.72
1:A:830:PRO:CG	1:A:1483:PHE:CZ	2.72	0.72
1:A:1228:TRP:H	1:A:1251:THR:CG2	1.98	0.72
1:A:1623:GLU:CB	1:A:1638:PRO:HG3	2.18	0.72
1:C:24:VAL:N	1:C:655:THR:HG21	2.04	0.72
1:C:495:LYS:HA	1:C:495:LYS:CE	2.19	0.72
1:C:1278:GLN:OE1	1:C:1283:GLY:CA	2.37	0.72
1:C:1573:VAL:CB	1:C:1603:LYS:HD3	2.19	0.72
1:A:38:ASN:HA	1:A:84:ILE:HG22	1.71	0.72
1:A:43:VAL:HG13	1:A:79:PHE:HB3	1.69	0.72
1:A:260:VAL:HG12	1:A:261:THR:H	1.54	0.72
2:B:261:ALA:CB	2:B:320:VAL:HG23	2.16	0.72
1:C:234:GLU:HG3	1:C:235:TYR:HD2	1.51	0.72
1:C:365:PRO:HD2	1:C:464:TYR:CE2	2.24	0.72
1:A:1560:ALA:HB3	1:A:1585:TYR:CE2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1108:VAL:HG11	1:C:1164:ILE:HG22	1.70	0.72
1:C:1329:THR:OG1	1:C:1331:LYS:HG2	1.90	0.72
2:D:1506:ILE:HD11	2:D:1628:PHE:HE1	1.53	0.72
1:A:373:VAL:HG23	1:A:418:ALA:HB3	1.70	0.72
1:A:1347:ILE:HG22	1:A:1347:ILE:O	1.89	0.72
2:B:1313:VAL:HG11	2:B:1323:MET:SD	2.29	0.72
1:C:1560:ALA:HB3	1:C:1585:TYR:CE2	2.24	0.72
3:X:64:VAL:HG11	3:X:95:LYS:O	1.90	0.72
1:A:225:PRO:HG3	1:A:766:ARG:HB2	1.71	0.72
1:A:1076:THR:CG2	1:A:1120:GLU:HA	2.18	0.72
1:A:1304:VAL:HG12	1:A:1305:LYS:N	2.03	0.72
1:A:1493:PHE:CD1	1:A:1494:THR:N	2.55	0.72
2:B:162:ILE:CG2	2:B:202:LYS:HG2	2.20	0.72
1:C:596:MET:HA	1:C:782:ARG:HG2	1.70	0.72
1:C:489:LYS:HG3	1:C:490:SER:H	1.55	0.71
1:C:491:PRO:HB2	1:C:493:ILE:O	1.89	0.71
1:C:620:LEU:O	1:C:623:VAL:HG23	1.88	0.71
1:C:1163:LYS:O	1:C:1166:THR:HG22	1.90	0.71
2:D:481:TYR:HB2	2:D:520:PHE:CE1	2.25	0.71
2:B:563:MET:HB3	2:B:778:PHE:CE2	2.25	0.71
1:C:386:VAL:H	1:C:411:THR:CG2	1.92	0.71
1:C:1068:VAL:HG13	1:C:1069:TRP:N	2.06	0.71
1:C:1567:SER:HB3	1:C:1578:LYS:HB2	1.70	0.71
1:A:351:PRO:HG2	1:A:352:TYR:CD2	2.25	0.71
1:A:1104:LEU:O	1:A:1108:VAL:HG12	1.91	0.71
2:B:618:LEU:HD11	2:B:635:ASN:O	1.90	0.71
1:C:1423:VAL:HG13	1:C:1496:TYR:CD2	2.24	0.71
2:D:23:ALA:HB3	2:D:528:ASN:HD22	1.55	0.71
3:Y:68:ASN:CG	3:Y:69:GLY:H	1.93	0.71
3:Y:166:ASP:OD2	3:Y:207:LEU:HG	1.89	0.71
1:A:1069:TRP:CZ3	1:A:1451:THR:HG21	2.25	0.71
1:C:61:ASP:O	1:C:62:LYS:HB2	1.90	0.71
1:C:979:VAL:HG21	1:C:1326:TYR:HE1	1.52	0.71
2:D:1523:VAL:HG22	2:D:1584:TRP:HB2	1.72	0.71
1:A:42:GLN:NE2	1:A:44:TYR:N	2.38	0.71
1:A:491:PRO:O	1:A:492:TYR:C	2.28	0.71
1:A:552:ALA:HB2	1:A:657:ALA:HB3	1.73	0.71
1:A:981:GLY:CA	1:A:1333:PHE:HB2	2.21	0.71
2:B:435:TYR:CD1	2:B:436:GLN:N	2.59	0.71
1:C:42:GLN:HA	1:C:80:GLN:HG3	1.72	0.71
1:C:222:TYR:HD2	1:C:223:VAL:N	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1381:ILE:HG12	1:C:1382:ASP:N	2.05	0.71
1:C:1450:PHE:CZ	1:C:1475:VAL:HB	2.24	0.71
2:D:1371:TYR:CG	2:D:1377:SER:HB3	2.25	0.71
1:A:224:LEU:HD23	1:A:225:PRO:HD2	1.71	0.71
1:C:530:VAL:HG23	1:C:534:MET:HE2	1.71	0.71
2:D:1284:ARG:CD	2:D:1285:GLU:H	2.02	0.71
2:D:1562:GLN:HE22	2:D:1596:LYS:NZ	1.88	0.71
1:A:44:TYR:HB2	1:A:545:ILE:HD12	1.71	0.71
1:A:374:GLN:HA	1:A:416:GLY:O	1.91	0.71
1:A:489:LYS:CG	1:A:490:SER:N	2.53	0.71
1:A:491:PRO:HB2	1:A:493:ILE:O	1.89	0.71
1:A:961:TYR:HE2	1:A:1343:ASN:HA	1.55	0.71
2:B:1280:GLU:HG2	2:B:1287:PRO:HB3	1.73	0.71
1:C:906:GLY:O	1:C:908:HIS:CE1	2.44	0.71
1:A:774:LEU:HD12	1:A:799:ILE:HD11	1.71	0.71
1:C:961:TYR:CE2	1:C:1343:ASN:HA	2.25	0.71
1:C:1219:LYS:HZ3	1:C:1239:VAL:HG11	1.55	0.71
1:A:423:ASN:OD1	2:B:504:VAL:HG22	1.91	0.71
1:A:1024:TYR:HA	1:A:1302:LEU:HD21	1.73	0.71
1:A:1268:ASN:HD22	1:A:1268:ASN:H	1.38	0.71
2:B:1446:PHE:HD2	2:B:1448:VAL:HG22	1.54	0.71
1:C:967:LEU:HD12	1:C:968:VAL:N	2.04	0.71
3:X:64:VAL:HG23	3:X:71:ASN:OD1	1.91	0.71
1:A:40:VAL:HG21	1:A:512:PHE:HD1	1.55	0.71
1:A:99:VAL:O	1:A:119:ILE:HD11	1.90	0.71
1:A:640:LEU:H	1:A:644:ASN:HB3	1.56	0.71
1:A:1179:THR:HG21	1:A:1208:ILE:HD13	1.72	0.71
1:A:1573:VAL:CB	1:A:1603:LYS:HD3	2.21	0.71
2:B:165:PHE:CZ	2:B:199:ILE:HD11	2.26	0.71
2:B:481:TYR:HB2	2:B:520:PHE:CE1	2.25	0.71
2:B:1593:THR:HG22	2:B:1594:LYS:N	2.06	0.71
1:C:1638:PRO:O	1:C:1639:LEU:HB2	1.89	0.71
1:A:234:GLU:HG3	1:A:235:TYR:HD2	1.50	0.70
1:A:255:PHE:CE1	1:A:258:LYS:HB3	2.25	0.70
1:A:365:PRO:HD2	1:A:464:TYR:CD2	2.25	0.70
1:A:398:ASN:O	1:A:399:GLN:HB2	1.90	0.70
1:A:906:GLY:O	1:A:908:HIS:CE1	2.43	0.70
1:A:1076:THR:HG22	1:A:1120:GLU:OE2	1.91	0.70
2:B:850:LEU:HD12	2:B:851:LEU:H	1.55	0.70
2:D:162:ILE:CG2	2:D:202:LYS:HG2	2.20	0.70
2:D:508:LEU:HD12	2:D:509:HIS:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:758:LEU:HD13	2:B:760:LYS:HE2	1.72	0.70
1:C:1543:ILE:O	1:C:1547:THR:HG23	1.90	0.70
1:A:765:ILE:HD13	1:A:767:SER:O	1.91	0.70
1:A:963:ILE:HG23	1:A:967:LEU:HD23	1.72	0.70
1:A:1186:PHE:HA	1:A:1250:THR:HG22	1.73	0.70
1:C:109:LYS:HD3	1:C:110:HIS:CE1	2.26	0.70
1:A:238:ILE:HD12	1:A:347:TYR:HE1	1.55	0.70
1:A:1013:MET:SD	1:A:1016:VAL:HG21	2.31	0.70
1:A:1127:ILE:HD11	1:A:1143:TYR:CD2	2.27	0.70
1:A:1525:CYS:C	1:A:1528:VAL:HG22	2.12	0.70
2:B:1482:ASN:HB2	2:B:1495:GLU:HG2	1.72	0.70
3:X:166:ASP:OD1	3:X:207:LEU:HD23	1.91	0.70
1:A:131:ASP:HB3	1:A:142:LYS:HB2	1.74	0.70
1:A:504:LEU:HD21	1:A:651:LEU:HG	1.74	0.70
2:B:615:GLN:HB2	2:B:616:ASN:ND2	2.06	0.70
1:C:131:ASP:O	1:C:132:LYS:HG2	1.91	0.70
1:C:152:LEU:HD11	1:C:627:LEU:HD11	1.73	0.70
1:C:491:PRO:O	1:C:492:TYR:C	2.26	0.70
1:C:503:ILE:HB	1:C:511:HIS:HB2	1.72	0.70
1:C:968:VAL:HG12	1:C:1368:THR:HG22	1.73	0.70
1:C:1127:ILE:HD12	1:C:1127:ILE:H	1.56	0.70
2:D:1381:ILE:HG21	2:D:1459:TYR:HE1	1.56	0.70
3:Y:80:GLN:HG3	3:Y:114:GLY:C	2.12	0.70
1:A:685:GLU:OE1	1:A:685:GLU:HA	1.92	0.70
1:A:961:TYR:CE2	1:A:1343:ASN:HA	2.27	0.70
1:A:1076:THR:HG21	1:A:1120:GLU:HA	1.72	0.70
2:B:28:ILE:HD12	2:B:42:LEU:HD23	1.73	0.70
2:B:950:LEU:HD22	2:B:1329:TYR:CZ	2.26	0.70
2:B:1615:GLU:HB3	2:B:1621:PHE:CD1	2.26	0.70
1:C:869:GLU:C	1:C:871:PRO:HD3	2.11	0.70
1:C:1112:GLN:HE21	1:C:1171:ALA:HB2	1.54	0.70
2:D:618:LEU:HD11	2:D:635:ASN:O	1.92	0.70
2:D:1445:HIS:CG	2:D:1446:PHE:N	2.59	0.70
3:Y:146:LEU:HD22	3:Y:147:ASP:N	2.06	0.70
1:C:255:PHE:CE1	1:C:258:LYS:HB3	2.27	0.70
3:Y:47:HIS:HE1	3:Y:181:LYS:HE2	1.56	0.70
1:A:1504:GLN:HG3	1:A:1505:CYS:HA	1.72	0.70
2:B:1424:ILE:HD13	2:B:1424:ILE:H	1.56	0.70
1:C:517:LYS:HG2	1:C:518:PHE:N	2.05	0.70
1:C:690:TYR:CG	1:C:690:TYR:O	2.43	0.70
1:C:975:ARG:NH2	1:C:1346:LEU:HD22	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:262:PHE:HE1	2:D:282:ARG:HG3	1.56	0.70
1:A:285:THR:HG22	1:A:285:THR:O	1.91	0.70
2:B:954:VAL:HB	2:B:957:THR:CG2	2.19	0.70
1:C:419:SER:HB2	2:D:459:ASN:HD22	1.56	0.70
1:C:968:VAL:CG2	1:C:971:THR:HG21	2.22	0.70
1:C:1047:LYS:HE2	1:C:1051:GLU:OE2	1.92	0.70
1:A:330:ILE:HG22	1:A:337:SER:CB	2.21	0.70
1:A:1616:GLN:OE1	1:A:1650:ARG:HD3	1.92	0.70
1:C:99:VAL:O	1:C:119:ILE:HD11	1.91	0.70
1:C:639:GLY:HA2	1:C:648:LEU:HD13	1.74	0.70
1:C:938:SER:O	1:C:940:SER:N	2.25	0.70
1:C:1625:LEU:O	1:C:1627:ILE:HG23	1.91	0.70
2:D:237:ILE:O	2:D:306:LEU:HD11	1.92	0.70
3:X:136:LEU:HG	3:X:136:LEU:O	1.91	0.70
3:Y:111:ASP:OD1	3:Y:112:PRO:HD2	1.91	0.70
1:C:476:LEU:HB3	1:C:563:ILE:HA	1.73	0.69
2:D:1480:LEU:HD12	2:D:1481:LEU:N	2.06	0.69
1:A:148:LEU:HD23	1:A:152:LEU:HD12	1.74	0.69
1:A:587:THR:HG22	1:A:789:ALA:HB2	1.72	0.69
1:A:1278:GLN:OE1	1:A:1283:GLY:CA	2.40	0.69
1:A:1567:SER:HB3	1:A:1578:LYS:HB2	1.74	0.69
1:C:1219:LYS:CE	1:C:1239:VAL:HG21	2.22	0.69
1:C:1370:THR:HG23	1:C:1373:GLU:OE1	1.91	0.69
2:D:484:LEU:HB2	2:D:519:ARG:HG3	1.73	0.69
3:X:73:VAL:HG23	3:X:74:ARG:N	2.07	0.69
3:Y:170:ARG:NH2	3:Y:206:LYS:HA	2.06	0.69
1:A:495:LYS:CE	1:A:495:LYS:HA	2.17	0.69
1:A:596:MET:HA	1:A:782:ARG:HG2	1.74	0.69
1:A:849:ARG:NH2	2:B:555:LEU:HB2	2.07	0.69
1:A:1543:ILE:O	1:A:1547:THR:HG23	1.91	0.69
1:A:1646:GLU:OE2	1:A:1660:PHE:HZ	1.75	0.69
2:B:834:ALA:O	2:B:835:ILE:HD13	1.92	0.69
1:C:1429:PRO:HB2	1:C:1432:ILE:CG1	2.22	0.69
1:C:1646:GLU:OE2	1:C:1660:PHE:HZ	1.75	0.69
2:D:148:PHE:HB3	2:D:800:ILE:HD11	1.75	0.69
2:D:825:VAL:N	2:D:828:GLU:OE1	2.25	0.69
1:A:33:VAL:HG21	1:A:121:TYR:HD1	1.57	0.69
1:C:1019:PHE:C	1:C:1019:PHE:CD2	2.65	0.69
1:C:1404:ALA:HB1	1:C:1493:PHE:HE2	1.57	0.69
1:C:1585:TYR:CE1	1:C:1671:ILE:HG12	2.28	0.69
2:D:435:TYR:CD1	2:D:436:GLN:N	2.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:73:VAL:HG23	3:Y:74:ARG:N	2.07	0.69
1:A:463:SER:CB	1:A:491:PRO:HA	2.23	0.69
1:A:1329:THR:OG1	1:A:1331:LYS:HG2	1.92	0.69
1:A:1494:THR:HB	1:A:1506:THR:HG23	1.74	0.69
2:B:236:TYR:CZ	2:B:424:ARG:HD2	2.27	0.69
2:B:1445:HIS:CG	2:B:1446:PHE:N	2.59	0.69
1:C:131:ASP:HB3	1:C:142:LYS:HB2	1.72	0.69
1:C:238:ILE:HB	1:C:347:TYR:CD1	2.28	0.69
1:C:658:ASN:O	1:C:659:ALA:HB3	1.91	0.69
2:D:422:ARG:NH1	3:Y:44:ARG:HA	2.07	0.69
2:D:859:ALA:HB1	2:D:866:TYR:CD1	2.27	0.69
1:A:234:GLU:HG3	1:A:235:TYR:CE2	2.28	0.69
1:A:1108:VAL:HG11	1:A:1164:ILE:HG22	1.73	0.69
1:A:1404:ALA:HB1	1:A:1493:PHE:HE2	1.57	0.69
1:C:1228:TRP:H	1:C:1251:THR:CG2	1.98	0.69
1:C:1366:HIS:N	1:C:1366:HIS:ND1	2.40	0.69
1:C:1627:ILE:HD12	1:C:1627:ILE:O	1.92	0.69
3:Y:50:TYR:HE2	3:Y:170:ARG:NH1	1.90	0.69
1:A:1423:VAL:HG13	1:A:1496:TYR:CD2	2.27	0.69
2:B:230:PRO:HG3	2:B:333:GLN:HG2	1.73	0.69
2:B:1371:TYR:CG	2:B:1377:SER:HB3	2.27	0.69
1:C:24:VAL:HA	1:C:655:THR:OG1	1.93	0.69
1:C:144:ARG:HD2	1:C:146:TYR:HE1	1.58	0.69
1:C:257:ASN:HD21	1:C:892:SER:HA	1.58	0.69
2:D:127:PHE:HE2	2:D:602:ILE:HG23	1.57	0.69
2:D:224:PHE:CZ	2:D:329:VAL:HG22	2.27	0.69
2:D:262:PHE:CE1	2:D:282:ARG:HG3	2.27	0.69
2:D:824:VAL:HG22	2:D:825:VAL:H	1.58	0.69
1:A:127:PHE:CE2	1:A:623:VAL:HG13	2.27	0.69
1:A:700:TYR:C	1:A:700:TYR:CD2	2.64	0.69
1:A:1429:PRO:HB2	1:A:1432:ILE:CG1	2.23	0.69
2:B:859:ALA:HB1	2:B:866:TYR:CD1	2.28	0.69
1:C:77:ASN:HD21	1:C:81:ASN:HB2	1.57	0.69
1:C:115:LYS:HB2	1:C:654:LEU:HD21	1.74	0.69
1:C:148:LEU:HD23	1:C:152:LEU:CD1	2.22	0.69
1:C:307:VAL:CG1	1:C:313:TYR:HB2	2.23	0.69
1:C:587:THR:HG22	1:C:789:ALA:HB2	1.74	0.69
1:C:837:GLU:HG2	1:C:1488:LEU:HA	1.75	0.69
1:C:1347:ILE:O	1:C:1347:ILE:HG22	1.93	0.69
1:C:1423:VAL:HG13	1:C:1496:TYR:CE2	2.27	0.69
1:C:1525:CYS:O	1:C:1529:GLU:HG3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1549:LYS:NZ	1:C:1667:PHE:HB3	2.07	0.69
2:D:840:VAL:HG12	2:D:841:ASN:N	2.06	0.69
2:D:950:LEU:HD22	2:D:1329:TYR:CZ	2.28	0.69
2:D:1382:ILE:HB	2:D:1425:ILE:HB	1.74	0.69
3:X:188:LYS:HD3	3:X:202:ASP:HA	1.75	0.69
1:A:549:GLU:CD	1:A:549:GLU:H	1.96	0.69
1:A:1086:LEU:HD12	1:A:1095:GLN:HG3	1.75	0.69
1:C:1069:TRP:CZ3	1:C:1451:THR:HG21	2.28	0.69
2:D:148:PHE:CB	2:D:800:ILE:HD11	2.22	0.69
2:D:1593:THR:HG22	2:D:1594:LYS:N	2.07	0.69
1:A:92:LEU:HD12	1:C:1029:ASN:ND2	2.07	0.69
1:A:123:ASN:HB3	1:A:209:PHE:HD1	1.56	0.69
1:A:1218:VAL:HG12	1:A:1219:LYS:N	2.07	0.69
2:B:136:ILE:HA	2:B:215:ASP:O	1.92	0.69
2:B:1381:ILE:HG21	2:B:1459:TYR:HE1	1.57	0.69
1:C:166:PRO:HD3	1:C:199:TRP:HA	1.75	0.69
1:C:596:MET:N	1:C:782:ARG:HH11	1.85	0.69
2:D:114:ARG:O	2:D:115:LEU:HD23	1.93	0.69
2:D:813:VAL:HG12	2:D:840:VAL:HG22	1.75	0.69
2:D:1435:ASP:OD1	4:H:1:NAG:H81	1.92	0.69
2:D:1610:TRP:CD2	2:D:1628:PHE:CD2	2.81	0.69
1:A:222:TYR:HD2	1:A:223:VAL:N	1.90	0.68
1:A:467:ILE:CG2	1:A:486:VAL:HG22	2.23	0.68
1:A:1180:LEU:O	1:A:1182:ALA:N	2.26	0.68
1:A:1320:LYS:CD	1:A:1321:GLY:H	2.06	0.68
2:B:950:LEU:HD22	2:B:1329:TYR:CE1	2.27	0.68
2:D:1446:PHE:CD2	2:D:1448:VAL:HG22	2.27	0.68
3:X:98:LEU:HD22	3:X:101:GLN:OE1	1.93	0.68
1:A:494:ASP:O	1:A:496:ILE:N	2.27	0.68
1:A:1525:CYS:N	1:A:1528:VAL:HG13	2.07	0.68
2:D:548:LEU:HD22	2:D:793:SER:HB3	1.75	0.68
2:D:1279:ILE:HG22	2:D:1288:ILE:HB	1.74	0.68
1:A:25:ILE:H	1:A:655:THR:HG21	1.56	0.68
1:A:61:ASP:O	1:A:62:LYS:HB2	1.92	0.68
1:A:255:PHE:HE1	1:A:258:LYS:HB2	1.56	0.68
1:A:639:GLY:HA2	1:A:648:LEU:HD13	1.74	0.68
2:B:1424:ILE:HG12	2:B:1426:TYR:CE2	2.28	0.68
1:C:91:GLN:O	1:C:92:LEU:HG	1.92	0.68
1:C:705:VAL:N	1:C:739:ARG:HH22	1.92	0.68
1:C:1268:ASN:HD22	1:C:1268:ASN:H	1.42	0.68
1:C:1504:GLN:HG3	1:C:1505:CYS:N	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:197:TRP:HB2	2:D:214:PHE:CE1	2.28	0.68
2:D:913:LEU:HD23	2:D:914:LYS:N	2.09	0.68
2:D:1424:ILE:H	2:D:1424:ILE:HD13	1.59	0.68
1:A:228:SER:O	1:A:252:ALA:HA	1.93	0.68
1:A:543:TYR:O	1:A:543:TYR:HD1	1.77	0.68
1:A:690:TYR:CG	1:A:690:TYR:O	2.46	0.68
1:A:1366:HIS:N	1:A:1366:HIS:ND1	2.41	0.68
2:B:114:ARG:O	2:B:115:LEU:HD23	1.93	0.68
1:C:1671:ILE:HA	1:C:1675:GLY:H	1.57	0.68
3:Y:64:VAL:HG11	3:Y:95:LYS:O	1.93	0.68
1:A:938:SER:O	1:A:940:SER:N	2.27	0.68
1:A:1608:ASN:O	1:A:1610:GLU:N	2.27	0.68
2:B:1345:LEU:HA	2:B:1368:CYS:O	1.93	0.68
1:C:307:VAL:HG13	1:C:313:TYR:HB2	1.76	0.68
1:C:1226:ARG:CZ	1:C:1266:TYR:HE1	2.07	0.68
1:A:174:VAL:HG22	1:A:175:GLU:N	2.09	0.68
1:A:1386:ILE:HG13	1:A:1387:GLU:H	1.59	0.68
1:A:1673:LEU:O	1:A:1674:ASN:HB2	1.94	0.68
2:B:464:PHE:HB2	2:B:504:VAL:O	1.94	0.68
1:C:104:LEU:HD12	1:C:105:GLU:H	1.59	0.68
1:C:774:LEU:HD12	1:C:799:ILE:HD11	1.76	0.68
2:D:1313:VAL:HG11	2:D:1323:MET:SD	2.34	0.68
1:A:255:PHE:CE1	1:A:258:LYS:CB	2.77	0.68
1:A:1068:VAL:HG13	1:A:1069:TRP:N	2.08	0.68
1:A:1127:ILE:H	1:A:1127:ILE:HD12	1.59	0.68
1:C:25:ILE:HD13	1:C:41:ILE:HB	1.76	0.68
1:C:148:LEU:HD23	1:C:152:LEU:HD12	1.76	0.68
1:C:641:ASN:HD21	1:C:643:ALA:HB3	1.58	0.68
1:C:742:ILE:HG13	1:C:752:LEU:O	1.94	0.68
1:C:1323:LEU:HD12	1:C:1324:HIS:H	1.59	0.68
1:C:1673:LEU:O	1:C:1674:ASN:HB2	1.94	0.68
1:A:77:ASN:HD21	1:A:81:ASN:HB2	1.59	0.68
1:A:101:TYR:CE2	1:C:1305:LYS:HE3	2.28	0.68
1:A:698:CYS:C	1:A:700:TYR:H	1.97	0.68
1:A:829:ILE:HG12	1:A:925:LYS:HG2	1.74	0.68
1:A:1585:TYR:CD2	1:A:1586:LYS:N	2.61	0.68
1:C:1034:PHE:CE2	1:C:1041:GLU:HG2	2.29	0.68
1:C:1179:THR:HG21	1:C:1208:ILE:HD13	1.76	0.68
3:X:134:THR:HG22	3:X:153:PHE:O	1.94	0.68
3:X:228:ILE:HG22	3:X:228:ILE:O	1.94	0.68
3:Y:86:LEU:HG	3:Y:91:LYS:CB	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1123:GLN:HA	1:A:1123:GLN:NE2	2.08	0.68
1:C:382:LEU:HD13	1:C:415:ASP:C	2.14	0.68
1:C:700:TYR:C	1:C:700:TYR:CD2	2.63	0.68
1:C:784:LYS:HG2	1:C:785:GLN:N	2.07	0.68
1:C:1631:PHE:N	1:C:1631:PHE:CD2	2.60	0.68
2:D:28:ILE:HD12	2:D:42:LEU:HD23	1.74	0.68
3:X:166:ASP:OD2	3:X:207:LEU:HG	1.94	0.68
1:A:161:LEU:HD11	1:A:185:PHE:CD1	2.29	0.68
1:A:706:ASN:ND2	1:A:709:GLU:N	2.38	0.68
2:B:133:ASP:HA	2:B:757:TRP:HZ3	1.59	0.68
2:B:218:LYS:HB3	2:B:822:TYR:HD2	1.59	0.68
1:C:222:TYR:HD2	1:C:222:TYR:C	1.97	0.68
1:C:330:ILE:HG22	1:C:337:SER:HB2	1.76	0.68
1:C:373:VAL:HG23	1:C:418:ALA:HB3	1.74	0.68
1:C:938:SER:C	1:C:940:SER:H	1.96	0.68
1:C:1266:TYR:O	1:C:1266:TYR:CD1	2.45	0.68
1:A:40:VAL:CG2	1:A:512:PHE:HD1	2.06	0.67
1:A:365:PRO:HD2	1:A:464:TYR:CE2	2.28	0.67
1:A:1309:LEU:HD13	1:A:1328:MET:HG3	1.75	0.67
1:A:1320:LYS:HD2	1:A:1321:GLY:H	1.58	0.67
1:A:1450:PHE:CZ	1:A:1475:VAL:HB	2.28	0.67
2:B:243:PHE:HD1	2:B:314:LEU:HD23	1.58	0.67
1:C:517:LYS:HG2	1:C:518:PHE:H	1.59	0.67
1:C:1341:LEU:HB2	1:C:1342:LEU:CD2	2.24	0.67
3:Y:150:ILE:HD12	3:Y:150:ILE:O	1.93	0.67
1:A:517:LYS:HG2	1:A:518:PHE:H	1.58	0.67
1:A:612:VAL:HG21	1:A:769:PHE:CZ	2.29	0.67
1:A:1358:THR:HB	1:A:1360:HIS:CE1	2.29	0.67
1:C:471:ASP:OD2	1:C:474:LYS:HD2	1.94	0.67
1:C:1159:CYS:O	1:C:1161:LEU:N	2.27	0.67
1:C:1202:HIS:CD2	1:C:1203:PRO:HD2	2.28	0.67
2:D:28:ILE:HG12	2:D:628:LEU:HD13	1.75	0.67
3:X:179:LEU:HD12	3:X:180:TYR:N	2.10	0.67
1:A:267:ILE:HD11	1:A:299:VAL:HG11	1.74	0.67
1:A:357:VAL:HA	1:A:672:ILE:HG21	1.76	0.67
1:A:470:THR:HG22	2:B:450:THR:CG2	2.22	0.67
2:B:261:ALA:CB	2:B:285:ILE:HD11	2.24	0.67
1:C:576:SER:HB2	1:C:589:SER:CB	2.24	0.67
1:A:88:GLN:O	1:A:90:LYS:HD3	1.94	0.67
1:A:704:CYS:C	1:A:739:ARG:HH22	1.98	0.67
1:A:1112:GLN:HE21	1:A:1171:ALA:HB2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:VAL:HG13	1:A:1496:TYR:CE2	2.30	0.67
1:C:1142:LEU:HD11	1:C:1179:THR:HA	1.77	0.67
3:X:80:GLN:HG3	3:X:114:GLY:C	2.15	0.67
3:Y:166:ASP:CG	3:Y:207:LEU:HD23	2.14	0.67
1:A:207:GLU:O	1:A:209:PHE:N	2.28	0.67
1:A:640:LEU:HD12	1:A:640:LEU:O	1.93	0.67
1:A:1034:PHE:CE2	1:A:1041:GLU:HG2	2.29	0.67
1:A:1244:THR:HG22	1:A:1246:ARG:N	2.08	0.67
1:A:1266:TYR:O	1:A:1266:TYR:CD1	2.48	0.67
2:B:149:SER:O	2:B:794:PHE:HE1	1.78	0.67
1:C:596:MET:H	1:C:782:ARG:NH1	1.87	0.67
2:D:556:ILE:H	2:D:556:ILE:HD12	1.58	0.67
2:D:1539:ILE:H	2:D:1539:ILE:HD12	1.59	0.67
1:A:104:LEU:HD12	1:A:105:GLU:H	1.59	0.67
1:A:222:TYR:HD2	1:A:222:TYR:C	1.98	0.67
1:A:586:GLN:O	1:A:586:GLN:HG3	1.95	0.67
1:A:1019:PHE:C	1:A:1019:PHE:CD2	2.67	0.67
1:A:1163:LYS:O	1:A:1166:THR:HG22	1.94	0.67
1:A:1341:LEU:HD22	1:A:1341:LEU:H	1.60	0.67
2:B:262:PHE:HE1	2:B:282:ARG:HG3	1.60	0.67
2:B:299:PHE:HE1	2:B:303:PHE:HD2	1.43	0.67
2:B:1480:LEU:HD12	2:B:1481:LEU:N	2.10	0.67
2:B:1602:THR:C	2:B:1604:ASN:H	1.97	0.67
1:C:765:ILE:HD13	1:C:767:SER:O	1.94	0.67
1:C:1049:LEU:HD11	1:C:1089:VAL:CG1	2.24	0.67
1:C:1493:PHE:CD1	1:C:1493:PHE:C	2.67	0.67
2:D:531:ILE:HD11	2:D:634:LEU:HD23	1.76	0.67
1:A:109:LYS:HD3	1:A:110:HIS:CE1	2.30	0.67
1:A:190:ILE:HG22	1:A:191:PRO:N	2.09	0.67
1:A:596:MET:N	1:A:782:ARG:HD3	2.10	0.67
1:A:742:ILE:HG13	1:A:752:LEU:O	1.94	0.67
1:A:865:ILE:O	1:A:866:CYS:O	2.11	0.67
1:A:1142:LEU:HD11	1:A:1179:THR:HA	1.77	0.67
1:C:180:ILE:HB	1:C:599:TRP:CE3	2.30	0.67
1:C:690:TYR:C	1:C:692:HIS:H	1.98	0.67
2:D:1444:LYS:CE	2:D:1447:GLU:HA	2.25	0.67
3:Y:47:HIS:CE1	3:Y:181:LYS:HE2	2.30	0.67
2:B:1505:ARG:HG3	2:B:1505:ARG:NH1	1.93	0.67
2:B:1562:GLN:HE22	2:B:1596:LYS:HZ2	1.42	0.67
1:C:474:LYS:HD3	1:C:474:LYS:H	1.60	0.67
1:C:1077:TRP:NE1	1:C:1147:PHE:CE1	2.62	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1535:MET:H	1:C:1608:ASN:HB3	1.60	0.67
3:Y:41:HIS:O	3:Y:42:ASP:HB2	1.95	0.67
2:B:30:PRO:HG3	2:B:489:ILE:HG13	1.77	0.67
2:B:783:SER:HB2	2:B:787:TRP:HZ2	1.60	0.67
2:B:824:VAL:HG22	2:B:825:VAL:H	1.60	0.67
1:C:473:HIS:CD2	1:C:473:HIS:O	2.47	0.67
1:C:493:ILE:HG23	1:C:495:LYS:N	2.10	0.67
1:C:1341:LEU:HD22	1:C:1341:LEU:H	1.60	0.67
1:C:1504:GLN:HG3	1:C:1505:CYS:CA	2.24	0.67
2:D:603:GLU:O	2:D:605:SER:N	2.27	0.67
2:D:1594:LYS:HA	2:D:1594:LYS:CE	2.15	0.67
1:A:459:SER:OG	1:A:461:SER:HB3	1.94	0.67
1:A:796:THR:HG23	1:A:818:LYS:CB	2.25	0.67
1:C:944:LEU:HD23	1:C:944:LEU:N	2.10	0.67
2:D:144:LEU:HD23	2:D:144:LEU:H	1.59	0.67
2:D:243:PHE:HD1	2:D:314:LEU:HD23	1.58	0.67
2:D:829:GLN:HG3	2:D:1480:LEU:CD1	2.07	0.67
3:X:86:LEU:HG	3:X:91:LYS:CB	2.23	0.67
1:A:530:VAL:HG23	1:A:534:MET:HE2	1.75	0.66
1:A:947:ARG:O	1:A:949:ILE:HG12	1.95	0.66
1:A:1219:LYS:CE	1:A:1239:VAL:HG21	2.25	0.66
2:B:196:THR:HG23	2:B:215:ASP:OD1	1.95	0.66
2:B:422:ARG:H	2:B:422:ARG:CD	2.08	0.66
2:B:1382:ILE:HB	2:B:1425:ILE:HB	1.77	0.66
1:C:222:TYR:C	1:C:222:TYR:CD2	2.68	0.66
1:C:583:SER:O	1:C:586:GLN:HG2	1.94	0.66
1:C:698:CYS:C	1:C:700:TYR:H	1.97	0.66
1:C:1323:LEU:HD12	1:C:1324:HIS:N	2.10	0.66
2:D:481:TYR:HB2	2:D:520:PHE:HE1	1.58	0.66
3:Y:128:LYS:HB2	3:Y:158:GLU:HB2	1.77	0.66
1:A:474:LYS:HD3	1:A:474:LYS:H	1.59	0.66
1:A:1643:THR:HG22	1:A:1644:TRP:N	2.09	0.66
2:B:599:TRP:HA	2:B:599:TRP:CE3	2.29	0.66
2:B:1444:LYS:CE	2:B:1447:GLU:HA	2.25	0.66
2:B:1450:PHE:CD1	2:B:1451:ILE:N	2.64	0.66
1:C:1226:ARG:HB3	1:C:1269:PRO:HB2	1.75	0.66
3:X:166:ASP:CG	3:X:207:LEU:HD23	2.14	0.66
1:A:115:LYS:CB	1:A:654:LEU:HD21	2.25	0.66
1:A:473:HIS:O	1:A:473:HIS:CD2	2.49	0.66
1:C:480:GLU:O	1:C:530:VAL:HG12	1.95	0.66
1:C:525:SER:H	2:D:401:ASN:HD21	1.40	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1113:LEU:CD2	1:C:1114:ASP:H	2.07	0.66
1:C:1643:THR:HG22	1:C:1644:TRP:N	2.11	0.66
2:D:131:GLN:OE1	2:D:146:ARG:NH1	2.28	0.66
1:A:25:ILE:HD13	1:A:41:ILE:HB	1.77	0.66
2:B:1606:TRP:CD1	2:B:1606:TRP:C	2.69	0.66
1:C:640:LEU:HD12	1:C:640:LEU:O	1.95	0.66
1:C:1076:THR:CG2	1:C:1120:GLU:HA	2.24	0.66
1:C:1309:LEU:HD13	1:C:1328:MET:HG3	1.77	0.66
2:D:1602:THR:C	2:D:1604:ASN:H	1.99	0.66
3:Y:205:ASP:O	3:Y:206:LYS:C	2.33	0.66
1:C:467:ILE:CG2	1:C:486:VAL:HG22	2.25	0.66
1:C:706:ASN:ND2	1:C:709:GLU:N	2.38	0.66
1:C:1219:LYS:HD3	1:C:1239:VAL:HG21	1.77	0.66
2:D:241:GLU:O	2:D:296:ARG:HD3	1.95	0.66
1:A:307:VAL:HG13	1:A:313:TYR:HB2	1.78	0.66
1:A:471:ASP:OD2	1:A:474:LYS:HD2	1.96	0.66
1:A:1226:ARG:HB3	1:A:1269:PRO:HB2	1.78	0.66
1:C:685:GLU:OE1	1:C:685:GLU:HA	1.94	0.66
2:D:1450:PHE:CD1	2:D:1451:ILE:N	2.64	0.66
3:Y:228:ILE:O	3:Y:228:ILE:HG22	1.93	0.66
1:A:238:ILE:HB	1:A:347:TYR:CD1	2.31	0.66
1:A:484:ILE:CD1	1:A:540:LEU:HD21	2.26	0.66
1:A:632:LEU:N	1:A:632:LEU:HD23	2.11	0.66
1:A:690:TYR:O	1:A:690:TYR:CD2	2.49	0.66
1:A:702:GLY:CA	1:A:728:PHE:CE1	2.78	0.66
2:B:147:VAL:HG12	2:B:183:PHE:HE1	1.60	0.66
2:B:476:ILE:HD11	2:B:524:TYR:CG	2.30	0.66
2:B:961:THR:CG2	2:B:1327:THR:HG23	2.25	0.66
1:C:127:PHE:HD2	1:C:623:VAL:HG22	1.60	0.66
1:C:190:ILE:HG22	1:C:191:PRO:N	2.11	0.66
1:C:234:GLU:HG3	1:C:235:TYR:CE2	2.29	0.66
1:C:931:PRO:HB2	1:C:1366:HIS:CD2	2.30	0.66
1:C:1024:TYR:HA	1:C:1302:LEU:CD2	2.26	0.66
1:C:1352:PHE:N	1:C:1352:PHE:CD2	2.62	0.66
1:C:1562:LYS:CD	1:C:1664:LEU:HD21	2.12	0.66
2:D:964:ILE:HG13	2:D:1302:THR:HG23	1.77	0.66
2:D:1445:HIS:CG	2:D:1446:PHE:H	2.14	0.66
1:A:869:GLU:C	1:A:871:PRO:HD3	2.15	0.66
2:B:1417:MET:HG2	2:B:1443:LEU:HD23	1.76	0.66
1:C:228:SER:O	1:C:252:ALA:HA	1.96	0.66
1:C:255:PHE:HE1	1:C:258:LYS:HB2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:639:GLY:H	1:C:645:VAL:HA	1.60	0.66
1:C:670:LYS:HD2	1:C:671:GLU:HG2	1.78	0.66
1:C:935:LYS:HD3	1:C:1373:GLU:OE2	1.94	0.66
2:D:961:THR:CG2	2:D:1327:THR:HG23	2.25	0.66
3:Y:98:LEU:HD22	3:Y:101:GLN:OE1	1.96	0.66
1:A:371:ILE:CG2	1:A:420:PHE:HB2	2.23	0.66
1:A:968:VAL:HG12	1:A:1368:THR:HG22	1.78	0.66
1:A:1566:THR:O	1:A:1613:LYS:HE3	1.95	0.66
1:A:1618:LEU:HD22	1:A:1619:ILE:H	1.60	0.66
2:B:131:GLN:OE1	2:B:146:ARG:NH1	2.29	0.66
2:B:523:TYR:CD1	2:B:523:TYR:C	2.68	0.66
1:C:436:LYS:HB2	1:C:449:ARG:HG2	1.77	0.66
1:C:1127:ILE:HD11	1:C:1143:TYR:CD2	2.31	0.66
1:C:1213:LYS:HE2	1:C:1266:TYR:CD2	2.31	0.66
2:D:69:PHE:CG	2:D:87:ILE:HG22	2.31	0.66
2:D:236:TYR:CZ	2:D:424:ARG:HD2	2.31	0.66
2:D:1345:LEU:HA	2:D:1368:CYS:O	1.96	0.66
1:A:1202:HIS:CD2	1:A:1203:PRO:HD2	2.31	0.66
1:C:671:GLU:O	1:C:672:ILE:HB	1.96	0.66
1:C:981:GLY:CA	1:C:1333:PHE:HB2	2.25	0.66
1:C:1034:PHE:CD2	1:C:1041:GLU:HG2	2.30	0.66
1:C:1379:LEU:HD11	1:C:1505:CYS:O	1.95	0.66
2:D:57:PHE:HD1	2:D:59:HIS:HE2	1.44	0.66
2:D:230:PRO:HG3	2:D:333:GLN:HG2	1.77	0.66
1:A:62:LYS:HE2	1:A:103:TYR:CE2	2.31	0.65
1:A:955:ARG:NH1	1:A:1352:PHE:HA	2.11	0.65
1:A:1163:LYS:HZ1	1:C:1109:GLU:CD	1.99	0.65
2:B:194:LEU:HD12	2:B:217:ARG:HA	1.78	0.65
1:C:495:LYS:HA	1:C:495:LYS:HE2	1.76	0.65
1:C:705:VAL:HA	1:C:739:ARG:NH1	2.11	0.65
2:D:563:MET:HB3	2:D:778:PHE:CE2	2.31	0.65
1:A:25:ILE:HB	1:A:654:LEU:HB2	1.78	0.65
1:A:87:ILE:HD13	1:A:87:ILE:H	1.61	0.65
1:A:436:LYS:HB2	1:A:449:ARG:HG2	1.78	0.65
1:A:489:LYS:HG3	1:A:490:SER:H	1.60	0.65
1:A:633:GLY:O	1:A:634:CYS:HB2	1.96	0.65
1:A:641:ASN:O	1:A:643:ALA:N	2.29	0.65
1:A:895:LEU:HD12	1:A:896:VAL:N	2.11	0.65
1:C:511:HIS:CE1	3:Y:149:SER:HG	2.14	0.65
1:C:704:CYS:C	1:C:739:ARG:HH22	2.00	0.65
1:A:884:VAL:CG1	1:A:886:GLN:HG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:935:LYS:HD3	1:A:1373:GLU:OE2	1.95	0.65
1:C:123:ASN:HB3	1:C:209:PHE:HD1	1.61	0.65
1:C:505:SER:OG	1:C:506:LYS:HD3	1.97	0.65
1:C:934:VAL:CG2	1:C:1366:HIS:CD2	2.79	0.65
1:A:1585:TYR:CG	1:A:1586:LYS:N	2.64	0.65
2:B:1491:ARG:HG3	2:B:1492:CYS:H	1.62	0.65
1:C:443:PRO:HD2	1:C:446:ASN:HB2	1.78	0.65
1:C:884:VAL:O	1:C:885:ARG:CB	2.42	0.65
1:C:1145:THR:O	1:C:1149:VAL:HG23	1.97	0.65
2:D:128:LEU:O	2:D:129:PHE:CD1	2.49	0.65
2:D:481:TYR:CE2	2:D:493:GLY:CA	2.79	0.65
3:X:47:HIS:HE1	3:X:181:LYS:HE2	1.62	0.65
1:A:875:HIS:HB3	2:B:901:GLN:NE2	2.11	0.65
2:B:69:PHE:CG	2:B:87:ILE:HG22	2.32	0.65
1:C:535:VAL:HG23	1:C:536:PRO:CD	2.15	0.65
1:C:1667:PHE:O	1:C:1671:ILE:HG22	1.97	0.65
2:D:133:ASP:HA	2:D:757:TRP:HZ3	1.60	0.65
3:X:41:HIS:O	3:X:42:ASP:HB2	1.96	0.65
3:Y:207:LEU:HD12	3:Y:207:LEU:C	2.14	0.65
1:A:505:SER:OG	1:A:506:LYS:HD3	1.97	0.65
1:A:884:VAL:O	1:A:885:ARG:CB	2.41	0.65
1:A:1034:PHE:CD2	1:A:1041:GLU:HG2	2.32	0.65
1:C:40:VAL:HG21	1:C:512:PHE:HD1	1.62	0.65
1:C:504:LEU:HD12	1:C:509:ILE:HG23	1.77	0.65
1:C:514:THR:O	1:C:515:ARG:HD3	1.95	0.65
1:C:1123:GLN:HA	1:C:1123:GLN:NE2	2.11	0.65
1:C:1180:LEU:O	1:C:1182:ALA:N	2.29	0.65
1:C:1564:SER:HB2	1:C:1616:GLN:HG3	1.78	0.65
2:D:127:PHE:CE2	2:D:602:ILE:HG23	2.32	0.65
2:D:239:GLY:H	2:D:296:ARG:NH2	1.95	0.65
2:D:282:ARG:C	2:D:283:ILE:HD12	2.17	0.65
2:D:421:PRO:HB2	2:D:423:GLU:OE2	1.96	0.65
2:D:422:ARG:H	2:D:422:ARG:CD	2.08	0.65
3:Y:43:ILE:HG23	3:Y:44:ARG:H	1.60	0.65
3:Y:179:LEU:HD12	3:Y:180:TYR:N	2.11	0.65
1:A:60:PRO:CD	1:A:61:ASP:N	2.56	0.65
1:A:222:TYR:C	1:A:222:TYR:CD2	2.70	0.65
1:A:705:VAL:N	1:A:739:ARG:HH22	1.94	0.65
1:A:1381:ILE:HG12	1:A:1382:ASP:N	2.12	0.65
2:B:783:SER:HB2	2:B:787:TRP:CZ2	2.32	0.65
1:C:24:VAL:HG11	1:C:543:TYR:CE2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:936:ARG:NH2	1:C:1284:PHE:CE1	2.64	0.65
1:C:1075:SER:HB2	1:C:1120:GLU:OE1	1.96	0.65
1:C:1076:THR:HG21	1:C:1120:GLU:HA	1.79	0.65
1:A:131:ASP:O	1:A:132:LYS:HG2	1.97	0.65
1:A:865:ILE:O	1:A:866:CYS:C	2.35	0.65
2:B:23:ALA:HB3	2:B:528:ASN:HD22	1.61	0.65
2:B:144:LEU:HD23	2:B:144:LEU:H	1.62	0.65
2:B:237:ILE:HD11	2:B:309:LEU:CB	2.24	0.65
2:B:460:LEU:HD23	2:B:460:LEU:O	1.97	0.65
1:C:863:GLU:H	1:C:863:GLU:CD	2.00	0.65
1:C:1231:ASN:HB2	1:C:1235:LYS:HG3	1.77	0.65
2:D:557:GLN:HE21	2:D:563:MET:CE	2.10	0.65
3:Y:53:GLU:HB3	3:Y:55:PHE:CE2	2.32	0.65
2:B:262:PHE:CE1	2:B:282:ARG:HG3	2.30	0.65
2:B:825:VAL:N	2:B:828:GLU:OE1	2.29	0.65
2:B:887:LEU:CD2	2:B:1490:CYS:HB3	2.27	0.65
2:B:1371:TYR:O	2:B:1432:HIS:HA	1.97	0.65
2:B:1445:HIS:CG	2:B:1446:PHE:H	2.15	0.65
1:C:492:TYR:HD2	1:C:493:ILE:H	1.44	0.65
1:C:690:TYR:O	1:C:690:TYR:CD2	2.49	0.65
1:C:1429:PRO:HB2	1:C:1432:ILE:HG13	1.78	0.65
2:D:167:THR:HG23	2:D:171:ILE:H	1.61	0.65
2:D:1515:ALA:HB1	2:D:1523:VAL:HG21	1.79	0.65
1:A:690:TYR:C	1:A:692:HIS:H	2.00	0.65
1:A:931:PRO:HB2	1:A:1366:HIS:CD2	2.32	0.65
1:A:1259:LEU:HD11	1:A:1300:TYR:HB2	1.78	0.65
2:B:481:TYR:HB2	2:B:520:PHE:HE1	1.59	0.65
2:B:603:GLU:O	2:B:605:SER:N	2.28	0.65
1:C:24:VAL:O	1:C:24:VAL:CG1	2.45	0.65
1:C:884:VAL:CG1	1:C:886:GLN:HG2	2.27	0.65
1:C:1304:VAL:CG1	1:C:1305:LYS:N	2.60	0.65
2:D:1387:LEU:HB2	2:D:1390:PHE:CD2	2.32	0.65
3:X:50:TYR:HE2	3:X:170:ARG:NH1	1.94	0.65
1:A:307:VAL:CG1	1:A:313:TYR:HB2	2.27	0.64
1:A:492:TYR:HD2	1:A:493:ILE:H	1.45	0.64
1:A:705:VAL:HA	1:A:739:ARG:NH1	2.12	0.64
1:A:1244:THR:H	1:A:1247:MET:HE3	1.62	0.64
2:B:364:VAL:HG21	2:B:379:VAL:HG21	1.79	0.64
2:D:299:PHE:HE1	2:D:303:PHE:HD2	1.45	0.64
2:D:433:ILE:HG22	2:D:434:ALA:O	1.96	0.64
1:A:423:ASN:HB3	2:B:501:GLN:NE2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:554:LEU:H	1:A:658:ASN:HD22	1.43	0.64
1:A:1352:PHE:CD2	1:A:1352:PHE:N	2.62	0.64
2:B:814:PHE:HZ	2:B:846:VAL:HG21	1.62	0.64
2:B:838:ASN:OD1	2:B:840:VAL:HG23	1.97	0.64
2:B:913:LEU:HD23	2:B:914:LYS:N	2.12	0.64
1:C:1244:THR:HG22	1:C:1246:ARG:N	2.13	0.64
3:X:70:SER:CB	3:X:91:LYS:HE3	2.27	0.64
1:A:494:ASP:OD1	1:A:495:LYS:HE2	1.97	0.64
1:A:1627:ILE:O	1:A:1627:ILE:HG13	1.98	0.64
2:B:524:TYR:O	2:B:524:TYR:HD1	1.79	0.64
1:C:207:GLU:O	1:C:209:PHE:N	2.29	0.64
1:C:1427:SER:HB3	1:C:1492:THR:HG23	1.79	0.64
2:D:1506:ILE:CD1	2:D:1628:PHE:HE1	2.09	0.64
3:X:170:ARG:O	3:X:174:VAL:HG23	1.97	0.64
3:X:179:LEU:HD12	3:X:180:TYR:H	1.62	0.64
1:A:656:ASN:HB3	1:A:659:ALA:H	1.63	0.64
1:A:837:GLU:HG2	1:A:1488:LEU:HA	1.78	0.64
1:A:917:TRP:HB3	2:B:558:MET:SD	2.38	0.64
1:A:947:ARG:O	1:A:949:ILE:N	2.30	0.64
1:C:24:VAL:HG11	1:C:543:TYR:OH	1.97	0.64
1:C:119:ILE:HD12	1:C:119:ILE:O	1.97	0.64
1:C:829:ILE:HG12	1:C:925:LYS:HG2	1.80	0.64
1:C:1086:LEU:HD12	1:C:1095:GLN:HG3	1.79	0.64
1:C:1423:VAL:CG1	1:C:1496:TYR:CE2	2.80	0.64
1:C:1566:THR:O	1:C:1613:LYS:HE3	1.98	0.64
2:D:26:THR:OG1	2:D:44:GLU:HB2	1.98	0.64
1:C:429:THR:HA	1:C:456:ALA:HB2	1.80	0.64
3:X:205:ASP:O	3:X:206:LYS:C	2.33	0.64
1:A:820:PHE:O	1:A:821:LYS:HG3	1.98	0.64
1:A:1077:TRP:NE1	1:A:1147:PHE:CE1	2.66	0.64
1:A:1504:GLN:HG3	1:A:1505:CYS:N	2.11	0.64
2:B:1623:LYS:HZ3	2:B:1623:LYS:HA	1.63	0.64
1:C:255:PHE:CE1	1:C:258:LYS:CB	2.80	0.64
1:C:1548:ARG:HD3	1:C:1548:ARG:H	1.63	0.64
2:D:523:TYR:C	2:D:523:TYR:CD1	2.70	0.64
2:D:1446:PHE:HB3	2:D:1448:VAL:HG22	1.79	0.64
2:D:1547:VAL:HG23	2:D:1557:ARG:NH1	2.12	0.64
3:X:170:ARG:HD3	3:X:203:LEU:CD2	2.27	0.64
3:Y:64:VAL:HG23	3:Y:71:ASN:OD1	1.97	0.64
1:A:583:SER:O	1:A:586:GLN:HG2	1.96	0.64
2:B:421:PRO:HB2	2:B:423:GLU:OE2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:60:PRO:HD2	1:C:61:ASP:N	2.09	0.64
1:C:161:LEU:H	1:C:161:LEU:HD12	1.62	0.64
1:C:362:PHE:CE1	1:C:640:LEU:HB2	2.33	0.64
2:D:149:SER:O	2:D:794:PHE:HE1	1.80	0.64
1:A:24:VAL:O	1:A:24:VAL:CG1	2.45	0.64
1:A:535:VAL:HG23	1:A:536:PRO:CD	2.16	0.64
1:A:1024:TYR:HA	1:A:1302:LEU:CD2	2.28	0.64
1:A:1365:VAL:CG2	1:A:1366:HIS:H	2.08	0.64
2:B:1615:GLU:HB3	2:B:1621:PHE:HD1	1.63	0.64
1:C:260:VAL:HG12	1:C:261:THR:N	2.12	0.64
2:D:130:ILE:HD13	2:D:199:ILE:HG22	1.80	0.64
2:D:136:ILE:HA	2:D:215:ASP:O	1.97	0.64
2:D:464:PHE:HB2	2:D:504:VAL:O	1.98	0.64
2:D:599:TRP:HA	2:D:599:TRP:CE3	2.31	0.64
2:D:1505:ARG:CZ	2:D:1623:LYS:NZ	2.61	0.64
1:A:24:VAL:CG2	1:A:554:LEU:HD11	2.27	0.64
1:A:480:GLU:O	1:A:530:VAL:HG12	1.98	0.64
1:A:1232:LEU:CD1	1:A:1233:GLN:HE21	2.11	0.64
1:A:1323:LEU:HD12	1:A:1324:HIS:H	1.63	0.64
1:C:436:LYS:HA	1:C:448:ALA:O	1.97	0.64
1:C:883:CYS:O	1:C:884:VAL:O	2.16	0.64
1:C:1525:CYS:N	1:C:1528:VAL:HG13	2.13	0.64
1:A:144:ARG:HD2	1:A:146:TYR:HE1	1.62	0.64
1:A:1304:VAL:CG1	1:A:1305:LYS:N	2.61	0.64
1:C:612:VAL:HG21	1:C:769:PHE:CZ	2.32	0.64
1:C:632:LEU:HD23	1:C:632:LEU:N	2.13	0.64
1:C:1402:ILE:HG13	1:C:1479:ILE:CD1	2.28	0.64
2:D:218:LYS:HB3	2:D:822:TYR:HD2	1.59	0.64
2:D:964:ILE:CG2	2:D:964:ILE:O	2.46	0.64
3:X:73:VAL:HG22	3:X:84:LEU:HB3	1.80	0.64
3:X:128:LYS:HB2	3:X:158:GLU:HB2	1.78	0.64
3:X:194:LYS:NZ	3:X:197:ASN:HB2	2.10	0.64
3:Y:70:SER:CB	3:Y:91:LYS:HE3	2.28	0.64
2:B:534:ASP:HA	2:B:620:VAL:HG21	1.80	0.63
2:B:1446:PHE:CD2	2:B:1448:VAL:HG22	2.33	0.63
1:C:693:SER:C	1:C:695:VAL:H	2.01	0.63
2:D:543:THR:OG1	2:D:544:CYS:N	2.30	0.63
2:D:1417:MET:HG2	2:D:1443:LEU:HD23	1.80	0.63
2:D:1591:LEU:HD23	2:D:1591:LEU:C	2.19	0.63
1:A:653:PHE:CD1	1:A:660:ASP:HB3	2.33	0.63
1:A:1101:CYS:HB3	1:C:1161:LEU:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:ASN:ND2	2:D:399:ILE:HB	2.14	0.63
2:D:355:LYS:O	2:D:358:MET:HB3	1.97	0.63
1:A:671:GLU:O	1:A:672:ILE:HB	1.97	0.63
2:B:221:LEU:CD1	2:B:753:LYS:HG2	2.25	0.63
1:C:393:GLN:HG2	1:C:403:ASP:OD1	1.99	0.63
1:C:459:SER:OG	1:C:461:SER:HB3	1.97	0.63
1:C:633:GLY:O	1:C:634:CYS:HB2	1.98	0.63
1:C:982:LEU:C	1:C:984:VAL:H	2.01	0.63
1:C:1286:SER:HB2	1:C:1499:HIS:HA	1.80	0.63
2:D:58:VAL:HG12	2:D:104:VAL:HG22	1.80	0.63
2:D:1371:TYR:O	2:D:1432:HIS:HA	1.97	0.63
3:X:50:TYR:CE2	3:X:170:ARG:CD	2.80	0.63
3:Y:134:THR:HG22	3:Y:153:PHE:O	1.97	0.63
3:Y:179:LEU:HD12	3:Y:180:TYR:H	1.62	0.63
1:A:91:GLN:O	1:A:92:LEU:HG	1.96	0.63
1:A:1219:LYS:HD3	1:A:1239:VAL:HG21	1.80	0.63
1:A:1459:HIS:CD2	1:A:1459:HIS:N	2.66	0.63
2:B:58:VAL:HG12	2:B:104:VAL:HG22	1.80	0.63
2:B:829:GLN:HG2	2:B:885:VAL:CG1	2.28	0.63
1:C:423:ASN:CG	2:D:504:VAL:HG22	2.18	0.63
2:D:194:LEU:HD12	2:D:217:ARG:HA	1.80	0.63
3:X:43:ILE:HG23	3:X:44:ARG:H	1.62	0.63
3:X:207:LEU:HD12	3:X:207:LEU:C	2.14	0.63
1:A:60:PRO:HD2	1:A:61:ASP:N	2.08	0.63
1:A:153:LYS:HB3	1:A:154:PRO:HD2	1.80	0.63
1:A:330:ILE:HG22	1:A:337:SER:HB2	1.79	0.63
1:A:443:PRO:HD2	1:A:446:ASN:HB2	1.80	0.63
1:A:476:LEU:HB3	1:A:563:ILE:HA	1.80	0.63
1:A:531:THR:O	1:A:534:MET:HG3	1.98	0.63
1:A:1286:SER:HB2	1:A:1499:HIS:HA	1.80	0.63
1:A:1618:LEU:HD22	1:A:1619:ILE:N	2.12	0.63
2:B:127:PHE:HE2	2:B:602:ILE:HG23	1.62	0.63
2:B:1539:ILE:H	2:B:1539:ILE:HD12	1.62	0.63
1:C:238:ILE:HB	1:C:347:TYR:HD1	1.62	0.63
1:C:473:HIS:ND1	2:D:455:LYS:HE3	2.13	0.63
1:C:512:PHE:CD2	1:C:512:PHE:O	2.51	0.63
1:C:947:ARG:O	1:C:949:ILE:N	2.31	0.63
1:A:199:TRP:HB2	1:A:217:PHE:CE1	2.34	0.63
1:A:977:LEU:HD22	1:A:978:SER:H	1.63	0.63
2:B:965:ILE:CG1	2:B:1301:ARG:HB2	2.25	0.63
1:C:104:LEU:HD12	1:C:105:GLU:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:238:ILE:HD12	1:C:347:TYR:CE1	2.33	0.63
1:C:512:PHE:HE2	3:Y:148:ALA:HB3	1.63	0.63
1:C:830:PRO:CG	1:C:1483:PHE:CZ	2.74	0.63
1:A:1013:MET:CE	1:A:1287:THR:HB	2.28	0.63
1:A:1236:ASP:O	1:A:1238:SER:N	2.29	0.63
2:B:261:ALA:HB3	2:B:285:ILE:HD11	1.80	0.63
1:C:614:ARG:HD2	1:C:615:GLY:H	1.63	0.63
1:C:702:GLY:CA	1:C:728:PHE:CE1	2.77	0.63
1:C:949:ILE:HG22	1:C:950:TYR:CE1	2.33	0.63
1:C:1459:HIS:CD2	1:C:1459:HIS:N	2.66	0.63
1:C:1629:TYR:CE1	1:C:1631:PHE:CD1	2.86	0.63
2:D:963:ILE:HD11	2:D:1311:ILE:HG21	1.81	0.63
2:D:965:ILE:CG1	2:D:1301:ARG:HB2	2.26	0.63
2:D:1447:GLU:HG3	2:D:1447:GLU:O	1.98	0.63
2:B:1591:LEU:C	2:B:1591:LEU:HD23	2.19	0.63
1:C:24:VAL:CA	1:C:655:THR:HG21	2.28	0.63
1:C:653:PHE:CD1	1:C:660:ASP:HB3	2.33	0.63
2:D:142:PRO:HB3	2:D:187:ASN:ND2	2.14	0.63
2:D:296:ARG:HH11	2:D:296:ARG:HG3	1.63	0.63
2:D:1431:SER:HB3	2:D:1433:SER:H	1.64	0.63
1:A:938:SER:C	1:A:940:SER:H	2.01	0.63
2:B:620:VAL:HG12	2:B:621:PHE:CD2	2.32	0.63
2:B:1500:LEU:HD11	2:B:1608:GLU:HA	1.80	0.63
2:B:1500:LEU:HD13	2:B:1607:ILE:O	1.99	0.63
1:C:88:GLN:O	1:C:90:LYS:HD3	1.99	0.63
1:C:195:ARG:HD3	1:C:1058:SER:HA	1.80	0.63
1:C:491:PRO:C	1:C:493:ILE:N	2.49	0.63
1:C:543:TYR:O	1:C:543:TYR:HD1	1.82	0.63
1:C:824:PHE:CE2	1:C:846:TYR:HB2	2.34	0.63
1:C:1229:LYS:NZ	1:C:1240:PRO:HD2	2.14	0.63
1:A:152:LEU:HD11	1:A:627:LEU:HD11	1.81	0.62
1:A:502:LEU:HB2	1:A:541:LEU:HD23	1.79	0.62
1:A:1152:ILE:HG21	1:A:1168:LEU:HD21	1.81	0.62
1:A:1626:GLN:O	1:A:1626:GLN:HG2	1.98	0.62
1:C:656:ASN:HB3	1:C:659:ALA:H	1.64	0.62
1:C:752:LEU:O	1:C:752:LEU:HG	1.99	0.62
1:C:1641:SER:C	1:C:1643:THR:H	2.03	0.62
2:D:364:VAL:HG21	2:D:379:VAL:HG21	1.81	0.62
3:Y:170:ARG:O	3:Y:174:VAL:HG23	1.98	0.62
1:A:92:LEU:HD12	1:C:1029:ASN:HD21	1.64	0.62
1:A:614:ARG:HD2	1:A:615:GLY:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:967:LEU:HD12	1:A:968:VAL:N	2.14	0.62
2:B:1607:ILE:HD12	2:B:1607:ILE:N	2.14	0.62
1:C:101:TYR:CE1	1:C:116:ARG:NH2	2.67	0.62
1:C:1493:PHE:HD1	1:C:1493:PHE:C	2.00	0.62
2:D:950:LEU:HD22	2:D:1329:TYR:CE1	2.33	0.62
2:D:1505:ARG:NE	2:D:1623:LYS:NZ	2.47	0.62
1:A:123:ASN:O	1:A:211:THR:HG21	1.98	0.62
1:A:1556:GLU:CB	1:A:1622:LYS:HE2	2.24	0.62
2:B:57:PHE:HD1	2:B:59:HIS:HE2	1.47	0.62
2:B:964:ILE:HG13	2:B:1302:THR:HG23	1.82	0.62
1:C:59:TYR:CD1	1:C:60:PRO:HD3	2.34	0.62
1:C:1527:CYS:O	1:C:1528:VAL:C	2.36	0.62
1:C:1622:LYS:HD2	1:C:1642:LEU:HB3	1.81	0.62
2:D:30:PRO:HG3	2:D:489:ILE:HG13	1.81	0.62
1:A:506:LYS:HE2	1:A:533:ASN:O	1.98	0.62
1:A:543:TYR:CD1	1:A:543:TYR:O	2.51	0.62
1:A:551:THR:O	1:A:552:ALA:CB	2.47	0.62
2:B:76:ASN:HB2	2:B:77:PRO:HD2	1.82	0.62
2:B:265:PHE:CE2	2:B:294:LEU:HB2	2.34	0.62
2:B:355:LYS:N	2:B:355:LYS:HD2	2.15	0.62
2:B:1387:LEU:HB2	2:B:1390:PHE:CD2	2.34	0.62
2:B:1623:LYS:N	2:B:1623:LYS:HD2	2.11	0.62
1:C:267:ILE:HD11	1:C:299:VAL:HG11	1.81	0.62
1:C:270:GLY:HA3	1:C:282:MET:HG2	1.80	0.62
1:C:506:LYS:HE2	1:C:533:ASN:O	1.99	0.62
1:C:834:VAL:O	1:C:837:GLU:HB2	2.00	0.62
1:C:1219:LYS:HE2	1:C:1239:VAL:HG21	1.81	0.62
1:C:1627:ILE:O	1:C:1627:ILE:CG1	2.46	0.62
2:D:294:LEU:HD12	2:D:295:LYS:N	2.14	0.62
2:D:384:PHE:O	2:D:385:HIS:C	2.38	0.62
2:D:524:TYR:O	2:D:524:TYR:HD1	1.83	0.62
2:D:850:LEU:HD12	2:D:851:LEU:N	2.14	0.62
1:A:20:GLU:O	1:A:20:GLU:CD	2.37	0.62
1:A:682:LYS:HZ3	1:A:686:ILE:HD11	1.64	0.62
1:A:837:GLU:O	1:A:901:LEU:HD12	2.00	0.62
1:A:938:SER:OG	1:A:1284:PHE:CZ	2.53	0.62
1:A:1423:VAL:CG1	1:A:1496:TYR:CE2	2.81	0.62
2:B:1547:VAL:HG23	2:B:1557:ARG:NH1	2.14	0.62
1:C:199:TRP:HB2	1:C:217:PHE:CE1	2.34	0.62
1:C:222:TYR:CD2	1:C:223:VAL:N	2.66	0.62
1:C:623:VAL:O	1:C:624:PHE:C	2.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:824:PHE:HD2	1:C:824:PHE:N	1.97	0.62
1:C:1386:ILE:HG13	1:C:1387:GLU:H	1.63	0.62
2:D:61:PHE:CG	2:D:62:PRO:HA	2.35	0.62
3:X:146:LEU:HD22	3:X:147:ASP:N	2.14	0.62
1:A:511:HIS:CE1	3:X:149:SER:OG	2.52	0.62
1:C:1616:GLN:OE1	1:C:1650:ARG:HB3	1.98	0.62
2:D:147:VAL:HG12	2:D:183:PHE:HE1	1.64	0.62
1:A:884:VAL:HG12	1:A:885:ARG:N	2.15	0.62
1:A:1056:ILE:CD1	1:A:1066:TYR:CE2	2.82	0.62
1:A:1429:PRO:HB2	1:A:1432:ILE:HG13	1.80	0.62
1:C:412:ARG:HD2	2:D:458:ASP:OD1	2.00	0.62
1:C:968:VAL:HG23	1:C:971:THR:CG2	2.30	0.62
1:C:1271:ILE:O	1:C:1275:SER:HB3	2.00	0.62
2:D:510:ILE:HG23	2:D:514:LEU:HD12	1.81	0.62
2:D:563:MET:CG	2:D:780:LEU:HD23	2.25	0.62
1:A:238:ILE:HD12	1:A:347:TYR:CE1	2.33	0.62
1:A:495:LYS:HA	1:A:495:LYS:HE2	1.80	0.62
2:B:1446:PHE:HB3	2:B:1448:VAL:HG22	1.81	0.62
1:C:512:PHE:CE2	3:Y:148:ALA:HB3	2.35	0.62
1:C:1142:LEU:HD13	1:C:1187:THR:HG21	1.82	0.62
1:C:1585:TYR:CD2	1:C:1586:LYS:N	2.67	0.62
2:D:69:PHE:CD2	2:D:70:GLN:N	2.68	0.62
2:D:162:ILE:HG21	2:D:202:LYS:HG2	1.82	0.62
2:D:221:LEU:CD1	2:D:753:LYS:HG2	2.29	0.62
2:D:355:LYS:N	2:D:355:LYS:HD2	2.14	0.62
2:D:923:SER:O	2:D:924:ILE:HD12	2.00	0.62
2:D:1532:GLU:O	2:D:1539:ILE:HD12	1.99	0.62
3:Y:179:LEU:HG	3:Y:180:TYR:CD2	2.35	0.62
1:A:104:LEU:HD12	1:A:105:GLU:N	2.15	0.62
1:A:161:LEU:HD11	1:A:185:PHE:CE1	2.35	0.62
1:A:1226:ARG:CZ	1:A:1266:TYR:HE1	2.13	0.62
2:B:148:PHE:CB	2:B:800:ILE:HD11	2.30	0.62
2:B:922:LYS:HE3	2:B:1329:TYR:CZ	2.34	0.62
2:B:1562:GLN:NE2	2:B:1596:LYS:NZ	2.48	0.62
1:C:125:PHE:CE1	1:C:627:LEU:HD21	2.34	0.62
1:C:442:LEU:HD23	1:C:443:PRO:CD	2.29	0.62
1:C:936:ARG:NH2	1:C:1284:PHE:HE1	1.98	0.62
1:C:976:ILE:HB	1:C:1362:THR:HG22	1.82	0.62
1:C:1333:PHE:CD1	1:C:1334:LEU:HD13	2.34	0.62
2:D:534:ASP:HA	2:D:620:VAL:HG21	1.82	0.62
1:A:317:ASP:C	1:A:319:ASN:H	2.03	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:LEU:HD13	1:A:415:ASP:C	2.19	0.62
1:A:488:PRO:HG3	1:A:499:TYR:OH	2.00	0.62
1:A:1493:PHE:CD1	1:A:1493:PHE:C	2.73	0.62
1:A:1646:GLU:OE2	1:A:1660:PHE:CZ	2.53	0.62
2:B:344:GLN:HB2	2:B:367:THR:O	2.00	0.62
2:B:829:GLN:HA	2:B:885:VAL:HG12	1.81	0.62
2:B:1431:SER:HB3	2:B:1433:SER:H	1.64	0.62
2:B:1523:VAL:HG22	2:B:1584:TRP:HB2	1.81	0.62
1:C:690:TYR:CE1	1:C:692:HIS:HA	2.34	0.62
2:D:873:LYS:HD2	2:D:873:LYS:N	2.15	0.62
2:D:928:VAL:HG23	2:D:1323:MET:HB3	1.82	0.62
3:X:47:HIS:CE1	3:X:181:LYS:HE2	2.35	0.62
1:A:442:LEU:HD23	1:A:443:PRO:CD	2.30	0.61
1:A:585:GLY:O	1:A:789:ALA:HB1	2.00	0.61
1:A:779:LEU:HD12	1:A:780:VAL:N	2.15	0.61
1:A:1102:ASN:HD21	1:C:1162:VAL:H	1.44	0.61
1:A:1648:TRP:NE1	1:A:1664:LEU:HD21	2.15	0.61
2:B:1562:GLN:HB2	2:B:1598:SER:HB3	1.82	0.61
1:C:161:LEU:HD11	1:C:185:PHE:CD1	2.35	0.61
1:C:705:VAL:HA	1:C:739:ARG:CZ	2.30	0.61
1:C:849:ARG:HH11	1:C:849:ARG:CG	2.11	0.61
2:D:34:ARG:HD2	2:D:488:LYS:NZ	2.15	0.61
2:D:380:VAL:CG1	2:D:387:MET:HB3	2.17	0.61
3:X:53:GLU:HB3	3:X:55:PHE:CE2	2.35	0.61
1:A:596:MET:N	1:A:782:ARG:HH11	1.90	0.61
1:A:1076:THR:HG22	1:A:1120:GLU:CD	2.20	0.61
2:B:416:ASN:HA	2:B:425:GLN:NE2	2.14	0.61
2:B:543:THR:OG1	2:B:544:CYS:N	2.31	0.61
1:C:513:GLY:HA2	3:Y:146:LEU:HD13	1.82	0.61
1:C:796:THR:HG23	1:C:818:LYS:CB	2.30	0.61
1:C:1211:ALA:HA	1:C:1214:ARG:HH11	1.65	0.61
1:C:1381:ILE:O	1:C:1382:ASP:HB3	2.00	0.61
2:D:161:VAL:HG21	2:D:180:LEU:CD2	2.28	0.61
2:D:219:TYR:CD1	2:D:220:VAL:N	2.69	0.61
2:D:620:VAL:HG12	2:D:621:PHE:CD2	2.34	0.61
2:D:1380:THR:HG22	2:D:1381:ILE:H	1.64	0.61
2:D:1610:TRP:CE3	2:D:1628:PHE:CD2	2.87	0.61
3:X:58:SER:HB2	3:X:125:LYS:HE3	1.82	0.61
1:A:393:GLN:HG2	1:A:403:ASP:OD1	2.00	0.61
1:A:576:SER:HB2	1:A:589:SER:CB	2.27	0.61
1:A:653:PHE:CE1	1:A:660:ASP:HB3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1219:LYS:HZ3	1:A:1239:VAL:HG11	1.61	0.61
1:A:1504:GLN:HG3	1:A:1505:CYS:CA	2.30	0.61
2:B:120:LEU:HD12	2:B:121:LEU:N	2.11	0.61
2:B:137:TYR:CE2	2:B:143:VAL:HG22	2.35	0.61
2:B:162:ILE:HG21	2:B:202:LYS:HG2	1.81	0.61
1:C:23:TYR:CE1	1:C:655:THR:HB	2.35	0.61
1:C:586:GLN:HG3	1:C:586:GLN:O	2.00	0.61
1:C:641:ASN:O	1:C:643:ALA:N	2.33	0.61
1:C:1053:MET:SD	1:C:1089:VAL:HG21	2.40	0.61
2:D:69:PHE:CD1	2:D:87:ILE:HG22	2.36	0.61
2:D:1347:VAL:HG21	2:D:1456:VAL:HG11	1.81	0.61
2:D:1511:GLN:HG2	2:D:1631:PHE:CE1	2.35	0.61
3:Y:166:ASP:CB	3:Y:207:LEU:HD21	2.30	0.61
1:A:44:TYR:CE1	1:A:497:THR:HG21	2.35	0.61
1:A:270:GLY:HA3	1:A:282:MET:HG2	1.83	0.61
1:A:824:PHE:CE2	1:A:846:TYR:HD1	2.19	0.61
1:A:855:PHE:HA	2:B:904:LEU:CD1	2.28	0.61
1:A:1365:VAL:CG2	1:A:1366:HIS:N	2.60	0.61
2:B:242:ASN:OD1	2:B:295:LYS:HD2	1.99	0.61
2:B:1623:LYS:HA	2:B:1623:LYS:CE	2.30	0.61
2:B:1623:LYS:HA	2:B:1623:LYS:NZ	2.15	0.61
1:C:927:LEU:HD23	1:C:928:ARG:N	2.16	0.61
1:C:955:ARG:NH1	1:C:1352:PHE:HA	2.15	0.61
2:D:342:PRO:HG2	2:D:420:LEU:HD13	1.81	0.61
2:D:410:PRO:HA	2:D:431:THR:HG22	1.83	0.61
1:A:868:SER:CA	1:A:1527:CYS:HB2	2.28	0.61
1:A:1641:SER:C	1:A:1643:THR:H	2.02	0.61
2:B:128:LEU:O	2:B:129:PHE:CD1	2.53	0.61
2:B:237:ILE:O	2:B:306:LEU:HD11	1.99	0.61
2:B:1344:HIS:O	2:B:1369:THR:HA	2.01	0.61
1:C:149:ASN:H	1:C:149:ASN:ND2	1.97	0.61
1:C:177:ILE:HG22	1:C:178:ASP:H	1.66	0.61
1:C:317:ASP:C	1:C:319:ASN:H	2.03	0.61
2:D:964:ILE:O	2:D:964:ILE:HG22	2.00	0.61
2:D:1344:HIS:O	2:D:1369:THR:HA	2.01	0.61
3:Y:73:VAL:HG22	3:Y:84:LEU:HB3	1.80	0.61
3:Y:139:ASN:HD22	3:Y:148:ALA:CB	2.12	0.61
3:Y:139:ASN:HD22	3:Y:148:ALA:HB1	1.66	0.61
1:A:871:PRO:HD2	1:A:872:VAL:N	2.15	0.61
1:A:1147:PHE:O	1:A:1150:ILE:HB	2.01	0.61
1:A:1163:LYS:NZ	1:C:1109:GLU:CD	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:20:GLU:O	1:C:20:GLU:CD	2.39	0.61
1:C:481:HIS:HE1	1:C:529:PRO:HB3	1.64	0.61
1:C:742:ILE:HG21	1:C:753:HIS:HA	1.83	0.61
1:C:837:GLU:O	1:C:901:LEU:HD12	2.00	0.61
1:C:1188:LEU:HD23	1:C:1212:LEU:HD13	1.83	0.61
2:D:581:ASP:O	2:D:582:LYS:C	2.39	0.61
1:A:161:LEU:HD11	1:A:185:PHE:CG	2.36	0.61
1:A:260:VAL:HG12	1:A:261:THR:N	2.15	0.61
1:A:267:ILE:HD12	1:A:299:VAL:HG11	1.83	0.61
1:A:493:ILE:HG23	1:A:495:LYS:HB2	1.82	0.61
1:A:1033:ILE:HG23	1:A:1034:PHE:N	2.14	0.61
2:B:103:TYR:CD2	2:B:120:LEU:HD13	2.35	0.61
2:B:384:PHE:O	2:B:385:HIS:C	2.38	0.61
2:B:484:LEU:HD11	2:B:626:LEU:HD11	1.83	0.61
2:B:1583:ILE:HG12	2:B:1607:ILE:CG2	2.30	0.61
1:C:44:TYR:CE1	1:C:497:THR:HG21	2.35	0.61
1:C:653:PHE:CE1	1:C:660:ASP:HB3	2.35	0.61
2:D:384:PHE:HD1	2:D:400:LEU:HG	1.60	0.61
2:D:1506:ILE:O	2:D:1508:VAL:N	2.34	0.61
3:X:191:ILE:HD12	3:X:199:VAL:HB	1.82	0.61
1:A:24:VAL:HG11	1:A:543:TYR:CE2	2.35	0.61
1:A:1049:LEU:HD11	1:A:1089:VAL:CG1	2.30	0.61
2:B:219:TYR:CD1	2:B:220:VAL:N	2.69	0.61
1:C:60:PRO:CD	1:C:61:ASP:N	2.56	0.61
1:C:153:LYS:HB3	1:C:154:PRO:HD2	1.83	0.61
1:C:489:LYS:CG	1:C:490:SER:H	2.13	0.61
1:C:1582:LEU:HD11	1:C:1648:TRP:HZ2	1.66	0.61
2:D:34:ARG:HD2	2:D:488:LYS:HZ3	1.66	0.61
3:Y:50:TYR:CE2	3:Y:170:ARG:CD	2.81	0.61
1:A:59:TYR:CD1	1:A:60:PRO:HD3	2.36	0.61
1:A:428:VAL:HG22	1:A:429:THR:H	1.65	0.61
2:B:599:TRP:CZ3	2:B:602:ILE:HD12	2.36	0.61
2:B:1610:TRP:CD2	2:B:1628:PHE:HD2	2.19	0.61
1:C:1612:VAL:HB	1:C:1615:ARG:CB	2.26	0.61
2:D:416:ASN:HA	2:D:425:GLN:NE2	2.15	0.61
3:Y:191:ILE:HD12	3:Y:199:VAL:HB	1.83	0.61
1:A:824:PHE:CE2	1:A:846:TYR:HB2	2.36	0.61
1:A:1620:MET:HB2	1:A:1644:TRP:HB3	1.83	0.61
1:A:1667:PHE:O	1:A:1671:ILE:HG22	2.01	0.61
2:B:244:HIS:HB3	2:B:291:LYS:CD	2.29	0.61
2:B:433:ILE:HG22	2:B:434:ALA:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1447:GLU:HG3	2:B:1447:GLU:O	2.00	0.61
2:B:1544:VAL:HB	2:B:1557:ARG:HA	1.82	0.61
1:C:40:VAL:CG2	1:C:512:PHE:HD1	2.14	0.61
1:C:1147:PHE:O	1:C:1150:ILE:HB	2.00	0.61
2:D:841:ASN:O	2:D:842:GLU:C	2.40	0.61
2:D:1500:LEU:HD11	2:D:1608:GLU:O	2.01	0.61
1:A:119:ILE:HD12	1:A:119:ILE:O	2.01	0.60
1:A:658:ASN:C	1:A:658:ASN:OD1	2.40	0.60
1:A:1535:MET:HA	1:A:1645:ILE:HB	1.83	0.60
2:B:342:PRO:HG2	2:B:420:LEU:HD13	1.83	0.60
2:B:1561:HIS:CE1	2:B:1597:ILE:HD13	2.35	0.60
1:C:502:LEU:HB2	1:C:541:LEU:HD23	1.83	0.60
1:C:822:ASP:HA	1:C:849:ARG:HD2	1.83	0.60
1:C:824:PHE:CE2	1:C:846:TYR:HD1	2.19	0.60
1:C:1268:ASN:H	1:C:1268:ASN:ND2	1.98	0.60
2:D:829:GLN:NE2	2:D:883:VAL:HG13	2.10	0.60
2:D:1391:LEU:HB2	2:D:1417:MET:HE2	1.83	0.60
1:A:177:ILE:HG22	1:A:178:ASP:H	1.65	0.60
1:A:532:GLN:NE2	1:A:568:GLY:HA2	2.16	0.60
1:A:1003:LEU:HD23	1:A:1003:LEU:N	2.16	0.60
1:A:1268:ASN:H	1:A:1268:ASN:ND2	1.99	0.60
1:A:1627:ILE:O	1:A:1629:TYR:N	2.34	0.60
2:B:167:THR:HG23	2:B:171:ILE:H	1.65	0.60
1:C:256:TYR:HD2	1:C:846:TYR:CE1	2.19	0.60
1:C:873:ILE:HD12	1:C:873:ILE:O	2.01	0.60
1:C:1054:LEU:HD23	1:C:1057:MET:HE2	1.83	0.60
1:C:1232:LEU:CD1	1:C:1233:GLN:HE21	2.09	0.60
2:D:133:ASP:OD2	2:D:134:LYS:HG2	2.01	0.60
2:D:581:ASP:O	2:D:583:ALA:N	2.34	0.60
2:D:814:PHE:HZ	2:D:846:VAL:HG21	1.66	0.60
2:D:1610:TRP:CD2	2:D:1628:PHE:HD2	2.18	0.60
3:X:170:ARG:NH2	3:X:206:LYS:HA	2.16	0.60
1:A:987:ILE:CD1	1:A:1294:ILE:HG23	2.31	0.60
1:A:1211:ALA:HA	1:A:1214:ARG:HH11	1.66	0.60
1:A:1323:LEU:HD12	1:A:1324:HIS:N	2.16	0.60
1:A:1427:SER:HB3	1:A:1492:THR:HG23	1.81	0.60
2:B:841:ASN:O	2:B:842:GLU:C	2.38	0.60
2:B:844:ILE:CD1	2:B:872:ILE:HD11	2.32	0.60
1:C:43:VAL:HG11	1:C:73:LEU:CD1	2.31	0.60
1:C:171:VAL:HG11	1:C:1054:LEU:HD11	1.82	0.60
1:C:243:PHE:HE2	1:C:304:GLU:HA	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:322:TYR:CD2	1:C:322:TYR:N	2.68	0.60
1:C:457:TYR:HE1	1:C:556:SER:O	1.85	0.60
2:D:242:ASN:OD1	2:D:295:LYS:HD2	2.00	0.60
1:A:443:PRO:HG2	1:A:446:ASN:OD1	2.01	0.60
1:A:500:ASN:CB	1:A:543:TYR:CE1	2.61	0.60
1:A:693:SER:C	1:A:695:VAL:H	2.05	0.60
1:A:1042:LYS:NZ	1:C:92:LEU:HD13	2.17	0.60
2:B:269:ILE:HA	2:B:312:HIS:CD2	2.36	0.60
2:B:756:LEU:HD12	2:B:758:LEU:HG	1.84	0.60
1:C:196:TYR:CE1	1:C:221:GLU:HB2	2.37	0.60
1:C:351:PRO:HG2	1:C:352:TYR:CE2	2.35	0.60
1:C:1487:PHE:O	1:C:1488:LEU:C	2.40	0.60
1:C:1549:LYS:HZ2	1:C:1667:PHE:HB3	1.66	0.60
2:D:196:THR:HG23	2:D:215:ASP:OD1	2.01	0.60
2:D:916:VAL:HG22	2:D:917:PRO:O	2.02	0.60
3:X:88:GLY:HA2	3:X:210:GLU:O	2.01	0.60
1:A:161:LEU:H	1:A:161:LEU:HD12	1.65	0.60
1:A:1585:TYR:HE1	1:A:1671:ILE:HG12	1.66	0.60
2:B:435:TYR:OH	2:B:532:VAL:HG22	2.00	0.60
2:B:738:GLY:O	2:B:901:GLN:HA	2.02	0.60
2:B:1381:ILE:HG21	2:B:1459:TYR:CE1	2.35	0.60
2:B:1473:HIS:CD2	2:B:1474:PRO:CD	2.84	0.60
1:C:209:PHE:H	1:C:209:PHE:HD2	1.48	0.60
1:C:531:THR:O	1:C:534:MET:HG3	2.01	0.60
1:C:1646:GLU:OE2	1:C:1660:PHE:CZ	2.54	0.60
2:D:484:LEU:HD11	2:D:626:LEU:HD11	1.84	0.60
2:D:933:ARG:HG3	2:D:933:ARG:NH1	2.14	0.60
1:A:238:ILE:HB	1:A:347:TYR:HD1	1.67	0.60
1:A:503:ILE:HD11	1:A:540:LEU:HD13	1.83	0.60
1:A:670:LYS:HD2	1:A:671:GLU:HG2	1.84	0.60
1:A:1213:LYS:HE2	1:A:1266:TYR:CE2	2.37	0.60
1:A:1548:ARG:H	1:A:1548:ARG:HD3	1.66	0.60
1:A:1564:SER:HB2	1:A:1616:GLN:HG3	1.82	0.60
2:B:127:PHE:CE2	2:B:602:ILE:HG23	2.37	0.60
2:B:556:ILE:HD12	2:B:556:ILE:H	1.65	0.60
1:C:702:GLY:CA	1:C:728:PHE:CD1	2.84	0.60
2:D:120:LEU:HD12	2:D:121:LEU:N	2.13	0.60
2:D:233:LYS:HG3	2:D:233:LYS:O	2.01	0.60
1:A:101:TYR:CE1	1:A:116:ARG:NH2	2.70	0.60
1:A:690:TYR:CE1	1:A:692:HIS:HA	2.36	0.60
2:B:61:PHE:HB3	2:B:103:TYR:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:963:ILE:HD11	2:B:1311:ILE:HG21	1.84	0.60
1:C:199:TRP:CD1	1:C:219:VAL:HB	2.37	0.60
1:C:209:PHE:N	1:C:209:PHE:CD2	2.68	0.60
1:C:931:PRO:HG2	1:C:1366:HIS:NE2	2.16	0.60
2:D:137:TYR:CE2	2:D:143:VAL:HG22	2.36	0.60
2:D:1561:HIS:CE1	2:D:1597:ILE:HD13	2.37	0.60
1:A:436:LYS:HA	1:A:448:ALA:O	2.01	0.60
1:A:1053:MET:SD	1:A:1089:VAL:HG21	2.42	0.60
1:A:1128:LYS:C	1:A:1129:LEU:HD23	2.22	0.60
2:B:133:ASP:OD2	2:B:134:LYS:HG2	2.01	0.60
2:B:294:LEU:HD12	2:B:295:LYS:N	2.16	0.60
1:C:25:ILE:CD1	1:C:41:ILE:HB	2.31	0.60
1:C:115:LYS:CB	1:C:654:LEU:HD21	2.32	0.60
1:C:174:VAL:HG22	1:C:175:GLU:N	2.15	0.60
1:C:820:PHE:O	1:C:821:LYS:HG3	2.00	0.60
1:C:824:PHE:HE2	1:C:846:TYR:HB2	1.65	0.60
1:C:1226:ARG:CZ	1:C:1266:TYR:CE1	2.85	0.60
1:C:1259:LEU:HD11	1:C:1300:TYR:HB2	1.84	0.60
2:D:1510:LEU:HD21	2:D:1514:LYS:NZ	2.15	0.60
1:A:209:PHE:N	1:A:209:PHE:CD2	2.70	0.60
1:A:931:PRO:HG2	1:A:1366:HIS:NE2	2.17	0.60
2:B:96:THR:HG21	2:B:102:GLN:OE1	2.02	0.60
2:B:1380:THR:HG22	2:B:1381:ILE:H	1.67	0.60
1:C:154:PRO:O	1:C:155:ALA:CB	2.50	0.60
1:C:165:ASP:O	1:C:167:GLU:N	2.35	0.60
1:C:1239:VAL:HG12	1:C:1239:VAL:O	2.02	0.60
1:A:55:SER:O	1:A:56:ILE:HD13	2.01	0.60
1:A:474:LYS:H	1:A:474:LYS:CD	2.15	0.60
1:A:705:VAL:HA	1:A:739:ARG:CZ	2.31	0.60
1:A:1231:ASN:HB2	1:A:1235:LYS:HG3	1.83	0.60
1:A:1341:LEU:HB2	1:A:1342:LEU:CD2	2.31	0.60
1:A:1671:ILE:HA	1:A:1675:GLY:H	1.66	0.60
2:B:197:TRP:HB2	2:B:214:PHE:CE1	2.36	0.60
2:B:296:ARG:HH11	2:B:296:ARG:HG3	1.66	0.60
2:B:510:ILE:HG23	2:B:514:LEU:HD12	1.84	0.60
2:B:557:GLN:HE21	2:B:563:MET:CE	2.14	0.60
1:C:443:PRO:HG2	1:C:446:ASN:OD1	2.02	0.60
1:C:569:ASN:ND2	1:C:570:GLN:H	2.00	0.60
1:C:1150:ILE:CD1	1:C:1193:TYR:CD2	2.85	0.60
1:C:1608:ASN:O	1:C:1610:GLU:N	2.35	0.60
1:A:25:ILE:HB	1:A:655:THR:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:PHE:HE1	1:A:640:LEU:HB2	1.67	0.59
1:A:429:THR:HA	1:A:456:ALA:HB2	1.84	0.59
1:A:443:PRO:HG2	1:A:446:ASN:HB2	1.84	0.59
1:A:457:TYR:OH	1:A:555:VAL:HG22	2.02	0.59
1:A:551:THR:O	1:A:552:ALA:HB2	2.00	0.59
1:A:824:PHE:HD2	1:A:824:PHE:N	1.99	0.59
2:B:523:TYR:HB3	2:B:533:ALA:HB2	1.83	0.59
1:C:342:ILE:HD12	1:C:345:ILE:HD11	1.84	0.59
1:C:1329:THR:H	1:C:1332:ASN:HB2	1.67	0.59
1:C:1560:ALA:HB2	1:C:1620:MET:CG	2.25	0.59
1:C:1585:TYR:CG	1:C:1586:LYS:N	2.69	0.59
2:D:476:ILE:CG2	2:D:476:ILE:O	2.50	0.59
2:D:476:ILE:HD11	2:D:524:TYR:CG	2.36	0.59
1:A:25:ILE:N	1:A:655:THR:HG21	2.12	0.59
1:A:504:LEU:HD12	1:A:509:ILE:HG23	1.85	0.59
1:A:612:VAL:O	1:A:612:VAL:HG12	2.01	0.59
1:A:1056:ILE:CD1	1:A:1066:TYR:HE2	2.15	0.59
2:B:508:LEU:HD12	2:B:509:HIS:N	2.16	0.59
2:B:531:ILE:HD11	2:B:634:LEU:HD23	1.84	0.59
1:C:967:LEU:HD12	1:C:968:VAL:H	1.66	0.59
1:C:1152:ILE:HG22	1:C:1168:LEU:HD21	1.82	0.59
2:D:261:ALA:CB	2:D:285:ILE:HD11	2.32	0.59
2:D:1486:ILE:HD11	2:D:1591:LEU:HD22	1.85	0.59
3:X:68:ASN:CG	3:X:69:GLY:N	2.55	0.59
3:X:179:LEU:HG	3:X:180:TYR:CD2	2.36	0.59
3:Y:68:ASN:CG	3:Y:69:GLY:N	2.55	0.59
3:Y:101:GLN:HA	3:Y:125:LYS:HB3	1.84	0.59
1:A:199:TRP:CD1	1:A:219:VAL:HB	2.37	0.59
1:A:209:PHE:H	1:A:209:PHE:HD2	1.50	0.59
1:A:222:TYR:CD2	1:A:223:VAL:N	2.69	0.59
1:A:838:GLN:HA	1:A:901:LEU:CB	2.29	0.59
1:A:949:ILE:HG22	1:A:950:TYR:CE1	2.37	0.59
1:A:1113:LEU:CD2	1:A:1114:ASP:H	2.15	0.59
1:A:1381:ILE:O	1:A:1382:ASP:HB3	2.02	0.59
1:A:1559:TYR:HH	1:A:1591:VAL:HA	1.66	0.59
1:A:1612:VAL:HB	1:A:1615:ARG:CB	2.26	0.59
2:B:69:PHE:CD1	2:B:87:ILE:HG22	2.37	0.59
2:B:829:GLN:NE2	2:B:883:VAL:HG13	2.13	0.59
1:C:493:ILE:HG23	1:C:495:LYS:HB2	1.85	0.59
1:C:1320:LYS:CE	1:C:1321:GLY:H	2.15	0.59
1:A:623:VAL:HG12	1:A:624:PHE:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:309:LEU:HB3	2:B:338:ILE:HD12	1.84	0.59
2:B:1424:ILE:H	2:B:1424:ILE:CD1	2.14	0.59
1:C:979:VAL:HG21	1:C:1326:TYR:CZ	2.35	0.59
1:C:1618:LEU:HD22	1:C:1619:ILE:N	2.16	0.59
2:D:783:SER:HB2	2:D:787:TRP:HZ2	1.67	0.59
1:A:115:LYS:HB2	1:A:654:LEU:HD21	1.85	0.59
1:A:874:ASP:HA	1:A:878:THR:O	2.03	0.59
1:A:1011:GLU:O	1:A:1014:SER:HB3	2.02	0.59
1:A:1487:PHE:CD2	1:A:1487:PHE:N	2.68	0.59
1:A:1493:PHE:HD1	1:A:1493:PHE:C	2.06	0.59
2:B:813:VAL:HG12	2:B:840:VAL:HG22	1.85	0.59
1:C:515:ARG:NH1	1:C:526:ILE:HG22	2.16	0.59
1:C:1152:ILE:HG21	1:C:1168:LEU:CD2	2.31	0.59
1:C:1615:ARG:NH1	1:C:1647:TYR:CE1	2.70	0.59
1:A:356:LEU:HG	1:A:452:TYR:CZ	2.38	0.59
1:A:503:ILE:CB	1:A:511:HIS:HB2	2.33	0.59
1:A:1329:THR:H	1:A:1332:ASN:HB2	1.68	0.59
2:B:148:PHE:HB3	2:B:800:ILE:HD11	1.83	0.59
2:B:241:GLU:O	2:B:296:ARG:HD3	2.02	0.59
2:B:525:GLN:HA	2:B:530:GLU:O	2.03	0.59
1:C:987:ILE:CD1	1:C:1294:ILE:HG23	2.33	0.59
1:C:1487:PHE:N	1:C:1487:PHE:CD2	2.70	0.59
2:D:61:PHE:HB3	2:D:103:TYR:HB2	1.83	0.59
2:D:243:PHE:HE1	2:D:336:ILE:HG21	1.67	0.59
2:D:738:GLY:O	2:D:901:GLN:HA	2.03	0.59
2:D:1473:HIS:CD2	2:D:1474:PRO:CD	2.79	0.59
1:A:361:LEU:HD12	1:A:361:LEU:N	2.16	0.59
1:A:936:ARG:NH2	1:A:1284:PHE:CE1	2.71	0.59
1:A:1066:TYR:N	1:A:1079:THR:HG23	2.16	0.59
1:A:1219:LYS:HE2	1:A:1239:VAL:HG21	1.85	0.59
2:B:26:THR:OG1	2:B:44:GLU:HB2	2.02	0.59
2:B:71:THR:HG23	2:B:72:ARG:N	2.18	0.59
2:B:130:ILE:HD13	2:B:199:ILE:HG22	1.83	0.59
2:B:1609:ARG:HG2	2:B:1609:ARG:HH11	1.68	0.59
1:C:569:ASN:CG	1:C:570:GLN:H	2.06	0.59
1:C:680:GLN:HG3	1:C:681:LYS:N	2.17	0.59
2:D:745:ILE:HD11	2:D:907:ASP:H	1.66	0.59
3:X:106:VAL:HG22	3:X:163:LYS:CE	2.32	0.59
1:A:24:VAL:HG11	1:A:543:TYR:OH	2.01	0.59
1:A:491:PRO:C	1:A:493:ILE:N	2.51	0.59
1:A:702:GLY:CA	1:A:728:PHE:CD1	2.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:752:LEU:O	1:A:752:LEU:HG	2.02	0.59
1:A:774:LEU:HG	1:A:788:PHE:CE1	2.38	0.59
1:A:790:LEU:HB3	1:A:791:PRO:CD	2.32	0.59
1:A:813:ASP:O	1:A:815:VAL:HG23	2.03	0.59
2:B:316:ALA:HB3	2:B:333:GLN:HB3	1.85	0.59
2:B:746:ILE:H	2:B:746:ILE:HD13	1.68	0.59
1:C:355:ASN:HD22	1:C:355:ASN:N	2.01	0.59
1:C:474:LYS:H	1:C:474:LYS:CD	2.15	0.59
1:C:617:LYS:HD2	1:C:622:ARG:NH2	2.17	0.59
1:C:1013:MET:CE	1:C:1287:THR:HB	2.32	0.59
1:C:1450:PHE:HZ	1:C:1475:VAL:HB	1.66	0.59
2:D:922:LYS:HE3	2:D:1329:TYR:CZ	2.38	0.59
2:D:1505:ARG:NE	2:D:1623:LYS:HZ2	2.01	0.59
1:A:78:LYS:HZ1	3:X:144:GLU:HA	1.65	0.59
1:A:505:SER:HB3	1:A:510:ILE:CD1	2.32	0.59
1:A:720:LEU:HD13	1:A:724:CYS:HB3	1.83	0.59
1:A:855:PHE:CA	2:B:904:LEU:HD11	2.31	0.59
2:B:961:THR:HG22	2:B:1327:THR:CG2	2.32	0.59
1:A:257:ASN:HB2	1:A:848:TYR:CE2	2.37	0.59
1:A:825:LEU:HG	1:A:826:GLU:N	2.18	0.59
1:A:1159:CYS:N	1:A:1160:PRO:CD	2.66	0.59
1:A:1352:PHE:N	1:A:1352:PHE:HD2	2.01	0.59
1:A:1493:PHE:HE1	1:A:1495:VAL:HG12	1.67	0.59
1:C:182:ILE:HG12	1:C:804:ILE:CD1	2.25	0.59
1:C:1402:ILE:HG13	1:C:1479:ILE:HD11	1.84	0.59
2:D:103:TYR:CD2	2:D:120:LEU:HD13	2.37	0.59
2:D:309:LEU:HB3	2:D:338:ILE:HD12	1.85	0.59
2:D:476:ILE:CG2	2:D:497:ARG:HD3	2.33	0.59
1:A:84:ILE:H	1:A:84:ILE:HD12	1.68	0.58
1:A:322:TYR:CD2	1:A:322:TYR:N	2.70	0.58
1:A:544:TYR:C	1:A:544:TYR:CD2	2.76	0.58
1:A:644:ASN:CG	1:A:648:LEU:HD12	2.23	0.58
1:A:865:ILE:C	1:A:866:CYS:O	2.41	0.58
1:A:883:CYS:O	1:A:884:VAL:O	2.21	0.58
1:A:944:LEU:N	1:A:944:LEU:HD23	2.18	0.58
1:A:955:ARG:HH12	1:A:1352:PHE:HA	1.66	0.58
2:B:820:MET:HG3	2:B:821:PRO:HD2	1.85	0.58
1:C:154:PRO:O	1:C:155:ALA:HB3	2.03	0.58
1:C:267:ILE:HG22	1:C:268:THR:N	2.18	0.58
1:C:975:ARG:NH1	1:C:1340:VAL:HG11	2.18	0.58
1:C:1076:THR:HG22	1:C:1120:GLU:CD	2.23	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1451:THR:O	1:C:1452:ASP:HB3	2.03	0.58
2:D:69:PHE:CD2	2:D:69:PHE:C	2.76	0.58
2:D:546:GLY:HA3	2:D:570:ASP:OD1	2.02	0.58
4:E:1:NAG:C3	4:E:2:NAG:O5	2.51	0.58
1:A:863:GLU:H	1:A:863:GLU:CD	2.07	0.58
1:A:1065:SER:HB3	1:A:1106:TRP:CD2	2.38	0.58
2:B:476:ILE:HD11	2:B:524:TYR:CD2	2.37	0.58
2:B:481:TYR:CE2	2:B:493:GLY:CA	2.86	0.58
1:C:172:ASP:OD2	1:C:1050:LYS:HD3	2.02	0.58
1:C:838:GLN:HA	1:C:901:LEU:CB	2.28	0.58
1:C:1110:ASN:N	1:C:1110:ASN:OD1	2.36	0.58
1:C:1229:LYS:NZ	1:C:1238:SER:OG	2.34	0.58
1:C:1451:THR:O	1:C:1452:ASP:CB	2.51	0.58
1:C:1562:LYS:HD3	1:C:1648:TRP:HE1	1.68	0.58
1:A:126:LEU:HD11	1:A:205:TYR:CE2	2.39	0.58
1:A:171:VAL:CG1	1:A:172:ASP:N	2.67	0.58
1:A:512:PHE:CD2	1:A:512:PHE:O	2.56	0.58
1:A:680:GLN:HG3	1:A:681:LYS:N	2.19	0.58
1:A:702:GLY:O	1:A:732:CYS:HB2	2.03	0.58
1:A:824:PHE:N	1:A:824:PHE:CD2	2.70	0.58
2:B:243:PHE:HE1	2:B:336:ILE:HG21	1.67	0.58
2:B:1532:GLU:O	2:B:1539:ILE:HD12	2.04	0.58
1:C:356:LEU:HG	1:C:452:TYR:CZ	2.38	0.58
1:C:623:VAL:HG12	1:C:624:PHE:N	2.18	0.58
1:C:1076:THR:HG22	1:C:1120:GLU:OE2	2.02	0.58
1:C:1219:LYS:CD	1:C:1239:VAL:HG21	2.33	0.58
2:D:137:TYR:CE1	2:D:143:VAL:HG22	2.37	0.58
2:D:265:PHE:CE2	2:D:294:LEU:HB2	2.38	0.58
2:D:606:ASP:OD1	2:D:606:ASP:O	2.21	0.58
3:X:166:ASP:CB	3:X:207:LEU:HD21	2.32	0.58
1:A:25:ILE:CD1	1:A:41:ILE:HB	2.33	0.58
1:A:950:TYR:CE2	1:A:1356:LEU:HD11	2.38	0.58
1:A:1572:ASN:O	1:A:1573:VAL:HG23	2.04	0.58
2:B:45:ALA:HB3	2:B:81:MET:HE3	1.85	0.58
2:B:183:PHE:CD2	2:B:183:PHE:N	2.70	0.58
2:B:1563:TYR:HB3	2:B:1601:ILE:HD11	1.86	0.58
2:B:1593:THR:CG2	2:B:1594:LYS:N	2.67	0.58
1:C:362:PHE:HE1	1:C:640:LEU:HB2	1.66	0.58
1:C:813:ASP:O	1:C:815:VAL:HG23	2.02	0.58
2:D:344:GLN:HB2	2:D:367:THR:O	2.03	0.58
2:D:829:GLN:HG2	2:D:885:VAL:CG1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:VAL:C	1:A:135:TYR:HD2	2.07	0.58
1:A:412:ARG:HD2	2:B:458:ASP:OD1	2.03	0.58
1:A:504:LEU:HD23	1:A:649:ALA:O	2.03	0.58
1:A:1011:GLU:HG3	1:A:1055:SER:OG	2.03	0.58
2:B:1391:LEU:HD12	2:B:1417:MET:HE1	1.84	0.58
1:C:938:SER:OG	1:C:1284:PHE:CZ	2.57	0.58
1:C:1240:PRO:HB2	1:C:1242:THR:HG23	1.84	0.58
2:D:887:LEU:CD2	2:D:1490:CYS:HB3	2.34	0.58
1:A:421:VAL:HG11	2:B:505:THR:HG22	1.86	0.58
1:A:784:LYS:HG2	1:A:785:GLN:N	2.18	0.58
1:A:902:PRO:O	1:A:903:LEU:HD13	2.02	0.58
1:A:907:LEU:HG	1:A:908:HIS:N	2.17	0.58
1:A:1152:ILE:HG22	1:A:1168:LEU:HD21	1.83	0.58
1:A:1549:LYS:HD3	1:A:1667:PHE:HB3	1.85	0.58
2:B:28:ILE:HG12	2:B:628:LEU:HD13	1.84	0.58
2:B:61:PHE:CG	2:B:62:PRO:HA	2.38	0.58
2:B:795:THR:HG22	2:B:796:PRO:CD	2.32	0.58
2:B:851:LEU:HD23	2:B:852:TYR:N	2.10	0.58
1:C:309:GLU:HG2	1:C:310:LEU:HD12	1.86	0.58
2:D:24:LEU:HB3	2:D:46:HIS:HB2	1.84	0.58
2:D:218:LYS:HD3	2:D:822:TYR:CE2	2.39	0.58
2:D:615:GLN:HB2	2:D:616:ASN:HD22	1.68	0.58
2:D:1491:ARG:HG3	2:D:1492:CYS:H	1.67	0.58
2:D:1623:LYS:NZ	2:D:1623:LYS:HB3	2.18	0.58
3:X:119:VAL:HG21	3:X:209:PHE:HB3	1.85	0.58
1:A:534:MET:HB3	1:A:538:SER:OG	2.04	0.58
1:A:1527:CYS:O	1:A:1529:GLU:N	2.36	0.58
2:B:348:THR:HA	2:B:352:LYS:NZ	2.19	0.58
2:B:1500:LEU:CD1	2:B:1500:LEU:C	2.72	0.58
2:B:1528:LEU:HD13	2:B:1542:MET:HE2	1.84	0.58
2:B:1624:LEU:HG	2:B:1628:PHE:CE1	2.38	0.58
1:C:81:ASN:CG	1:C:82:SER:H	2.07	0.58
1:C:163:PHE:CD2	1:C:188:PHE:CD1	2.91	0.58
1:C:553:GLU:HA	1:C:658:ASN:CB	2.31	0.58
1:C:854:GLN:NE2	1:C:854:GLN:H	2.02	0.58
1:C:1019:PHE:HD2	1:C:1020:TYR:N	2.01	0.58
1:C:1065:SER:HB3	1:C:1106:TRP:CD2	2.39	0.58
1:C:1618:LEU:HD22	1:C:1619:ILE:H	1.67	0.58
1:A:132:LYS:NZ	1:A:139:GLN:HE22	2.01	0.58
1:A:639:GLY:H	1:A:645:VAL:HA	1.68	0.58
1:A:788:PHE:HD2	1:A:788:PHE:N	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1333:PHE:CD1	1:A:1334:LEU:HD13	2.39	0.58
2:B:581:ASP:O	2:B:582:LYS:C	2.42	0.58
2:B:599:TRP:HA	2:B:599:TRP:HE3	1.68	0.58
2:B:746:ILE:HD13	2:B:746:ILE:N	2.18	0.58
2:B:844:ILE:HG13	2:B:872:ILE:CG1	2.34	0.58
2:B:1278:THR:HB	2:B:1314:THR:HB	1.84	0.58
2:B:1450:PHE:HD1	2:B:1451:ILE:H	1.51	0.58
2:B:1534:GLN:HG3	2:B:1535:ASP:OD2	2.04	0.58
1:C:350:SER:OG	1:C:352:TYR:O	2.20	0.58
1:C:361:LEU:N	1:C:361:LEU:HD12	2.18	0.58
1:C:364:LYS:HE3	1:C:457:TYR:HD1	1.68	0.58
1:C:368:PRO:HG3	2:D:505:THR:HB	1.85	0.58
1:C:484:ILE:CD1	1:C:540:LEU:HD21	2.33	0.58
1:C:936:ARG:HH12	1:C:1284:PHE:HZ	1.50	0.58
1:C:967:LEU:HD13	1:C:1365:VAL:CG2	2.34	0.58
1:C:1411:SER:N	1:C:1414:GLU:HG3	2.19	0.58
2:D:71:THR:HG23	2:D:72:ARG:N	2.18	0.58
3:Y:106:VAL:HG22	3:Y:163:LYS:CE	2.33	0.58
1:A:342:ILE:HG22	1:A:343:PRO:HD2	1.86	0.58
1:A:350:SER:OG	1:A:352:TYR:O	2.20	0.58
1:A:1255:LEU:HD12	1:A:1255:LEU:O	2.03	0.58
1:A:1411:SER:N	1:A:1414:GLU:HG3	2.19	0.58
1:A:1493:PHE:HD1	1:A:1494:THR:H	1.48	0.58
1:A:1496:TYR:CD2	1:A:1496:TYR:N	2.71	0.58
1:A:1496:TYR:N	1:A:1496:TYR:HD2	2.02	0.58
2:B:850:LEU:HD12	2:B:851:LEU:N	2.19	0.58
2:B:1628:PHE:O	2:B:1629:ALA:C	2.41	0.58
1:C:161:LEU:HD11	1:C:185:PHE:CG	2.39	0.58
1:C:1003:LEU:N	1:C:1003:LEU:HD23	2.19	0.58
2:D:283:ILE:HD12	2:D:283:ILE:N	2.18	0.58
2:D:1528:LEU:HD13	2:D:1542:MET:HE2	1.86	0.58
1:A:824:PHE:HE2	1:A:846:TYR:HB2	1.69	0.58
1:A:927:LEU:HD23	1:A:928:ARG:N	2.19	0.58
1:A:1035:HIS:ND1	1:A:1035:HIS:N	2.52	0.58
1:A:1159:CYS:SG	1:A:1161:LEU:HD23	2.44	0.58
1:A:1408:TYR:CE2	1:A:1410:PRO:HA	2.39	0.58
1:A:1431:GLY:HA2	1:A:1483:PHE:CE1	2.39	0.58
2:B:69:PHE:CD2	2:B:70:GLN:N	2.72	0.58
2:B:239:GLY:H	2:B:296:ARG:NH2	2.02	0.58
2:B:481:TYR:O	2:B:481:TYR:CD2	2.51	0.58
1:C:655:THR:O	1:C:656:ASN:C	2.42	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:720:LEU:HD13	1:C:724:CYS:HB3	1.84	0.58
1:C:1113:LEU:HD22	1:C:1114:ASP:H	1.68	0.58
1:C:1271:ILE:HD13	1:C:1300:TYR:CZ	2.39	0.58
1:C:1536:GLN:HG3	1:C:1536:GLN:O	2.04	0.58
2:D:36:ASP:OD1	2:D:90:PRO:HA	2.04	0.58
2:D:460:LEU:O	2:D:460:LEU:HD23	2.04	0.58
2:D:825:VAL:HG22	2:D:916:VAL:HG13	1.85	0.58
2:D:844:ILE:HG13	2:D:872:ILE:CG1	2.34	0.58
1:A:265:VAL:O	1:A:289:ASN:HA	2.04	0.57
1:A:599:TRP:CD1	1:A:779:LEU:HA	2.39	0.57
1:A:1053:MET:CE	1:A:1086:LEU:HD13	2.33	0.57
1:A:1159:CYS:O	1:A:1161:LEU:N	2.37	0.57
1:A:1468:PRO:HD3	1:A:1473:LEU:HD13	1.85	0.57
1:A:1541:LEU:HD21	1:A:1543:ILE:HD12	1.86	0.57
1:A:1560:ALA:HB2	1:A:1620:MET:CG	2.27	0.57
2:B:36:ASP:OD1	2:B:90:PRO:HA	2.04	0.57
2:B:167:THR:HG22	2:B:171:ILE:O	2.03	0.57
2:B:964:ILE:O	2:B:964:ILE:CG2	2.51	0.57
1:C:23:TYR:C	1:C:655:THR:HG21	2.24	0.57
1:C:585:GLY:O	1:C:789:ALA:HB1	2.04	0.57
1:C:680:GLN:O	1:C:684:GLU:HG3	2.04	0.57
2:D:362:LEU:HD13	2:D:411:ILE:HD12	1.86	0.57
2:D:508:LEU:HD12	2:D:509:HIS:N	2.18	0.57
3:Y:110:ILE:HG22	3:Y:111:ASP:O	2.04	0.57
4:G:1:NAG:C3	4:G:2:NAG:O5	2.51	0.57
1:A:489:LYS:CG	1:A:490:SER:H	2.15	0.57
1:A:512:PHE:CE2	3:X:148:ALA:HB3	2.39	0.57
1:A:1093:VAL:O	1:A:1093:VAL:HG12	2.03	0.57
2:B:449:ILE:HD13	2:B:462:VAL:HG23	1.85	0.57
2:B:1536:GLY:O	2:B:1567:ARG:HG2	2.04	0.57
1:C:55:SER:C	1:C:56:ILE:HD13	2.23	0.57
1:C:1011:GLU:HG3	1:C:1055:SER:OG	2.04	0.57
2:D:481:TYR:HE2	2:D:493:GLY:CA	2.17	0.57
2:D:523:TYR:HB3	2:D:533:ALA:HB2	1.86	0.57
2:D:783:SER:HB2	2:D:787:TRP:CZ2	2.39	0.57
2:D:913:LEU:HD23	2:D:913:LEU:C	2.24	0.57
2:D:916:VAL:HG23	2:D:917:PRO:HD2	1.86	0.57
3:Y:185:LYS:HG2	3:Y:186:TYR:CE2	2.38	0.57
3:Y:194:LYS:NZ	3:Y:197:ASN:HB2	2.10	0.57
1:A:190:ILE:HG22	1:A:191:PRO:CD	2.34	0.57
1:A:623:VAL:O	1:A:624:PHE:C	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1145:THR:O	1:A:1149:VAL:HG23	2.04	0.57
2:B:137:TYR:CE1	2:B:143:VAL:HG22	2.40	0.57
2:B:873:LYS:HD2	2:B:873:LYS:N	2.18	0.57
1:C:488:PRO:HG3	1:C:499:TYR:OH	2.03	0.57
1:C:687:ALA:O	1:C:690:TYR:HB3	2.04	0.57
1:C:1053:MET:CE	1:C:1086:LEU:HD22	2.34	0.57
1:C:1159:CYS:SG	1:C:1161:LEU:HD23	2.45	0.57
1:C:1468:PRO:HD3	1:C:1473:LEU:HD13	1.86	0.57
1:C:1560:ALA:O	1:C:1561:TYR:HD2	1.86	0.57
2:D:1279:ILE:CG2	2:D:1288:ILE:HB	2.35	0.57
2:D:1346:ASN:HB2	2:D:1368:CYS:HB2	1.86	0.57
3:Y:78:LYS:HD2	3:Y:78:LYS:C	2.25	0.57
1:A:1162:VAL:N	1:C:1102:ASN:HD21	2.02	0.57
2:B:161:VAL:HG21	2:B:180:LEU:CD2	2.33	0.57
2:B:266:GLY:HA2	2:B:276:ILE:HG13	1.84	0.57
2:B:383:ALA:C	2:B:384:PHE:CD2	2.78	0.57
2:B:963:ILE:CG1	2:B:1325:ILE:HG12	2.35	0.57
1:C:503:ILE:CB	1:C:511:HIS:HB2	2.34	0.57
2:D:519:ARG:CZ	2:D:608:GLY:HA3	2.34	0.57
3:X:111:ASP:CG	3:X:112:PRO:HD2	2.24	0.57
1:A:133:PRO:HD2	1:A:609:VAL:HG11	1.86	0.57
1:A:243:PHE:HE2	1:A:304:GLU:HA	1.70	0.57
1:A:455:ILE:HG22	1:A:456:ALA:N	2.20	0.57
1:A:532:GLN:HE21	1:A:568:GLY:HA2	1.69	0.57
1:A:822:ASP:HA	1:A:849:ARG:HD2	1.87	0.57
2:B:963:ILE:HG13	2:B:1325:ILE:HG12	1.86	0.57
2:B:1349:VAL:HG22	2:B:1363:LEU:HD12	1.86	0.57
2:B:1498:SER:O	2:B:1573:LEU:HD23	2.04	0.57
1:C:225:PRO:HG3	1:C:766:ARG:HB2	1.85	0.57
2:D:244:HIS:HB3	2:D:291:LYS:CD	2.28	0.57
2:D:443:ASN:OD1	2:D:469:ASN:HB3	2.05	0.57
2:D:789:VAL:HG23	2:D:806:TYR:O	2.04	0.57
2:D:1443:LEU:HD13	2:D:1443:LEU:N	2.19	0.57
3:X:125:LYS:HA	3:X:127:ASN:H	1.69	0.57
1:A:457:TYR:HE1	1:A:556:SER:O	1.88	0.57
1:A:481:HIS:HE1	1:A:529:PRO:HB3	1.64	0.57
1:A:512:PHE:HE2	3:X:148:ALA:HB3	1.70	0.57
1:A:742:ILE:HG21	1:A:753:HIS:HA	1.86	0.57
1:A:943:THR:OG1	1:A:1275:SER:OG	2.22	0.57
1:A:980:LYS:HD3	1:A:986:GLU:CA	2.33	0.57
1:A:1075:SER:HB2	1:A:1120:GLU:OE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:519:ARG:CZ	2:B:608:GLY:HA3	2.34	0.57
1:C:126:LEU:HD11	1:C:205:TYR:CE2	2.39	0.57
1:C:358:ALA:H	1:C:672:ILE:CG2	2.18	0.57
1:C:489:LYS:C	1:C:491:PRO:HD3	2.24	0.57
2:D:199:ILE:HG22	2:D:199:ILE:O	2.05	0.57
1:A:111:PHE:CG	1:A:112:SER:N	2.73	0.57
1:A:196:TYR:CE1	1:A:221:GLU:HB2	2.40	0.57
1:A:274:ASP:HA	1:A:322:TYR:CD2	2.40	0.57
1:A:342:ILE:HD12	1:A:345:ILE:HD11	1.87	0.57
1:A:493:ILE:HG23	1:A:495:LYS:N	2.18	0.57
1:A:1130:GLN:OE1	1:A:1232:LEU:HD22	2.03	0.57
2:B:168:PRO:HG3	2:B:197:TRP:N	2.20	0.57
1:C:457:TYR:CE2	1:C:641:ASN:HA	2.39	0.57
1:C:571:LEU:HD12	1:C:593:ALA:O	2.05	0.57
1:C:599:TRP:O	1:C:803:GLY:CA	2.49	0.57
1:C:1562:LYS:CD	1:C:1648:TRP:HE1	2.18	0.57
2:D:556:ILE:H	2:D:556:ILE:CD1	2.14	0.57
2:D:961:THR:HG22	2:D:1327:THR:CG2	2.32	0.57
2:D:1371:TYR:CD1	2:D:1377:SER:HB3	2.40	0.57
1:A:359:THR:HG23	1:A:359:THR:O	2.03	0.57
1:A:779:LEU:HD12	1:A:779:LEU:C	2.25	0.57
1:A:977:LEU:HD22	1:A:978:SER:N	2.19	0.57
1:A:981:GLY:HA3	1:A:1333:PHE:HB2	1.85	0.57
1:A:1268:ASN:N	1:A:1269:PRO:CD	2.67	0.57
1:A:1526:LYS:C	1:A:1529:GLU:HG3	2.24	0.57
1:A:1552:ALA:HB2	1:A:1620:MET:CE	2.34	0.57
2:B:484:LEU:HD11	2:B:626:LEU:CD1	2.34	0.57
2:B:825:VAL:HG22	2:B:916:VAL:HG13	1.86	0.57
1:C:23:TYR:O	1:C:655:THR:HB	2.04	0.57
1:C:443:PRO:HG2	1:C:446:ASN:HB2	1.85	0.57
1:C:788:PHE:N	1:C:788:PHE:HD2	2.03	0.57
1:C:805:SER:O	1:C:807:THR:N	2.38	0.57
2:D:218:LYS:HD3	2:D:822:TYR:HE2	1.67	0.57
2:D:1381:ILE:HG21	2:D:1459:TYR:CE1	2.37	0.57
2:D:1450:PHE:HD1	2:D:1451:ILE:H	1.53	0.57
3:X:101:GLN:HA	3:X:125:LYS:HB3	1.86	0.57
1:A:492:TYR:CE2	1:A:493:ILE:HB	2.39	0.57
1:A:544:TYR:C	1:A:544:TYR:HD2	2.08	0.57
1:A:571:LEU:HD23	1:A:812:ALA:HB2	1.87	0.57
1:A:1221:ASN:HA	1:A:1222:PRO:C	2.23	0.57
1:C:610:TYR:N	1:C:610:TYR:CD1	2.71	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:75:PHE:O	3:X:77:PRO:HD3	2.05	0.57
3:X:78:LYS:HD2	3:X:78:LYS:C	2.25	0.57
3:X:100:GLY:O	3:X:125:LYS:HG2	2.04	0.57
1:A:22:THR:HG22	1:A:23:TYR:CE1	2.40	0.57
1:A:1239:VAL:O	1:A:1239:VAL:HG12	2.04	0.57
1:A:1429:PRO:HB2	1:A:1432:ILE:HG12	1.86	0.57
1:A:1451:THR:O	1:A:1452:ASP:CB	2.53	0.57
1:A:1569:THR:O	1:A:1570:VAL:HG23	2.05	0.57
1:C:163:PHE:CE2	1:C:188:PHE:CD1	2.93	0.57
2:D:51:PRO:O	2:D:52:LYS:HG3	2.05	0.57
2:D:243:PHE:CE1	2:D:336:ILE:HG21	2.40	0.57
2:D:383:ALA:C	2:D:384:PHE:CD2	2.78	0.57
2:D:1544:VAL:HB	2:D:1557:ARG:HA	1.87	0.57
3:X:129:THR:O	3:X:129:THR:HG22	2.05	0.57
1:A:362:PHE:CE1	1:A:640:LEU:HB2	2.40	0.56
1:A:512:PHE:CD2	1:A:512:PHE:C	2.77	0.56
1:A:953:ILE:HD11	1:A:955:ARG:HH21	1.69	0.56
1:A:1213:LYS:HE2	1:A:1266:TYR:HD2	1.69	0.56
1:A:1226:ARG:O	1:A:1270:VAL:HG22	2.05	0.56
1:A:1240:PRO:HB2	1:A:1242:THR:HG23	1.86	0.56
1:A:1333:PHE:O	1:A:1334:LEU:CB	2.51	0.56
2:B:476:ILE:CG2	2:B:476:ILE:O	2.52	0.56
1:C:84:ILE:HD12	1:C:84:ILE:H	1.70	0.56
1:C:514:THR:HG22	1:C:515:ARG:N	2.19	0.56
1:C:534:MET:HB3	1:C:538:SER:OG	2.05	0.56
1:C:1527:CYS:O	1:C:1529:GLU:N	2.38	0.56
2:D:558:MET:O	2:D:561:ALA:CB	2.53	0.56
2:D:795:THR:HG22	2:D:796:PRO:CD	2.33	0.56
1:A:920:LYS:HZ3	2:B:842:GLU:CD	2.08	0.56
1:A:982:LEU:C	1:A:984:VAL:H	2.09	0.56
1:A:1271:ILE:O	1:A:1275:SER:HB3	2.05	0.56
2:B:840:VAL:HG12	2:B:841:ASN:N	2.11	0.56
2:B:964:ILE:O	2:B:964:ILE:HG22	2.04	0.56
2:B:1562:GLN:HE22	2:B:1596:LYS:HZ1	1.52	0.56
1:C:153:LYS:HB3	1:C:154:PRO:CD	2.34	0.56
1:C:571:LEU:HD23	1:C:812:ALA:HB2	1.86	0.56
1:C:938:SER:C	1:C:940:SER:N	2.58	0.56
1:C:1056:ILE:CD1	1:C:1066:TYR:CE2	2.88	0.56
1:C:1493:PHE:HE1	1:C:1495:VAL:HG12	1.69	0.56
2:D:844:ILE:CD1	2:D:872:ILE:HD11	2.35	0.56
2:D:1424:ILE:H	2:D:1424:ILE:CD1	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1631:PHE:CD2	2:D:1632:SER:N	2.73	0.56
3:X:185:LYS:HG2	3:X:186:TYR:CE2	2.40	0.56
3:Y:75:PHE:O	3:Y:77:PRO:HD3	2.05	0.56
1:A:263:ALA:HB3	1:A:292:LEU:HB3	1.86	0.56
1:A:309:GLU:HG2	1:A:310:LEU:N	2.21	0.56
1:A:309:GLU:HG2	1:A:310:LEU:HD12	1.86	0.56
1:A:395:ILE:HD12	1:A:395:ILE:O	2.06	0.56
1:A:550:GLN:O	1:A:550:GLN:HG2	2.04	0.56
1:A:915:GLU:HB2	2:B:905:TRP:CZ2	2.40	0.56
1:A:979:VAL:HG21	1:A:1326:TYR:CZ	2.36	0.56
1:A:1117:SER:HA	1:A:1145:THR:OG1	2.05	0.56
2:B:173:VAL:HG11	2:B:186:TYR:OH	2.06	0.56
2:B:581:ASP:O	2:B:583:ALA:N	2.38	0.56
2:B:843:ASP:HA	2:B:873:LYS:O	2.06	0.56
2:B:916:VAL:HG23	2:B:917:PRO:HD2	1.86	0.56
1:C:128:ILE:HD12	1:C:201:ILE:CG2	2.32	0.56
1:C:473:HIS:O	1:C:473:HIS:HD2	1.88	0.56
1:C:511:HIS:CE1	3:Y:149:SER:CB	2.87	0.56
1:C:524:GLN:HB2	2:D:401:ASN:OD1	2.05	0.56
1:C:543:TYR:CD1	1:C:543:TYR:O	2.57	0.56
1:C:742:ILE:CG2	1:C:753:HIS:HA	2.34	0.56
1:C:981:GLY:HA3	1:C:1333:PHE:HB2	1.85	0.56
1:C:1000:LEU:O	1:C:1001:THR:HG23	2.06	0.56
2:D:269:ILE:HA	2:D:312:HIS:CD2	2.40	0.56
2:D:348:THR:HA	2:D:352:LYS:NZ	2.20	0.56
2:D:857:CYS:HB3	2:D:885:VAL:HG22	1.87	0.56
2:D:1273:LEU:CB	2:D:1319:GLY:HA3	2.31	0.56
2:D:1288:ILE:CD1	2:D:1303:VAL:HG21	2.36	0.56
3:X:47:HIS:O	3:X:51:SER:HB2	2.06	0.56
1:A:149:ASN:HD22	1:A:149:ASN:N	1.99	0.56
1:A:267:ILE:HG22	1:A:268:THR:N	2.21	0.56
1:A:587:THR:CG2	1:A:789:ALA:HB2	2.34	0.56
1:A:680:GLN:O	1:A:684:GLU:HG3	2.04	0.56
1:A:1094:GLU:CD	1:A:1094:GLU:H	2.07	0.56
1:A:1227:PHE:CD1	1:A:1227:PHE:C	2.78	0.56
1:C:161:LEU:HD11	1:C:185:PHE:CE1	2.39	0.56
1:C:265:VAL:O	1:C:289:ASN:HA	2.05	0.56
1:C:395:ILE:HD12	1:C:395:ILE:O	2.05	0.56
1:C:512:PHE:O	1:C:512:PHE:HD2	1.89	0.56
1:C:695:VAL:CG1	1:C:724:CYS:HA	2.35	0.56
1:C:1352:PHE:N	1:C:1352:PHE:HD2	2.01	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:235:PHE:HB3	2:D:338:ILE:HG23	1.88	0.56
1:A:308:LYS:HG3	1:A:309:GLU:N	2.21	0.56
1:A:355:ASN:HD22	1:A:355:ASN:N	2.03	0.56
1:A:617:LYS:HB3	1:A:619:PRO:HD2	1.88	0.56
1:A:827:MET:SD	1:A:843:GLY:HA3	2.45	0.56
1:A:1548:ARG:C	1:A:1550:GLN:H	2.09	0.56
2:B:142:PRO:HB3	2:B:187:ASN:ND2	2.20	0.56
2:B:913:LEU:HD23	2:B:913:LEU:C	2.26	0.56
2:B:946:LYS:HA	2:B:1310:ASP:OD1	2.05	0.56
2:B:1562:GLN:NE2	2:B:1596:LYS:HZ2	2.03	0.56
1:C:22:THR:HG22	1:C:23:TYR:CE1	2.40	0.56
1:C:641:ASN:OD1	1:C:644:ASN:HB2	2.06	0.56
1:C:1217:LEU:HD13	1:C:1237:SER:HA	1.88	0.56
2:D:39:GLU:OE1	2:D:488:LYS:HB3	2.06	0.56
2:D:183:PHE:CD2	2:D:183:PHE:N	2.72	0.56
2:D:435:TYR:OH	2:D:532:VAL:HG22	2.05	0.56
2:D:484:LEU:HD11	2:D:626:LEU:CD1	2.35	0.56
3:X:77:PRO:O	3:X:78:LYS:HB3	2.06	0.56
1:A:25:ILE:CB	1:A:655:THR:HG23	2.36	0.56
2:B:1509:PRO:O	2:B:1512:ILE:HG13	2.06	0.56
1:C:149:ASN:HD22	1:C:149:ASN:N	1.92	0.56
1:C:827:MET:SD	1:C:843:GLY:HA3	2.45	0.56
2:D:494:ARG:HH11	2:D:494:ARG:CG	2.15	0.56
2:D:953:ARG:CZ	2:D:959:ILE:HD11	2.36	0.56
2:D:1510:LEU:HD21	2:D:1514:LYS:HZ1	1.70	0.56
1:A:33:VAL:HG21	1:A:121:TYR:HE1	1.66	0.56
1:A:42:GLN:CA	1:A:80:GLN:HG3	2.35	0.56
1:A:135:TYR:CD1	1:A:141:VAL:HG22	2.41	0.56
1:A:351:PRO:HG2	1:A:352:TYR:CE2	2.40	0.56
1:A:489:LYS:C	1:A:491:PRO:HD3	2.26	0.56
1:A:655:THR:O	1:A:656:ASN:C	2.43	0.56
1:A:788:PHE:N	1:A:788:PHE:CD2	2.73	0.56
2:B:595:GLN:O	2:B:598:ILE:HB	2.05	0.56
1:C:267:ILE:HD12	1:C:299:VAL:HG11	1.88	0.56
1:C:874:ASP:HA	1:C:878:THR:O	2.05	0.56
1:A:1110:ASN:OD1	1:A:1110:ASN:N	2.38	0.56
1:C:135:TYR:CD1	1:C:141:VAL:HG22	2.40	0.56
1:C:1323:LEU:CD1	1:C:1324:HIS:H	2.19	0.56
1:C:1585:TYR:CD1	1:C:1671:ILE:HG12	2.41	0.56
2:D:167:THR:HG23	2:D:171:ILE:N	2.20	0.56
2:D:518:PHE:CD2	2:D:538:VAL:HB	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:599:TRP:HA	2:D:599:TRP:HE3	1.70	0.56
2:D:829:GLN:HA	2:D:885:VAL:HG12	1.88	0.56
2:D:1384:ILE:HB	2:D:1423:VAL:HG12	1.87	0.56
3:X:110:ILE:HG22	3:X:111:ASP:O	2.05	0.56
1:A:43:VAL:HG11	1:A:73:LEU:CD1	2.36	0.56
1:A:59:TYR:CE2	1:A:99:VAL:HG21	2.41	0.56
1:A:59:TYR:CE1	1:A:60:PRO:HG3	2.41	0.56
2:B:282:ARG:C	2:B:283:ILE:HD12	2.25	0.56
2:B:345:ILE:HD11	2:B:427:THR:N	2.21	0.56
2:B:520:PHE:O	2:B:535:SER:HA	2.06	0.56
2:B:1288:ILE:CD1	2:B:1303:VAL:HG21	2.36	0.56
1:C:24:VAL:HG21	1:C:554:LEU:HD11	1.88	0.56
1:C:774:LEU:HG	1:C:788:PHE:CE1	2.41	0.56
1:C:1429:PRO:HB2	1:C:1432:ILE:HG12	1.86	0.56
1:C:1559:TYR:CD1	1:C:1561:TYR:HE2	2.23	0.56
2:D:525:GLN:HA	2:D:530:GLU:O	2.05	0.56
2:D:599:TRP:CZ3	2:D:602:ILE:HD12	2.40	0.56
2:D:824:VAL:HG22	2:D:825:VAL:N	2.20	0.56
3:Y:127:ASN:OD1	3:Y:158:GLU:HB3	2.06	0.56
1:A:78:LYS:HG3	3:X:146:LEU:HB2	1.87	0.56
1:A:115:LYS:HB2	1:A:654:LEU:CD2	2.35	0.56
1:A:1095:GLN:O	1:A:1097:GLN:N	2.39	0.56
1:A:1450:PHE:HZ	1:A:1475:VAL:HB	1.70	0.56
1:A:1598:ILE:HG22	1:A:1599:THR:H	1.70	0.56
2:B:69:PHE:CD2	2:B:69:PHE:C	2.79	0.56
2:B:789:VAL:HG23	2:B:806:TYR:O	2.05	0.56
2:B:916:VAL:HG22	2:B:917:PRO:O	2.05	0.56
1:C:577:PRO:CD	1:C:588:VAL:HG23	2.36	0.56
1:C:1128:LYS:C	1:C:1129:LEU:HD23	2.27	0.56
1:C:1559:TYR:CD1	1:C:1561:TYR:CE2	2.94	0.56
2:D:40:GLN:HG3	2:D:86:THR:HG23	1.88	0.56
2:D:422:ARG:HH12	3:Y:44:ARG:CA	2.18	0.56
2:D:826:LYS:NZ	2:D:1488:ASN:HB3	2.21	0.56
2:D:829:GLN:HE22	2:D:883:VAL:CG1	2.14	0.56
2:D:885:VAL:HG23	2:D:885:VAL:O	2.06	0.56
1:A:290:THR:O	1:A:291:MET:HB2	2.05	0.55
1:A:489:LYS:HG2	1:A:490:SER:N	2.21	0.55
1:A:610:TYR:N	1:A:610:TYR:CD1	2.73	0.55
1:A:680:GLN:HB2	1:A:684:GLU:OE2	2.06	0.55
1:A:695:VAL:CG1	1:A:724:CYS:HA	2.35	0.55
1:A:1132:THR:O	1:A:1134:PRO:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1585:TYR:CE1	1:A:1671:ILE:HG12	2.40	0.55
2:B:34:ARG:HD2	2:B:488:LYS:NZ	2.21	0.55
2:B:1284:ARG:CG	2:B:1285:GLU:N	2.69	0.55
2:B:1621:PHE:O	2:B:1622:GLN:C	2.43	0.55
2:B:1628:PHE:O	2:B:1630:GLN:N	2.39	0.55
1:C:126:LEU:HD11	1:C:205:TYR:CZ	2.41	0.55
1:C:617:LYS:HB3	1:C:619:PRO:HD2	1.88	0.55
1:C:693:SER:C	1:C:695:VAL:N	2.60	0.55
2:D:355:LYS:O	2:D:358:MET:CB	2.54	0.55
2:D:595:GLN:O	2:D:598:ILE:HB	2.07	0.55
2:D:1280:GLU:HG2	2:D:1287:PRO:CB	2.33	0.55
2:D:1424:ILE:HG12	2:D:1426:TYR:HE2	1.70	0.55
2:D:1612:HIS:O	2:D:1613:GLU:C	2.44	0.55
1:A:1219:LYS:CD	1:A:1239:VAL:HG21	2.36	0.55
1:A:1421:HIS:HD2	1:A:1422:ALA:N	2.03	0.55
1:A:1433:SER:OG	1:A:1482:LEU:HD12	2.06	0.55
2:B:1371:TYR:CD1	2:B:1377:SER:HB3	2.41	0.55
1:C:351:PRO:HG3	1:C:442:LEU:HD11	1.88	0.55
1:C:1108:VAL:HG21	1:C:1167:ALA:CB	2.34	0.55
1:C:1274:LEU:O	1:C:1277:GLU:N	2.37	0.55
2:D:1593:THR:CG2	2:D:1594:LYS:N	2.68	0.55
3:Y:58:SER:HB2	3:Y:125:LYS:HE3	1.87	0.55
3:Y:100:GLY:O	3:Y:125:LYS:HG2	2.05	0.55
3:Y:146:LEU:HD21	3:Y:148:ALA:HB2	1.88	0.55
1:A:198:MET:SD	1:A:218:GLU:HG3	2.45	0.55
1:A:1053:MET:CE	1:A:1086:LEU:HD22	2.37	0.55
1:A:1190:ILE:HG22	1:A:1191:SER:N	2.20	0.55
1:A:1453:TYR:CG	1:A:1453:TYR:O	2.59	0.55
2:B:355:LYS:O	2:B:358:MET:HB3	2.07	0.55
1:C:549:GLU:CD	1:C:550:GLN:N	2.60	0.55
1:C:644:ASN:CG	1:C:648:LEU:HD12	2.26	0.55
1:C:855:PHE:HA	2:D:904:LEU:HD11	1.87	0.55
1:C:1083:LEU:HD13	1:C:1104:LEU:HD23	1.89	0.55
1:C:1527:CYS:C	1:C:1529:GLU:H	2.10	0.55
1:C:1562:LYS:O	1:C:1563:VAL:CG1	2.54	0.55
1:C:1627:ILE:O	1:C:1627:ILE:CD1	2.54	0.55
2:D:481:TYR:CE2	2:D:493:GLY:HA3	2.41	0.55
3:Y:40:LEU:HD11	3:Y:209:PHE:CZ	2.41	0.55
3:Y:41:HIS:O	3:Y:42:ASP:CB	2.54	0.55
1:A:364:LYS:HE3	1:A:457:TYR:HD1	1.72	0.55
1:A:428:VAL:HG22	1:A:429:THR:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1232:LEU:HG	1:A:1233:GLN:N	2.21	0.55
2:B:42:LEU:HD22	2:B:492:VAL:HG21	1.87	0.55
1:C:77:ASN:ND2	1:C:81:ASN:HB2	2.22	0.55
1:C:478:VAL:CG1	1:C:566:LYS:HD3	2.37	0.55
1:C:788:PHE:N	1:C:788:PHE:CD2	2.74	0.55
1:C:1130:GLN:OE1	1:C:1232:LEU:HD22	2.05	0.55
1:C:1611:LEU:HD13	1:C:1617:TYR:CD1	2.41	0.55
2:D:456:PRO:CG	2:D:515:ILE:HD11	2.37	0.55
1:A:153:LYS:HB3	1:A:154:PRO:CD	2.35	0.55
1:A:180:ILE:HG22	1:A:181:GLY:N	2.22	0.55
1:A:532:GLN:O	1:A:535:VAL:HG13	2.07	0.55
1:A:923:LEU:HD23	1:A:924:VAL:N	2.22	0.55
1:A:934:VAL:CG2	1:A:1366:HIS:CD2	2.88	0.55
1:A:1056:ILE:O	1:A:1056:ILE:HG12	2.05	0.55
1:A:1180:LEU:HG	1:A:1208:ILE:HG12	1.89	0.55
2:B:51:PRO:O	2:B:52:LYS:HG3	2.06	0.55
2:B:130:ILE:HG12	2:B:147:VAL:HG23	1.87	0.55
2:B:558:MET:O	2:B:561:ALA:CB	2.55	0.55
2:B:1606:TRP:C	2:B:1606:TRP:HD1	2.10	0.55
1:C:504:LEU:HD21	1:C:651:LEU:HG	1.88	0.55
1:C:1108:VAL:CG2	1:C:1167:ALA:HB2	2.36	0.55
1:C:1180:LEU:HG	1:C:1208:ILE:HG12	1.88	0.55
1:C:1287:THR:OG1	1:C:1288:GLN:N	2.39	0.55
2:D:76:ASN:HB2	2:D:77:PRO:HD2	1.88	0.55
2:D:343:TYR:HE1	2:D:420:LEU:HD11	1.72	0.55
2:D:512:PRO:HA	2:D:515:ILE:HD12	1.87	0.55
2:D:826:LYS:HG3	2:D:887:LEU:O	2.05	0.55
2:D:1562:GLN:HB2	2:D:1598:SER:HB3	1.88	0.55
3:X:87:LEU:HA	3:X:91:LYS:CD	2.37	0.55
3:Y:146:LEU:HD22	3:Y:146:LEU:C	2.26	0.55
1:A:811:VAL:O	1:A:811:VAL:HG12	2.05	0.55
1:A:851:SER:O	1:A:890:GLY:HA2	2.07	0.55
1:A:1228:TRP:N	1:A:1228:TRP:CE3	2.75	0.55
1:A:1272:LYS:O	1:A:1276:GLU:HG3	2.07	0.55
2:B:233:LYS:O	2:B:233:LYS:HG3	2.05	0.55
2:B:365:TYR:HA	2:B:394:GLY:O	2.07	0.55
1:C:24:VAL:HA	1:C:655:THR:HG21	1.87	0.55
1:C:256:TYR:HB3	1:C:848:TYR:OH	2.06	0.55
1:C:947:ARG:O	1:C:949:ILE:HG12	2.06	0.55
1:C:1453:TYR:CG	1:C:1453:TYR:O	2.59	0.55
1:C:1615:ARG:HD2	1:C:1647:TYR:HD1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:28:ILE:HD13	2:D:621:PHE:HE1	1.70	0.55
2:D:1591:LEU:C	2:D:1591:LEU:CD2	2.75	0.55
1:A:1188:LEU:HD23	1:A:1212:LEU:HA	1.89	0.55
2:B:276:ILE:O	2:B:277:PRO:C	2.45	0.55
2:B:1594:LYS:HA	2:B:1594:LYS:CE	2.18	0.55
1:C:1132:THR:O	1:C:1134:PRO:N	2.39	0.55
1:C:1327:LYS:O	1:C:1332:ASN:ND2	2.39	0.55
2:D:130:ILE:HD13	2:D:199:ILE:CG2	2.36	0.55
2:D:261:ALA:HB3	2:D:285:ILE:HD11	1.88	0.55
2:D:476:ILE:O	2:D:476:ILE:HG23	2.06	0.55
2:D:481:TYR:HE2	2:D:493:GLY:HA3	1.71	0.55
2:D:838:ASN:OD1	2:D:840:VAL:HG23	2.07	0.55
1:A:85:LEU:N	1:A:85:LEU:HD22	2.22	0.55
1:A:569:ASN:ND2	1:A:570:GLN:H	2.04	0.55
1:A:596:MET:H	1:A:782:ARG:NH1	1.92	0.55
1:A:834:VAL:O	1:A:837:GLU:HB2	2.07	0.55
1:A:873:ILE:HD12	1:A:873:ILE:O	2.06	0.55
1:A:906:GLY:O	1:A:908:HIS:NE2	2.40	0.55
1:A:1344:ASP:OD1	1:A:1345:ASP:N	2.40	0.55
1:A:1571:GLU:O	1:A:1574:PHE:CD2	2.60	0.55
2:B:343:TYR:HE1	2:B:420:LEU:HD11	1.71	0.55
2:B:847:ARG:O	2:B:898:ALA:HA	2.07	0.55
2:B:862:LYS:HD2	2:B:1588:SER:OG	2.06	0.55
2:B:928:VAL:HG23	2:B:1323:MET:HB3	1.87	0.55
2:B:1591:LEU:C	2:B:1591:LEU:CD2	2.75	0.55
1:C:510:ILE:HA	3:Y:150:ILE:HG13	1.87	0.55
1:C:539:ARG:HE	1:C:633:GLY:HA3	1.71	0.55
1:C:599:TRP:CD1	1:C:779:LEU:HA	2.41	0.55
1:C:612:VAL:O	1:C:612:VAL:HG12	2.06	0.55
1:C:824:PHE:N	1:C:824:PHE:CD2	2.69	0.55
1:C:1019:PHE:CD2	1:C:1020:TYR:N	2.75	0.55
1:C:1333:PHE:O	1:C:1334:LEU:CB	2.53	0.55
1:C:1383:THR:HG21	1:C:1511:THR:HG22	1.88	0.55
2:D:42:LEU:HD22	2:D:492:VAL:HG21	1.89	0.55
2:D:1349:VAL:HG22	2:D:1363:LEU:HD12	1.88	0.55
2:D:1602:THR:H	2:D:1605:THR:HB	1.72	0.55
3:Y:134:THR:CG2	3:Y:153:PHE:HB3	2.37	0.55
1:A:614:ARG:HD2	1:A:614:ARG:C	2.24	0.55
1:A:1013:MET:HA	1:A:1016:VAL:HG23	1.88	0.55
2:B:243:PHE:CE1	2:B:336:ILE:HG21	2.42	0.55
2:B:285:ILE:N	2:B:285:ILE:CD1	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:443:ASN:OD1	2:B:469:ASN:HB3	2.06	0.55
2:B:447:VAL:O	2:B:447:VAL:HG13	2.06	0.55
2:B:923:SER:O	2:B:924:ILE:HD12	2.07	0.55
1:C:145:VAL:HB	1:C:183:ILE:CG1	2.34	0.55
1:C:199:TRP:CB	1:C:217:PHE:CE1	2.90	0.55
1:C:290:THR:O	1:C:291:MET:HB2	2.07	0.55
1:C:697:LYS:O	1:C:700:TYR:HB3	2.06	0.55
1:C:1218:VAL:CG1	1:C:1219:LYS:H	2.17	0.55
1:C:1556:GLU:CB	1:C:1622:LYS:HE2	2.30	0.55
1:C:1561:TYR:CD1	1:C:1581:LEU:HD21	2.42	0.55
2:D:184:TRP:HB2	2:D:185:PRO:CD	2.37	0.55
2:D:1381:ILE:HB	2:D:1459:TYR:CD1	2.42	0.55
3:Y:107:GLN:OE1	3:Y:110:ILE:HD11	2.07	0.55
1:A:44:TYR:CZ	1:A:497:THR:HG21	2.41	0.55
1:A:773:TRP:HZ3	1:A:788:PHE:CE1	2.25	0.55
1:A:936:ARG:HH12	1:A:1284:PHE:HZ	1.53	0.55
1:A:1474:CYS:HB3	1:A:1476:ARG:NH1	2.22	0.55
2:B:26:THR:HG22	2:B:630:THR:HG22	1.88	0.55
2:B:523:TYR:HD2	2:B:621:PHE:HZ	1.55	0.55
2:B:965:ILE:HG13	2:B:1301:ARG:CB	2.26	0.55
1:C:134:VAL:C	1:C:135:TYR:HD2	2.10	0.55
1:C:171:VAL:CG1	1:C:172:ASP:N	2.70	0.55
1:C:308:LYS:HG3	1:C:309:GLU:N	2.21	0.55
1:C:342:ILE:HG22	1:C:343:PRO:HD2	1.88	0.55
1:C:503:ILE:HD11	1:C:540:LEU:HD13	1.89	0.55
1:C:1095:GLN:O	1:C:1097:GLN:N	2.41	0.55
1:C:1227:PHE:HB2	1:C:1251:THR:HG21	1.89	0.55
2:D:1530:ARG:HH11	2:D:1530:ARG:HG3	1.72	0.55
3:Y:50:TYR:HE2	3:Y:170:ARG:CZ	2.19	0.55
3:Y:87:LEU:HA	3:Y:91:LYS:CD	2.36	0.55
1:A:42:GLN:HE21	1:A:43:VAL:C	2.11	0.54
1:A:662:SER:O	1:A:663:GLN:HG2	2.07	0.54
1:A:1554:LYS:HG3	1:A:1555:PRO:HD2	1.88	0.54
2:B:39:GLU:OE1	2:B:488:LYS:HB3	2.07	0.54
2:B:126:SER:O	2:B:208:GLU:HG3	2.07	0.54
2:B:167:THR:HG23	2:B:171:ILE:N	2.23	0.54
2:B:380:VAL:CG1	2:B:387:MET:HB3	2.27	0.54
2:B:1522:TYR:CD2	2:B:1522:TYR:N	2.73	0.54
2:B:1633:TYR:CE1	2:B:1637:GLU:OE1	2.59	0.54
1:C:127:PHE:HE2	1:C:623:VAL:CG1	2.09	0.54
1:C:231:ILE:O	1:C:231:ILE:HG23	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:505:SER:HB3	1:C:510:ILE:CD1	2.37	0.54
1:C:587:THR:CG2	1:C:789:ALA:HB2	2.37	0.54
1:C:705:VAL:HA	1:C:739:ARG:NH2	2.21	0.54
1:C:1221:ASN:HA	1:C:1222:PRO:C	2.26	0.54
1:C:1601:ILE:O	1:C:1638:PRO:O	2.25	0.54
2:D:96:THR:HG21	2:D:102:GLN:OE1	2.06	0.54
2:D:1506:ILE:CD1	2:D:1628:PHE:CE1	2.89	0.54
2:D:1536:GLY:O	2:D:1567:ARG:HG2	2.07	0.54
3:Y:47:HIS:O	3:Y:51:SER:HB2	2.07	0.54
3:Y:111:ASP:CG	3:Y:112:PRO:HD2	2.27	0.54
1:A:316:GLU:HG2	1:A:349:LEU:HD23	1.88	0.54
1:A:494:ASP:CG	1:A:495:LYS:HE2	2.28	0.54
1:A:694:VAL:O	1:A:697:LYS:HE2	2.06	0.54
1:A:824:PHE:CZ	1:A:846:TYR:HD1	2.26	0.54
1:A:854:GLN:NE2	1:A:854:GLN:H	2.05	0.54
1:A:871:PRO:CD	1:A:872:VAL:N	2.68	0.54
1:A:1013:MET:HE2	1:A:1287:THR:HB	1.88	0.54
1:A:1421:HIS:C	1:A:1421:HIS:CD2	2.78	0.54
1:A:1421:HIS:CE1	1:A:1498:TYR:CD1	2.95	0.54
2:B:410:PRO:HA	2:B:431:THR:HG22	1.89	0.54
2:B:953:ARG:CZ	2:B:959:ILE:HD11	2.37	0.54
1:C:222:TYR:CD1	1:C:768:TYR:HB2	2.42	0.54
1:C:359:THR:HG23	1:C:359:THR:O	2.08	0.54
1:C:428:VAL:HG22	1:C:429:THR:H	1.72	0.54
1:C:549:GLU:CG	1:C:550:GLN:H	2.19	0.54
1:C:967:LEU:HD13	1:C:1365:VAL:HG22	1.89	0.54
1:C:1562:LYS:O	1:C:1563:VAL:HG13	2.06	0.54
1:A:472:ASN:O	1:A:473:HIS:HB3	2.07	0.54
1:A:656:ASN:CG	1:A:658:ASN:HB3	2.27	0.54
1:A:1562:LYS:CD	1:A:1648:TRP:CZ2	2.86	0.54
1:A:1611:LEU:HD13	1:A:1617:TYR:CD1	2.43	0.54
2:B:218:LYS:HD3	2:B:822:TYR:HE2	1.72	0.54
2:B:1593:THR:CG2	2:B:1594:LYS:H	2.20	0.54
1:C:455:ILE:HG22	1:C:456:ALA:N	2.22	0.54
1:C:472:ASN:O	1:C:473:HIS:HB3	2.06	0.54
1:C:696:LYS:NZ	1:C:759:PRO:CD	2.64	0.54
1:C:1011:GLU:O	1:C:1014:SER:HB3	2.08	0.54
1:C:1013:MET:HA	1:C:1016:VAL:HG23	1.90	0.54
1:C:1117:SER:HA	1:C:1145:THR:OG1	2.07	0.54
1:C:1236:ASP:O	1:C:1238:SER:N	2.35	0.54
2:D:559:PRO:HG2	2:D:812:LYS:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1387:LEU:HD21	2:D:1472:TYR:CE1	2.42	0.54
2:D:1486:ILE:HD11	2:D:1591:LEU:CD2	2.37	0.54
3:X:46:LEU:HD12	3:X:180:TYR:CE1	2.43	0.54
3:X:125:LYS:HA	3:X:126:ASN:C	2.25	0.54
3:Y:166:ASP:HB2	3:Y:207:LEU:HD21	1.89	0.54
1:A:25:ILE:HD13	1:A:41:ILE:CB	2.37	0.54
1:A:44:TYR:CB	1:A:545:ILE:HD12	2.38	0.54
1:A:126:LEU:HD11	1:A:205:TYR:CZ	2.43	0.54
1:A:490:SER:N	1:A:491:PRO:CD	2.70	0.54
1:A:1020:TYR:CE1	1:A:1295:GLU:HG3	2.39	0.54
1:A:1279:ARG:HD3	1:A:1280:TYR:N	2.22	0.54
2:B:775:THR:HG22	2:B:776:MET:H	1.72	0.54
2:B:954:VAL:HG23	2:B:1330:ASN:O	2.07	0.54
2:B:1443:LEU:HD13	2:B:1443:LEU:N	2.23	0.54
1:C:42:GLN:HE21	1:C:43:VAL:C	2.10	0.54
1:C:658:ASN:O	1:C:659:ALA:CB	2.55	0.54
1:C:680:GLN:HG3	1:C:681:LYS:H	1.72	0.54
1:C:779:LEU:HD12	1:C:780:VAL:N	2.22	0.54
1:C:1562:LYS:HD2	1:C:1648:TRP:CE2	2.42	0.54
1:C:1569:THR:O	1:C:1570:VAL:HG23	2.07	0.54
1:C:1582:LEU:HD11	1:C:1648:TRP:CZ2	2.43	0.54
2:D:503:LEU:HD23	2:D:503:LEU:C	2.28	0.54
2:D:775:THR:HG22	2:D:776:MET:H	1.71	0.54
2:D:1278:THR:HB	2:D:1314:THR:HB	1.90	0.54
1:A:594:THR:O	1:A:782:ARG:HD2	2.07	0.54
1:A:705:VAL:HA	1:A:739:ARG:NH2	2.22	0.54
1:A:989:SER:O	1:A:993:SER:CB	2.56	0.54
1:A:1084:ARG:HD2	1:A:1154:LYS:HG3	1.90	0.54
1:A:1188:LEU:HD23	1:A:1212:LEU:HD13	1.88	0.54
1:A:1402:ILE:HG13	1:A:1479:ILE:HD13	1.89	0.54
2:B:1274:ASN:OD1	2:B:1291:ARG:NH2	2.41	0.54
1:C:234:GLU:HB3	1:C:246:PHE:HE1	1.72	0.54
1:C:662:SER:O	1:C:663:GLN:HG2	2.07	0.54
1:C:895:LEU:HD12	1:C:896:VAL:N	2.22	0.54
2:D:1636:THR:HG22	2:D:1637:GLU:HG3	1.89	0.54
3:X:119:VAL:HG21	3:X:209:PHE:CB	2.38	0.54
1:A:100:SER:O	1:A:101:TYR:HB2	2.06	0.54
1:A:145:VAL:HB	1:A:183:ILE:CG1	2.33	0.54
1:A:903:LEU:HD22	1:A:903:LEU:N	2.23	0.54
1:A:1133:LEU:HD12	1:A:1133:LEU:N	2.06	0.54
1:A:1440:LYS:O	1:A:1444:GLU:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1288:ILE:HD13	2:B:1303:VAL:HG21	1.90	0.54
2:B:1638:PHE:O	2:B:1639:GLY:O	2.26	0.54
1:C:109:LYS:HD3	1:C:110:HIS:HE1	1.73	0.54
1:C:155:ALA:O	1:C:157:ARG:N	2.40	0.54
1:C:309:GLU:HG2	1:C:310:LEU:N	2.22	0.54
1:C:515:ARG:HG3	1:C:526:ILE:CG2	2.38	0.54
1:C:594:THR:O	1:C:782:ARG:HD2	2.08	0.54
1:C:680:GLN:HB2	1:C:684:GLU:OE2	2.07	0.54
1:C:987:ILE:HD11	1:C:1294:ILE:HG23	1.90	0.54
1:C:1084:ARG:HD2	1:C:1154:LYS:HG3	1.88	0.54
1:C:1112:GLN:NE2	1:C:1171:ALA:HB2	2.21	0.54
1:C:1188:LEU:HD23	1:C:1212:LEU:CD1	2.37	0.54
2:D:126:SER:O	2:D:208:GLU:HG3	2.08	0.54
1:A:154:PRO:O	1:A:155:ALA:CB	2.55	0.54
1:A:199:TRP:CB	1:A:217:PHE:CE1	2.91	0.54
1:A:316:GLU:HG2	1:A:349:LEU:CD2	2.37	0.54
1:A:398:ASN:O	1:A:399:GLN:CB	2.56	0.54
1:A:847:ASN:ND2	1:A:853:MET:HB3	2.23	0.54
1:A:917:TRP:HA	1:A:917:TRP:CE3	2.43	0.54
1:A:1102:ASN:HD21	1:C:1162:VAL:HG22	1.67	0.54
1:A:1549:LYS:HD3	1:A:1667:PHE:CB	2.38	0.54
2:B:184:TRP:HB2	2:B:185:PRO:CD	2.37	0.54
2:B:861:THR:O	2:B:863:GLY:N	2.41	0.54
2:B:1279:ILE:CG2	2:B:1288:ILE:HB	2.35	0.54
1:C:23:TYR:HE2	1:C:111:PHE:CD2	2.26	0.54
1:C:489:LYS:HG2	1:C:490:SER:N	2.22	0.54
1:C:612:VAL:HG21	1:C:769:PHE:HZ	1.72	0.54
1:C:614:ARG:HD2	1:C:614:ARG:C	2.24	0.54
1:C:1020:TYR:CE1	1:C:1295:GLU:HG3	2.35	0.54
1:C:1082:ALA:O	1:C:1086:LEU:HD23	2.07	0.54
1:C:1112:GLN:HB2	1:C:1118:PHE:CE1	2.43	0.54
1:C:1278:GLN:NE2	1:C:1293:ALA:HB1	2.22	0.54
2:D:46:HIS:ND1	2:D:525:GLN:HG2	2.22	0.54
2:D:69:PHE:CE1	2:D:87:ILE:HA	2.43	0.54
2:D:861:THR:O	2:D:863:GLY:N	2.41	0.54
3:X:50:TYR:HE2	3:X:170:ARG:CZ	2.21	0.54
3:Y:86:LEU:HG	3:Y:91:LYS:HG3	1.88	0.54
1:A:641:ASN:OD1	1:A:644:ASN:HB2	2.08	0.54
1:A:771:GLU:HG3	1:A:772:SER:O	2.08	0.54
1:A:1108:VAL:CG2	1:A:1167:ALA:HB2	2.38	0.54
2:B:28:ILE:HD13	2:B:621:PHE:HE1	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:941:GLN:HE21	2:B:943:GLU:HG2	1.71	0.54
2:B:1611:PRO:HD3	2:B:1624:LEU:HD23	1.90	0.54
1:C:190:ILE:HD12	1:C:219:VAL:HG21	1.90	0.54
1:C:512:PHE:CD2	1:C:512:PHE:C	2.75	0.54
1:C:656:ASN:CG	1:C:658:ASN:HB3	2.26	0.54
1:C:1094:GLU:H	1:C:1094:GLU:CD	2.11	0.54
2:D:168:PRO:HG3	2:D:197:TRP:N	2.21	0.54
2:D:595:GLN:OE1	2:D:595:GLN:HA	2.07	0.54
2:D:1509:PRO:O	2:D:1512:ILE:HG13	2.08	0.54
2:D:1562:GLN:HE22	2:D:1596:LYS:HZ2	1.53	0.54
3:X:139:ASN:HD22	3:X:148:ALA:HB1	1.72	0.54
3:Y:163:LYS:HG3	3:Y:212:MET:SD	2.48	0.54
1:A:74:SER:HA	1:A:79:PHE:HE1	1.73	0.54
2:B:175:SER:N	2:B:1300:ALA:HB2	2.20	0.54
2:B:595:GLN:OE1	2:B:595:GLN:HA	2.06	0.54
1:C:497:THR:OG1	1:C:498:HIS:N	2.38	0.54
1:C:753:HIS:O	1:C:754:MET:CB	2.52	0.54
1:C:907:LEU:HG	1:C:908:HIS:N	2.23	0.54
1:C:950:TYR:C	1:C:952:THR:H	2.11	0.54
1:C:1133:LEU:HB2	1:C:1134:PRO:HD3	1.90	0.54
1:C:1286:SER:OG	1:C:1287:THR:N	2.40	0.54
1:C:1548:ARG:C	1:C:1550:GLN:H	2.11	0.54
2:D:57:PHE:HD1	2:D:59:HIS:NE2	2.05	0.54
3:Y:125:LYS:HA	3:Y:127:ASN:H	1.72	0.54
1:A:134:VAL:C	1:A:135:TYR:CD2	2.81	0.54
1:A:484:ILE:HG23	1:A:526:ILE:HG13	1.88	0.54
1:A:1629:TYR:CE1	1:A:1634:ARG:NH2	2.76	0.54
2:B:736:GLU:CD	2:B:737:ASP:H	2.11	0.54
2:B:826:LYS:HG3	2:B:887:LEU:O	2.08	0.54
1:C:44:TYR:CB	1:C:545:ILE:HD12	2.36	0.54
1:C:87:ILE:N	1:C:87:ILE:CD1	2.66	0.54
1:C:430:VAL:HG11	1:C:453:ARG:NH2	2.17	0.54
1:C:490:SER:N	1:C:491:PRO:CD	2.71	0.54
1:C:773:TRP:HZ3	1:C:788:PHE:CE1	2.25	0.54
1:C:796:THR:HA	1:C:818:LYS:HA	1.89	0.54
2:D:528:ASN:N	2:D:528:ASN:OD1	2.41	0.54
2:D:585:TYR:CD2	2:D:788:VAL:HG11	2.42	0.54
2:D:820:MET:HG3	2:D:821:PRO:HD2	1.90	0.54
2:D:952:ASP:O	2:D:1331:ALA:HA	2.08	0.54
2:D:1415:ASN:O	2:D:1417:MET:HG3	2.08	0.54
1:A:287:MET:HG2	1:A:299:VAL:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1150:ILE:CD1	1:A:1193:TYR:CD2	2.91	0.53
1:A:1623:GLU:HB2	1:A:1638:PRO:CD	2.38	0.53
2:B:87:ILE:H	2:B:87:ILE:HD12	1.73	0.53
2:B:243:PHE:CD1	2:B:314:LEU:HD23	2.41	0.53
1:C:24:VAL:HG11	1:C:543:TYR:CZ	2.43	0.53
1:C:625:GLN:O	1:C:628:GLU:HB3	2.08	0.53
1:C:1190:ILE:HG22	1:C:1191:SER:N	2.22	0.53
1:C:1199:ASP:C	1:C:1201:THR:H	2.10	0.53
1:C:1268:ASN:N	1:C:1269:PRO:CD	2.71	0.53
1:C:1421:HIS:CE1	1:C:1498:TYR:CD1	2.95	0.53
2:D:130:ILE:HG12	2:D:147:VAL:HG23	1.89	0.53
2:D:476:ILE:HD11	2:D:524:TYR:CD2	2.43	0.53
2:D:1344:HIS:ND1	4:H:1:NAG:H82	2.23	0.53
2:D:1593:THR:CG2	2:D:1594:LYS:H	2.21	0.53
4:E:1:NAG:H3	4:E:2:NAG:O5	2.07	0.53
1:A:149:ASN:O	1:A:151:ASP:N	2.40	0.53
1:A:250:ILE:HD11	1:A:265:VAL:CG1	2.37	0.53
1:A:1631:PHE:CD2	1:A:1631:PHE:N	2.74	0.53
2:B:384:PHE:HD1	2:B:400:LEU:HG	1.67	0.53
2:B:546:GLY:HA3	2:B:570:ASP:OD1	2.08	0.53
2:B:606:ASP:OD1	2:B:606:ASP:O	2.26	0.53
2:B:1345:LEU:HD21	2:B:1456:VAL:HG12	1.90	0.53
1:C:25:ILE:HD13	1:C:41:ILE:CB	2.36	0.53
1:C:33:VAL:CG2	1:C:121:TYR:HD1	2.20	0.53
1:C:40:VAL:HG23	1:C:41:ILE:H	1.73	0.53
1:C:222:TYR:HE2	1:C:224:LEU:CA	2.21	0.53
1:C:263:ALA:HB3	1:C:292:LEU:HB3	1.90	0.53
1:C:980:LYS:HD3	1:C:986:GLU:CA	2.37	0.53
1:C:982:LEU:C	1:C:984:VAL:N	2.61	0.53
1:C:1304:VAL:CG1	1:C:1305:LYS:H	2.21	0.53
1:C:1548:ARG:HE	1:C:1550:GLN:NE2	2.07	0.53
2:D:365:TYR:HA	2:D:394:GLY:O	2.08	0.53
2:D:437:THR:HG23	2:D:444:TYR:CD1	2.43	0.53
2:D:963:ILE:HG13	2:D:1325:ILE:HG12	1.90	0.53
3:X:107:GLN:HB3	3:X:116:LEU:HD22	1.90	0.53
1:A:24:VAL:O	1:A:24:VAL:HG12	2.08	0.53
1:A:77:ASN:ND2	1:A:81:ASN:HB2	2.23	0.53
1:A:81:ASN:CG	1:A:82:SER:H	2.12	0.53
2:B:218:LYS:HD3	2:B:822:TYR:CE2	2.43	0.53
2:B:1384:ILE:HB	2:B:1423:VAL:HG12	1.90	0.53
2:B:1522:TYR:N	2:B:1522:TYR:HD2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1213:LYS:HE2	1:C:1266:TYR:CE2	2.43	0.53
2:D:1386:MET:HA	2:D:1386:MET:CE	2.38	0.53
2:D:1548:ILE:HG23	2:D:1635:LEU:CB	2.39	0.53
1:A:1218:VAL:CG1	1:A:1219:LYS:H	2.20	0.53
1:A:1320:LYS:CE	1:A:1321:GLY:H	2.21	0.53
2:B:236:TYR:CE1	2:B:424:ARG:HD2	2.43	0.53
2:B:481:TYR:CD2	2:B:481:TYR:C	2.82	0.53
2:B:563:MET:HA	2:B:563:MET:HE3	1.89	0.53
2:B:885:VAL:O	2:B:885:VAL:HG23	2.08	0.53
2:B:952:ASP:OD1	2:B:952:ASP:N	2.33	0.53
1:C:149:ASN:O	1:C:150:ASP:C	2.46	0.53
1:C:382:LEU:HD13	1:C:415:ASP:O	2.09	0.53
1:C:600:VAL:HA	1:C:802:VAL:O	2.08	0.53
1:C:884:VAL:HG12	1:C:885:ARG:N	2.23	0.53
1:C:917:TRP:HA	1:C:917:TRP:CE3	2.43	0.53
1:C:953:ILE:HD11	1:C:955:ARG:HH21	1.73	0.53
1:C:1370:THR:O	1:C:1371:SER:C	2.47	0.53
1:C:1581:LEU:HD12	1:C:1592:ALA:HB1	1.91	0.53
3:X:134:THR:CG2	3:X:153:PHE:HB3	2.38	0.53
3:Y:43:ILE:O	3:Y:44:ARG:C	2.45	0.53
1:A:24:VAL:N	1:A:655:THR:HG21	2.23	0.53
1:A:804:ILE:CG2	1:A:809:ILE:HG13	2.36	0.53
1:A:1180:LEU:CD2	1:A:1208:ILE:HG12	2.38	0.53
2:B:585:TYR:CD2	2:B:788:VAL:HG11	2.44	0.53
1:C:363:LEU:HD12	1:C:456:ALA:HA	1.90	0.53
1:C:493:ILE:O	1:C:493:ILE:HG22	2.08	0.53
1:C:523:TYR:CD1	2:D:359:PRO:HG2	2.43	0.53
1:C:554:LEU:H	1:C:658:ASN:ND2	2.06	0.53
1:C:790:LEU:HB3	1:C:791:PRO:CD	2.38	0.53
1:C:916:THR:C	1:C:918:PHE:H	2.11	0.53
1:C:1204:GLN:OE1	1:C:1204:GLN:HA	2.09	0.53
1:C:1620:MET:CB	1:C:1644:TRP:CB	2.85	0.53
2:D:851:LEU:HD23	2:D:852:TYR:N	2.13	0.53
2:D:1400:LEU:HD22	2:D:1406:ARG:HH12	1.73	0.53
2:D:1561:HIS:CD2	2:D:1597:ILE:HD13	2.43	0.53
2:D:1615:GLU:HB3	2:D:1621:PHE:CD1	2.43	0.53
3:X:217:ASN:HB2	3:X:220:ASP:OD2	2.08	0.53
1:A:128:ILE:CG2	1:A:145:VAL:HG22	2.28	0.53
1:A:600:VAL:HA	1:A:802:VAL:O	2.07	0.53
1:A:1274:LEU:O	1:A:1277:GLU:N	2.42	0.53
1:A:1569:THR:O	1:A:1570:VAL:CG2	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1572:ASN:C	1:A:1573:VAL:HG23	2.28	0.53
2:B:24:LEU:HB3	2:B:46:HIS:HB2	1.91	0.53
2:B:1504:GLU:H	2:B:1504:GLU:CD	2.11	0.53
1:C:123:ASN:O	1:C:211:THR:HG21	2.07	0.53
1:C:250:ILE:HD11	1:C:265:VAL:CG1	2.37	0.53
1:C:655:THR:OG1	1:C:656:ASN:N	2.41	0.53
1:C:720:LEU:HD11	1:C:724:CYS:SG	2.48	0.53
1:C:1320:LYS:HD2	1:C:1321:GLY:N	2.21	0.53
1:C:1619:ILE:HG12	1:C:1645:ILE:CD1	2.38	0.53
2:D:175:SER:N	2:D:1300:ALA:HB2	2.19	0.53
2:D:345:ILE:HD11	2:D:427:THR:N	2.23	0.53
3:Y:107:GLN:HB3	3:Y:116:LEU:HD22	1.90	0.53
1:A:115:LYS:HB3	1:A:654:LEU:HD21	1.91	0.53
1:C:532:GLN:HE21	1:C:568:GLY:CA	2.14	0.53
1:C:955:ARG:HH12	1:C:1352:PHE:HA	1.74	0.53
1:C:1056:ILE:CD1	1:C:1066:TYR:HE2	2.22	0.53
1:C:1142:LEU:HD13	1:C:1187:THR:CG2	2.38	0.53
1:C:1159:CYS:C	1:C:1161:LEU:H	2.11	0.53
1:C:1381:ILE:O	1:C:1382:ASP:CB	2.55	0.53
1:C:1496:TYR:HD2	1:C:1496:TYR:N	2.06	0.53
1:C:1598:ILE:HG22	1:C:1599:THR:H	1.73	0.53
2:D:129:PHE:CE2	2:D:598:ILE:HG23	2.44	0.53
2:D:204:GLU:O	2:D:205:HIS:HB2	2.08	0.53
2:D:266:GLY:HA2	2:D:276:ILE:HG13	1.90	0.53
2:D:745:ILE:CG2	2:D:897:LYS:HD3	2.39	0.53
2:D:954:VAL:HG23	2:D:1330:ASN:O	2.08	0.53
2:D:1593:THR:HB	2:D:1596:LYS:O	2.09	0.53
3:Y:170:ARG:HD3	3:Y:203:LEU:CD2	2.38	0.53
1:A:702:GLY:HA3	1:A:728:PHE:CD1	2.44	0.53
1:A:758:LEU:HB3	1:A:759:PRO:HD2	1.91	0.53
1:A:906:GLY:N	1:A:929:VAL:HB	2.21	0.53
1:A:1451:THR:O	1:A:1452:ASP:HB3	2.07	0.53
1:A:1615:ARG:NH1	1:A:1647:TYR:CE1	2.77	0.53
2:B:46:HIS:ND1	2:B:525:GLN:HG2	2.24	0.53
2:B:469:ASN:ND2	2:B:472:SER:H	2.06	0.53
2:B:824:VAL:HG22	2:B:825:VAL:N	2.24	0.53
2:B:1466:GLU:HA	2:B:1466:GLU:OE1	2.08	0.53
1:C:23:TYR:O	1:C:655:THR:CB	2.56	0.53
1:C:461:SER:C	1:C:463:SER:H	2.12	0.53
1:C:573:VAL:O	1:C:574:HIS:ND1	2.42	0.53
1:C:949:ILE:HG22	1:C:950:TYR:CZ	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1159:CYS:N	1:C:1160:PRO:CD	2.72	0.53
1:C:1228:TRP:N	1:C:1228:TRP:CE3	2.77	0.53
2:D:353:TYR:HA	2:D:433:ILE:O	2.09	0.53
2:D:523:TYR:HD2	2:D:621:PHE:HZ	1.54	0.53
2:D:622:GLU:OE2	2:D:637:LYS:HD3	2.09	0.53
2:D:745:ILE:HG13	2:D:906:SER:HB2	1.90	0.53
3:Y:194:LYS:NZ	3:Y:197:ASN:HD22	2.06	0.53
1:A:149:ASN:O	1:A:150:ASP:C	2.47	0.53
1:A:425:PRO:HG3	2:B:498:ARG:NH1	2.24	0.53
1:A:702:GLY:HA2	1:A:728:PHE:HE1	1.70	0.53
1:A:968:VAL:HG22	1:A:1366:HIS:O	2.08	0.53
1:A:979:VAL:HG11	1:A:1326:TYR:HE1	1.73	0.53
1:A:1204:GLN:OE1	1:A:1204:GLN:HA	2.09	0.53
1:A:1454:GLN:HG3	1:A:1461:ILE:HB	1.90	0.53
2:B:618:LEU:HD22	2:B:636:THR:HA	1.89	0.53
2:B:622:GLU:OE2	2:B:637:LYS:HD3	2.09	0.53
2:B:1313:VAL:HG21	2:B:1323:MET:HE2	1.90	0.53
1:C:569:ASN:CG	1:C:570:GLN:N	2.62	0.53
1:C:694:VAL:O	1:C:697:LYS:HE2	2.09	0.53
1:C:771:GLU:HG3	1:C:772:SER:O	2.09	0.53
1:C:824:PHE:CZ	1:C:846:TYR:HD1	2.27	0.53
1:C:1626:GLN:HB2	1:C:1635:TYR:CD1	2.40	0.53
2:D:285:ILE:N	2:D:285:ILE:CD1	2.67	0.53
2:D:1480:LEU:HD12	2:D:1480:LEU:C	2.28	0.53
3:X:127:ASN:OD1	3:X:158:GLU:HB3	2.07	0.53
3:Y:88:GLY:HA2	3:Y:210:GLU:O	2.08	0.53
1:A:363:LEU:HD12	1:A:456:ALA:HA	1.90	0.53
1:A:599:TRP:NE1	1:A:779:LEU:HA	2.24	0.53
1:A:612:VAL:HG21	1:A:769:PHE:HZ	1.71	0.53
1:A:655:THR:OG1	1:A:656:ASN:N	2.41	0.53
1:A:1066:TYR:H	1:A:1079:THR:CG2	2.19	0.53
1:A:1242:THR:OG1	1:A:1243:GLY:N	2.42	0.53
1:A:1559:TYR:CD1	1:A:1561:TYR:HE2	2.27	0.53
2:B:175:SER:O	2:B:1299:LEU:HD12	2.09	0.53
2:B:231:SER:HB3	2:B:244:HIS:HB2	1.90	0.53
2:B:481:TYR:HD2	2:B:481:TYR:C	2.10	0.53
2:B:482:LEU:CD1	2:B:521:VAL:HB	2.39	0.53
2:B:512:PRO:HA	2:B:515:ILE:HD12	1.90	0.53
2:B:1281:LEU:HB2	2:B:1283:ASP:HB2	1.89	0.53
1:C:111:PHE:HE2	1:C:113:LYS:CB	2.20	0.53
1:C:689:LYS:O	1:C:691:LYS:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:691:LYS:C	1:C:693:SER:H	2.11	0.53
1:C:1035:HIS:ND1	1:C:1035:HIS:N	2.56	0.53
1:C:1549:LYS:HD3	1:C:1667:PHE:CD2	2.44	0.53
1:C:1627:ILE:O	1:C:1629:TYR:N	2.42	0.53
2:D:456:PRO:HG3	2:D:515:ILE:HD11	1.91	0.53
2:D:1534:GLN:HG3	2:D:1535:ASP:OD2	2.09	0.53
3:X:166:ASP:HB2	3:X:207:LEU:HD21	1.90	0.53
1:A:687:ALA:O	1:A:690:TYR:HB3	2.08	0.52
1:A:689:LYS:HG2	1:A:699:CYS:SG	2.48	0.52
1:A:720:LEU:HD11	1:A:724:CYS:SG	2.49	0.52
1:A:804:ILE:HG22	1:A:809:ILE:CG1	2.37	0.52
1:A:967:LEU:HD13	1:A:1365:VAL:CG2	2.39	0.52
1:A:1097:GLN:HG3	1:A:1158:ILE:HG22	1.90	0.52
1:A:1112:GLN:NE2	1:A:1171:ALA:HB2	2.24	0.52
1:A:1226:ARG:CZ	1:A:1266:TYR:CE1	2.92	0.52
2:B:39:GLU:O	2:B:87:ILE:HD12	2.08	0.52
2:B:229:GLN:OE1	2:B:229:GLN:HA	2.09	0.52
2:B:357:GLY:HA3	2:B:404:LEU:HD12	1.91	0.52
2:B:780:LEU:HD11	2:B:787:TRP:CD1	2.43	0.52
2:B:1530:ARG:HG3	2:B:1530:ARG:HH11	1.74	0.52
2:B:1593:THR:HB	2:B:1596:LYS:O	2.09	0.52
2:B:1602:THR:C	2:B:1604:ASN:N	2.63	0.52
1:C:24:VAL:HA	1:C:655:THR:CG2	2.39	0.52
1:C:530:VAL:HG23	1:C:534:MET:CE	2.40	0.52
1:C:576:SER:CB	1:C:589:SER:H	2.22	0.52
1:C:658:ASN:C	1:C:658:ASN:OD1	2.47	0.52
1:C:906:GLY:O	1:C:908:HIS:NE2	2.42	0.52
1:C:1097:GLN:HG3	1:C:1158:ILE:HG22	1.90	0.52
1:C:1552:ALA:HB1	1:C:1585:TYR:OH	2.09	0.52
1:C:1644:TRP:O	1:C:1645:ILE:HD13	2.08	0.52
2:D:736:GLU:CD	2:D:737:ASP:H	2.13	0.52
2:D:941:GLN:HE21	2:D:943:GLU:HG2	1.74	0.52
3:Y:129:THR:HG22	3:Y:129:THR:O	2.09	0.52
1:A:680:GLN:HG3	1:A:681:LYS:H	1.75	0.52
1:A:920:LYS:NZ	2:B:842:GLU:CD	2.63	0.52
1:A:938:SER:C	1:A:940:SER:N	2.62	0.52
1:A:1152:ILE:HG21	1:A:1168:LEU:CD2	2.39	0.52
1:C:176:GLU:HB2	1:C:185:PHE:CE1	2.43	0.52
1:C:541:LEU:HD23	1:C:541:LEU:O	2.09	0.52
1:C:610:TYR:N	1:C:610:TYR:HD1	2.06	0.52
1:C:702:GLY:HA2	1:C:728:PHE:HE1	1.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1066:TYR:N	1:C:1066:TYR:CD1	2.77	0.52
1:C:1232:LEU:HG	1:C:1233:GLN:N	2.24	0.52
2:D:139:PRO:HG2	2:D:218:LYS:HE2	1.91	0.52
2:D:234:PHE:CE1	2:D:236:TYR:CE1	2.98	0.52
2:D:469:ASN:ND2	2:D:472:SER:H	2.07	0.52
2:D:481:TYR:O	2:D:481:TYR:CD2	2.52	0.52
2:D:1548:ILE:HG23	2:D:1635:LEU:HB2	1.92	0.52
3:Y:61:SER:O	3:Y:75:PHE:CZ	2.61	0.52
3:Y:217:ASN:HB2	3:Y:220:ASP:OD2	2.10	0.52
1:A:461:SER:C	1:A:463:SER:H	2.13	0.52
1:A:696:LYS:NZ	1:A:759:PRO:CD	2.65	0.52
1:A:742:ILE:CG2	1:A:753:HIS:HA	2.38	0.52
1:A:1076:THR:HG22	1:A:1120:GLU:HA	1.90	0.52
1:A:1082:ALA:O	1:A:1086:LEU:HD23	2.09	0.52
1:A:1381:ILE:O	1:A:1382:ASP:CB	2.57	0.52
2:B:476:ILE:O	2:B:476:ILE:HG23	2.08	0.52
2:B:929:LYS:NZ	2:B:1322:THR:OG1	2.43	0.52
1:C:24:VAL:O	1:C:24:VAL:HG12	2.09	0.52
1:C:44:TYR:CZ	1:C:497:THR:HG21	2.45	0.52
1:C:59:TYR:CE2	1:C:99:VAL:HG21	2.44	0.52
1:C:779:LEU:HD12	1:C:779:LEU:C	2.30	0.52
1:C:979:VAL:C	1:C:980:LYS:HG2	2.28	0.52
1:C:986:GLU:HG2	1:C:987:ILE:N	2.25	0.52
1:C:989:SER:O	1:C:993:SER:CB	2.57	0.52
1:C:1093:VAL:HG12	1:C:1093:VAL:O	2.08	0.52
2:D:1522:TYR:N	2:D:1522:TYR:CD2	2.76	0.52
2:D:1529:LEU:O	2:D:1577:VAL:HG13	2.10	0.52
3:X:43:ILE:HG23	3:X:44:ARG:N	2.25	0.52
1:A:577:PRO:CD	1:A:588:VAL:HG23	2.39	0.52
1:A:641:ASN:O	1:A:642:ASN:C	2.47	0.52
1:A:753:HIS:O	1:A:754:MET:CB	2.49	0.52
1:A:1559:TYR:CD1	1:A:1561:TYR:CE2	2.97	0.52
2:B:1595:ASP:N	2:B:1595:ASP:OD1	2.40	0.52
1:C:59:TYR:CE1	1:C:60:PRO:HG3	2.44	0.52
1:C:190:ILE:HG22	1:C:191:PRO:CD	2.39	0.52
1:C:238:ILE:HG23	1:C:242:ASN:HD22	1.75	0.52
1:C:577:PRO:HD2	1:C:588:VAL:HG23	1.92	0.52
1:C:645:VAL:HG12	1:C:646:PHE:N	2.22	0.52
1:C:1013:MET:HE3	1:C:1287:THR:HB	1.89	0.52
1:C:1130:GLN:NE2	1:C:1230:ASP:HB3	2.25	0.52
1:C:1641:SER:O	1:C:1642:LEU:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:316:ALA:HB3	2:D:333:GLN:HB3	1.90	0.52
2:D:598:ILE:HD12	2:D:800:ILE:HG21	1.92	0.52
2:D:963:ILE:CG1	2:D:1325:ILE:HG12	2.40	0.52
2:D:1284:ARG:CG	2:D:1285:GLU:N	2.72	0.52
3:X:87:LEU:HD12	3:X:210:GLU:HA	1.91	0.52
1:A:222:TYR:HE2	1:A:224:LEU:CA	2.22	0.52
1:A:239:GLY:O	1:A:241:LYS:N	2.43	0.52
1:A:512:PHE:O	1:A:512:PHE:HD2	1.93	0.52
1:A:837:GLU:O	1:A:901:LEU:HB2	2.10	0.52
1:A:1287:THR:OG1	1:A:1288:GLN:N	2.40	0.52
2:B:57:PHE:HD1	2:B:59:HIS:NE2	2.07	0.52
2:B:528:ASN:N	2:B:528:ASN:OD1	2.41	0.52
2:B:870:PHE:CD1	2:B:878:ARG:NH2	2.78	0.52
1:C:25:ILE:HB	1:C:654:LEU:HB2	1.90	0.52
1:C:396:ASP:HB3	1:C:398:ASN:H	1.74	0.52
1:C:421:VAL:HG23	2:D:507:ASN:ND2	2.24	0.52
1:C:599:TRP:NE1	1:C:779:LEU:HA	2.25	0.52
1:C:702:GLY:HA3	1:C:728:PHE:CD1	2.45	0.52
1:C:979:VAL:HG11	1:C:1326:TYR:HE1	1.74	0.52
1:C:993:SER:C	1:C:995:GLU:N	2.59	0.52
1:C:1279:ARG:HD3	1:C:1280:TYR:N	2.25	0.52
2:D:144:LEU:HD23	2:D:144:LEU:N	2.25	0.52
2:D:343:TYR:CE1	2:D:420:LEU:HD11	2.45	0.52
2:D:966:GLN:O	2:D:966:GLN:HG3	2.09	0.52
2:D:1292:ILE:HD12	2:D:1296:ASN:OD1	2.10	0.52
3:X:139:ASN:HD22	3:X:148:ALA:CB	2.22	0.52
1:A:161:LEU:HD11	1:A:185:PHE:CZ	2.45	0.52
1:A:610:TYR:N	1:A:610:TYR:HD1	2.08	0.52
1:A:1532:CYS:O	1:A:1641:SER:N	2.43	0.52
2:B:437:THR:HG23	2:B:444:TYR:CD1	2.45	0.52
2:B:1280:GLU:HB2	2:B:1312:THR:HB	1.91	0.52
2:B:1622:GLN:O	2:B:1625:CYS:HB2	2.10	0.52
1:C:125:PHE:CD1	1:C:627:LEU:HD21	2.45	0.52
1:C:500:ASN:O	1:C:542:VAL:HG13	2.09	0.52
1:C:544:TYR:C	1:C:544:TYR:CD2	2.83	0.52
1:C:934:VAL:CG1	1:C:935:LYS:N	2.73	0.52
1:C:1226:ARG:O	1:C:1270:VAL:HG22	2.09	0.52
2:D:175:SER:O	2:D:1299:LEU:HD12	2.09	0.52
2:D:351:PRO:N	2:D:611:ALA:HB3	2.24	0.52
2:D:481:TYR:HD2	2:D:481:TYR:C	2.12	0.52
2:D:484:LEU:HD11	2:D:626:LEU:HG	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:VAL:CA	1:A:655:THR:HG21	2.40	0.52
1:A:111:PHE:HE2	1:A:113:LYS:CB	2.23	0.52
1:A:161:LEU:HD11	1:A:185:PHE:CD2	2.44	0.52
1:A:396:ASP:HB3	1:A:398:ASN:HB2	1.92	0.52
1:A:543:TYR:CD1	1:A:543:TYR:C	2.81	0.52
1:A:934:VAL:CG1	1:A:935:LYS:N	2.73	0.52
1:A:1019:PHE:HD2	1:A:1020:TYR:N	2.07	0.52
1:A:1247:MET:O	1:A:1251:THR:HG23	2.10	0.52
1:A:1527:CYS:O	1:A:1528:VAL:C	2.48	0.52
2:B:1280:GLU:HG2	2:B:1287:PRO:CB	2.38	0.52
1:C:165:ASP:C	1:C:167:GLU:H	2.12	0.52
1:C:1496:TYR:CD2	1:C:1496:TYR:N	2.75	0.52
2:D:520:PHE:O	2:D:535:SER:HA	2.10	0.52
2:D:531:ILE:HD11	2:D:634:LEU:CD2	2.38	0.52
2:D:929:LYS:NZ	2:D:1322:THR:OG1	2.42	0.52
3:X:119:VAL:O	3:X:163:LYS:HD2	2.10	0.52
3:X:150:ILE:HD12	3:X:150:ILE:C	2.30	0.52
1:A:32:ARG:O	1:A:35:ALA:HB3	2.09	0.52
1:A:135:TYR:CE1	1:A:141:VAL:HG22	2.44	0.52
1:A:190:ILE:HD12	1:A:219:VAL:HG21	1.92	0.52
1:A:377:ASP:OD2	1:A:379:LEU:HB2	2.10	0.52
1:A:1161:LEU:HA	1:C:1102:ASN:ND2	2.21	0.52
1:A:1163:LYS:HE3	1:C:1109:GLU:HG2	1.92	0.52
1:A:1265:ASN:C	1:A:1267:VAL:H	2.12	0.52
2:B:216:VAL:O	2:B:216:VAL:CG1	2.57	0.52
2:B:452:THR:O	2:B:453:GLU:O	2.28	0.52
2:B:523:TYR:C	2:B:523:TYR:HD1	2.12	0.52
2:B:941:GLN:HE21	2:B:943:GLU:CG	2.22	0.52
1:C:135:TYR:CE1	1:C:141:VAL:HG22	2.45	0.52
1:C:171:VAL:CG1	1:C:1054:LEU:HD11	2.40	0.52
1:C:274:ASP:HA	1:C:322:TYR:CD2	2.45	0.52
1:C:1033:ILE:HG23	1:C:1034:PHE:N	2.24	0.52
2:D:965:ILE:HG13	2:D:1301:ARG:CB	2.31	0.52
2:D:1602:THR:C	2:D:1604:ASN:N	2.63	0.52
3:Y:103:VAL:HG22	3:Y:122:VAL:HG22	1.91	0.52
2:B:476:ILE:CG2	2:B:497:ARG:HD3	2.39	0.52
2:B:1450:PHE:HD1	2:B:1451:ILE:N	2.08	0.52
1:C:825:LEU:HG	1:C:826:GLU:N	2.25	0.52
1:C:968:VAL:HG22	1:C:1366:HIS:O	2.10	0.52
2:D:433:ILE:CG2	2:D:434:ALA:N	2.72	0.52
2:D:800:ILE:HG23	2:D:801:CYS:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:887:LEU:HD23	2:D:1490:CYS:HB3	1.91	0.52
2:D:1500:LEU:HD12	2:D:1501:ASN:N	2.20	0.52
2:D:1539:ILE:HG23	2:D:1564:ILE:HG12	1.91	0.52
3:X:103:VAL:HG22	3:X:122:VAL:HG22	1.91	0.52
3:Y:61:SER:O	3:Y:75:PHE:HZ	1.92	0.52
3:Y:119:VAL:O	3:Y:163:LYS:HD2	2.10	0.52
1:A:113:LYS:HE2	1:A:654:LEU:O	2.10	0.52
1:A:222:TYR:CD1	1:A:768:TYR:HB2	2.42	0.52
1:A:645:VAL:HG12	1:A:646:PHE:N	2.24	0.52
2:B:283:ILE:HD12	2:B:283:ILE:N	2.25	0.52
2:B:437:THR:HG21	2:B:443:ASN:N	2.25	0.52
2:B:1503:GLN:NE2	2:B:1506:ILE:HG12	2.25	0.52
2:B:1593:THR:HG22	2:B:1594:LYS:H	1.73	0.52
1:C:120:THR:HG22	1:C:121:TYR:N	2.24	0.52
1:C:180:ILE:CB	1:C:599:TRP:CE3	2.93	0.52
1:C:1098:ASN:O	1:C:1101:CYS:HB2	2.10	0.52
1:C:1408:TYR:CE2	1:C:1410:PRO:HA	2.44	0.52
1:C:1431:GLY:HA2	1:C:1483:PHE:CE1	2.45	0.52
2:D:558:MET:O	2:D:561:ALA:HB3	2.10	0.52
2:D:1530:ARG:HG3	2:D:1530:ARG:NH1	2.25	0.52
3:X:86:LEU:HG	3:X:91:LYS:HG3	1.92	0.52
1:A:234:GLU:HB3	1:A:246:PHE:HE1	1.74	0.51
1:A:1013:MET:HE3	1:A:1287:THR:HB	1.91	0.51
1:A:1021:VAL:HG12	1:A:1022:PHE:N	2.26	0.51
1:A:1199:ASP:C	1:A:1201:THR:H	2.13	0.51
1:A:1298:THR:O	1:A:1299:GLU:C	2.49	0.51
1:A:1385:ASP:O	1:A:1386:ILE:HB	2.09	0.51
1:A:1581:LEU:HD12	1:A:1592:ALA:HB1	1.90	0.51
1:A:1612:VAL:HG23	1:A:1617:TYR:OH	2.10	0.51
1:A:1640:ASP:O	1:A:1643:THR:HB	2.11	0.51
2:B:1351:ASN:O	2:B:1352:ILE:HG12	2.09	0.51
2:B:1381:ILE:HB	2:B:1459:TYR:CD1	2.44	0.51
1:C:40:VAL:CG2	1:C:41:ILE:N	2.73	0.51
1:C:78:LYS:HZ1	3:Y:144:GLU:HA	1.70	0.51
1:C:219:VAL:O	1:C:219:VAL:HG12	2.10	0.51
1:C:436:LYS:HB2	1:C:449:ARG:CG	2.41	0.51
1:C:914:LEU:HD11	1:C:916:THR:HG22	1.92	0.51
1:C:950:TYR:CE2	1:C:1356:LEU:HD11	2.46	0.51
1:C:1226:ARG:NE	1:C:1266:TYR:HE1	2.08	0.51
1:C:1385:ASP:O	1:C:1386:ILE:HB	2.09	0.51
1:C:1559:TYR:HH	1:C:1591:VAL:HA	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:216:VAL:O	2:D:216:VAL:CG1	2.58	0.51
2:D:437:THR:HG21	2:D:443:ASN:N	2.25	0.51
2:D:469:ASN:CB	2:D:472:SER:HB2	2.40	0.51
2:D:519:ARG:NH1	2:D:606:ASP:OD2	2.44	0.51
2:D:756:LEU:HD12	2:D:758:LEU:HG	1.92	0.51
2:D:1595:ASP:N	2:D:1595:ASP:OD1	2.40	0.51
3:Y:43:ILE:HG23	3:Y:44:ARG:N	2.23	0.51
1:A:120:THR:HG22	1:A:121:TYR:N	2.24	0.51
1:A:949:ILE:HG22	1:A:949:ILE:O	2.09	0.51
1:A:976:ILE:HB	1:A:1362:THR:HG22	1.92	0.51
1:A:1093:VAL:HG12	1:A:1095:GLN:HE21	1.74	0.51
1:A:1534:GLN:HA	1:A:1608:ASN:HD22	1.75	0.51
1:A:1540:ASP:N	1:A:1660:PHE:CD1	2.78	0.51
2:B:948:ARG:HB2	2:B:948:ARG:NH2	2.23	0.51
2:B:1275:LEU:HD21	2:B:1319:GLY:O	2.10	0.51
1:C:287:MET:HG2	1:C:299:VAL:HG21	1.92	0.51
1:C:472:ASN:O	1:C:473:HIS:CB	2.57	0.51
1:C:525:SER:H	2:D:401:ASN:ND2	2.06	0.51
1:C:1227:PHE:CD1	1:C:1227:PHE:C	2.84	0.51
2:D:87:ILE:H	2:D:87:ILE:HD12	1.75	0.51
2:D:481:TYR:CD2	2:D:481:TYR:C	2.84	0.51
2:D:523:TYR:C	2:D:523:TYR:HD1	2.14	0.51
2:D:1466:GLU:OE1	2:D:1466:GLU:HA	2.10	0.51
3:Y:77:PRO:O	3:Y:78:LYS:HB3	2.10	0.51
3:Y:187:GLY:C	3:Y:203:LEU:HD12	2.31	0.51
1:A:148:LEU:HG	1:A:153:LYS:O	2.10	0.51
1:A:351:PRO:HG3	1:A:442:LEU:HD11	1.92	0.51
1:A:365:PRO:HG2	1:A:464:TYR:CE2	2.46	0.51
1:A:693:SER:C	1:A:695:VAL:N	2.63	0.51
1:A:698:CYS:HB3	1:A:728:PHE:HB2	1.92	0.51
1:A:985:GLY:O	1:A:986:GLU:C	2.49	0.51
1:A:1560:ALA:O	1:A:1561:TYR:HD2	1.92	0.51
2:B:188:LEU:HD13	2:B:216:VAL:HG21	1.93	0.51
2:B:745:ILE:HG13	2:B:906:SER:HB2	1.91	0.51
2:B:745:ILE:CG2	2:B:897:LYS:HD3	2.40	0.51
2:B:1390:PHE:CD1	2:B:1442:ILE:HG13	2.44	0.51
1:C:72:HIS:C	1:C:72:HIS:CD2	2.83	0.51
1:C:161:LEU:HD11	1:C:185:PHE:CD2	2.45	0.51
1:C:465:LEU:HD11	1:C:486:VAL:HG13	1.93	0.51
1:C:689:LYS:HG2	1:C:699:CYS:SG	2.51	0.51
1:C:1017:PRO:O	1:C:1018:VAL:C	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1279:ARG:NH1	1:C:1280:TYR:CD2	2.78	0.51
2:D:239:GLY:N	2:D:296:ARG:NH2	2.59	0.51
2:D:276:ILE:O	2:D:277:PRO:C	2.47	0.51
2:D:946:LYS:HA	2:D:1310:ASP:OD1	2.10	0.51
2:D:1581:TYR:HD1	2:D:1608:GLU:O	1.93	0.51
3:X:146:LEU:HD22	3:X:146:LEU:C	2.31	0.51
3:Y:119:VAL:HG21	3:Y:209:PHE:HB3	1.92	0.51
1:A:154:PRO:O	1:A:155:ALA:HB3	2.10	0.51
1:A:274:ASP:CG	1:A:275:LEU:H	2.14	0.51
1:A:936:ARG:NH2	1:A:1284:PHE:HE1	2.08	0.51
1:A:1188:LEU:HD23	1:A:1212:LEU:CD1	2.41	0.51
2:B:58:VAL:HG12	2:B:104:VAL:CG2	2.40	0.51
2:B:563:MET:CG	2:B:780:LEU:HD23	2.30	0.51
2:B:565:ILE:O	2:B:776:MET:HB3	2.11	0.51
2:B:952:ASP:O	2:B:1331:ALA:HA	2.10	0.51
2:B:1343:PHE:CD1	2:B:1458:VAL:HG11	2.46	0.51
2:B:1514:LYS:O	2:B:1517:GLU:HB2	2.09	0.51
1:C:698:CYS:C	1:C:700:TYR:N	2.62	0.51
1:C:1229:LYS:HZ3	1:C:1240:PRO:HD2	1.74	0.51
2:D:89:ILE:HD11	2:D:104:VAL:HG11	1.92	0.51
2:D:342:PRO:HG2	2:D:420:LEU:CD1	2.41	0.51
2:D:746:ILE:HD13	2:D:746:ILE:N	2.25	0.51
2:D:1274:ASN:OD1	2:D:1291:ARG:NH2	2.42	0.51
2:D:1381:ILE:CG2	2:D:1459:TYR:CE1	2.93	0.51
2:D:1438:LEU:O	2:D:1438:LEU:HD13	2.11	0.51
3:X:113:ASN:ND2	3:X:115:ARG:NH1	2.58	0.51
1:A:165:ASP:HB2	1:A:166:PRO:CD	2.40	0.51
1:A:180:ILE:O	1:A:182:ILE:N	2.44	0.51
1:A:472:ASN:O	1:A:473:HIS:CB	2.58	0.51
1:A:584:PRO:CB	1:A:792:ASP:HA	2.37	0.51
1:A:656:ASN:CB	1:A:659:ALA:H	2.23	0.51
2:B:204:GLU:O	2:B:205:HIS:HB2	2.10	0.51
2:B:1273:LEU:CB	2:B:1319:GLY:HA3	2.35	0.51
2:B:1330:ASN:N	2:B:1330:ASN:ND2	2.58	0.51
2:B:1381:ILE:CG2	2:B:1459:TYR:CE1	2.94	0.51
2:B:1391:LEU:HB2	2:B:1417:MET:HE2	1.93	0.51
2:B:1561:HIS:CD2	2:B:1597:ILE:HD13	2.46	0.51
1:C:511:HIS:HE1	3:Y:149:SER:OG	1.92	0.51
1:C:1124:TYR:CA	1:C:1465:ASN:OD1	2.50	0.51
1:C:1188:LEU:HD23	1:C:1212:LEU:HA	1.92	0.51
1:C:1327:LYS:HG3	1:C:1328:MET:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:69:PHE:C	2:D:69:PHE:HD2	2.14	0.51
2:D:122:SER:OG	2:D:124:GLN:HB3	2.11	0.51
2:D:231:SER:HB3	2:D:244:HIS:HB2	1.91	0.51
3:X:194:LYS:NZ	3:X:197:ASN:HD22	2.08	0.51
1:A:40:VAL:CG2	1:A:512:PHE:CD1	2.92	0.51
1:A:193:ASN:OD1	1:A:1070:LYS:HE2	2.11	0.51
1:A:552:ALA:CB	1:A:657:ALA:HB3	2.39	0.51
1:A:625:GLN:O	1:A:628:GLU:HB3	2.11	0.51
1:A:875:HIS:HB3	2:B:901:GLN:HE22	1.74	0.51
1:A:914:LEU:HD11	1:A:916:THR:HG22	1.93	0.51
1:A:1084:ARG:HG2	1:A:1084:ARG:HH11	1.75	0.51
1:A:1217:LEU:HD13	1:A:1237:SER:HA	1.93	0.51
1:A:1234:HIS:O	1:A:1235:LYS:HB2	2.10	0.51
2:B:46:HIS:CG	2:B:525:GLN:HG2	2.45	0.51
2:B:353:TYR:HA	2:B:433:ILE:O	2.11	0.51
2:B:573:ALA:HB3	2:B:762:LEU:HD13	1.93	0.51
2:B:1530:ARG:HG3	2:B:1530:ARG:NH1	2.26	0.51
1:C:20:GLU:C	1:C:21:GLN:CG	2.77	0.51
1:C:59:TYR:CD2	1:C:99:VAL:HG21	2.46	0.51
1:C:111:PHE:CG	1:C:112:SER:N	2.78	0.51
1:C:492:TYR:CE2	1:C:493:ILE:HB	2.46	0.51
1:C:827:MET:HE2	1:C:912:PHE:CE2	2.46	0.51
1:C:1031:TRP:CH2	1:C:1042:LYS:HG3	2.45	0.51
1:C:1440:LYS:O	1:C:1444:GLU:HG3	2.11	0.51
1:C:1544:SER:HA	1:C:1547:THR:OG1	2.11	0.51
2:D:189:PRO:C	2:D:191:LEU:H	2.12	0.51
2:D:795:THR:CG2	2:D:796:PRO:HD2	2.39	0.51
2:D:847:ARG:O	2:D:898:ALA:HA	2.10	0.51
2:D:1351:ASN:O	2:D:1352:ILE:HG12	2.10	0.51
3:X:88:GLY:O	3:X:91:LYS:N	2.38	0.51
1:A:33:VAL:CG2	1:A:121:TYR:HD1	2.23	0.51
1:A:257:ASN:ND2	1:A:892:SER:O	2.43	0.51
1:A:361:LEU:HD21	1:A:452:TYR:HB3	1.92	0.51
1:A:459:SER:HG	1:A:461:SER:HB3	1.74	0.51
1:A:689:LYS:HD3	1:A:730:GLU:OE2	2.11	0.51
1:A:1133:LEU:CD1	1:A:1133:LEU:N	2.71	0.51
1:A:1552:ALA:HB2	1:A:1620:MET:HE1	1.93	0.51
1:A:1601:ILE:O	1:A:1638:PRO:O	2.29	0.51
2:B:343:TYR:CE1	2:B:420:LEU:HD11	2.45	0.51
2:B:870:PHE:HB2	2:B:871:PRO:CD	2.41	0.51
1:C:199:TRP:HB2	1:C:217:PHE:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:958:GLU:HA	1:C:1346:LEU:O	2.10	0.51
1:C:974:LYS:O	1:C:1364:VAL:HG12	2.11	0.51
1:C:1554:LYS:HG3	1:C:1555:PRO:HD2	1.93	0.51
1:C:1571:GLU:O	1:C:1574:PHE:CD2	2.64	0.51
2:D:603:GLU:C	2:D:605:SER:H	2.14	0.51
2:D:902:GLU:HG3	2:D:902:GLU:O	2.11	0.51
2:D:1482:ASN:H	2:D:1495:GLU:HG2	1.76	0.51
2:D:1548:ILE:CG2	2:D:1635:LEU:HB3	2.40	0.51
1:A:59:TYR:CD2	1:A:99:VAL:HG21	2.46	0.51
1:A:473:HIS:O	1:A:473:HIS:HD2	1.90	0.51
1:A:849:ARG:HH21	2:B:556:ILE:HD12	1.76	0.51
1:A:974:LYS:O	1:A:1364:VAL:HG12	2.11	0.51
1:A:1085:VAL:O	1:A:1089:VAL:HG23	2.10	0.51
1:A:1304:VAL:CG1	1:A:1305:LYS:H	2.23	0.51
1:A:1527:CYS:C	1:A:1529:GLU:N	2.64	0.51
1:A:1536:GLN:HG3	1:A:1536:GLN:O	2.10	0.51
2:B:89:ILE:HD11	2:B:104:VAL:HG11	1.93	0.51
2:B:745:ILE:HD11	2:B:907:ASP:H	1.75	0.51
2:B:862:LYS:HZ2	2:B:1519:ASN:HB3	1.75	0.51
2:B:1386:MET:HA	2:B:1386:MET:CE	2.40	0.51
1:C:123:ASN:C	1:C:123:ASN:OD1	2.49	0.51
1:C:396:ASP:HB3	1:C:398:ASN:HB2	1.92	0.51
1:C:513:GLY:CA	3:Y:146:LEU:HD13	2.41	0.51
1:C:804:ILE:CG2	1:C:809:ILE:HG13	2.38	0.51
1:C:847:ASN:ND2	1:C:853:MET:HB3	2.26	0.51
1:C:1323:LEU:CG	1:C:1324:HIS:H	2.24	0.51
1:C:1564:SER:CB	1:C:1616:GLN:HG3	2.41	0.51
1:C:1615:ARG:HD2	1:C:1647:TYR:CD1	2.45	0.51
3:X:88:GLY:C	3:X:90:ASP:H	2.14	0.51
1:A:95:GLY:O	1:A:96:GLN:O	2.29	0.51
1:A:238:ILE:HG23	1:A:242:ASN:HD22	1.75	0.51
1:A:569:ASN:CG	1:A:570:GLN:H	2.15	0.51
1:A:573:VAL:O	1:A:574:HIS:ND1	2.44	0.51
1:A:945:ASP:C	1:A:945:ASP:OD1	2.47	0.51
1:A:1240:PRO:O	1:A:1242:THR:N	2.43	0.51
1:A:1430:THR:O	1:A:1485:VAL:HG11	2.10	0.51
2:B:280:LEU:HD11	2:B:1379:MET:HG3	1.93	0.51
2:B:1387:LEU:HD21	2:B:1472:TYR:CE1	2.46	0.51
2:B:1457:LYS:HG2	2:B:1469:THR:OG1	2.10	0.51
1:C:62:LYS:HE2	1:C:103:TYR:CE2	2.45	0.51
1:C:477:LEU:HD22	1:C:477:LEU:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:961:TYR:CD1	1:C:961:TYR:C	2.83	0.51
1:C:1619:ILE:HG12	1:C:1645:ILE:HD13	1.93	0.51
2:D:243:PHE:CD1	2:D:314:LEU:HD23	2.43	0.51
2:D:746:ILE:HD13	2:D:746:ILE:H	1.76	0.51
2:D:1538:ASP:OD2	2:D:1567:ARG:HD2	2.11	0.51
2:D:1562:GLN:HE22	2:D:1596:LYS:HZ1	1.57	0.51
2:D:1562:GLN:NE2	2:D:1596:LYS:NZ	2.56	0.51
3:X:106:VAL:HG22	3:X:163:LYS:HE3	1.93	0.51
3:Y:166:ASP:OD2	3:Y:207:LEU:CD2	2.59	0.51
1:A:697:LYS:O	1:A:700:TYR:HB3	2.10	0.51
1:A:977:LEU:HD23	1:A:1361:VAL:HG22	1.93	0.51
1:A:1033:ILE:HG23	1:A:1034:PHE:H	1.75	0.51
1:A:1232:LEU:CG	1:A:1233:GLN:HG3	2.37	0.51
2:B:54:LEU:HD23	2:B:54:LEU:N	2.26	0.51
2:B:204:GLU:O	2:B:204:GLU:HG3	2.10	0.51
2:B:902:GLU:HG3	2:B:902:GLU:O	2.11	0.51
2:B:962:LYS:HD2	2:B:1302:THR:HG21	1.91	0.51
2:B:1526:THR:HA	2:B:1545:LEU:HD13	1.92	0.51
1:C:459:SER:HG	1:C:461:SER:HB3	1.75	0.51
1:C:530:VAL:CG2	1:C:563:ILE:HD12	2.40	0.51
1:C:698:CYS:HB3	1:C:728:PHE:HB2	1.93	0.51
1:C:1031:TRP:CZ3	1:C:1042:LYS:HA	2.46	0.51
1:C:1093:VAL:HG12	1:C:1095:GLN:HE21	1.76	0.51
1:C:1240:PRO:O	1:C:1242:THR:N	2.44	0.51
1:C:1242:THR:OG1	1:C:1243:GLY:N	2.43	0.51
1:C:1421:HIS:C	1:C:1421:HIS:CD2	2.83	0.51
1:C:1569:THR:O	1:C:1570:VAL:CG2	2.59	0.51
3:X:107:GLN:OE1	3:X:110:ILE:HD11	2.10	0.51
3:X:166:ASP:OD2	3:X:207:LEU:CD2	2.57	0.51
3:Y:113:ASN:ND2	3:Y:115:ARG:NH1	2.59	0.51
1:A:220:LYS:HD3	1:A:765:ILE:HG23	1.93	0.50
1:A:614:ARG:HD2	1:A:614:ARG:N	2.26	0.50
2:B:134:LYS:HD2	2:B:584:VAL:HG11	1.93	0.50
2:B:265:PHE:O	2:B:276:ILE:HG13	2.11	0.50
2:B:351:PRO:N	2:B:611:ALA:HB3	2.26	0.50
2:B:923:SER:HB3	2:B:1328:PHE:CE1	2.47	0.50
2:B:1284:ARG:HG3	2:B:1285:GLU:N	2.26	0.50
1:C:23:TYR:CD1	1:C:655:THR:CB	2.89	0.50
1:C:1099:SER:O	1:C:1100:ILE:C	2.47	0.50
1:C:1648:TRP:NE1	1:C:1664:LEU:HD21	2.25	0.50
2:D:410:PRO:CA	2:D:431:THR:HG22	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1343:PHE:CG	2:D:1458:VAL:HG11	2.46	0.50
2:D:1600:ILE:HG13	2:D:1600:ILE:O	2.11	0.50
2:D:1600:ILE:O	2:D:1602:THR:HG23	2.11	0.50
1:A:25:ILE:HG13	1:A:106:VAL:HG21	1.92	0.50
1:A:78:LYS:HZ2	3:X:144:GLU:HA	1.71	0.50
1:A:375:VAL:O	1:A:383:VAL:HG13	2.11	0.50
1:A:415:ASP:OD1	1:A:415:ASP:N	2.44	0.50
1:A:496:ILE:O	1:A:496:ILE:HG22	2.10	0.50
1:A:541:LEU:HD23	1:A:541:LEU:O	2.10	0.50
1:A:689:LYS:O	1:A:691:LYS:N	2.43	0.50
1:A:698:CYS:C	1:A:700:TYR:N	2.63	0.50
1:A:1245:ALA:HB2	1:A:1285:TYR:HB3	1.93	0.50
1:A:1327:LYS:HG3	1:A:1328:MET:H	1.75	0.50
2:B:285:ILE:HD12	2:B:285:ILE:H	1.74	0.50
2:B:1330:ASN:N	2:B:1330:ASN:HD22	2.09	0.50
1:C:365:PRO:HG2	1:C:464:TYR:CE2	2.47	0.50
1:C:1565:ILE:HB	1:C:1614:GLY:H	1.76	0.50
1:C:1622:LYS:CD	1:C:1642:LEU:HB3	2.40	0.50
2:D:44:GLU:OE1	2:D:480:THR:HG21	2.11	0.50
2:D:208:GLU:OE1	2:D:210:TYR:HB2	2.11	0.50
2:D:236:TYR:CE1	2:D:424:ARG:HD2	2.45	0.50
2:D:1343:PHE:CD1	2:D:1458:VAL:HG11	2.46	0.50
2:D:1624:LEU:O	2:D:1625:CYS:C	2.50	0.50
3:X:41:HIS:O	3:X:42:ASP:CB	2.58	0.50
3:X:85:PHE:N	3:X:85:PHE:CD1	2.78	0.50
1:A:395:ILE:CG1	1:A:430:VAL:HB	2.42	0.50
1:A:470:THR:CG2	2:B:450:THR:HG22	2.29	0.50
1:A:1064:TYR:HD2	1:A:1102:ASN:CB	2.25	0.50
1:A:1226:ARG:NE	1:A:1266:TYR:HE1	2.08	0.50
1:A:1227:PHE:HB2	1:A:1251:THR:HG21	1.92	0.50
1:A:1643:THR:CG2	1:A:1644:TRP:N	2.73	0.50
2:B:164:GLU:HA	2:B:174:SER:O	2.10	0.50
1:C:54:ILE:HG12	1:C:106:VAL:HG13	1.92	0.50
1:C:149:ASN:O	1:C:151:ASP:N	2.44	0.50
1:C:180:ILE:O	1:C:182:ILE:N	2.45	0.50
1:C:784:LYS:HG2	1:C:785:GLN:H	1.75	0.50
1:C:804:ILE:HG22	1:C:809:ILE:CG1	2.39	0.50
1:C:864:GLY:HA3	1:C:907:LEU:HD22	1.92	0.50
1:C:1064:TYR:HD2	1:C:1102:ASN:CB	2.24	0.50
1:C:1153:ARG:CZ	1:C:1168:LEU:HD12	2.42	0.50
1:C:1226:ARG:NE	1:C:1266:TYR:CE1	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1474:CYS:HB3	1:C:1476:ARG:NH1	2.26	0.50
1:C:1602:LYS:HE3	1:C:1609:ALA:O	2.11	0.50
1:C:1640:ASP:O	1:C:1643:THR:HB	2.12	0.50
2:D:45:ALA:HB3	2:D:81:MET:HE3	1.93	0.50
2:D:620:VAL:HG12	2:D:621:PHE:N	2.26	0.50
2:D:962:LYS:HD2	2:D:1302:THR:HG21	1.92	0.50
2:D:1288:ILE:HD13	2:D:1303:VAL:HG21	1.92	0.50
2:D:1438:LEU:HD22	2:D:1439:HIS:N	2.26	0.50
3:X:43:ILE:O	3:X:44:ARG:C	2.48	0.50
3:Y:58:SER:HB3	3:Y:102:ASN:HD22	1.72	0.50
1:A:124:GLY:C	1:A:125:PHE:CG	2.84	0.50
1:A:481:HIS:ND1	1:A:529:PRO:HB3	2.26	0.50
1:A:987:ILE:HD11	1:A:1294:ILE:HG23	1.91	0.50
1:A:1130:GLN:NE2	1:A:1230:ASP:HB3	2.26	0.50
2:B:40:GLN:HG3	2:B:86:THR:HG23	1.93	0.50
2:B:503:LEU:HD23	2:B:503:LEU:C	2.32	0.50
2:B:575:VAL:O	2:B:759:THR:HA	2.12	0.50
2:B:942:LEU:HD13	2:B:1314:THR:HG23	1.92	0.50
1:C:134:VAL:C	1:C:135:TYR:CD2	2.85	0.50
1:C:239:GLY:O	1:C:241:LYS:N	2.44	0.50
1:C:274:ASP:CG	1:C:275:LEU:H	2.15	0.50
1:C:396:ASP:HB2	1:C:400:GLU:H	1.75	0.50
1:C:670:LYS:HD2	1:C:671:GLU:H	1.76	0.50
1:C:923:LEU:HD23	1:C:924:VAL:N	2.26	0.50
1:C:1320:LYS:CD	1:C:1321:GLY:N	2.72	0.50
1:C:1408:TYR:O	1:C:1410:PRO:HD3	2.11	0.50
2:D:565:ILE:HG22	2:D:806:TYR:HE2	1.77	0.50
2:D:1427:LEU:HD13	2:D:1427:LEU:N	2.26	0.50
3:X:61:SER:N	3:X:75:PHE:HZ	2.09	0.50
1:A:396:ASP:HB3	1:A:398:ASN:H	1.76	0.50
1:A:577:PRO:HD2	1:A:588:VAL:HG23	1.93	0.50
1:A:796:THR:HA	1:A:818:LYS:HA	1.93	0.50
1:A:958:GLU:HA	1:A:1346:LEU:O	2.12	0.50
1:A:1179:THR:HG22	1:A:1180:LEU:HD23	1.94	0.50
1:A:1540:ASP:HA	1:A:1660:PHE:HD1	1.76	0.50
2:B:484:LEU:HD11	2:B:626:LEU:HG	1.93	0.50
2:B:1438:LEU:HD22	2:B:1439:HIS:N	2.26	0.50
2:B:1589:ASP:HB3	2:B:1600:ILE:HG13	1.94	0.50
2:B:1600:ILE:O	2:B:1602:THR:HG23	2.11	0.50
1:C:243:PHE:CE2	1:C:304:GLU:HA	2.45	0.50
1:C:851:SER:O	1:C:890:GLY:HA2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:902:PRO:O	1:C:903:LEU:HD13	2.10	0.50
1:C:1456:LYS:HG3	1:C:1457:ASP:OD2	2.11	0.50
1:C:1549:LYS:HD3	1:C:1667:PHE:CG	2.47	0.50
2:D:54:LEU:N	2:D:54:LEU:HD23	2.25	0.50
2:D:204:GLU:O	2:D:204:GLU:HG3	2.12	0.50
2:D:745:ILE:HD11	2:D:907:ASP:N	2.26	0.50
3:X:85:PHE:N	3:X:85:PHE:HD1	2.10	0.50
1:A:163:PHE:CE2	1:A:188:PHE:CD1	2.99	0.50
1:A:492:TYR:CD2	1:A:493:ILE:HB	2.46	0.50
1:A:691:LYS:C	1:A:693:SER:H	2.12	0.50
1:A:691:LYS:C	1:A:693:SER:N	2.65	0.50
1:A:1066:TYR:N	1:A:1066:TYR:CD1	2.80	0.50
1:A:1383:THR:HG21	1:A:1511:THR:HG22	1.93	0.50
1:A:1548:ARG:HE	1:A:1550:GLN:NE2	2.09	0.50
1:A:1576:LYS:CG	1:A:1601:ILE:HG22	2.33	0.50
2:B:558:MET:O	2:B:561:ALA:HB3	2.11	0.50
2:B:887:LEU:HD23	2:B:1490:CYS:HB3	1.92	0.50
2:B:946:LYS:CD	2:B:946:LYS:H	2.23	0.50
2:B:1343:PHE:CG	2:B:1458:VAL:HG11	2.46	0.50
1:C:95:GLY:O	1:C:96:GLN:O	2.30	0.50
1:C:316:GLU:HG2	1:C:349:LEU:HD23	1.94	0.50
1:C:539:ARG:NE	1:C:633:GLY:HA3	2.27	0.50
1:C:691:LYS:C	1:C:693:SER:N	2.64	0.50
1:C:837:GLU:O	1:C:901:LEU:HB2	2.11	0.50
1:C:856:CYS:HB3	1:C:915:GLU:HG2	1.94	0.50
1:C:1056:ILE:O	1:C:1056:ILE:HG12	2.10	0.50
1:C:1433:SER:OG	1:C:1482:LEU:HD12	2.11	0.50
2:D:357:GLY:HA3	2:D:404:LEU:HD12	1.94	0.50
2:D:415:THR:O	2:D:425:GLN:CD	2.50	0.50
2:D:846:VAL:HG22	2:D:847:ARG:N	2.26	0.50
2:D:1610:TRP:CE3	2:D:1628:PHE:CE2	3.00	0.50
1:A:1408:TYR:O	1:A:1410:PRO:HD3	2.12	0.50
2:B:338:ILE:C	2:B:339:VAL:HG13	2.32	0.50
2:B:362:LEU:HD13	2:B:411:ILE:HD12	1.94	0.50
2:B:1346:ASN:HB2	2:B:1368:CYS:HB2	1.93	0.50
1:C:544:TYR:C	1:C:544:TYR:HD2	2.15	0.50
1:C:614:ARG:HD2	1:C:614:ARG:N	2.26	0.50
1:C:661:ASP:OD2	1:C:663:GLN:N	2.45	0.50
1:C:911:ASN:OD1	1:C:924:VAL:HG22	2.12	0.50
1:C:985:GLY:O	1:C:986:GLU:C	2.50	0.50
1:C:1021:VAL:HG12	1:C:1022:PHE:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1084:ARG:HA	1:C:1151:GLY:HA2	1.94	0.50
1:C:1365:VAL:CG2	1:C:1366:HIS:H	2.18	0.50
1:C:1430:THR:O	1:C:1485:VAL:HG11	2.11	0.50
2:D:476:ILE:HG12	2:D:524:TYR:CD2	2.47	0.50
2:D:565:ILE:O	2:D:776:MET:HB3	2.11	0.50
2:D:1290:TYR:CD2	2:D:1301:ARG:HB3	2.46	0.50
2:D:1593:THR:HG22	2:D:1594:LYS:H	1.72	0.50
2:D:1623:LYS:HZ2	2:D:1623:LYS:HB3	1.77	0.50
3:X:229:ASN:N	3:X:229:ASN:OD1	2.45	0.50
1:A:23:TYR:O	1:A:655:THR:HB	2.12	0.50
1:A:199:TRP:HB2	1:A:217:PHE:CD1	2.47	0.50
1:A:234:GLU:HB3	1:A:246:PHE:CE1	2.47	0.50
1:A:530:VAL:HG23	1:A:534:MET:CE	2.39	0.50
1:A:950:TYR:HD1	1:A:1268:ASN:OD1	1.94	0.50
1:A:1147:PHE:C	1:A:1147:PHE:CD2	2.85	0.50
1:A:1347:ILE:O	1:A:1347:ILE:CG2	2.60	0.50
2:B:206:SER:O	2:B:208:GLU:N	2.45	0.50
2:B:208:GLU:OE1	2:B:210:TYR:HB2	2.12	0.50
2:B:857:CYS:HB3	2:B:885:VAL:HG22	1.93	0.50
2:B:1292:ILE:CD1	2:B:1301:ARG:HE	2.24	0.50
1:C:32:ARG:O	1:C:35:ALA:HB3	2.12	0.50
1:C:33:VAL:HG23	1:C:120:THR:O	2.11	0.50
1:C:78:LYS:HG3	3:Y:146:LEU:HB2	1.92	0.50
1:C:523:TYR:CE1	2:D:359:PRO:CG	2.93	0.50
1:C:1033:ILE:HD13	1:C:1034:PHE:CE1	2.47	0.50
1:C:1245:ALA:HB2	1:C:1285:TYR:HB3	1.94	0.50
2:D:46:HIS:CG	2:D:525:GLN:HG2	2.46	0.50
2:D:780:LEU:HD11	2:D:787:TRP:CD1	2.47	0.50
2:D:952:ASP:OD1	2:D:952:ASP:N	2.31	0.50
3:Y:107:GLN:CD	3:Y:110:ILE:HD11	2.32	0.50
3:Y:166:ASP:OD2	3:Y:207:LEU:CG	2.58	0.50
1:A:24:VAL:HA	1:A:655:THR:CB	2.42	0.50
1:A:155:ALA:O	1:A:157:ARG:N	2.45	0.50
1:A:236:ASN:HD22	1:A:379:LEU:HD21	1.76	0.50
1:A:612:VAL:HG21	1:A:769:PHE:CE2	2.46	0.50
1:A:916:THR:C	1:A:918:PHE:H	2.15	0.50
1:A:1012:LEU:HD22	1:A:1085:VAL:CG2	2.25	0.50
1:A:1370:THR:O	1:A:1371:SER:C	2.49	0.50
1:A:1540:ASP:CA	1:A:1660:PHE:HD1	2.25	0.50
1:A:1563:VAL:HA	1:A:1582:LEU:H	1.77	0.50
1:A:1582:LEU:O	1:A:1583:ASP:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1616:GLN:OE1	1:A:1650:ARG:HB3	2.12	0.50
2:B:881:PRO:O	2:B:882:PHE:CD2	2.65	0.50
2:B:1427:LEU:HD13	2:B:1427:LEU:N	2.27	0.50
2:B:1601:ILE:HD12	2:B:1601:ILE:H	1.76	0.50
2:B:1609:ARG:HG2	2:B:1609:ARG:NH1	2.25	0.50
1:C:74:SER:HA	1:C:79:PHE:HE1	1.77	0.50
1:C:1240:PRO:C	1:C:1242:THR:N	2.65	0.50
1:C:1263:ASP:O	1:C:1265:ASN:N	2.45	0.50
1:C:1582:LEU:O	1:C:1583:ASP:C	2.50	0.50
2:D:1381:ILE:HB	2:D:1459:TYR:HD1	1.77	0.50
3:X:61:SER:O	3:X:75:PHE:CZ	2.65	0.50
3:Y:103:VAL:HG22	3:Y:122:VAL:HG13	1.94	0.50
3:Y:104:PHE:CE1	3:Y:164:GLU:HG3	2.47	0.50
1:A:149:ASN:H	1:A:149:ASN:ND2	2.05	0.49
1:A:560:TRP:HH2	1:A:673:LEU:HD22	1.77	0.49
1:A:805:SER:O	1:A:807:THR:N	2.45	0.49
2:B:243:PHE:C	2:B:243:PHE:CD2	2.85	0.49
2:B:559:PRO:HG2	2:B:812:LYS:HD2	1.93	0.49
2:B:1539:ILE:HG23	2:B:1564:ILE:HG12	1.94	0.49
1:C:161:LEU:HD11	1:C:185:PHE:CZ	2.47	0.49
1:C:689:LYS:HD3	1:C:730:GLU:OE2	2.12	0.49
1:C:690:TYR:C	1:C:692:HIS:N	2.66	0.49
1:C:820:PHE:CG	1:C:821:LYS:N	2.80	0.49
1:C:1147:PHE:C	1:C:1147:PHE:CD2	2.86	0.49
1:C:1365:VAL:CG2	1:C:1366:HIS:N	2.73	0.49
2:D:1529:LEU:HD11	2:D:1543:ASP:HB2	1.94	0.49
3:Y:215:VAL:C	3:Y:216:LEU:HD22	2.32	0.49
1:A:55:SER:C	1:A:56:ILE:HD13	2.32	0.49
1:A:484:ILE:HD12	1:A:540:LEU:CD2	2.42	0.49
1:A:571:LEU:CD2	1:A:812:ALA:HB2	2.41	0.49
1:A:1053:MET:HE2	1:A:1086:LEU:CD1	2.42	0.49
1:A:1215:GLU:O	1:A:1217:LEU:HD23	2.12	0.49
1:A:1544:SER:HA	1:A:1547:THR:OG1	2.12	0.49
1:A:1598:ILE:HG22	1:A:1599:THR:N	2.27	0.49
2:B:147:VAL:HG12	2:B:183:PHE:CE1	2.45	0.49
2:B:199:ILE:HG22	2:B:199:ILE:O	2.11	0.49
2:B:1480:LEU:HD12	2:B:1480:LEU:C	2.33	0.49
1:C:42:GLN:HE21	1:C:44:TYR:N	2.10	0.49
1:C:663:GLN:CG	1:C:664:GLU:N	2.74	0.49
1:C:734:VAL:HA	1:C:737:GLN:HG2	1.92	0.49
1:C:998:ASN:HB3	1:C:1000:LEU:HG	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1162:VAL:HG23	1:C:1163:LYS:N	2.27	0.49
2:D:923:SER:HB3	2:D:1328:PHE:CE1	2.47	0.49
2:D:1391:LEU:HD12	2:D:1417:MET:HE1	1.92	0.49
3:X:146:LEU:HD21	3:X:148:ALA:HB2	1.94	0.49
3:Y:41:HIS:ND1	3:Y:41:HIS:N	2.60	0.49
1:A:658:ASN:O	1:A:659:ALA:HB3	2.11	0.49
1:A:680:GLN:O	1:A:682:LYS:N	2.45	0.49
1:A:983:LEU:HD21	1:A:1271:ILE:HD12	1.94	0.49
1:A:1323:LEU:CD1	1:A:1324:HIS:H	2.24	0.49
2:B:218:LYS:HB3	2:B:822:TYR:CE2	2.46	0.49
2:B:1611:PRO:HG3	2:B:1624:LEU:HB3	1.94	0.49
1:C:398:ASN:O	1:C:399:GLN:HB2	2.13	0.49
1:C:757:LEU:O	1:C:758:LEU:HD23	2.12	0.49
1:C:1180:LEU:CD2	1:C:1208:ILE:HG12	2.43	0.49
1:C:1537:GLU:O	1:C:1539:LEU:N	2.44	0.49
2:D:167:THR:HG22	2:D:171:ILE:O	2.12	0.49
2:D:563:MET:HA	2:D:563:MET:HE3	1.94	0.49
2:D:756:LEU:HD22	2:D:778:PHE:CD1	2.48	0.49
2:D:963:ILE:CD1	2:D:1311:ILE:HG21	2.41	0.49
2:D:1522:TYR:N	2:D:1522:TYR:HD2	2.10	0.49
3:X:61:SER:N	3:X:75:PHE:CZ	2.80	0.49
3:Y:71:ASN:O	3:Y:72:VAL:HG23	2.13	0.49
1:A:23:TYR:HA	1:A:43:VAL:HA	1.94	0.49
1:A:196:TYR:HE2	1:A:1070:LYS:NZ	2.10	0.49
1:A:987:ILE:HD13	1:A:1294:ILE:HG23	1.94	0.49
1:A:998:ASN:HB3	1:A:1000:LEU:HG	1.93	0.49
1:A:1019:PHE:CD2	1:A:1020:TYR:N	2.80	0.49
1:A:1068:VAL:CG1	1:A:1069:TRP:H	2.17	0.49
1:A:1077:TRP:NE1	1:A:1147:PHE:CD1	2.80	0.49
1:A:1327:LYS:O	1:A:1332:ASN:ND2	2.46	0.49
1:A:1487:PHE:O	1:A:1488:LEU:C	2.50	0.49
1:A:1537:GLU:O	1:A:1539:LEU:N	2.45	0.49
2:B:481:TYR:HE2	2:B:493:GLY:CA	2.24	0.49
2:B:643:LYS:HG3	2:B:644:CYS:N	2.27	0.49
2:B:963:ILE:CD1	2:B:1311:ILE:HG21	2.42	0.49
2:B:1415:ASN:O	2:B:1417:MET:HG3	2.12	0.49
2:B:1506:ILE:CD1	2:B:1628:PHE:CE1	2.95	0.49
2:B:1522:TYR:CD2	2:B:1522:TYR:O	2.65	0.49
1:C:87:ILE:HD13	1:C:87:ILE:H	1.73	0.49
1:C:243:PHE:HE2	1:C:304:GLU:CA	2.25	0.49
1:C:255:PHE:HB2	1:C:846:TYR:OH	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:296:ILE:CG2	1:C:297:ALA:N	2.76	0.49
1:C:515:ARG:CZ	1:C:526:ILE:HG22	2.42	0.49
1:C:541:LEU:HB2	1:C:558:SER:HB3	1.95	0.49
1:C:613:GLN:O	1:C:615:GLY:N	2.46	0.49
1:C:903:LEU:HD22	1:C:903:LEU:N	2.27	0.49
1:C:916:THR:O	1:C:918:PHE:N	2.46	0.49
1:C:1541:LEU:HD21	1:C:1543:ILE:HD12	1.93	0.49
1:C:1643:THR:CG2	1:C:1644:TRP:N	2.74	0.49
2:D:322:THR:HG21	2:D:327:ASP:H	1.78	0.49
2:D:564:LYS:HA	2:D:776:MET:O	2.12	0.49
2:D:643:LYS:HG3	2:D:644:CYS:N	2.27	0.49
2:D:916:VAL:CG2	2:D:917:PRO:N	2.76	0.49
2:D:1371:TYR:CD1	2:D:1377:SER:CB	2.95	0.49
3:X:104:PHE:CE1	3:X:164:GLU:HG3	2.47	0.49
3:Y:85:PHE:CE1	3:Y:117:SER:HB3	2.47	0.49
3:Y:106:VAL:HG22	3:Y:163:LYS:HE3	1.93	0.49
3:Y:119:VAL:HG13	3:Y:212:MET:SD	2.52	0.49
1:A:23:TYR:HE2	1:A:111:PHE:CD2	2.30	0.49
1:A:1423:VAL:HG11	1:A:1496:TYR:CZ	2.47	0.49
2:B:59:HIS:HB3	2:B:64:LYS:HA	1.95	0.49
2:B:168:PRO:HD3	2:B:197:TRP:CD1	2.47	0.49
2:B:565:ILE:HG22	2:B:806:TYR:HE2	1.77	0.49
2:B:1619:GLU:C	2:B:1621:PHE:H	2.15	0.49
1:C:85:LEU:HD22	1:C:85:LEU:N	2.27	0.49
1:C:234:GLU:HB3	1:C:246:PHE:CE1	2.47	0.49
1:C:377:ASP:OD2	1:C:379:LEU:HB2	2.12	0.49
1:C:758:LEU:HB3	1:C:759:PRO:HD2	1.93	0.49
1:C:1226:ARG:CB	1:C:1269:PRO:HB2	2.42	0.49
2:D:235:PHE:HB3	2:D:338:ILE:CG2	2.43	0.49
2:D:408:SER:HB3	2:D:410:PRO:HD3	1.95	0.49
2:D:511:THR:O	2:D:513:ASP:N	2.46	0.49
2:D:825:VAL:HB	2:D:828:GLU:CD	2.33	0.49
2:D:942:LEU:HD13	2:D:1314:THR:HG23	1.95	0.49
3:X:71:ASN:O	3:X:72:VAL:HG23	2.12	0.49
1:A:74:SER:HA	1:A:79:PHE:CE1	2.47	0.49
1:A:123:ASN:N	1:A:211:THR:HG23	2.27	0.49
1:A:719:SER:OG	1:A:1123:GLN:HG3	2.12	0.49
1:A:820:PHE:CG	1:A:821:LYS:N	2.81	0.49
1:A:1249:GLU:O	1:A:1253:TYR:HD2	1.96	0.49
1:A:1286:SER:OG	1:A:1287:THR:N	2.46	0.49
1:A:1318:LYS:HB2	1:A:1345:ASP:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1564:SER:CB	1:A:1616:GLN:HG3	2.43	0.49
2:B:560:GLY:HA2	2:B:780:LEU:O	2.13	0.49
2:B:564:LYS:HA	2:B:776:MET:O	2.13	0.49
2:B:916:VAL:CG2	2:B:917:PRO:N	2.74	0.49
2:B:1347:VAL:HG21	2:B:1456:VAL:HG11	1.94	0.49
2:B:1400:LEU:HD22	2:B:1406:ARG:HH12	1.77	0.49
1:C:100:SER:O	1:C:101:TYR:HB2	2.11	0.49
1:C:423:ASN:HB3	2:D:501:GLN:NE2	2.27	0.49
1:C:682:LYS:HZ2	1:C:686:ILE:CD1	2.26	0.49
1:C:719:SER:OG	1:C:1123:GLN:HG3	2.13	0.49
1:C:1557:ILE:HD13	1:C:1622:LYS:HG3	1.93	0.49
2:D:26:THR:HG22	2:D:630:THR:HG22	1.94	0.49
2:D:280:LEU:HD22	2:D:1462:TYR:HE2	1.76	0.49
2:D:1526:THR:HA	2:D:1545:LEU:HD13	1.95	0.49
2:D:1533:GLU:OE1	2:D:1533:GLU:HA	2.13	0.49
1:A:100:SER:C	1:A:101:TYR:HD2	2.16	0.49
1:A:514:THR:HG22	1:A:515:ARG:N	2.27	0.49
1:A:600:VAL:CG2	1:A:780:VAL:HG21	2.42	0.49
1:A:766:ARG:H	1:A:766:ARG:HD3	1.78	0.49
1:A:1098:ASN:O	1:A:1101:CYS:HB2	2.13	0.49
1:A:1162:VAL:HG23	1:A:1163:LYS:N	2.27	0.49
2:B:494:ARG:HH11	2:B:494:ARG:CG	2.12	0.49
2:B:620:VAL:HG12	2:B:621:PHE:N	2.28	0.49
2:B:1285:GLU:O	2:B:1287:PRO:HD3	2.13	0.49
2:B:1529:LEU:HD11	2:B:1543:ASP:HB2	1.93	0.49
1:C:257:ASN:HD21	1:C:892:SER:CA	2.23	0.49
1:C:1454:GLN:HG3	1:C:1461:ILE:HB	1.94	0.49
1:C:1475:VAL:CG2	1:C:1476:ARG:N	2.75	0.49
1:C:1620:MET:CB	1:C:1644:TRP:HB3	2.27	0.49
2:D:63:ARG:HB3	2:D:65:GLN:HG3	1.95	0.49
2:D:218:LYS:HB3	2:D:822:TYR:CE2	2.47	0.49
2:D:243:PHE:CD2	2:D:243:PHE:C	2.86	0.49
2:D:361:GLU:HB3	2:D:399:ILE:HD13	1.95	0.49
2:D:948:ARG:HB2	2:D:948:ARG:NH2	2.25	0.49
2:D:1502:HIS:ND1	2:D:1503:GLN:N	2.51	0.49
3:X:88:GLY:C	3:X:90:ASP:N	2.66	0.49
3:Y:86:LEU:HG	3:Y:91:LYS:CG	2.43	0.49
1:A:174:VAL:HG22	1:A:175:GLU:H	1.77	0.49
1:A:191:PRO:O	1:A:194:PRO:HD3	2.13	0.49
1:A:571:LEU:HD12	1:A:593:ALA:O	2.13	0.49
1:A:1204:GLN:O	1:A:1208:ILE:HG13	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:469:ASN:CB	2:B:472:SER:HB2	2.42	0.49
2:B:519:ARG:NH1	2:B:606:ASP:OD2	2.45	0.49
2:B:825:VAL:HB	2:B:828:GLU:CD	2.32	0.49
2:B:933:ARG:HG3	2:B:933:ARG:NH1	2.18	0.49
1:C:272:ARG:HG3	1:C:279:GLN:O	2.13	0.49
1:C:296:ILE:HG23	1:C:297:ALA:N	2.26	0.49
1:C:518:PHE:O	1:C:520:ASP:N	2.42	0.49
1:C:571:LEU:CD2	1:C:812:ALA:HB2	2.43	0.49
1:C:682:LYS:NZ	1:C:686:ILE:CD1	2.75	0.49
1:C:862:VAL:O	1:C:863:GLU:C	2.51	0.49
1:C:945:ASP:C	1:C:945:ASP:OD1	2.48	0.49
1:C:1140:ASN:O	1:C:1143:TYR:HB3	2.13	0.49
1:C:1265:ASN:C	1:C:1267:VAL:H	2.15	0.49
1:C:1411:SER:H	1:C:1414:GLU:HG3	1.78	0.49
2:D:189:PRO:C	2:D:191:LEU:N	2.66	0.49
2:D:322:THR:CG2	2:D:327:ASP:H	2.25	0.49
2:D:463:ASN:OD1	2:D:505:THR:OG1	2.31	0.49
2:D:573:ALA:HB3	2:D:762:LEU:HD13	1.93	0.49
2:D:847:ARG:HG3	2:D:869:GLN:CG	2.36	0.49
2:D:1443:LEU:N	2:D:1443:LEU:CD1	2.76	0.49
2:D:1602:THR:O	2:D:1604:ASN:N	2.41	0.49
2:D:1621:PHE:O	2:D:1622:GLN:C	2.50	0.49
1:A:757:LEU:O	1:A:758:LEU:HD23	2.12	0.49
1:A:849:ARG:HH11	1:A:849:ARG:CG	2.12	0.49
1:A:1386:ILE:HG13	1:A:1387:GLU:N	2.27	0.49
1:A:1456:LYS:HG3	1:A:1457:ASP:OD2	2.13	0.49
2:B:144:LEU:HD23	2:B:144:LEU:N	2.28	0.49
2:B:531:ILE:O	2:B:617:ASN:ND2	2.39	0.49
2:B:946:LYS:HD3	2:B:946:LYS:N	2.27	0.49
2:B:1299:LEU:HB3	2:B:1301:ARG:HD3	1.94	0.49
1:C:148:LEU:HA	1:C:154:PRO:O	2.12	0.49
1:C:165:ASP:C	1:C:167:GLU:N	2.66	0.49
1:C:395:ILE:CG1	1:C:430:VAL:HB	2.43	0.49
1:C:1423:VAL:HG11	1:C:1496:TYR:CZ	2.48	0.49
1:C:1450:PHE:HB3	1:C:1463:GLN:O	2.12	0.49
1:C:1562:LYS:HD3	1:C:1648:TRP:NE1	2.27	0.49
2:D:58:VAL:HG12	2:D:104:VAL:CG2	2.41	0.49
2:D:462:VAL:HG21	2:D:520:PHE:CE2	2.48	0.49
2:D:548:LEU:HD23	2:D:803:ALA:HB2	1.94	0.49
2:D:1281:LEU:HB2	2:D:1283:ASP:HB2	1.95	0.49
2:D:1390:PHE:CD1	2:D:1442:ILE:HG13	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:87:LEU:HD12	3:Y:210:GLU:HA	1.95	0.49
1:A:123:ASN:C	1:A:211:THR:HG21	2.32	0.49
1:A:189:LYS:HG3	1:A:190:ILE:O	2.13	0.49
1:A:423:ASN:CG	2:B:504:VAL:HG22	2.33	0.49
1:A:515:ARG:NH1	1:A:526:ILE:HG22	2.27	0.49
1:A:682:LYS:NZ	1:A:686:ILE:CD1	2.76	0.49
1:A:1069:TRP:HH2	1:A:1465:ASN:ND2	2.10	0.49
1:A:1190:ILE:CG1	1:A:1253:TYR:CE1	2.94	0.49
1:A:1475:VAL:CG2	1:A:1476:ARG:N	2.76	0.49
1:A:1566:THR:HG23	1:A:1578:LYS:O	2.13	0.49
2:B:239:GLY:N	2:B:296:ARG:NH2	2.61	0.49
2:B:1381:ILE:HB	2:B:1459:TYR:HD1	1.78	0.49
2:B:1382:ILE:CD1	2:B:1458:VAL:HG22	2.43	0.49
1:C:96:GLN:O	1:C:97:ASN:O	2.31	0.49
1:C:115:LYS:HB2	1:C:654:LEU:CD2	2.42	0.49
1:C:1085:VAL:O	1:C:1089:VAL:HG23	2.13	0.49
1:C:1128:LYS:HD3	1:C:1414:GLU:OE1	2.13	0.49
1:C:1255:LEU:HD12	1:C:1255:LEU:C	2.31	0.49
1:C:1318:LYS:HB2	1:C:1345:ASP:HB2	1.95	0.49
1:C:1493:PHE:HD1	1:C:1494:THR:H	1.50	0.49
1:C:1559:TYR:O	1:C:1621:GLY:N	2.46	0.49
1:C:1629:TYR:O	1:C:1630:ASN:HB2	2.13	0.49
2:D:188:LEU:HD13	2:D:216:VAL:HG21	1.95	0.49
2:D:481:TYR:CE1	2:D:506:MET:SD	2.93	0.49
2:D:889:GLN:HA	2:D:915:VAL:HB	1.95	0.49
2:D:1280:GLU:HB2	2:D:1312:THR:HB	1.95	0.49
2:D:1567:ARG:HG3	2:D:1567:ARG:NH1	2.28	0.49
3:X:50:TYR:HE2	3:X:170:ARG:HD2	1.72	0.49
3:Y:50:TYR:CE2	3:Y:170:ARG:CZ	2.95	0.49
1:A:354:LEU:HB2	1:A:374:GLN:O	2.13	0.48
1:A:963:ILE:CG2	1:A:967:LEU:HD23	2.41	0.48
1:A:1022:PHE:CE2	1:A:1092:TYR:CD1	3.01	0.48
1:A:1278:GLN:NE2	1:A:1293:ALA:HB1	2.28	0.48
1:A:1565:ILE:HB	1:A:1614:GLY:H	1.78	0.48
2:B:830:VAL:CG2	2:B:831:GLU:N	2.74	0.48
2:B:1344:HIS:ND1	4:F:1:NAG:H82	2.27	0.48
2:B:1610:TRP:CD2	2:B:1628:PHE:CD2	2.99	0.48
1:C:371:ILE:CG2	1:C:420:PHE:HB2	2.34	0.48
1:C:523:TYR:CZ	2:D:359:PRO:HD2	2.48	0.48
1:C:596:MET:SD	1:C:782:ARG:HG2	2.53	0.48
1:C:1234:HIS:O	1:C:1235:LYS:HB2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1559:TYR:CE1	1:C:1587:THR:HA	2.47	0.48
2:D:945:ILE:HD12	2:D:945:ILE:N	2.28	0.48
2:D:1601:ILE:H	2:D:1601:ILE:HD12	1.78	0.48
3:Y:61:SER:N	3:Y:75:PHE:CZ	2.81	0.48
3:Y:61:SER:N	3:Y:75:PHE:HZ	2.11	0.48
1:A:24:VAL:HG11	1:A:543:TYR:CZ	2.48	0.48
1:A:54:ILE:HG12	1:A:106:VAL:HG13	1.94	0.48
1:A:163:PHE:CD2	1:A:188:PHE:CD1	3.00	0.48
1:A:272:ARG:HG3	1:A:279:GLN:O	2.13	0.48
1:A:477:LEU:HD23	1:A:480:GLU:OE1	2.14	0.48
1:A:560:TRP:CH2	1:A:673:LEU:CD2	2.96	0.48
1:A:613:GLN:O	1:A:615:GLY:N	2.46	0.48
1:A:689:LYS:CG	1:A:699:CYS:SG	3.01	0.48
1:A:734:VAL:HA	1:A:737:GLN:HG2	1.94	0.48
1:A:853:MET:O	1:A:888:VAL:HG12	2.13	0.48
1:A:1017:PRO:O	1:A:1018:VAL:C	2.51	0.48
1:A:1231:ASN:O	1:A:1233:GLN:N	2.46	0.48
1:A:1376:SER:OG	1:A:1503:LYS:HG3	2.13	0.48
1:A:1641:SER:O	1:A:1642:LEU:HB2	2.14	0.48
2:B:216:VAL:O	2:B:216:VAL:HG13	2.13	0.48
2:B:580:VAL:CG1	2:B:584:VAL:HG23	2.43	0.48
2:B:598:ILE:HD12	2:B:800:ILE:HG21	1.92	0.48
2:B:615:GLN:HB2	2:B:616:ASN:HD22	1.75	0.48
2:B:925:VAL:HG22	2:B:1326:LEU:CD2	2.39	0.48
2:B:1533:GLU:HA	2:B:1533:GLU:OE1	2.12	0.48
2:B:1614:ASP:O	2:B:1616:CYS:N	2.46	0.48
1:C:124:GLY:C	1:C:125:PHE:CG	2.86	0.48
1:C:136:THR:O	1:C:139:GLN:HG3	2.12	0.48
1:C:248:ILE:HB	1:C:299:VAL:HG13	1.93	0.48
1:C:496:ILE:HG22	1:C:496:ILE:O	2.12	0.48
1:C:1271:ILE:CD1	1:C:1300:TYR:CZ	2.96	0.48
1:C:1377:PHE:CD2	1:C:1495:VAL:HG22	2.48	0.48
1:C:1562:LYS:CD	1:C:1648:TRP:NE1	2.76	0.48
1:C:1622:LYS:HZ2	1:C:1642:LEU:HB3	1.78	0.48
2:D:853:ASN:C	2:D:853:ASN:OD1	2.52	0.48
3:X:81:ASN:O	3:X:115:ARG:CB	2.53	0.48
3:X:103:VAL:HG22	3:X:122:VAL:HG13	1.94	0.48
3:Y:125:LYS:HA	3:Y:126:ASN:C	2.27	0.48
1:A:284:GLN:H	1:A:310:LEU:HD22	1.78	0.48
1:A:997:ILE:HG13	1:A:997:ILE:O	2.13	0.48
1:A:1000:LEU:O	1:A:1001:THR:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1240:PRO:C	1:A:1242:THR:N	2.67	0.48
1:A:1671:ILE:CD1	1:A:1676:CYS:SG	3.01	0.48
2:B:322:THR:HG21	2:B:327:ASP:H	1.79	0.48
1:C:43:VAL:HG12	1:C:79:PHE:O	2.13	0.48
1:C:222:TYR:HE2	1:C:224:LEU:HA	1.79	0.48
1:C:443:PRO:CD	1:C:446:ASN:HB2	2.42	0.48
1:C:514:THR:CG2	1:C:515:ARG:N	2.77	0.48
1:C:695:VAL:HG12	1:C:727:ALA:CB	2.44	0.48
1:C:977:LEU:HD23	1:C:1361:VAL:HG22	1.96	0.48
1:C:1077:TRP:NE1	1:C:1147:PHE:CD1	2.79	0.48
1:C:1142:LEU:HD21	1:C:1179:THR:OG1	2.14	0.48
2:D:580:VAL:CG1	2:D:584:VAL:HG23	2.43	0.48
2:D:628:LEU:HB3	2:D:636:THR:HG23	1.96	0.48
2:D:850:LEU:HB2	2:D:882:PHE:CD1	2.48	0.48
3:X:187:GLY:C	3:X:203:LEU:HD12	2.33	0.48
3:Y:85:PHE:N	3:Y:85:PHE:CD1	2.81	0.48
1:A:493:ILE:O	1:A:493:ILE:HG22	2.12	0.48
1:A:500:ASN:ND2	1:A:543:TYR:CE1	2.77	0.48
1:A:576:SER:CB	1:A:589:SER:H	2.27	0.48
1:A:825:LEU:HB2	1:A:845:VAL:HG23	1.96	0.48
1:A:1057:MET:HB3	1:A:1057:MET:HE2	1.77	0.48
1:A:1226:ARG:NE	1:A:1266:TYR:CE1	2.82	0.48
1:A:1286:SER:CB	1:A:1499:HIS:HA	2.44	0.48
1:A:1320:LYS:HD2	1:A:1321:GLY:N	2.27	0.48
1:A:1431:GLY:HA2	1:A:1483:PHE:HE1	1.78	0.48
2:B:628:LEU:HB3	2:B:636:THR:HG23	1.95	0.48
2:B:1611:PRO:CD	2:B:1624:LEU:HD23	2.44	0.48
1:C:132:LYS:NZ	1:C:139:GLN:HE22	2.11	0.48
1:C:236:ASN:HD22	1:C:379:LEU:HD21	1.78	0.48
1:C:322:TYR:N	1:C:322:TYR:HD2	2.10	0.48
1:C:481:HIS:ND1	1:C:529:PRO:HB3	2.27	0.48
1:C:494:ASP:OD1	1:C:495:LYS:HE2	2.13	0.48
1:C:950:TYR:HD1	1:C:1268:ASN:OD1	1.96	0.48
1:C:964:PRO:HG2	1:C:1365:VAL:HG11	1.95	0.48
1:C:1231:ASN:O	1:C:1233:GLN:N	2.47	0.48
1:C:1563:VAL:HA	1:C:1582:LEU:H	1.78	0.48
2:D:32:VAL:HB	2:D:607:PHE:CZ	2.48	0.48
2:D:210:TYR:CG	2:D:211:THR:N	2.81	0.48
2:D:853:ASN:HA	2:D:854:PRO:HD3	1.58	0.48
2:D:860:SER:OG	2:D:866:TYR:N	2.39	0.48
2:D:941:GLN:HE21	2:D:943:GLU:CG	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1285:GLU:O	2:D:1287:PRO:HD3	2.13	0.48
2:D:1525:LYS:HD2	2:D:1610:TRP:CH2	2.48	0.48
1:A:92:LEU:HD13	1:C:1026:GLU:OE2	2.13	0.48
1:A:174:VAL:CG2	1:A:175:GLU:N	2.74	0.48
1:A:430:VAL:HG11	1:A:453:ARG:NH2	2.14	0.48
1:A:465:LEU:HG	1:A:466:TYR:N	2.28	0.48
1:A:515:ARG:CZ	1:A:526:ILE:HG22	2.43	0.48
1:A:663:GLN:CG	1:A:664:GLU:N	2.76	0.48
1:A:690:TYR:C	1:A:692:HIS:N	2.67	0.48
1:A:911:ASN:OD1	1:A:924:VAL:HG22	2.14	0.48
1:A:1042:LYS:HZ1	1:C:92:LEU:HD13	1.77	0.48
1:A:1084:ARG:HA	1:A:1151:GLY:HA2	1.94	0.48
1:A:1411:SER:H	1:A:1414:GLU:HG3	1.78	0.48
1:A:1563:VAL:HG12	1:A:1581:LEU:HA	1.96	0.48
2:B:32:VAL:HB	2:B:607:PHE:CZ	2.48	0.48
2:B:548:LEU:HD23	2:B:803:ALA:HB2	1.96	0.48
1:C:545:ILE:HG23	1:C:554:LEU:HD21	1.95	0.48
1:C:554:LEU:H	1:C:658:ASN:HD22	1.61	0.48
1:C:682:LYS:NZ	1:C:686:ILE:HD11	2.28	0.48
1:C:856:CYS:HB2	2:D:904:LEU:HD21	1.95	0.48
1:C:883:CYS:O	1:C:884:VAL:C	2.51	0.48
1:C:1031:TRP:CE2	1:C:1042:LYS:HG3	2.47	0.48
1:C:1204:GLN:O	1:C:1208:ILE:HG13	2.13	0.48
2:D:1344:HIS:ND1	4:H:1:NAG:C8	2.77	0.48
3:X:50:TYR:CE2	3:X:170:ARG:CZ	2.96	0.48
1:A:25:ILE:CD1	1:A:41:ILE:HG13	2.43	0.48
1:A:461:SER:CB	1:A:553:GLU:OE2	2.61	0.48
1:A:541:LEU:HB2	1:A:557:ASP:O	2.13	0.48
1:A:859:MET:HB3	1:A:898:PHE:CE1	2.49	0.48
1:A:973:ILE:O	1:A:973:ILE:HG22	2.12	0.48
1:A:981:GLY:HA3	1:A:1333:PHE:CD1	2.49	0.48
1:A:1142:LEU:HD13	1:A:1187:THR:HG21	1.95	0.48
2:B:378:PRO:HB2	2:B:416:ASN:O	2.14	0.48
2:B:384:PHE:CD2	2:B:384:PHE:N	2.81	0.48
2:B:795:THR:CG2	2:B:796:PRO:HD2	2.36	0.48
2:B:1624:LEU:O	2:B:1625:CYS:C	2.52	0.48
1:C:119:ILE:HD12	1:C:119:ILE:C	2.34	0.48
1:C:367:ILE:HD13	1:C:466:TYR:CD2	2.48	0.48
1:C:539:ARG:NH2	1:C:634:CYS:N	2.60	0.48
1:C:971:THR:O	1:C:971:THR:OG1	2.23	0.48
1:C:1255:LEU:HD13	1:C:1267:VAL:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1421:HIS:HD2	1:C:1422:ALA:N	2.11	0.48
2:D:870:PHE:HB2	2:D:871:PRO:CD	2.42	0.48
3:X:41:HIS:ND1	3:X:41:HIS:N	2.62	0.48
1:A:20:GLU:C	1:A:21:GLN:CG	2.77	0.48
1:A:1161:LEU:CD1	1:C:1105:LEU:HD13	2.41	0.48
2:B:224:PHE:CE1	2:B:320:VAL:CG1	2.96	0.48
2:B:570:ASP:O	2:B:573:ALA:HB2	2.14	0.48
1:C:23:TYR:CE2	1:C:111:PHE:CD2	3.01	0.48
1:C:161:LEU:HD21	1:C:185:PHE:CD2	2.49	0.48
1:C:243:PHE:CE2	1:C:304:GLU:CA	2.96	0.48
1:C:361:LEU:HD21	1:C:452:TYR:HB3	1.94	0.48
1:C:627:LEU:HD23	1:C:627:LEU:HA	1.69	0.48
1:C:871:PRO:CD	1:C:872:VAL:N	2.75	0.48
1:C:1066:TYR:N	1:C:1079:THR:HG23	2.21	0.48
1:C:1068:VAL:CG1	1:C:1069:TRP:H	2.18	0.48
1:C:1622:LYS:NZ	1:C:1642:LEU:HB3	2.29	0.48
2:D:27:LEU:O	2:D:628:LEU:HD12	2.14	0.48
2:D:61:PHE:CD1	2:D:62:PRO:HA	2.48	0.48
2:D:216:VAL:O	2:D:216:VAL:HG13	2.13	0.48
2:D:229:GLN:HA	2:D:229:GLN:OE1	2.14	0.48
2:D:345:ILE:HG13	2:D:428:LYS:HB3	1.96	0.48
2:D:524:TYR:CE1	2:D:532:VAL:HG12	2.49	0.48
2:D:1631:PHE:HD2	2:D:1632:SER:N	2.11	0.48
3:X:77:PRO:O	3:X:78:LYS:CB	2.61	0.48
1:A:30:ILE:HG22	1:A:31:PHE:N	2.29	0.48
1:A:59:TYR:CD2	1:A:60:PRO:HD3	2.49	0.48
1:A:494:ASP:OD2	1:A:495:LYS:HE2	2.14	0.48
1:A:964:PRO:HG2	1:A:1365:VAL:HG11	1.95	0.48
1:A:1090:ASN:ND2	1:A:1158:ILE:HG12	2.29	0.48
1:A:1234:HIS:CG	1:A:1235:LYS:H	2.31	0.48
2:B:25:TYR:CE2	2:B:113:VAL:HG22	2.48	0.48
2:B:130:ILE:HD13	2:B:199:ILE:CG2	2.44	0.48
2:B:441:SER:HB2	2:B:443:ASN:ND2	2.29	0.48
2:B:462:VAL:HG21	2:B:520:PHE:CE2	2.48	0.48
2:B:575:VAL:HG23	2:B:762:LEU:CD1	2.44	0.48
2:B:853:ASN:C	2:B:853:ASN:OD1	2.52	0.48
2:B:866:TYR:HE2	2:B:868:GLN:OE1	1.96	0.48
1:C:30:ILE:HG22	1:C:31:PHE:N	2.28	0.48
1:C:354:LEU:HB2	1:C:374:GLN:O	2.14	0.48
1:C:532:GLN:O	1:C:535:VAL:HG13	2.14	0.48
1:C:1066:TYR:H	1:C:1079:THR:CG2	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1560:ALA:O	1:C:1561:TYR:CD2	2.66	0.48
1:C:1573:VAL:HG12	1:C:1603:LYS:HD3	1.94	0.48
1:C:1583:ASP:N	1:C:1594:LYS:HZ1	2.11	0.48
2:D:59:HIS:HB3	2:D:64:LYS:HA	1.96	0.48
2:D:1442:ILE:C	2:D:1443:LEU:HD13	2.34	0.48
1:A:465:LEU:HD11	1:A:486:VAL:HG13	1.95	0.48
1:A:548:GLY:HA3	1:A:550:GLN:OE1	2.14	0.48
2:B:224:PHE:HE1	2:B:320:VAL:HG11	1.79	0.48
2:B:235:PHE:HB3	2:B:338:ILE:HG23	1.96	0.48
2:B:603:GLU:C	2:B:605:SER:H	2.16	0.48
2:B:1504:GLU:CD	2:B:1505:ARG:H	2.15	0.48
2:B:1534:GLN:OE1	2:B:1534:GLN:HA	2.13	0.48
2:B:1610:TRP:HA	2:B:1628:PHE:CE2	2.49	0.48
1:C:153:LYS:HG2	1:C:806:ASN:O	2.13	0.48
1:C:500:ASN:O	1:C:542:VAL:HA	2.14	0.48
1:C:999:ILE:HD12	1:C:1001:THR:O	2.14	0.48
2:D:285:ILE:HD12	2:D:285:ILE:H	1.71	0.48
2:D:1345:LEU:HD21	2:D:1456:VAL:HG12	1.96	0.48
2:D:1535:ASP:C	2:D:1537:ASN:H	2.17	0.48
2:D:1628:PHE:O	2:D:1629:ALA:C	2.51	0.48
3:Y:88:GLY:C	3:Y:90:ASP:N	2.66	0.48
1:A:243:PHE:CE2	1:A:304:GLU:HA	2.48	0.48
1:A:274:ASP:HA	1:A:322:TYR:CE2	2.49	0.48
1:A:436:LYS:HB2	1:A:449:ARG:CG	2.43	0.48
1:A:965:LEU:C	1:A:967:LEU:H	2.17	0.48
1:A:1022:PHE:O	1:A:1024:TYR:N	2.47	0.48
1:A:1140:ASN:O	1:A:1143:TYR:HB3	2.14	0.48
1:A:1244:THR:HG22	1:A:1246:ARG:H	1.75	0.48
1:A:1323:LEU:CG	1:A:1324:HIS:H	2.27	0.48
1:A:1534:GLN:HG3	1:A:1534:GLN:O	2.14	0.48
1:A:1559:TYR:CE2	1:A:1590:ALA:O	2.67	0.48
2:B:370:ASP:OD1	2:B:370:ASP:N	2.46	0.48
2:B:478:TYR:O	2:B:478:TYR:CD1	2.58	0.48
2:B:541:LYS:O	2:B:543:THR:CG2	2.62	0.48
1:C:198:MET:SD	1:C:218:GLU:HG3	2.54	0.48
1:C:371:ILE:CD1	1:C:433:PHE:CE2	2.93	0.48
1:C:397:VAL:O	1:C:399:GLN:NE2	2.46	0.48
1:C:504:LEU:HD23	1:C:649:ALA:O	2.14	0.48
1:C:525:SER:CB	2:D:399:ILE:HG21	2.44	0.48
1:C:543:TYR:CD1	1:C:543:TYR:C	2.86	0.48
1:C:576:SER:HB2	1:C:589:SER:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:680:GLN:O	1:C:684:GLU:CG	2.62	0.48
1:C:733:VAL:O	1:C:737:GLN:HG2	2.14	0.48
1:C:859:MET:HB3	1:C:898:PHE:CE1	2.49	0.48
1:C:1376:SER:OG	1:C:1503:LYS:HG3	2.14	0.48
2:D:56:ILE:O	2:D:70:GLN:HA	2.14	0.48
2:D:618:LEU:HD22	2:D:636:THR:HA	1.95	0.48
2:D:760:LYS:HE3	2:D:776:MET:SD	2.54	0.48
2:D:1381:ILE:CG2	2:D:1459:TYR:HE1	2.25	0.48
3:Y:132:THR:CG2	3:Y:155:ILE:HB	2.41	0.48
4:G:1:NAG:H3	4:G:2:NAG:O5	2.14	0.48
1:A:43:VAL:HG12	1:A:79:PHE:O	2.13	0.47
1:A:614:ARG:N	1:A:614:ARG:CD	2.76	0.47
1:A:883:CYS:N	2:B:902:GLU:OE2	2.46	0.47
1:A:986:GLU:HG2	1:A:987:ILE:N	2.29	0.47
1:A:1108:VAL:HG21	1:A:1167:ALA:CB	2.40	0.47
1:A:1113:LEU:HD22	1:A:1114:ASP:H	1.77	0.47
1:A:1379:LEU:HD21	1:A:1495:VAL:HG13	1.95	0.47
1:A:1583:ASP:N	1:A:1594:LYS:HZ1	2.12	0.47
2:B:63:ARG:HB3	2:B:65:GLN:HG3	1.95	0.47
2:B:69:PHE:CE1	2:B:87:ILE:HA	2.49	0.47
2:B:1393:ASP:OD1	2:B:1395:GLU:HB3	2.14	0.47
1:C:534:MET:CB	1:C:538:SER:OG	2.62	0.47
1:C:682:LYS:HZ3	1:C:686:ILE:HD11	1.79	0.47
1:C:977:LEU:HD22	1:C:978:SER:H	1.78	0.47
1:C:1076:THR:HG22	1:C:1120:GLU:HA	1.94	0.47
1:C:1186:PHE:HA	1:C:1250:THR:CG2	2.41	0.47
1:C:1247:MET:O	1:C:1251:THR:HG23	2.14	0.47
1:C:1612:VAL:HG23	1:C:1617:TYR:OH	2.14	0.47
2:D:52:LYS:HE3	2:D:111:PRO:O	2.13	0.47
2:D:69:PHE:HD2	2:D:70:GLN:N	2.12	0.47
2:D:165:PHE:CZ	2:D:199:ILE:CD1	2.96	0.47
2:D:482:LEU:CD1	2:D:521:VAL:HB	2.44	0.47
1:A:38:ASN:ND2	3:X:150:ILE:HG12	2.28	0.47
1:A:123:ASN:C	1:A:123:ASN:OD1	2.53	0.47
1:A:682:LYS:NZ	1:A:686:ILE:HD11	2.29	0.47
1:A:837:GLU:OE2	1:A:1430:THR:HB	2.14	0.47
1:A:1053:MET:HE1	1:A:1086:LEU:HD13	1.95	0.47
2:B:56:ILE:O	2:B:70:GLN:HA	2.14	0.47
2:B:220:VAL:O	2:B:222:PRO:N	2.47	0.47
2:B:322:THR:CG2	2:B:327:ASP:H	2.27	0.47
2:B:544:CYS:HB3	2:B:546:GLY:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:862:LYS:HZ2	2:B:1519:ASN:CB	2.27	0.47
2:B:1371:TYR:CD1	2:B:1377:SER:CB	2.98	0.47
2:B:1506:ILE:HB	2:B:1627:ASP:HB3	1.97	0.47
1:C:285:THR:O	1:C:285:THR:CG2	2.59	0.47
1:C:394:THR:HG23	1:C:402:SER:O	2.14	0.47
1:C:871:PRO:HD2	1:C:872:VAL:N	2.29	0.47
1:C:944:LEU:HD23	1:C:944:LEU:H	1.78	0.47
1:C:1534:GLN:HG3	1:C:1534:GLN:O	2.13	0.47
1:C:1598:ILE:HG22	1:C:1599:THR:N	2.29	0.47
2:D:237:ILE:HD11	2:D:309:LEU:CB	2.36	0.47
2:D:575:VAL:O	2:D:759:THR:HA	2.14	0.47
1:A:42:GLN:HE22	1:A:44:TYR:HB2	1.78	0.47
1:A:569:ASN:CG	1:A:570:GLN:N	2.68	0.47
1:A:1562:LYS:HD3	1:A:1648:TRP:HE1	1.80	0.47
1:A:1562:LYS:O	1:A:1563:VAL:CG1	2.62	0.47
2:B:41:ILE:O	2:B:85:PRO:HD2	2.14	0.47
2:B:955:PRO:O	2:B:957:THR:HG23	2.14	0.47
2:B:1279:ILE:HG22	2:B:1288:ILE:CB	2.43	0.47
1:C:216:TYR:N	1:C:216:TYR:CD2	2.82	0.47
1:C:489:LYS:HG2	1:C:490:SER:OG	2.14	0.47
1:C:1003:LEU:HA	1:C:1004:PRO:HD2	1.51	0.47
1:C:1506:THR:HG22	1:C:1507:MET:N	2.29	0.47
1:C:1583:ASP:N	1:C:1594:LYS:NZ	2.63	0.47
2:D:25:TYR:CE2	2:D:113:VAL:HG22	2.49	0.47
2:D:148:PHE:CZ	2:D:792:VAL:HG11	2.48	0.47
2:D:386:SER:O	2:D:398:LEU:HD11	2.14	0.47
2:D:1370:ARG:NH1	2:D:1372:LEU:HG	2.29	0.47
3:X:42:ASP:HB3	3:X:45:ASP:HB2	1.95	0.47
3:Y:88:GLY:C	3:Y:90:ASP:H	2.15	0.47
1:A:72:HIS:C	1:A:72:HIS:CD2	2.87	0.47
1:A:87:ILE:N	1:A:87:ILE:CD1	2.55	0.47
1:A:1018:VAL:HG11	1:A:1048:LYS:HB3	1.95	0.47
1:A:1559:TYR:O	1:A:1621:GLY:N	2.47	0.47
2:B:575:VAL:CG2	2:B:762:LEU:HD11	2.44	0.47
2:B:1386:MET:HA	2:B:1386:MET:HE2	1.96	0.47
2:B:1482:ASN:H	2:B:1495:GLU:HG2	1.79	0.47
2:B:1506:ILE:CD1	2:B:1628:PHE:HE1	2.27	0.47
2:B:1567:ARG:HA	2:B:1567:ARG:HD2	1.63	0.47
1:C:316:GLU:HG2	1:C:349:LEU:CD2	2.43	0.47
1:C:560:TRP:CH2	1:C:673:LEU:CD2	2.98	0.47
1:C:592:MET:O	1:C:783:ARG:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:641:ASN:O	1:C:642:ASN:C	2.53	0.47
1:C:1069:TRP:HH2	1:C:1465:ASN:ND2	2.12	0.47
1:C:1637:TYR:CD2	1:C:1637:TYR:N	2.83	0.47
1:C:1663:ASN:O	1:C:1666:GLU:HB3	2.14	0.47
2:D:161:VAL:CG2	2:D:180:LEU:HD21	2.38	0.47
2:D:531:ILE:O	2:D:617:ASN:ND2	2.41	0.47
2:D:1330:ASN:N	2:D:1330:ASN:ND2	2.62	0.47
2:D:1399:ARG:HG2	2:D:1399:ARG:HH11	1.79	0.47
2:D:1638:PHE:N	2:D:1638:PHE:CD2	2.82	0.47
3:X:103:VAL:HA	3:X:121:GLY:O	2.15	0.47
1:A:617:LYS:HD2	1:A:622:ARG:NH2	2.22	0.47
1:A:695:VAL:HG12	1:A:727:ALA:CB	2.44	0.47
1:A:1271:ILE:HD13	1:A:1300:TYR:CZ	2.50	0.47
2:B:120:LEU:HD13	2:B:120:LEU:HA	1.76	0.47
2:B:148:PHE:CZ	2:B:792:VAL:HG11	2.50	0.47
2:B:173:VAL:HA	2:B:964:ILE:CD1	2.44	0.47
2:B:1446:PHE:C	2:B:1448:VAL:H	2.18	0.47
2:B:1575:LEU:CD2	2:B:1575:LEU:N	2.77	0.47
2:B:1575:LEU:HD13	2:B:1581:TYR:CZ	2.49	0.47
2:B:1614:ASP:C	2:B:1616:CYS:N	2.67	0.47
1:C:284:GLN:H	1:C:310:LEU:HD22	1.79	0.47
1:C:968:VAL:HG23	1:C:971:THR:OG1	2.14	0.47
1:C:1572:ASN:O	1:C:1573:VAL:HG23	2.14	0.47
2:D:96:THR:HG22	2:D:97:ASP:N	2.30	0.47
2:D:778:PHE:N	2:D:778:PHE:CD2	2.83	0.47
2:D:843:ASP:HA	2:D:873:LYS:O	2.14	0.47
2:D:1482:ASN:HB2	2:D:1495:GLU:HA	1.96	0.47
1:A:20:GLU:HB2	1:A:551:THR:CB	2.44	0.47
1:A:231:ILE:HG23	1:A:231:ILE:O	2.14	0.47
1:A:243:PHE:HE2	1:A:304:GLU:CA	2.28	0.47
1:A:419:SER:CB	2:B:459:ASN:HD22	2.15	0.47
1:A:443:PRO:CD	1:A:446:ASN:HB2	2.44	0.47
1:A:510:ILE:O	1:A:511:HIS:ND1	2.48	0.47
1:A:892:SER:HB3	1:A:893:SER:H	1.41	0.47
1:A:1328:MET:HE2	1:A:1328:MET:HA	1.97	0.47
2:B:35:THR:HB	2:B:91:ALA:HB2	1.97	0.47
1:C:224:LEU:CD2	1:C:225:PRO:HD2	2.43	0.47
1:C:614:ARG:N	1:C:614:ARG:CD	2.76	0.47
1:C:680:GLN:O	1:C:682:LYS:N	2.48	0.47
1:C:840:GLN:HE21	1:C:897:THR:HG21	1.80	0.47
1:C:963:ILE:HA	1:C:973:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1079:THR:HB	1:C:1107:LEU:HD11	1.96	0.47
1:C:1427:SER:CB	1:C:1492:THR:HG23	2.44	0.47
1:C:1468:PRO:CD	1:C:1473:LEU:HD13	2.44	0.47
2:D:280:LEU:HD11	2:D:1379:MET:HG3	1.97	0.47
2:D:433:ILE:HG22	2:D:434:ALA:N	2.28	0.47
2:D:484:LEU:HD11	2:D:626:LEU:CG	2.45	0.47
2:D:543:THR:O	2:D:599:TRP:NE1	2.39	0.47
2:D:794:PHE:C	2:D:794:PHE:CD2	2.88	0.47
2:D:870:PHE:CD1	2:D:878:ARG:NH2	2.83	0.47
2:D:1438:LEU:HD13	2:D:1438:LEU:C	2.34	0.47
2:D:1517:GLU:O	2:D:1518:THR:C	2.53	0.47
2:D:1523:VAL:O	2:D:1548:ILE:HB	2.14	0.47
3:X:119:VAL:HG13	3:X:212:MET:SD	2.55	0.47
3:Y:136:LEU:HA	3:Y:224:ILE:O	2.14	0.47
1:A:20:GLU:CB	1:A:551:THR:HG22	2.44	0.47
1:A:59:TYR:CD1	1:A:60:PRO:HG3	2.49	0.47
1:A:394:THR:HG23	1:A:402:SER:O	2.14	0.47
1:A:506:LYS:HD2	1:A:536:PRO:HG2	1.96	0.47
1:A:518:PHE:O	1:A:520:ASP:N	2.43	0.47
1:A:656:ASN:OD1	1:A:658:ASN:CB	2.51	0.47
1:A:1031:TRP:CZ3	1:A:1042:LYS:HA	2.50	0.47
1:A:1159:CYS:O	1:A:1161:LEU:HD23	2.14	0.47
1:A:1186:PHE:HA	1:A:1250:THR:CG2	2.43	0.47
1:A:1279:ARG:NH1	1:A:1280:TYR:CD2	2.83	0.47
1:A:1293:ALA:O	1:A:1294:ILE:C	2.51	0.47
1:A:1307:LEU:HD22	1:A:1307:LEU:H	1.79	0.47
1:A:1309:LEU:CD1	1:A:1328:MET:HG3	2.44	0.47
2:B:34:ARG:HD2	2:B:488:LYS:HZ3	1.79	0.47
2:B:83:VAL:C	2:B:85:PRO:HD3	2.35	0.47
2:B:108:VAL:O	2:B:114:ARG:HA	2.14	0.47
2:B:189:PRO:C	2:B:191:LEU:H	2.17	0.47
2:B:280:LEU:HD22	2:B:1462:TYR:HE2	1.78	0.47
2:B:511:THR:O	2:B:513:ASP:N	2.48	0.47
2:B:563:MET:HB3	2:B:778:PHE:HE2	1.78	0.47
2:B:642:ALA:O	2:B:643:LYS:HB3	2.15	0.47
2:B:794:PHE:C	2:B:794:PHE:CD2	2.88	0.47
2:B:846:VAL:HG22	2:B:847:ARG:N	2.28	0.47
1:C:42:GLN:HE22	1:C:44:TYR:HB2	1.80	0.47
1:C:240:TYR:CD2	1:C:241:LYS:N	2.82	0.47
1:C:383:VAL:O	1:C:383:VAL:CG2	2.62	0.47
1:C:576:SER:CB	1:C:577:PRO:CD	2.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:GLY:O	1:C:596:MET:C	2.52	0.47
1:C:670:LYS:HD2	1:C:671:GLU:N	2.29	0.47
1:C:923:LEU:HD23	1:C:923:LEU:C	2.34	0.47
1:C:1179:THR:HG22	1:C:1180:LEU:HD23	1.97	0.47
1:C:1215:GLU:OE1	1:C:1235:LYS:HD3	2.15	0.47
1:C:1249:GLU:O	1:C:1253:TYR:HD2	1.98	0.47
1:C:1268:ASN:HB2	1:C:1269:PRO:HD3	1.97	0.47
1:C:1309:LEU:O	1:C:1329:THR:HA	2.15	0.47
1:C:1504:GLN:OE1	1:C:1506:THR:OG1	2.28	0.47
1:C:1552:ALA:HB2	1:C:1620:MET:CE	2.45	0.47
2:D:108:VAL:O	2:D:114:ARG:HA	2.15	0.47
2:D:143:VAL:O	2:D:143:VAL:HG12	2.14	0.47
2:D:168:PRO:HD3	2:D:197:TRP:CD1	2.49	0.47
2:D:173:VAL:HG11	2:D:186:TYR:OH	2.13	0.47
2:D:206:SER:O	2:D:208:GLU:N	2.47	0.47
2:D:249:ALA:O	2:D:257:VAL:HB	2.15	0.47
2:D:314:LEU:HD12	2:D:314:LEU:HA	1.71	0.47
2:D:478:TYR:O	2:D:478:TYR:CD1	2.58	0.47
2:D:566:LYS:O	2:D:567:LEU:HD23	2.15	0.47
2:D:1387:LEU:O	2:D:1390:PHE:HB2	2.14	0.47
2:D:1506:ILE:HD12	2:D:1628:PHE:CE1	2.49	0.47
2:D:1623:LYS:NZ	2:D:1623:LYS:CB	2.78	0.47
3:X:166:ASP:OD2	3:X:207:LEU:CG	2.62	0.47
1:A:576:SER:CB	1:A:577:PRO:CD	2.91	0.47
1:A:680:GLN:O	1:A:684:GLU:CG	2.62	0.47
1:A:802:VAL:HG12	1:A:803:GLY:N	2.29	0.47
1:A:1047:LYS:O	1:A:1048:LYS:C	2.53	0.47
1:A:1585:TYR:CZ	1:A:1586:LYS:HB3	2.49	0.47
2:B:79:GLY:O	2:B:81:MET:N	2.47	0.47
2:B:230:PRO:HG3	2:B:333:GLN:CG	2.44	0.47
2:B:482:LEU:HD11	2:B:521:VAL:HB	1.96	0.47
2:B:1567:ARG:HG3	2:B:1567:ARG:NH1	2.29	0.47
1:C:473:HIS:CE1	2:D:455:LYS:NZ	2.83	0.47
1:C:532:GLN:O	1:C:534:MET:N	2.47	0.47
1:C:993:SER:O	1:C:995:GLU:N	2.48	0.47
1:C:1076:THR:HG23	1:C:1077:TRP:N	2.29	0.47
1:C:1240:PRO:HB2	1:C:1242:THR:CG2	2.45	0.47
1:C:1402:ILE:HG13	1:C:1479:ILE:HD13	1.95	0.47
2:D:173:VAL:HG13	2:D:964:ILE:HD11	1.95	0.47
2:D:482:LEU:HD11	2:D:521:VAL:HB	1.97	0.47
2:D:813:VAL:CG1	2:D:840:VAL:HG22	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:85:PHE:N	3:Y:85:PHE:HD1	2.13	0.47
3:Y:150:ILE:HD12	3:Y:150:ILE:C	2.34	0.47
1:A:25:ILE:HG12	1:A:655:THR:CG2	2.45	0.47
1:A:161:LEU:HD11	1:A:185:PHE:CE2	2.49	0.47
1:A:239:GLY:O	1:A:240:TYR:C	2.52	0.47
1:A:530:VAL:CG2	1:A:563:ILE:HD12	2.45	0.47
1:A:975:ARG:NH1	1:A:1340:VAL:HG11	2.30	0.47
1:A:1084:ARG:CA	1:A:1151:GLY:HA2	2.45	0.47
2:B:341:SER:HA	2:B:342:PRO:HD3	1.72	0.47
2:B:463:ASN:OD1	2:B:505:THR:OG1	2.33	0.47
2:B:466:VAL:HG12	2:B:524:TYR:HE2	1.79	0.47
2:B:1517:GLU:O	2:B:1518:THR:C	2.53	0.47
1:C:25:ILE:HG13	1:C:106:VAL:HG21	1.96	0.47
1:C:148:LEU:HG	1:C:153:LYS:O	2.14	0.47
1:C:263:ALA:O	1:C:291:MET:HE3	2.14	0.47
1:C:407:SER:O	1:C:420:PHE:HE1	1.98	0.47
1:C:997:ILE:O	1:C:997:ILE:HG13	2.15	0.47
1:C:1215:GLU:OE1	1:C:1215:GLU:HA	2.15	0.47
2:D:1593:THR:HG21	2:D:1596:LYS:HE3	1.97	0.47
3:Y:128:LYS:HD3	3:Y:158:GLU:CD	2.35	0.47
3:Y:194:LYS:HZ2	3:Y:197:ASN:HD22	1.63	0.47
3:Y:229:ASN:OD1	3:Y:229:ASN:N	2.46	0.47
1:A:111:PHE:CE2	1:A:113:LYS:CB	2.96	0.47
1:A:186:PRO:O	1:A:187:ASP:C	2.53	0.47
1:A:543:TYR:HB3	1:A:556:SER:HB3	1.97	0.47
1:A:1133:LEU:HB2	1:A:1134:PRO:HD3	1.97	0.47
1:A:1637:TYR:CD2	1:A:1637:TYR:N	2.83	0.47
2:B:433:ILE:CG2	2:B:434:ALA:N	2.78	0.47
2:B:787:TRP:HB2	2:B:808:ILE:HG22	1.97	0.47
2:B:829:GLN:HE22	2:B:883:VAL:CG1	2.19	0.47
1:C:323:LEU:HD22	1:C:324:TYR:N	2.30	0.47
1:C:510:ILE:O	1:C:511:HIS:ND1	2.48	0.47
1:C:525:SER:HB2	2:D:399:ILE:HG21	1.96	0.47
2:D:1367:ILE:HB	2:D:1438:LEU:CD1	2.45	0.47
2:D:1522:TYR:CD2	2:D:1522:TYR:O	2.68	0.47
2:D:1561:HIS:NE2	2:D:1597:ILE:CD1	2.78	0.47
3:X:52:SER:OG	3:X:53:GLU:N	2.48	0.47
3:X:85:PHE:CE1	3:X:117:SER:HB3	2.50	0.47
3:X:86:LEU:HG	3:X:91:LYS:CG	2.45	0.47
3:Y:46:LEU:HD12	3:Y:180:TYR:CE1	2.50	0.47
1:A:24:VAL:HG11	1:A:543:TYR:HE2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:497:THR:OG1	1:A:498:HIS:N	2.48	0.46
1:A:515:ARG:HG3	1:A:526:ILE:CG2	2.45	0.46
1:A:1583:ASP:N	1:A:1594:LYS:NZ	2.64	0.46
2:B:236:TYR:C	2:B:238:ASP:H	2.18	0.46
2:B:338:ILE:O	2:B:339:VAL:CG1	2.64	0.46
2:B:342:PRO:HG2	2:B:420:LEU:CD1	2.44	0.46
2:B:563:MET:CE	2:B:563:MET:HA	2.45	0.46
2:B:1486:ILE:HD11	2:B:1591:LEU:CD2	2.45	0.46
2:B:1602:THR:O	2:B:1604:ASN:N	2.43	0.46
1:C:23:TYR:HA	1:C:43:VAL:HA	1.96	0.46
1:C:219:VAL:O	1:C:219:VAL:CG1	2.63	0.46
1:C:239:GLY:O	1:C:240:TYR:C	2.53	0.46
1:C:302:ASP:HB3	1:C:305:THR:HB	1.97	0.46
1:C:461:SER:HB2	1:C:553:GLU:CD	2.34	0.46
1:C:481:HIS:HB2	2:D:388:GLY:HA2	1.96	0.46
1:C:689:LYS:CG	1:C:699:CYS:SG	3.03	0.46
1:C:1083:LEU:HD22	1:C:1104:LEU:HD21	1.96	0.46
1:C:1453:TYR:O	1:C:1453:TYR:CD1	2.67	0.46
2:D:263:VAL:HG21	2:D:292:ALA:CB	2.45	0.46
2:D:319:THR:HG23	2:D:330:VAL:CG1	2.45	0.46
2:D:447:VAL:HG13	2:D:447:VAL:O	2.15	0.46
2:D:750:ASP:OD1	2:D:750:ASP:C	2.53	0.46
2:D:866:TYR:HE2	2:D:868:GLN:OE1	1.99	0.46
2:D:1371:TYR:HB2	2:D:1377:SER:HB3	1.97	0.46
2:D:1457:LYS:HG2	2:D:1469:THR:OG1	2.15	0.46
3:X:166:ASP:O	3:X:170:ARG:HG3	2.15	0.46
1:A:152:LEU:HD13	1:A:152:LEU:HA	1.49	0.46
1:A:287:MET:SD	1:A:299:VAL:HG23	2.55	0.46
1:A:975:ARG:NH2	1:A:1346:LEU:HD22	2.30	0.46
1:A:1031:TRP:CH2	1:A:1042:LYS:HG3	2.51	0.46
1:A:1453:TYR:O	1:A:1453:TYR:CD1	2.69	0.46
1:A:1506:THR:HG22	1:A:1507:MET:N	2.31	0.46
2:B:45:ALA:HB3	2:B:81:MET:CE	2.46	0.46
2:B:52:LYS:HE3	2:B:111:PRO:O	2.14	0.46
2:B:143:VAL:O	2:B:143:VAL:HG12	2.15	0.46
2:B:541:LYS:O	2:B:543:THR:HG23	2.15	0.46
2:B:613:SER:HA	2:B:620:VAL:HG23	1.96	0.46
2:B:929:LYS:HA	2:B:929:LYS:HD3	1.74	0.46
2:B:961:THR:HG22	2:B:1327:THR:CB	2.45	0.46
1:C:23:TYR:HE2	1:C:111:PHE:HD2	1.62	0.46
1:C:189:LYS:HG3	1:C:190:ILE:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:656:ASN:CB	1:C:659:ALA:H	2.27	0.46
1:C:906:GLY:N	1:C:929:VAL:HB	2.24	0.46
1:C:963:ILE:CG2	1:C:967:LEU:HD23	2.42	0.46
1:C:1080:ALA:CB	1:C:1148:THR:HG22	2.44	0.46
1:C:1232:LEU:CG	1:C:1233:GLN:HG3	2.38	0.46
1:C:1616:GLN:OE1	1:C:1650:ARG:HD3	2.15	0.46
2:D:39:GLU:O	2:D:87:ILE:HD12	2.15	0.46
2:D:452:THR:O	2:D:453:GLU:O	2.34	0.46
2:D:481:TYR:CE2	2:D:493:GLY:N	2.83	0.46
2:D:1299:LEU:HB3	2:D:1301:ARG:HD3	1.96	0.46
1:A:20:GLU:O	1:A:20:GLU:OE2	2.33	0.46
1:A:74:SER:C	1:A:79:PHE:CE1	2.89	0.46
1:A:127:PHE:CE1	1:A:626:PHE:CD2	3.04	0.46
1:A:773:TRP:CE3	1:A:774:LEU:HB2	2.51	0.46
1:A:923:LEU:HD23	1:A:923:LEU:C	2.35	0.46
1:A:1068:VAL:CG1	1:A:1069:TRP:N	2.78	0.46
1:A:1304:VAL:HG12	1:A:1305:LYS:H	1.80	0.46
2:B:44:GLU:OE1	2:B:480:THR:HG21	2.15	0.46
2:B:953:ARG:CG	2:B:954:VAL:N	2.78	0.46
2:B:1504:GLU:O	2:B:1624:LEU:HD13	2.14	0.46
2:B:1535:ASP:C	2:B:1537:ASN:H	2.18	0.46
1:C:365:PRO:HG2	1:C:464:TYR:HE2	1.79	0.46
1:C:500:ASN:CB	1:C:543:TYR:CE1	2.64	0.46
1:C:554:LEU:N	1:C:658:ASN:HD22	2.13	0.46
1:C:949:ILE:HG22	1:C:949:ILE:O	2.14	0.46
1:C:1622:LYS:HD2	1:C:1642:LEU:CB	2.44	0.46
2:D:449:ILE:HD13	2:D:462:VAL:HG23	1.97	0.46
2:D:575:VAL:CG2	2:D:762:LEU:HD11	2.46	0.46
2:D:810:VAL:CG1	2:D:811:MET:N	2.79	0.46
2:D:1294:TYR:CD2	2:D:1294:TYR:O	2.67	0.46
2:D:1589:ASP:HB3	2:D:1600:ILE:HG13	1.97	0.46
3:X:61:SER:O	3:X:75:PHE:HZ	1.97	0.46
3:Y:58:SER:HB3	3:Y:102:ASN:HD21	1.77	0.46
1:A:500:ASN:O	1:A:542:VAL:HG13	2.16	0.46
1:A:680:GLN:O	1:A:681:LYS:C	2.53	0.46
1:A:993:SER:O	1:A:995:GLU:N	2.49	0.46
2:B:69:PHE:C	2:B:69:PHE:HD2	2.19	0.46
2:B:129:PHE:CE2	2:B:598:ILE:HG23	2.50	0.46
2:B:130:ILE:HG21	2:B:199:ILE:HG21	1.98	0.46
2:B:137:TYR:HB2	2:B:216:VAL:HG23	1.98	0.46
2:B:778:PHE:CD2	2:B:778:PHE:N	2.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:850:LEU:HB2	2:B:882:PHE:CD1	2.50	0.46
2:B:940:THR:O	2:B:940:THR:HG22	2.15	0.46
2:B:1367:ILE:HD13	2:B:1456:VAL:HG21	1.96	0.46
2:B:1399:ARG:HG2	2:B:1399:ARG:HH11	1.79	0.46
2:B:1496:THR:HG23	2:B:1603:LYS:HD2	1.98	0.46
2:B:1499:SER:HA	2:B:1572:ALA:O	2.16	0.46
1:C:20:GLU:HG3	1:C:547:THR:CB	2.45	0.46
1:C:174:VAL:HG22	1:C:175:GLU:H	1.80	0.46
1:C:241:LYS:NZ	1:C:351:PRO:HB3	2.30	0.46
1:C:428:VAL:HG22	1:C:429:THR:N	2.29	0.46
1:C:489:LYS:NZ	2:D:502:ASN:H	2.13	0.46
1:C:680:GLN:O	1:C:681:LYS:C	2.54	0.46
1:C:811:VAL:O	1:C:811:VAL:HG12	2.16	0.46
1:C:829:ILE:HA	1:C:830:PRO:HD3	1.78	0.46
1:C:1080:ALA:HB1	1:C:1148:THR:HA	1.97	0.46
2:D:296:ARG:HG3	2:D:296:ARG:NH1	2.29	0.46
2:D:466:VAL:HG12	2:D:524:TYR:HE2	1.80	0.46
2:D:787:TRP:HB2	2:D:808:ILE:HG22	1.96	0.46
2:D:920:VAL:O	2:D:1330:ASN:HA	2.15	0.46
2:D:929:LYS:HD3	2:D:929:LYS:HA	1.70	0.46
3:Y:77:PRO:O	3:Y:78:LYS:CB	2.63	0.46
3:Y:119:VAL:HG21	3:Y:209:PHE:CB	2.44	0.46
3:Y:185:LYS:HG2	3:Y:186:TYR:CD2	2.51	0.46
1:A:161:LEU:HD21	1:A:185:PHE:CD2	2.51	0.46
1:A:274:ASP:CG	1:A:275:LEU:N	2.69	0.46
1:A:504:LEU:HD21	1:A:651:LEU:CG	2.44	0.46
1:A:534:MET:CB	1:A:538:SER:OG	2.63	0.46
1:A:787:GLN:O	1:A:788:PHE:HB3	2.15	0.46
1:A:1159:CYS:C	1:A:1161:LEU:H	2.18	0.46
1:A:1255:LEU:HD13	1:A:1267:VAL:HG13	1.97	0.46
2:B:352:LYS:HG3	2:B:430:MET:HE1	1.98	0.46
2:B:361:GLU:HB3	2:B:399:ILE:HD13	1.98	0.46
2:B:481:TYR:HE2	2:B:493:GLY:HA3	1.81	0.46
2:B:599:TRP:CE3	2:B:602:ILE:HD12	2.51	0.46
2:B:750:ASP:OD1	2:B:750:ASP:C	2.53	0.46
2:B:1363:LEU:HD23	2:B:1442:ILE:HG12	1.98	0.46
2:B:1573:LEU:HB3	2:B:1575:LEU:HD23	1.97	0.46
1:C:42:GLN:CA	1:C:80:GLN:HG3	2.42	0.46
1:C:1022:PHE:CE2	1:C:1092:TYR:CD1	3.04	0.46
1:C:1535:MET:HA	1:C:1645:ILE:HB	1.98	0.46
2:D:825:VAL:HG11	2:D:918:GLU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1534:GLN:HA	2:D:1534:GLN:OE1	2.16	0.46
2:D:1561:HIS:NE2	2:D:1597:ILE:HD13	2.29	0.46
2:D:1563:TYR:HB3	2:D:1601:ILE:HD11	1.96	0.46
2:D:1567:ARG:HG3	2:D:1567:ARG:HH11	1.80	0.46
3:X:136:LEU:HA	3:X:224:ILE:O	2.14	0.46
3:X:179:LEU:HD11	3:X:180:TYR:CE1	2.50	0.46
1:A:42:GLN:OE1	1:A:500:ASN:ND2	2.48	0.46
1:A:86:THR:C	1:A:87:ILE:HD13	2.35	0.46
1:A:119:ILE:HD12	1:A:119:ILE:C	2.36	0.46
1:A:125:PHE:CD1	1:A:125:PHE:N	2.83	0.46
1:A:128:ILE:HD12	1:A:201:ILE:CG2	2.41	0.46
1:A:216:TYR:N	1:A:216:TYR:CD2	2.82	0.46
1:A:371:ILE:CD1	1:A:433:PHE:CE2	2.96	0.46
1:A:374:GLN:HG2	1:A:382:LEU:CD2	2.45	0.46
1:A:644:ASN:O	1:A:645:VAL:C	2.54	0.46
1:A:982:LEU:C	1:A:984:VAL:N	2.68	0.46
1:A:1244:THR:O	1:A:1245:ALA:C	2.54	0.46
1:A:1671:ILE:HD13	1:A:1676:CYS:SG	2.56	0.46
2:B:398:LEU:HA	2:B:398:LEU:HD23	1.50	0.46
2:B:476:ILE:HG12	2:B:524:TYR:CD2	2.50	0.46
2:B:525:GLN:NE2	2:B:528:ASN:H	2.13	0.46
2:B:1424:ILE:HD13	2:B:1424:ILE:N	2.27	0.46
2:B:1500:LEU:HD22	2:B:1607:ILE:HB	1.98	0.46
1:C:78:LYS:O	1:C:80:GLN:N	2.49	0.46
1:C:705:VAL:HA	1:C:739:ARG:HH12	1.80	0.46
1:C:853:MET:O	1:C:888:VAL:HG12	2.15	0.46
1:C:909:ASN:HD21	5:C:2003:NAG:H83	1.81	0.46
1:C:1093:VAL:HG12	1:C:1095:GLN:NE2	2.30	0.46
1:C:1426:ILE:O	1:C:1426:ILE:HG22	2.16	0.46
1:C:1572:ASN:C	1:C:1573:VAL:HG23	2.35	0.46
2:D:398:LEU:HA	2:D:398:LEU:HD23	1.53	0.46
2:D:933:ARG:HH11	2:D:933:ARG:CG	2.18	0.46
2:D:1351:ASN:OD1	2:D:1351:ASN:N	2.44	0.46
2:D:1573:LEU:HB3	2:D:1575:LEU:HD23	1.98	0.46
3:Y:42:ASP:HB3	3:Y:45:ASP:HB2	1.98	0.46
1:A:25:ILE:CG2	1:A:654:LEU:HB2	2.45	0.46
1:A:219:VAL:O	1:A:219:VAL:HG12	2.15	0.46
1:A:248:ILE:HB	1:A:299:VAL:HG13	1.97	0.46
1:A:296:ILE:CG2	1:A:297:ALA:N	2.77	0.46
1:A:383:VAL:HG23	1:A:386:VAL:HG23	1.98	0.46
1:A:554:LEU:H	1:A:658:ASN:ND2	2.11	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:827:MET:HE2	1:A:912:PHE:CE2	2.51	0.46
1:A:938:SER:OG	1:A:1284:PHE:CE2	2.68	0.46
1:A:1025:LEU:HD13	1:A:1031:TRP:CZ3	2.51	0.46
1:A:1227:PHE:HA	1:A:1228:TRP:CE3	2.51	0.46
1:A:1561:TYR:CD1	1:A:1581:LEU:HD21	2.50	0.46
2:B:267:VAL:HG22	2:B:314:LEU:CD1	2.46	0.46
2:B:338:ILE:O	2:B:339:VAL:HG13	2.16	0.46
2:B:345:ILE:HG13	2:B:428:LYS:HB3	1.98	0.46
2:B:557:GLN:OE1	2:B:557:GLN:CA	2.58	0.46
2:B:582:LYS:O	2:B:583:ALA:C	2.53	0.46
2:B:1508:VAL:HG13	2:B:1631:PHE:HB2	1.97	0.46
1:C:25:ILE:CD1	1:C:41:ILE:HG13	2.46	0.46
1:C:560:TRP:HH2	1:C:673:LEU:HD22	1.80	0.46
1:C:1133:LEU:CD1	1:C:1133:LEU:N	2.71	0.46
1:C:1246:ARG:CZ	1:C:1246:ARG:HB2	2.46	0.46
1:C:1309:LEU:CD1	1:C:1328:MET:HG3	2.45	0.46
1:C:1406:ALA:O	1:C:1472:PHE:HA	2.16	0.46
1:C:1622:LYS:HZ2	1:C:1642:LEU:HD23	1.80	0.46
2:D:275:SER:O	2:D:277:PRO:HD3	2.16	0.46
2:D:384:PHE:CD2	2:D:384:PHE:N	2.84	0.46
4:G:1:NAG:HO3	4:G:2:NAG:C5	2.29	0.46
1:A:374:GLN:HG2	1:A:382:LEU:HD21	1.96	0.46
1:A:993:SER:C	1:A:995:GLU:N	2.60	0.46
1:A:1127:ILE:HD11	1:A:1143:TYR:CE2	2.50	0.46
1:A:1128:LYS:O	1:A:1129:LEU:HD23	2.15	0.46
1:A:1641:SER:C	1:A:1643:THR:N	2.69	0.46
2:B:96:THR:HG22	2:B:97:ASP:O	2.16	0.46
2:B:122:SER:OG	2:B:124:GLN:HB3	2.15	0.46
2:B:148:PHE:CZ	2:B:792:VAL:CG1	2.99	0.46
2:B:484:LEU:HD11	2:B:626:LEU:CG	2.45	0.46
2:B:953:ARG:CG	2:B:954:VAL:H	2.29	0.46
2:B:1510:LEU:O	2:B:1513:GLU:N	2.48	0.46
1:C:291:MET:HE2	1:C:291:MET:HB3	1.79	0.46
1:C:351:PRO:CG	1:C:442:LEU:HD11	2.45	0.46
1:C:766:ARG:HD3	1:C:766:ARG:H	1.80	0.46
1:C:1081:PHE:O	1:C:1084:ARG:HB3	2.15	0.46
1:C:1305:LYS:O	1:C:1307:LEU:HD13	2.16	0.46
1:C:1582:LEU:C	1:C:1594:LYS:HZ2	2.19	0.46
2:D:164:GLU:HA	2:D:174:SER:O	2.16	0.46
2:D:191:LEU:HD12	2:D:958:GLU:HG2	1.98	0.46
2:D:511:THR:O	2:D:512:PRO:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:806:TYR:CD1	2:D:806:TYR:C	2.89	0.46
2:D:830:VAL:CG2	2:D:831:GLU:N	2.75	0.46
2:D:1284:ARG:HG3	2:D:1285:GLU:N	2.30	0.46
2:D:1506:ILE:HD11	2:D:1628:PHE:CE1	2.43	0.46
3:Y:174:VAL:O	3:Y:174:VAL:HG12	2.15	0.46
1:A:100:SER:C	1:A:101:TYR:CD2	2.89	0.46
1:A:164:ILE:HG22	1:A:165:ASP:O	2.16	0.46
1:A:186:PRO:O	1:A:187:ASP:O	2.33	0.46
1:A:296:ILE:HG23	1:A:297:ALA:N	2.30	0.46
1:A:592:MET:O	1:A:783:ARG:HA	2.15	0.46
1:A:909:ASN:HD21	5:A:2003:NAG:C8	2.29	0.46
1:A:1637:TYR:N	1:A:1637:TYR:HD2	2.14	0.46
2:B:87:ILE:H	2:B:87:ILE:CD1	2.26	0.46
2:B:184:TRP:CE3	2:B:184:TRP:N	2.81	0.46
2:B:355:LYS:O	2:B:358:MET:CB	2.63	0.46
2:B:566:LYS:O	2:B:567:LEU:HD23	2.16	0.46
2:B:954:VAL:O	2:B:957:THR:HG23	2.16	0.46
2:B:1505:ARG:HH11	2:B:1505:ARG:CG	2.07	0.46
2:B:1529:LEU:N	2:B:1529:LEU:CD1	2.79	0.46
1:C:307:VAL:O	1:C:311:SER:HB2	2.16	0.46
1:C:382:LEU:HD23	1:C:382:LEU:HA	1.80	0.46
1:C:477:LEU:HD23	1:C:480:GLU:OE1	2.15	0.46
1:C:493:ILE:CG2	1:C:495:LYS:HB2	2.46	0.46
1:C:1379:LEU:HD21	1:C:1495:VAL:HG13	1.97	0.46
1:C:1436:GLU:HG2	1:C:1453:TYR:HE2	1.81	0.46
2:D:148:PHE:HB2	2:D:800:ILE:HD11	1.95	0.46
2:D:1446:PHE:C	2:D:1448:VAL:H	2.19	0.46
3:X:58:SER:HB3	3:X:102:ASN:HD22	1.75	0.46
1:A:20:GLU:HB2	1:A:551:THR:HG22	1.98	0.46
1:A:22:THR:HG21	1:A:657:ALA:CB	2.39	0.46
1:A:285:THR:O	1:A:285:THR:CG2	2.63	0.46
1:A:322:TYR:N	1:A:322:TYR:HD2	2.13	0.46
1:A:382:LEU:HD22	1:A:416:GLY:HA3	1.97	0.46
1:A:690:TYR:CZ	1:A:692:HIS:CB	2.99	0.46
1:A:862:VAL:O	1:A:863:GLU:C	2.53	0.46
1:A:1079:THR:HB	1:A:1107:LEU:HD11	1.98	0.46
2:B:96:THR:HG22	2:B:97:ASP:N	2.31	0.46
2:B:105:VAL:HG12	2:B:118:VAL:HA	1.97	0.46
2:B:139:PRO:HG2	2:B:218:LYS:HE2	1.96	0.46
2:B:210:TYR:CG	2:B:211:THR:N	2.84	0.46
2:B:524:TYR:C	2:B:524:TYR:CD1	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:525:GLN:O	2:B:525:GLN:CD	2.54	0.46
2:B:640:SER:O	2:B:641:ALA:HB2	2.16	0.46
2:B:916:VAL:HG22	2:B:917:PRO:N	2.31	0.46
2:B:1429:LYS:HE3	2:B:1429:LYS:H	1.80	0.46
2:B:1631:PHE:CD2	2:B:1632:SER:N	2.84	0.46
1:C:161:LEU:HD11	1:C:185:PHE:CE2	2.50	0.46
1:C:165:ASP:HA	1:C:166:PRO:HD2	1.76	0.46
1:C:545:ILE:H	1:C:545:ILE:HG12	1.41	0.46
1:C:553:GLU:HA	1:C:658:ASN:HD22	1.81	0.46
1:C:569:ASN:H	1:C:569:ASN:HD22	1.64	0.46
1:C:1068:VAL:CG1	1:C:1069:TRP:N	2.76	0.46
1:C:1156:PHE:O	1:C:1160:PRO:HD3	2.16	0.46
1:C:1298:THR:O	1:C:1299:GLU:C	2.53	0.46
1:C:1332:ASN:O	1:C:1333:PHE:O	2.34	0.46
1:C:1346:LEU:HD12	1:C:1346:LEU:HA	1.48	0.46
1:C:1582:LEU:C	1:C:1594:LYS:NZ	2.70	0.46
1:C:1627:ILE:O	1:C:1627:ILE:HG13	2.16	0.46
2:D:857:CYS:HB3	2:D:885:VAL:CG2	2.45	0.46
2:D:873:LYS:N	2:D:873:LYS:CD	2.79	0.46
2:D:954:VAL:CG1	2:D:955:PRO:HD2	2.38	0.46
2:D:1347:VAL:CG2	2:D:1456:VAL:HG11	2.43	0.46
2:D:1525:LYS:HE3	2:D:1610:TRP:CE2	2.51	0.46
3:X:128:LYS:HD3	3:X:158:GLU:CD	2.36	0.46
3:X:190:ILE:O	3:X:190:ILE:HG12	2.16	0.46
3:Y:215:VAL:O	3:Y:216:LEU:HD13	2.15	0.46
1:A:25:ILE:CB	1:A:654:LEU:HB2	2.46	0.45
1:A:148:LEU:HA	1:A:154:PRO:O	2.15	0.45
1:A:364:LYS:N	1:A:364:LYS:HD2	2.32	0.45
1:A:376:LYS:HA	1:A:381:GLN:O	2.15	0.45
1:A:560:TRP:CH2	1:A:562:ASN:HB2	2.51	0.45
1:A:999:ILE:HD12	1:A:1001:THR:O	2.16	0.45
2:B:144:LEU:HB3	2:B:185:PRO:HB3	1.97	0.45
2:B:416:ASN:CA	2:B:425:GLN:HE22	2.20	0.45
2:B:518:PHE:H	2:B:518:PHE:HD2	1.64	0.45
2:B:1290:TYR:CD2	2:B:1301:ARG:HB3	2.51	0.45
2:B:1382:ILE:HG12	2:B:1427:LEU:HD11	1.98	0.45
1:C:108:SER:OG	1:C:111:PHE:N	2.49	0.45
1:C:114:SER:O	1:C:115:LYS:HE2	2.16	0.45
1:C:328:THR:O	1:C:328:THR:HG22	2.16	0.45
1:C:965:LEU:HD23	1:C:1629:TYR:CD1	2.51	0.45
1:C:1162:VAL:CG2	1:C:1163:LYS:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1234:HIS:CG	1:C:1235:LYS:H	2.34	0.45
1:C:1317:TYR:CE1	1:C:1342:LEU:HD12	2.51	0.45
1:C:1641:SER:C	1:C:1643:THR:N	2.69	0.45
2:D:575:VAL:HG23	2:D:762:LEU:CD1	2.46	0.45
2:D:758:LEU:HD23	2:D:758:LEU:HA	1.70	0.45
2:D:851:LEU:HD21	2:D:865:ARG:HH21	1.81	0.45
2:D:1393:ASP:OD1	2:D:1395:GLU:HB3	2.15	0.45
3:Y:68:ASN:OD1	3:Y:69:GLY:N	2.40	0.45
1:A:57:LYS:O	1:A:102:VAL:HG22	2.16	0.45
1:A:76:GLU:O	1:A:76:GLU:CD	2.55	0.45
1:A:263:ALA:O	1:A:291:MET:HE3	2.16	0.45
1:A:455:ILE:HG22	1:A:456:ALA:H	1.79	0.45
1:A:705:VAL:HA	1:A:739:ARG:HH12	1.81	0.45
1:A:718:ILE:HD11	1:A:728:PHE:CD2	2.51	0.45
1:A:733:VAL:O	1:A:737:GLN:HG2	2.15	0.45
1:A:871:PRO:HD2	1:A:872:VAL:H	1.78	0.45
1:A:883:CYS:O	1:A:884:VAL:C	2.54	0.45
1:A:1022:PHE:HE2	1:A:1092:TYR:CD1	2.34	0.45
1:A:1213:LYS:CG	1:A:1266:TYR:HE2	2.22	0.45
1:A:1562:LYS:O	1:A:1563:VAL:HG13	2.16	0.45
2:B:132:THR:O	2:B:133:ASP:C	2.55	0.45
2:B:570:ASP:O	2:B:573:ALA:CB	2.64	0.45
2:B:756:LEU:HD22	2:B:778:PHE:CD1	2.51	0.45
2:B:1482:ASN:HB2	2:B:1495:GLU:HA	1.97	0.45
1:C:20:GLU:HG3	1:C:547:THR:HB	1.98	0.45
1:C:185:PHE:HD1	1:C:186:PRO:HD2	1.82	0.45
1:C:465:LEU:HD23	1:C:556:SER:HA	1.98	0.45
1:C:535:VAL:HA	1:C:563:ILE:CD1	2.46	0.45
1:C:590:LEU:HD21	1:C:774:LEU:HD11	1.99	0.45
1:C:690:TYR:CZ	1:C:692:HIS:CB	2.98	0.45
1:C:1525:CYS:C	1:C:1528:VAL:HG22	2.28	0.45
2:D:79:GLY:O	2:D:81:MET:N	2.50	0.45
2:D:107:GLN:HG3	2:D:116:GLU:HG3	1.98	0.45
2:D:208:GLU:O	2:D:209:ASN:C	2.55	0.45
2:D:618:LEU:HG	2:D:634:LEU:HD11	1.98	0.45
3:X:107:GLN:CD	3:X:110:ILE:HD11	2.36	0.45
3:X:119:VAL:HG22	3:X:212:MET:HB2	1.99	0.45
1:A:240:TYR:CD2	1:A:241:LYS:N	2.85	0.45
1:A:365:PRO:HG2	1:A:464:TYR:HE2	1.80	0.45
1:A:436:LYS:CB	1:A:449:ARG:HG2	2.45	0.45
1:A:506:LYS:HD2	1:A:536:PRO:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:GLN:O	1:A:533:ASN:C	2.55	0.45
1:A:710:THR:OG1	1:A:713:GLN:HG3	2.16	0.45
1:A:961:TYR:CD1	1:A:961:TYR:C	2.89	0.45
1:A:1128:LYS:HD3	1:A:1414:GLU:OE1	2.16	0.45
1:A:1249:GLU:HG3	1:A:1289:ASP:CA	2.46	0.45
1:A:1300:TYR:C	1:A:1300:TYR:CD2	2.89	0.45
1:A:1646:GLU:HG2	1:A:1660:PHE:CZ	2.51	0.45
2:B:760:LYS:HE3	2:B:776:MET:SD	2.55	0.45
2:B:853:ASN:HA	2:B:854:PRO:HD3	1.56	0.45
2:B:1371:TYR:HB2	2:B:1377:SER:HB3	1.99	0.45
1:C:96:GLN:HG3	1:C:97:ASN:N	2.31	0.45
1:C:150:ASP:CG	1:C:151:ASP:N	2.70	0.45
1:C:578:ASP:CG	1:C:578:ASP:O	2.55	0.45
1:C:760:VAL:HG22	1:C:760:VAL:O	2.16	0.45
1:C:979:VAL:CG2	1:C:1326:TYR:CE1	2.79	0.45
1:C:1278:GLN:NE2	1:C:1293:ALA:CB	2.79	0.45
2:D:63:ARG:CB	2:D:65:GLN:HG3	2.46	0.45
2:D:103:TYR:CD2	2:D:103:TYR:N	2.85	0.45
2:D:130:ILE:HG21	2:D:199:ILE:HG21	1.98	0.45
2:D:954:VAL:O	2:D:957:THR:HG23	2.15	0.45
2:D:1380:THR:HG22	2:D:1381:ILE:N	2.31	0.45
2:D:1446:PHE:CD2	2:D:1448:VAL:HG13	2.51	0.45
2:D:1508:VAL:HB	2:D:1509:PRO:CD	2.44	0.45
1:A:61:ASP:O	1:A:62:LYS:CB	2.64	0.45
1:A:224:LEU:CD2	1:A:225:PRO:HD2	2.44	0.45
1:A:661:ASP:OD2	1:A:663:GLN:N	2.50	0.45
1:A:855:PHE:HB2	1:A:914:LEU:HD11	1.98	0.45
1:A:909:ASN:HA	1:A:926:THR:HA	1.98	0.45
1:A:989:SER:O	1:A:993:SER:HB3	2.16	0.45
1:A:1215:GLU:OE1	1:A:1215:GLU:HA	2.16	0.45
1:A:1268:ASN:ND2	1:A:1268:ASN:N	2.64	0.45
1:A:1305:LYS:O	1:A:1307:LEU:HD13	2.17	0.45
2:B:178:VAL:HG21	2:B:183:PHE:CD1	2.52	0.45
2:B:531:ILE:HD11	2:B:634:LEU:CD2	2.45	0.45
2:B:778:PHE:N	2:B:778:PHE:HD2	2.13	0.45
2:B:962:LYS:HD2	2:B:1302:THR:CG2	2.46	0.45
1:C:484:ILE:HD13	1:C:540:LEU:HD21	1.96	0.45
1:C:600:VAL:CG2	1:C:780:VAL:HG21	2.46	0.45
1:C:690:TYR:CE1	1:C:696:LYS:HD2	2.52	0.45
1:C:773:TRP:CE3	1:C:774:LEU:HB2	2.52	0.45
2:D:778:PHE:N	2:D:778:PHE:HD2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:953:ARG:CG	2:D:954:VAL:H	2.29	0.45
2:D:1296:ASN:O	2:D:1297:ALA:C	2.54	0.45
2:D:1313:VAL:HG21	2:D:1323:MET:HE2	1.98	0.45
2:D:1633:TYR:CE1	2:D:1637:GLU:OE1	2.69	0.45
3:X:60:VAL:HG23	3:X:60:VAL:O	2.17	0.45
1:A:136:THR:O	1:A:139:GLN:HG3	2.17	0.45
1:A:248:ILE:HD13	1:A:325:ILE:HD13	1.99	0.45
1:A:407:SER:O	1:A:420:PHE:HE1	1.99	0.45
1:A:481:HIS:CD2	2:B:387:MET:HG3	2.51	0.45
1:A:1023:HIS:O	1:A:1027:THR:HB	2.15	0.45
1:A:1328:MET:HE3	1:A:1328:MET:HB2	1.85	0.45
1:A:1468:PRO:CD	1:A:1473:LEU:HD13	2.45	0.45
1:A:1557:ILE:HD13	1:A:1622:LYS:HG3	1.99	0.45
2:B:103:TYR:CD2	2:B:103:TYR:N	2.83	0.45
2:B:162:ILE:HG22	2:B:202:LYS:O	2.16	0.45
2:B:188:LEU:HD13	2:B:216:VAL:CG2	2.47	0.45
2:B:456:PRO:CG	2:B:515:ILE:HD11	2.46	0.45
2:B:842:GLU:O	2:B:844:ILE:HG23	2.17	0.45
2:B:922:LYS:NZ	2:B:952:ASP:OD2	2.50	0.45
2:B:1344:HIS:ND1	4:F:1:NAG:C8	2.79	0.45
1:C:74:SER:HA	1:C:79:PHE:CE1	2.51	0.45
1:C:420:PHE:CD2	1:C:420:PHE:N	2.84	0.45
1:C:473:HIS:CE1	2:D:455:LYS:HE3	2.51	0.45
1:C:640:LEU:H	1:C:644:ASN:CB	2.27	0.45
1:C:970:LYS:C	1:C:971:THR:CG2	2.85	0.45
1:C:1561:TYR:HE1	1:C:1581:LEU:HG	1.82	0.45
2:D:44:GLU:OE2	2:D:523:TYR:OH	2.33	0.45
2:D:105:VAL:HG12	2:D:118:VAL:HA	1.99	0.45
2:D:315:TYR:CD1	2:D:315:TYR:C	2.89	0.45
2:D:570:ASP:O	2:D:573:ALA:CB	2.65	0.45
2:D:1529:LEU:N	2:D:1529:LEU:CD1	2.80	0.45
3:X:139:ASN:HB2	3:X:227:THR:HG23	1.98	0.45
1:A:40:VAL:CG2	1:A:41:ILE:N	2.79	0.45
1:A:222:TYR:HE2	1:A:224:LEU:HA	1.81	0.45
1:A:288:GLN:O	1:A:289:ASN:C	2.55	0.45
1:A:419:SER:HB2	2:B:459:ASN:ND2	2.14	0.45
1:A:554:LEU:N	1:A:658:ASN:HD22	2.13	0.45
1:A:690:TYR:CE1	1:A:696:LYS:HD2	2.52	0.45
1:A:774:LEU:HG	1:A:788:PHE:HE1	1.80	0.45
1:A:1180:LEU:HD21	1:A:1208:ILE:HA	1.98	0.45
1:A:1488:LEU:HD12	1:A:1488:LEU:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1570:VAL:HG22	1:A:1575:VAL:HA	1.99	0.45
1:A:1648:TRP:NE1	1:A:1664:LEU:CD2	2.79	0.45
2:B:159:LYS:HE2	2:B:180:LEU:HD12	1.99	0.45
2:B:410:PRO:CA	2:B:431:THR:HG22	2.46	0.45
2:B:518:PHE:CD2	2:B:518:PHE:O	2.70	0.45
2:B:613:SER:HA	2:B:620:VAL:CG2	2.46	0.45
2:B:780:LEU:HD11	2:B:787:TRP:HD1	1.82	0.45
2:B:862:LYS:NZ	2:B:1519:ASN:HB3	2.32	0.45
2:B:1343:PHE:CZ	2:B:1371:TYR:HD1	2.35	0.45
2:B:1391:LEU:HB2	2:B:1417:MET:CE	2.47	0.45
1:C:20:GLU:O	1:C:20:GLU:OE2	2.34	0.45
1:C:224:LEU:HD23	1:C:225:PRO:CD	2.44	0.45
1:C:892:SER:HB3	1:C:893:SER:H	1.41	0.45
1:C:1113:LEU:HD23	1:C:1114:ASP:H	1.81	0.45
2:D:184:TRP:CE3	2:D:184:TRP:N	2.81	0.45
2:D:378:PRO:HA	2:D:389:THR:HA	1.99	0.45
3:Y:222:ARG:HE	3:Y:222:ARG:HB2	1.60	0.45
1:A:256:TYR:HB3	1:A:848:TYR:OH	2.17	0.45
1:A:532:GLN:HA	1:A:535:VAL:HG13	1.98	0.45
1:A:532:GLN:O	1:A:534:MET:N	2.49	0.45
1:A:916:THR:O	1:A:918:PHE:N	2.50	0.45
1:A:1186:PHE:HD1	1:A:1250:THR:HG22	1.82	0.45
1:A:1226:ARG:CD	1:A:1266:TYR:HE1	2.29	0.45
1:A:1332:ASN:O	1:A:1333:PHE:O	2.35	0.45
2:B:208:GLU:O	2:B:209:ASN:C	2.55	0.45
2:B:267:VAL:HG22	2:B:314:LEU:HD12	1.99	0.45
2:B:481:TYR:CE1	2:B:506:MET:SD	2.97	0.45
2:B:855:ALA:O	2:B:856:PHE:CD1	2.70	0.45
2:B:1567:ARG:HG3	2:B:1567:ARG:HH11	1.82	0.45
1:C:274:ASP:OD1	1:C:277:ASP:CG	2.55	0.45
1:C:284:GLN:HG2	1:C:310:LEU:CD1	2.47	0.45
1:C:374:GLN:HG2	1:C:382:LEU:CD2	2.47	0.45
1:C:376:LYS:HA	1:C:381:GLN:O	2.16	0.45
1:C:382:LEU:HD22	1:C:416:GLY:HA3	1.97	0.45
1:C:465:LEU:HG	1:C:466:TYR:N	2.30	0.45
1:C:503:ILE:O	1:C:510:ILE:HG12	2.17	0.45
1:C:612:VAL:HG21	1:C:769:PHE:CE2	2.52	0.45
1:C:1106:TRP:CZ2	1:C:1111:TYR:HE2	2.34	0.45
2:D:83:VAL:C	2:D:85:PRO:HD3	2.36	0.45
2:D:378:PRO:HB2	2:D:416:ASN:O	2.17	0.45
2:D:1382:ILE:CD1	2:D:1458:VAL:HG22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1524:TYR:HB3	2:D:1544:VAL:HG13	1.98	0.45
1:A:120:THR:CG2	1:A:121:TYR:N	2.80	0.45
1:A:274:ASP:OD1	1:A:277:ASP:CG	2.55	0.45
1:A:505:SER:O	1:A:506:LYS:C	2.55	0.45
1:A:560:TRP:CH2	1:A:673:LEU:HD22	2.51	0.45
1:A:839:ILE:HD12	1:A:839:ILE:HA	1.71	0.45
1:A:961:TYR:HE1	1:A:963:ILE:HG12	1.82	0.45
1:A:1142:LEU:HD13	1:A:1187:THR:CG2	2.47	0.45
1:A:1636:ILE:O	1:A:1636:ILE:HG22	2.16	0.45
2:B:44:GLU:OE2	2:B:523:TYR:OH	2.31	0.45
2:B:107:GLN:HG3	2:B:116:GLU:HG3	1.98	0.45
2:B:173:VAL:HG13	2:B:964:ILE:HD11	1.98	0.45
2:B:415:THR:O	2:B:425:GLN:CD	2.55	0.45
2:B:891:LEU:H	2:B:891:LEU:HG	1.21	0.45
1:C:111:PHE:CE2	1:C:113:LYS:CB	2.94	0.45
1:C:174:VAL:CG2	1:C:175:GLU:N	2.80	0.45
1:C:356:LEU:HG	1:C:452:TYR:CE2	2.51	0.45
1:C:847:ASN:C	1:C:847:ASN:OD1	2.55	0.45
1:C:977:LEU:HD22	1:C:978:SER:N	2.32	0.45
1:C:1244:THR:H	1:C:1247:MET:HE3	1.81	0.45
1:C:1272:LYS:O	1:C:1276:GLU:HG3	2.16	0.45
1:C:1304:VAL:HG12	1:C:1305:LYS:H	1.77	0.45
2:D:615:GLN:CB	2:D:616:ASN:HD22	2.29	0.45
2:D:953:ARG:CG	2:D:954:VAL:N	2.80	0.45
1:A:23:TYR:CE2	1:A:111:PHE:CD2	3.05	0.45
1:A:96:GLN:O	1:A:97:ASN:O	2.35	0.45
1:A:477:LEU:HD22	1:A:477:LEU:N	2.31	0.45
1:A:481:HIS:CE1	2:B:387:MET:CE	3.00	0.45
1:A:491:PRO:O	1:A:491:PRO:HG2	2.17	0.45
1:A:760:VAL:O	1:A:760:VAL:HG22	2.17	0.45
1:A:1053:MET:HE2	1:A:1086:LEU:HD13	1.98	0.45
1:A:1080:ALA:CB	1:A:1148:THR:HG22	2.47	0.45
1:A:1093:VAL:HG12	1:A:1095:GLN:NE2	2.31	0.45
1:A:1127:ILE:HB	1:A:1129:LEU:HD21	1.98	0.45
1:A:1474:CYS:HB3	1:A:1476:ARG:HH12	1.82	0.45
2:B:297:ASP:OD2	2:B:297:ASP:N	2.49	0.45
2:B:481:TYR:CE2	2:B:493:GLY:HA3	2.51	0.45
2:B:598:ILE:HD13	2:B:800:ILE:HG21	1.95	0.45
2:B:1561:HIS:NE2	2:B:1597:ILE:CD1	2.80	0.45
2:B:1561:HIS:NE2	2:B:1597:ILE:HD13	2.30	0.45
1:C:491:PRO:O	1:C:493:ILE:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:606:ASP:OD2	1:C:795:THR:HG21	2.17	0.45
1:C:1013:MET:HE2	1:C:1287:THR:HB	1.97	0.45
1:C:1629:TYR:H	1:C:1629:TYR:HD2	1.65	0.45
2:D:96:THR:HG22	2:D:97:ASP:O	2.16	0.45
2:D:524:TYR:CD1	2:D:524:TYR:C	2.90	0.45
2:D:824:VAL:CG2	2:D:828:GLU:OE1	2.64	0.45
2:D:1386:MET:HA	2:D:1386:MET:HE2	1.99	0.45
2:D:1623:LYS:HD2	2:D:1623:LYS:HA	1.68	0.45
3:Y:191:ILE:O	3:Y:198:LYS:HA	2.17	0.45
1:A:96:GLN:HG3	1:A:97:ASN:N	2.32	0.45
1:A:190:ILE:CG2	1:A:191:PRO:CD	2.95	0.45
1:A:489:LYS:NZ	2:B:502:ASN:H	2.14	0.45
1:A:506:LYS:O	1:A:508:LYS:N	2.49	0.45
1:A:523:TYR:CE2	2:B:465:ASN:CG	2.90	0.45
1:A:596:MET:SD	1:A:782:ARG:HG2	2.57	0.45
1:A:840:GLN:HE21	1:A:897:THR:HG21	1.81	0.45
1:A:862:VAL:HG12	1:A:863:GLU:OE1	2.16	0.45
1:A:950:TYR:C	1:A:952:THR:H	2.20	0.45
1:A:1054:LEU:HD23	1:A:1057:MET:HE1	1.98	0.45
1:A:1560:ALA:O	1:A:1561:TYR:HB3	2.17	0.45
1:A:1638:PRO:HG2	1:A:1639:LEU:H	1.81	0.45
2:B:63:ARG:CB	2:B:65:GLN:HG3	2.47	0.45
2:B:133:ASP:CA	2:B:757:TRP:HZ3	2.28	0.45
2:B:628:LEU:HD12	2:B:629:THR:H	1.81	0.45
2:B:1347:VAL:CG2	2:B:1367:ILE:HG23	2.43	0.45
2:B:1500:LEU:HD13	2:B:1501:ASN:N	2.32	0.45
2:B:1631:PHE:CD2	2:B:1631:PHE:C	2.90	0.45
1:C:24:VAL:HG11	1:C:543:TYR:HE2	1.75	0.45
1:C:190:ILE:CG2	1:C:191:PRO:N	2.80	0.45
1:C:259:VAL:HB	1:C:295:GLY:CA	2.46	0.45
1:C:439:ALA:O	1:C:441:ASP:N	2.43	0.45
1:C:473:HIS:CE1	2:D:455:LYS:CE	3.00	0.45
1:C:577:PRO:HD2	1:C:588:VAL:CG2	2.47	0.45
1:C:923:LEU:HD21	1:C:925:LYS:HD3	1.99	0.45
1:C:1013:MET:O	1:C:1015:VAL:N	2.50	0.45
1:C:1250:THR:O	1:C:1252:ALA:N	2.50	0.45
1:C:1646:GLU:HG2	1:C:1660:PHE:CZ	2.52	0.45
2:D:173:VAL:HA	2:D:964:ILE:CD1	2.47	0.45
2:D:176:ASN:HB3	2:D:184:TRP:HZ2	1.82	0.45
2:D:224:PHE:CE1	2:D:320:VAL:CG1	3.01	0.45
2:D:436:GLN:O	2:D:437:THR:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:525:GLN:O	2:D:525:GLN:CD	2.55	0.45
2:D:810:VAL:HG12	2:D:811:MET:N	2.31	0.45
2:D:965:ILE:HD13	2:D:1277:ILE:HD13	1.99	0.45
1:A:60:PRO:CG	1:A:61:ASP:H	2.30	0.44
1:A:149:ASN:O	1:A:152:LEU:N	2.25	0.44
1:A:476:LEU:HA	1:A:476:LEU:HD23	1.83	0.44
1:A:491:PRO:HB2	1:A:493:ILE:C	2.36	0.44
1:A:1066:TYR:HD1	1:A:1079:THR:HG23	1.83	0.44
1:A:1156:PHE:O	1:A:1160:PRO:HD3	2.17	0.44
1:A:1240:PRO:HB2	1:A:1242:THR:CG2	2.47	0.44
2:B:61:PHE:CD1	2:B:62:PRO:HA	2.52	0.44
2:B:176:ASN:HB3	2:B:184:TRP:HZ2	1.82	0.44
2:B:189:PRO:C	2:B:191:LEU:N	2.69	0.44
2:B:280:LEU:HG	2:B:280:LEU:O	2.16	0.44
2:B:523:TYR:CB	2:B:533:ALA:HB2	2.47	0.44
2:B:580:VAL:HG13	2:B:584:VAL:CG2	2.47	0.44
2:B:1609:ARG:O	2:B:1611:PRO:HD3	2.17	0.44
2:B:1637:GLU:O	2:B:1638:PHE:CG	2.70	0.44
1:C:77:ASN:O	1:C:78:LYS:C	2.54	0.44
1:C:506:LYS:O	1:C:508:LYS:N	2.51	0.44
1:C:554:LEU:HB2	1:C:642:ASN:OD1	2.17	0.44
1:C:662:SER:O	1:C:663:GLN:C	2.56	0.44
1:C:963:ILE:HA	1:C:964:PRO:HD3	1.72	0.44
1:C:1386:ILE:HG13	1:C:1387:GLU:N	2.29	0.44
2:D:31:ALA:O	2:D:119:VAL:HG12	2.17	0.44
2:D:525:GLN:NE2	2:D:528:ASN:H	2.15	0.44
2:D:640:SER:O	2:D:641:ALA:HB2	2.16	0.44
2:D:946:LYS:HD3	2:D:946:LYS:N	2.32	0.44
2:D:1343:PHE:CZ	2:D:1371:TYR:HD1	2.35	0.44
2:D:1382:ILE:HG12	2:D:1427:LEU:HD11	1.99	0.44
2:D:1425:ILE:HG22	2:D:1427:LEU:HD12	1.98	0.44
3:X:40:LEU:HD11	3:X:209:PHE:CZ	2.52	0.44
1:A:134:VAL:HA	1:A:218:GLU:O	2.17	0.44
1:A:356:LEU:HG	1:A:452:TYR:CE2	2.53	0.44
1:A:653:PHE:CE1	1:A:660:ASP:CB	3.00	0.44
1:A:694:VAL:O	1:A:694:VAL:HG12	2.16	0.44
1:A:1033:ILE:CG2	1:A:1034:PHE:N	2.80	0.44
1:A:1259:LEU:HD21	1:A:1267:VAL:HG11	1.98	0.44
2:B:1284:ARG:CG	2:B:1285:GLU:H	2.29	0.44
2:B:1593:THR:HG21	2:B:1596:LYS:HE3	2.00	0.44
2:B:1597:ILE:HD11	2:B:1599:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1611:PRO:HA	2:B:1615:GLU:OE1	2.17	0.44
2:B:1617:GLN:H	2:B:1617:GLN:HG2	1.66	0.44
1:C:330:ILE:HG22	1:C:337:SER:HB3	1.99	0.44
1:C:374:GLN:HG2	1:C:382:LEU:HD21	1.98	0.44
1:C:500:ASN:OD1	1:C:514:THR:HG23	2.18	0.44
1:C:584:PRO:CB	1:C:792:ASP:HA	2.37	0.44
1:C:624:PHE:CD1	1:C:625:GLN:N	2.85	0.44
1:C:639:GLY:HA2	1:C:648:LEU:CD1	2.44	0.44
1:C:700:TYR:O	1:C:703:ALA:N	2.50	0.44
2:D:111:PRO:O	2:D:113:VAL:HG23	2.18	0.44
2:D:235:PHE:CE2	2:D:299:PHE:CE2	3.05	0.44
2:D:336:ILE:HA	2:D:336:ILE:HD13	1.79	0.44
2:D:739:PHE:CE2	2:D:847:ARG:NE	2.85	0.44
3:X:201:ILE:HD13	3:X:207:LEU:HD23	2.00	0.44
1:A:243:PHE:CE2	1:A:304:GLU:CA	3.00	0.44
1:A:351:PRO:CG	1:A:442:LEU:HD11	2.48	0.44
1:A:414:ASP:OD1	1:A:414:ASP:N	2.50	0.44
1:A:421:VAL:HG23	2:B:507:ASN:ND2	2.32	0.44
1:A:535:VAL:O	1:A:563:ILE:HG12	2.17	0.44
1:A:576:SER:HB2	1:A:589:SER:H	1.81	0.44
1:A:624:PHE:CD1	1:A:625:GLN:N	2.85	0.44
1:A:1153:ARG:CZ	1:A:1168:LEU:HD12	2.47	0.44
1:A:1226:ARG:CD	1:A:1266:TYR:CE1	3.01	0.44
1:A:1525:CYS:N	1:A:1528:VAL:CG1	2.79	0.44
2:B:111:PRO:O	2:B:113:VAL:HG23	2.18	0.44
2:B:345:ILE:HD11	2:B:427:THR:CA	2.47	0.44
1:C:502:LEU:HB2	1:C:541:LEU:HD21	1.97	0.44
1:C:667:GLU:HA	1:C:668:PRO:HD3	1.79	0.44
1:C:1022:PHE:O	1:C:1024:TYR:N	2.50	0.44
1:C:1286:SER:CB	1:C:1499:HIS:HA	2.46	0.44
1:C:1532:CYS:O	1:C:1641:SER:N	2.51	0.44
2:D:148:PHE:CZ	2:D:792:VAL:CG1	3.00	0.44
2:D:344:GLN:O	2:D:366:VAL:HA	2.17	0.44
2:D:838:ASN:HB2	2:D:844:ILE:HD11	1.98	0.44
2:D:1345:LEU:HD12	2:D:1368:CYS:O	2.17	0.44
2:D:1597:ILE:HD11	2:D:1599:TYR:CE1	2.53	0.44
2:D:1610:TRP:CE2	2:D:1628:PHE:HD2	2.35	0.44
3:Y:179:LEU:HD11	3:Y:180:TYR:CE1	2.51	0.44
1:A:465:LEU:HD12	1:A:466:TYR:H	1.83	0.44
1:A:493:ILE:CG2	1:A:495:LYS:HB2	2.45	0.44
1:A:632:LEU:N	1:A:632:LEU:CD2	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:977:LEU:CD2	1:A:1361:VAL:HG22	2.48	0.44
1:A:981:GLY:O	1:A:1356:LEU:O	2.35	0.44
1:A:1069:TRP:CH2	1:A:1465:ASN:ND2	2.85	0.44
1:A:1573:VAL:HG12	1:A:1603:LYS:HD3	1.95	0.44
2:B:515:ILE:HG21	2:B:599:TRP:CZ2	2.52	0.44
2:B:739:PHE:CE2	2:B:847:ARG:NE	2.86	0.44
2:B:847:ARG:HG3	2:B:869:GLN:CG	2.42	0.44
1:C:257:ASN:ND2	1:C:892:SER:HA	2.27	0.44
1:C:398:ASN:O	1:C:399:GLN:CB	2.64	0.44
1:C:532:GLN:O	1:C:533:ASN:C	2.53	0.44
1:C:854:GLN:NE2	1:C:854:GLN:N	2.65	0.44
1:C:1219:LYS:HE2	1:C:1239:VAL:CG2	2.45	0.44
1:C:1268:ASN:N	1:C:1269:PRO:HD2	2.33	0.44
1:C:1298:THR:O	1:C:1301:SER:N	2.51	0.44
2:D:150:MET:HG3	2:D:602:ILE:HD11	2.00	0.44
2:D:570:ASP:O	2:D:573:ALA:HB2	2.17	0.44
2:D:642:ALA:O	2:D:643:LYS:HB3	2.17	0.44
2:D:1371:TYR:CB	2:D:1377:SER:HB3	2.48	0.44
2:D:1522:TYR:HD1	2:D:1524:TYR:CE1	2.35	0.44
2:D:1522:TYR:HD1	2:D:1524:TYR:CZ	2.35	0.44
3:X:185:LYS:HG2	3:X:186:TYR:CD2	2.53	0.44
3:Y:88:GLY:O	3:Y:91:LYS:N	2.43	0.44
3:Y:139:ASN:HB2	3:Y:227:THR:HG23	2.00	0.44
1:A:73:LEU:HB2	1:A:79:PHE:HA	1.98	0.44
1:A:333:THR:OG1	1:A:334:GLY:N	2.50	0.44
1:A:421:VAL:HG23	2:B:507:ASN:HD22	1.81	0.44
1:A:532:GLN:OE1	1:A:532:GLN:CA	2.57	0.44
1:A:1421:HIS:CD2	1:A:1422:ALA:N	2.85	0.44
1:A:1559:TYR:HE2	1:A:1590:ALA:O	1.98	0.44
1:A:1561:TYR:HE1	1:A:1598:ILE:HD11	1.83	0.44
2:B:47:GLY:O	2:B:48:ASP:HB2	2.17	0.44
2:B:257:VAL:CG1	2:B:258:GLU:N	2.80	0.44
2:B:558:MET:HA	2:B:559:PRO:HD3	1.85	0.44
2:B:830:VAL:HG23	2:B:831:GLU:N	2.32	0.44
1:C:120:THR:CG2	1:C:121:TYR:N	2.81	0.44
1:C:316:GLU:HA	1:C:319:ASN:HB2	1.99	0.44
1:C:480:GLU:HG2	2:D:389:THR:HB	2.00	0.44
1:C:909:ASN:HA	1:C:926:THR:HA	1.99	0.44
1:C:930:VAL:HA	1:C:931:PRO:HD3	1.82	0.44
1:C:1459:HIS:N	1:C:1459:HIS:HD2	2.15	0.44
1:C:1549:LYS:H	1:C:1549:LYS:HG2	1.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1637:TYR:N	1:C:1637:TYR:HD2	2.15	0.44
2:D:41:ILE:O	2:D:85:PRO:HD2	2.18	0.44
2:D:89:ILE:CD1	2:D:104:VAL:HG11	2.48	0.44
2:D:134:LYS:HD2	2:D:584:VAL:HG11	1.99	0.44
2:D:445:LEU:HD23	2:D:533:ALA:HA	1.98	0.44
2:D:613:SER:HA	2:D:620:VAL:HG23	1.99	0.44
2:D:946:LYS:CD	2:D:946:LYS:H	2.29	0.44
2:D:962:LYS:HD2	2:D:1302:THR:CG2	2.47	0.44
3:Y:188:LYS:HD3	3:Y:202:ASP:CA	2.42	0.44
4:G:1:NAG:O3	4:G:2:NAG:O5	2.34	0.44
1:A:60:PRO:CG	1:A:61:ASP:N	2.81	0.44
1:A:284:GLN:HG2	1:A:310:LEU:CD1	2.47	0.44
1:A:569:ASN:HD22	1:A:569:ASN:H	1.64	0.44
1:A:606:ASP:OD2	1:A:795:THR:HG21	2.18	0.44
1:A:671:GLU:HB2	1:A:672:ILE:H	1.66	0.44
1:A:979:VAL:C	1:A:980:LYS:HG2	2.37	0.44
1:A:1003:LEU:HA	1:A:1004:PRO:HD2	1.49	0.44
1:A:1663:ASN:O	1:A:1666:GLU:HB3	2.18	0.44
2:B:296:ARG:HD2	2:B:296:ARG:HA	1.90	0.44
2:B:386:SER:O	2:B:398:LEU:HD11	2.18	0.44
2:B:930:LEU:HD13	2:B:1315:ALA:HB2	1.99	0.44
2:B:1282:PRO:O	2:B:1283:ASP:C	2.56	0.44
2:B:1387:LEU:O	2:B:1390:PHE:HB2	2.16	0.44
2:B:1425:ILE:HG22	2:B:1427:LEU:HD12	2.00	0.44
2:B:1438:LEU:HD13	2:B:1438:LEU:C	2.37	0.44
2:B:1523:VAL:O	2:B:1548:ILE:HB	2.18	0.44
1:C:60:PRO:CG	1:C:61:ASP:H	2.30	0.44
1:C:152:LEU:HA	1:C:152:LEU:HD13	1.48	0.44
1:C:415:ASP:N	1:C:415:ASP:OD1	2.48	0.44
1:C:510:ILE:HA	3:Y:150:ILE:CG1	2.48	0.44
1:C:535:VAL:HA	1:C:563:ILE:HD11	1.99	0.44
1:C:694:VAL:O	1:C:694:VAL:HG12	2.18	0.44
1:C:779:LEU:O	1:C:781:PRO:HD3	2.18	0.44
1:C:1200:LYS:HE3	1:C:1200:LYS:HB3	1.79	0.44
1:C:1268:ASN:ND2	1:C:1268:ASN:N	2.66	0.44
1:C:1428:LEU:HD11	1:C:1434:ALA:HB2	1.99	0.44
1:C:1636:ILE:O	1:C:1636:ILE:HG22	2.17	0.44
2:D:220:VAL:O	2:D:222:PRO:N	2.50	0.44
2:D:518:PHE:HE2	2:D:538:VAL:CG1	2.30	0.44
2:D:818:LEU:HG	2:D:820:MET:HE3	2.00	0.44
2:D:824:VAL:HG21	2:D:830:VAL:CG1	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1330:ASN:N	2:D:1330:ASN:HD22	2.15	0.44
2:D:1365:LEU:HD21	2:D:1472:TYR:CE1	2.53	0.44
2:D:1444:LYS:NZ	2:D:1447:GLU:HA	2.32	0.44
2:D:1454:GLY:HA3	2:D:1472:TYR:CE2	2.53	0.44
2:D:1525:LYS:HE3	2:D:1610:TRP:NE1	2.32	0.44
1:A:42:GLN:HE21	1:A:44:TYR:N	2.10	0.44
1:A:180:ILE:CG2	1:A:181:GLY:N	2.81	0.44
1:A:250:ILE:O	1:A:250:ILE:HG13	2.17	0.44
1:A:273:GLU:O	1:A:274:ASP:HB3	2.17	0.44
1:A:307:VAL:O	1:A:311:SER:HB2	2.18	0.44
1:A:316:GLU:HA	1:A:319:ASN:HB2	1.99	0.44
1:A:383:VAL:HG23	1:A:386:VAL:CG2	2.48	0.44
1:A:483:ASN:HD21	2:B:399:ILE:HB	1.81	0.44
1:A:599:TRP:O	1:A:803:GLY:CA	2.58	0.44
1:A:955:ARG:O	1:A:1349:SER:HA	2.18	0.44
1:A:1016:VAL:O	1:A:1020:TYR:HD2	2.01	0.44
1:A:1024:TYR:HB2	1:A:1298:THR:CG2	2.48	0.44
1:A:1066:TYR:CD1	1:A:1079:THR:HG23	2.53	0.44
1:A:1096:ASN:O	1:A:1097:GLN:C	2.55	0.44
1:A:1540:ASP:HA	1:A:1660:PHE:CD1	2.53	0.44
1:A:1627:ILE:HD12	1:A:1629:TYR:HB3	2.00	0.44
2:B:63:ARG:HD2	2:B:65:GLN:NE2	2.33	0.44
2:B:518:PHE:CD2	2:B:538:VAL:HB	2.42	0.44
2:B:922:LYS:HE3	2:B:1329:TYR:OH	2.18	0.44
2:B:1486:ILE:O	2:B:1486:ILE:HG13	2.18	0.44
2:B:1522:TYR:CE2	2:B:1585:GLY:N	2.79	0.44
1:C:33:VAL:HG21	1:C:121:TYR:HE1	1.73	0.44
1:C:40:VAL:HG23	1:C:41:ILE:N	2.32	0.44
1:C:41:ILE:HD13	1:C:41:ILE:HG21	1.63	0.44
1:C:59:TYR:CD1	1:C:60:PRO:HG3	2.53	0.44
1:C:180:ILE:HG22	1:C:181:GLY:N	2.32	0.44
1:C:180:ILE:HG13	1:C:599:TRP:CZ3	2.52	0.44
1:C:238:ILE:HB	1:C:347:TYR:CE1	2.52	0.44
1:C:436:LYS:CB	1:C:449:ARG:HG2	2.43	0.44
1:C:443:PRO:CG	1:C:446:ASN:HB2	2.48	0.44
1:C:491:PRO:HB2	1:C:493:ILE:C	2.37	0.44
1:C:492:TYR:CD2	1:C:493:ILE:HB	2.53	0.44
1:C:970:LYS:HD3	1:C:1640:ASP:OD2	2.18	0.44
1:C:1180:LEU:HD21	1:C:1208:ILE:HA	2.00	0.44
1:C:1582:LEU:CD2	1:C:1616:GLN:HG2	2.40	0.44
2:D:35:THR:HB	2:D:91:ALA:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:178:VAL:HG21	2:D:183:PHE:CD1	2.53	0.44
2:D:834:ALA:C	2:D:835:ILE:HD13	2.38	0.44
2:D:857:CYS:CB	2:D:885:VAL:CG2	2.95	0.44
2:D:1567:ARG:HD2	2:D:1567:ARG:HA	1.65	0.44
2:D:1594:LYS:O	2:D:1596:LYS:HG2	2.17	0.44
3:Y:73:VAL:CG2	3:Y:74:ARG:N	2.78	0.44
1:A:132:LYS:HZ1	1:A:139:GLN:HE22	1.65	0.44
1:A:238:ILE:HB	1:A:347:TYR:CE1	2.53	0.44
1:A:302:ASP:HB3	1:A:305:THR:HB	2.00	0.44
1:A:321:LYS:O	1:A:347:TYR:HB2	2.18	0.44
1:A:804:ILE:HG22	1:A:809:ILE:CB	2.48	0.44
1:A:856:CYS:HB3	1:A:915:GLU:HG2	1.99	0.44
1:A:915:GLU:CB	2:B:905:TRP:CZ2	3.00	0.44
1:A:1023:HIS:O	1:A:1023:HIS:CD2	2.70	0.44
1:A:1031:TRP:CE2	1:A:1042:LYS:HG3	2.52	0.44
1:A:1156:PHE:CE1	1:A:1164:ILE:HG13	2.53	0.44
1:A:1163:LYS:CE	1:C:1109:GLU:HG2	2.48	0.44
1:A:1234:HIS:CG	1:A:1235:LYS:N	2.85	0.44
1:A:1317:TYR:CE1	1:A:1342:LEU:HD12	2.53	0.44
1:A:1561:TYR:HE1	1:A:1581:LEU:HG	1.82	0.44
1:A:1644:TRP:O	1:A:1645:ILE:HD13	2.18	0.44
2:B:263:VAL:HG21	2:B:292:ALA:CB	2.47	0.44
2:B:345:ILE:H	2:B:345:ILE:HG12	1.60	0.44
2:B:524:TYR:HD1	2:B:524:TYR:C	2.19	0.44
2:B:949:LYS:H	2:B:949:LYS:HG3	1.54	0.44
2:B:1404:VAL:O	2:B:1428:ASN:ND2	2.50	0.44
2:B:1438:LEU:HD13	2:B:1438:LEU:O	2.18	0.44
2:B:1443:LEU:N	2:B:1443:LEU:CD1	2.80	0.44
1:C:375:VAL:O	1:C:383:VAL:HG13	2.16	0.44
1:C:787:GLN:O	1:C:788:PHE:HB3	2.16	0.44
1:C:839:ILE:HG23	1:C:840:GLN:N	2.31	0.44
1:C:901:LEU:HA	1:C:902:PRO:HD3	1.82	0.44
1:C:917:TRP:HB3	2:D:558:MET:SD	2.58	0.44
1:C:1020:TYR:CE1	1:C:1295:GLU:HA	2.52	0.44
1:C:1023:HIS:O	1:C:1027:THR:HB	2.17	0.44
2:D:855:ALA:O	2:D:856:PHE:CD1	2.71	0.44
3:X:91:LYS:NZ	3:X:95:LYS:HE3	2.33	0.44
1:A:42:GLN:HG2	1:A:43:VAL:H	1.83	0.44
1:A:176:GLU:HB2	1:A:185:PHE:CE1	2.52	0.44
1:A:382:LEU:HD13	1:A:415:ASP:O	2.18	0.44
1:A:383:VAL:CG2	1:A:386:VAL:HG21	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:443:PRO:CG	1:A:446:ASN:HB2	2.48	0.44
1:A:506:LYS:HD2	1:A:536:PRO:CD	2.48	0.44
1:A:513:GLY:HA2	3:X:146:LEU:HD13	2.00	0.44
1:A:643:ALA:O	1:A:644:ASN:C	2.55	0.44
1:A:949:ILE:HG22	1:A:950:TYR:CZ	2.53	0.44
1:A:1007:SER:OG	1:A:1008:ALA:N	2.50	0.44
1:A:1305:LYS:HG3	1:C:101:TYR:OH	2.17	0.44
1:A:1559:TYR:CE1	1:A:1587:THR:HA	2.53	0.44
1:A:1644:TRP:NE1	1:A:1646:GLU:OE1	2.48	0.44
2:B:243:PHE:C	2:B:243:PHE:HD2	2.20	0.44
2:B:275:SER:O	2:B:277:PRO:HD3	2.17	0.44
2:B:309:LEU:O	2:B:310:VAL:C	2.54	0.44
2:B:889:GLN:HA	2:B:915:VAL:HB	1.99	0.44
2:B:1442:ILE:C	2:B:1443:LEU:HD13	2.38	0.44
1:C:24:VAL:CG2	1:C:554:LEU:HD11	2.48	0.44
1:C:60:PRO:CG	1:C:61:ASP:N	2.81	0.44
1:C:137:PRO:O	1:C:138:ASP:HB2	2.18	0.44
1:C:223:VAL:O	1:C:225:PRO:HD3	2.18	0.44
1:C:248:ILE:HD13	1:C:325:ILE:HD13	2.00	0.44
1:C:317:ASP:O	1:C:319:ASN:N	2.50	0.44
1:C:532:GLN:OE1	1:C:532:GLN:CA	2.59	0.44
1:C:680:GLN:CG	1:C:681:LYS:H	2.31	0.44
1:C:989:SER:O	1:C:993:SER:HB3	2.17	0.44
1:C:1019:PHE:CZ	1:C:1088:GLN:HB3	2.53	0.44
1:C:1069:TRP:CH2	1:C:1465:ASN:ND2	2.86	0.44
1:C:1629:TYR:HE1	1:C:1631:PHE:CD1	2.34	0.44
2:D:397:LYS:NZ	2:D:449:ILE:O	2.51	0.44
2:D:966:GLN:OE1	2:D:1298:LEU:HD13	2.17	0.44
2:D:1521:ASP:OD1	2:D:1552:THR:OG1	2.36	0.44
2:D:1539:ILE:HD12	2:D:1539:ILE:N	2.32	0.44
2:D:1637:GLU:C	2:D:1638:PHE:CD2	2.91	0.44
3:X:215:VAL:O	3:X:216:LEU:HD13	2.18	0.44
1:A:150:ASP:CG	1:A:151:ASP:N	2.72	0.43
1:A:472:ASN:HA	1:A:474:LYS:HD2	1.99	0.43
1:A:578:ASP:O	1:A:578:ASP:CG	2.56	0.43
1:A:856:CYS:HB2	2:B:904:LEU:HG	1.99	0.43
1:A:1320:LYS:HD2	1:A:1320:LYS:HA	1.90	0.43
1:A:1627:ILE:O	1:A:1627:ILE:CG1	2.63	0.43
2:B:783:SER:HB3	2:B:785:THR:HG22	2.00	0.43
2:B:881:PRO:C	2:B:882:PHE:CD2	2.91	0.43
1:C:535:VAL:O	1:C:563:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:682:LYS:HZ2	1:C:686:ILE:HD12	1.81	0.43
1:C:713:GLN:H	1:C:713:GLN:HG3	1.44	0.43
1:C:1090:ASN:ND2	1:C:1158:ILE:HG12	2.33	0.43
1:C:1227:PHE:HA	1:C:1228:TRP:CE3	2.53	0.43
1:C:1257:THR:O	1:C:1261:LEU:HD23	2.17	0.43
1:C:1561:TYR:HE1	1:C:1598:ILE:HD11	1.82	0.43
2:D:137:TYR:HB2	2:D:216:VAL:HG23	2.00	0.43
2:D:243:PHE:C	2:D:243:PHE:HD2	2.22	0.43
2:D:283:ILE:O	2:D:285:ILE:HD12	2.18	0.43
2:D:285:ILE:CD1	2:D:285:ILE:H	2.30	0.43
2:D:736:GLU:HA	2:D:847:ARG:NH2	2.33	0.43
2:D:850:LEU:CD1	2:D:851:LEU:N	2.81	0.43
2:D:875:LEU:HG	2:D:875:LEU:O	2.18	0.43
2:D:913:LEU:C	2:D:913:LEU:CD2	2.86	0.43
2:D:932:PRO:HB3	2:D:939:GLY:O	2.18	0.43
2:D:1575:LEU:HD13	2:D:1581:TYR:CZ	2.53	0.43
2:D:1610:TRP:CD2	2:D:1628:PHE:CE2	3.06	0.43
2:D:1635:LEU:O	2:D:1636:THR:C	2.55	0.43
1:A:23:TYR:HE2	1:A:111:PHE:HD2	1.65	0.43
1:A:108:SER:OG	1:A:111:PHE:N	2.50	0.43
1:A:317:ASP:C	1:A:319:ASN:N	2.71	0.43
1:A:359:THR:O	1:A:359:THR:CG2	2.65	0.43
1:A:387:PRO:HB2	1:A:438:ASP:HB3	2.00	0.43
1:A:475:ALA:O	1:A:476:LEU:HB2	2.18	0.43
1:A:484:ILE:HD13	1:A:540:LEU:HD21	1.98	0.43
1:A:577:PRO:HD2	1:A:588:VAL:CG2	2.48	0.43
1:A:855:PHE:HB2	1:A:914:LEU:CD1	2.48	0.43
1:A:1075:SER:OG	1:A:1078:LEU:HB2	2.18	0.43
2:B:234:PHE:CE1	2:B:236:TYR:CE1	3.06	0.43
2:B:326:SER:OG	2:B:327:ASP:N	2.51	0.43
2:B:361:GLU:HB3	2:B:399:ILE:CD1	2.48	0.43
2:B:961:THR:HG22	2:B:1327:THR:OG1	2.18	0.43
1:C:131:ASP:OD2	1:C:132:LYS:HG3	2.18	0.43
1:C:273:GLU:O	1:C:274:ASP:HB3	2.17	0.43
1:C:276:LYS:HD2	1:C:276:LYS:HA	1.76	0.43
1:C:419:SER:C	1:C:420:PHE:CD2	2.92	0.43
1:C:955:ARG:O	1:C:1349:SER:HA	2.18	0.43
1:C:1084:ARG:CA	1:C:1151:GLY:HA2	2.48	0.43
1:C:1293:ALA:O	1:C:1294:ILE:C	2.56	0.43
1:C:1364:VAL:O	1:C:1364:VAL:HG13	2.18	0.43
1:C:1638:PRO:O	1:C:1639:LEU:CB	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:142:PRO:HB3	2:D:187:ASN:HD22	1.83	0.43
2:D:930:LEU:HD13	2:D:1315:ALA:HB2	1.99	0.43
2:D:943:GLU:HB2	2:D:1313:VAL:HG23	2.00	0.43
1:A:40:VAL:HG12	1:A:509:ILE:HD12	2.01	0.43
1:A:127:PHE:CD1	1:A:127:PHE:N	2.85	0.43
1:A:165:ASP:CB	1:A:166:PRO:CD	2.96	0.43
1:A:231:ILE:O	1:A:231:ILE:HG12	2.18	0.43
1:A:241:LYS:NZ	1:A:351:PRO:HB3	2.34	0.43
1:A:465:LEU:HD12	1:A:487:THR:O	2.19	0.43
1:A:990:ALA:HB1	1:A:1000:LEU:HD11	2.01	0.43
1:A:1112:GLN:HB2	1:A:1118:PHE:CE1	2.54	0.43
1:A:1156:PHE:CE2	1:A:1160:PRO:HB3	2.54	0.43
1:A:1189:ALA:O	1:A:1192:ALA:HB3	2.19	0.43
1:A:1215:GLU:OE1	1:A:1235:LYS:HD3	2.18	0.43
1:A:1249:GLU:O	1:A:1253:TYR:CD2	2.71	0.43
1:A:1257:THR:O	1:A:1261:LEU:HD23	2.19	0.43
2:B:89:ILE:CD1	2:B:104:VAL:HG11	2.48	0.43
2:B:161:VAL:CG2	2:B:180:LEU:HD21	2.43	0.43
2:B:456:PRO:HG3	2:B:515:ILE:HD11	2.01	0.43
2:B:736:GLU:HA	2:B:847:ARG:NH2	2.33	0.43
2:B:745:ILE:CG2	2:B:745:ILE:O	2.66	0.43
2:B:951:ASP:C	2:B:953:ARG:H	2.13	0.43
2:B:1296:ASN:O	2:B:1297:ALA:C	2.56	0.43
2:B:1506:ILE:HD11	2:B:1628:PHE:HE1	1.84	0.43
2:B:1566:GLN:H	2:B:1566:GLN:HG2	1.50	0.43
1:C:389:THR:OG1	1:C:408:LYS:HE2	2.18	0.43
1:C:478:VAL:HG11	1:C:566:LYS:HD3	2.01	0.43
1:C:504:LEU:HD21	1:C:651:LEU:CG	2.48	0.43
1:C:742:ILE:CG1	1:C:752:LEU:O	2.65	0.43
1:C:862:VAL:HG12	1:C:863:GLU:OE1	2.18	0.43
1:C:990:ALA:HB1	1:C:1000:LEU:HD11	2.00	0.43
1:C:1226:ARG:HD3	1:C:1266:TYR:CE1	2.54	0.43
1:C:1439:LEU:O	1:C:1440:LYS:C	2.57	0.43
2:D:265:PHE:O	2:D:276:ILE:HG13	2.18	0.43
2:D:358:MET:HE2	2:D:467:LYS:HD2	1.99	0.43
2:D:361:GLU:HB3	2:D:399:ILE:CD1	2.47	0.43
2:D:449:ILE:O	2:D:449:ILE:HG23	2.18	0.43
2:D:518:PHE:CE2	2:D:538:VAL:CB	2.71	0.43
2:D:580:VAL:HG13	2:D:584:VAL:HG23	2.00	0.43
2:D:628:LEU:HD12	2:D:629:THR:H	1.82	0.43
3:X:169:ILE:HG21	3:X:189:ILE:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:54:SER:HB2	3:Y:167:PHE:CE1	2.54	0.43
3:Y:81:ASN:O	3:Y:115:ARG:CB	2.53	0.43
1:A:317:ASP:O	1:A:319:ASN:N	2.51	0.43
1:A:484:ILE:HD12	1:A:540:LEU:HD21	1.99	0.43
1:A:500:ASN:OD1	1:A:514:THR:HG23	2.17	0.43
1:A:595:GLY:O	1:A:596:MET:C	2.57	0.43
1:A:1076:THR:HG23	1:A:1077:TRP:N	2.34	0.43
1:A:1439:LEU:HD23	1:A:1439:LEU:HA	1.64	0.43
1:A:1546:GLU:HG2	1:A:1663:ASN:HD21	1.80	0.43
1:A:1573:VAL:HB	1:A:1603:LYS:CD	2.43	0.43
2:B:191:LEU:HD12	2:B:958:GLU:HG2	1.99	0.43
2:B:224:PHE:HE1	2:B:320:VAL:CG1	2.31	0.43
2:B:269:ILE:HG13	2:B:272:ALA:HB3	2.01	0.43
2:B:319:THR:HG23	2:B:330:VAL:CG1	2.48	0.43
2:B:433:ILE:HG22	2:B:434:ALA:N	2.33	0.43
2:B:851:LEU:HD11	2:B:865:ARG:NH2	2.33	0.43
2:B:1378:THR:O	2:B:1379:MET:C	2.57	0.43
2:B:1454:GLY:O	2:B:1471:PHE:HD1	2.00	0.43
1:C:274:ASP:HA	1:C:322:TYR:CE2	2.53	0.43
1:C:433:PHE:N	1:C:433:PHE:CD1	2.87	0.43
1:C:671:GLU:HG2	1:C:671:GLU:H	1.62	0.43
1:C:847:ASN:OD1	1:C:849:ARG:N	2.51	0.43
1:C:949:ILE:HD13	1:C:949:ILE:HA	1.81	0.43
1:C:1300:TYR:C	1:C:1300:TYR:CD2	2.91	0.43
1:C:1317:TYR:CZ	1:C:1342:LEU:HG	2.53	0.43
1:C:1327:LYS:C	1:C:1332:ASN:HD22	2.22	0.43
1:C:1358:THR:HB	1:C:1360:HIS:HE1	1.77	0.43
2:D:124:GLN:O	2:D:124:GLN:HG3	2.18	0.43
2:D:580:VAL:HG13	2:D:584:VAL:CG2	2.49	0.43
2:D:613:SER:HA	2:D:620:VAL:CG2	2.49	0.43
2:D:1404:VAL:O	2:D:1428:ASN:ND2	2.51	0.43
2:D:1528:LEU:HD11	2:D:1540:TYR:HB3	1.99	0.43
2:D:1614:ASP:O	2:D:1617:GLN:HG2	2.18	0.43
3:Y:138:VAL:O	3:Y:138:VAL:HG12	2.18	0.43
3:Y:196:GLU:CD	3:Y:196:GLU:N	2.72	0.43
3:Y:201:ILE:HD13	3:Y:207:LEU:HD23	2.00	0.43
1:A:33:VAL:CG2	1:A:121:TYR:CD1	2.88	0.43
1:A:109:LYS:HD3	1:A:110:HIS:HE1	1.77	0.43
1:A:461:SER:O	1:A:462:GLN:HB2	2.17	0.43
1:A:829:ILE:CG1	1:A:925:LYS:HG2	2.47	0.43
1:A:984:VAL:HG12	1:A:988:LEU:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1025:LEU:HD11	1:A:1034:PHE:HZ	1.82	0.43
1:A:1072:GLY:O	1:A:1073:SER:C	2.55	0.43
1:A:1428:LEU:HD11	1:A:1434:ALA:HB2	1.98	0.43
1:A:1582:LEU:CD2	1:A:1616:GLN:HG2	2.42	0.43
1:A:1589:GLU:O	1:A:1591:VAL:N	2.51	0.43
2:B:800:ILE:HG23	2:B:801:CYS:N	2.31	0.43
2:B:954:VAL:CG1	2:B:955:PRO:HD2	2.42	0.43
2:B:1459:TYR:HB3	2:B:1466:GLU:HB3	1.99	0.43
1:C:222:TYR:HE2	1:C:224:LEU:N	2.17	0.43
1:C:259:VAL:HB	1:C:295:GLY:HA2	2.00	0.43
1:C:290:THR:CG2	1:C:297:ALA:HB1	2.48	0.43
1:C:837:GLU:OE2	1:C:1430:THR:HB	2.19	0.43
1:C:916:THR:C	1:C:918:PHE:N	2.71	0.43
1:C:987:ILE:HD13	1:C:1294:ILE:HG23	2.00	0.43
1:C:1538:GLU:O	1:C:1539:LEU:C	2.57	0.43
2:D:56:ILE:HD11	2:D:73:VAL:HG23	2.01	0.43
2:D:355:LYS:HE2	2:D:445:LEU:O	2.18	0.43
2:D:830:VAL:HG23	2:D:831:GLU:N	2.33	0.43
2:D:881:PRO:O	2:D:882:PHE:CD2	2.71	0.43
2:D:961:THR:HG22	2:D:1327:THR:CB	2.48	0.43
2:D:1292:ILE:CD1	2:D:1301:ARG:HE	2.31	0.43
2:D:1391:LEU:HA	2:D:1392:PRO:HD3	1.85	0.43
2:D:1408:ILE:HD13	2:D:1425:ILE:HA	2.00	0.43
3:X:185:LYS:CG	3:X:186:TYR:CE2	3.01	0.43
1:A:96:GLN:CG	1:A:97:ASN:H	2.31	0.43
1:A:680:GLN:CG	1:A:681:LYS:N	2.81	0.43
1:A:847:ASN:C	1:A:847:ASN:OD1	2.55	0.43
1:A:1142:LEU:HD21	1:A:1179:THR:OG1	2.19	0.43
1:A:1162:VAL:CG2	1:A:1163:LYS:N	2.82	0.43
2:B:249:ALA:O	2:B:257:VAL:HB	2.18	0.43
2:B:763:THR:C	2:B:764:GLU:HG2	2.39	0.43
1:C:23:TYR:HD1	1:C:23:TYR:H	1.31	0.43
1:C:113:LYS:HE2	1:C:654:LEU:O	2.19	0.43
1:C:131:ASP:OD2	1:C:132:LYS:CG	2.66	0.43
1:C:177:ILE:HD13	1:C:177:ILE:N	2.33	0.43
1:C:472:ASN:HA	1:C:474:LYS:HD2	2.01	0.43
1:C:839:ILE:CD1	1:C:1485:VAL:HG12	2.49	0.43
1:C:901:LEU:HD23	1:C:1527:CYS:SG	2.59	0.43
1:C:996:GLY:O	1:C:998:ASN:N	2.52	0.43
1:C:1226:ARG:CD	1:C:1266:TYR:CE1	3.01	0.43
1:C:1271:ILE:HD13	1:C:1300:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:47:GLY:O	2:D:48:ASP:HB2	2.19	0.43
2:D:326:SER:OG	2:D:327:ASP:N	2.52	0.43
2:D:476:ILE:O	2:D:497:ARG:HG2	2.18	0.43
2:D:518:PHE:CD2	2:D:518:PHE:O	2.72	0.43
2:D:618:LEU:CD1	2:D:635:ASN:O	2.65	0.43
2:D:1273:LEU:C	2:D:1273:LEU:HD12	2.39	0.43
3:X:108:GLU:O	3:X:109:LEU:HG	2.18	0.43
3:Y:166:ASP:O	3:Y:170:ARG:HG3	2.18	0.43
3:Y:229:ASN:C	3:Y:230:GLN:HG3	2.39	0.43
1:A:133:PRO:HD2	1:A:609:VAL:CG1	2.48	0.43
1:A:503:ILE:O	1:A:510:ILE:HG12	2.19	0.43
1:A:523:TYR:CE2	2:B:465:ASN:ND2	2.86	0.43
1:A:631:ASP:C	1:A:633:GLY:H	2.22	0.43
1:A:670:LYS:HD2	1:A:671:GLU:H	1.83	0.43
1:A:864:GLY:HA3	1:A:907:LEU:HD22	2.00	0.43
1:A:953:ILE:CD1	1:A:955:ARG:HH21	2.32	0.43
1:A:1043:GLN:O	1:A:1044:LYS:C	2.54	0.43
1:A:1106:TRP:CZ2	1:A:1111:TYR:HE2	2.37	0.43
1:A:1646:GLU:HG2	1:A:1660:PHE:HZ	1.84	0.43
2:B:490:PHE:CD1	2:B:490:PHE:C	2.90	0.43
2:B:1367:ILE:HB	2:B:1438:LEU:CD1	2.49	0.43
2:B:1486:ILE:HD11	2:B:1591:LEU:HD21	2.00	0.43
1:C:274:ASP:CG	1:C:275:LEU:N	2.70	0.43
1:C:365:PRO:CD	1:C:464:TYR:CE2	2.98	0.43
1:C:417:VAL:O	1:C:417:VAL:HG12	2.18	0.43
1:C:501:TYR:O	1:C:512:PHE:HA	2.19	0.43
1:C:532:GLN:HA	1:C:535:VAL:HG13	2.00	0.43
1:C:551:THR:HB	1:C:657:ALA:HB1	2.00	0.43
1:C:980:LYS:HE2	1:C:980:LYS:HB3	1.79	0.43
1:C:1023:HIS:O	1:C:1023:HIS:CD2	2.71	0.43
1:C:1213:LYS:HE2	1:C:1266:TYR:HD2	1.78	0.43
1:C:1249:GLU:O	1:C:1253:TYR:CD2	2.72	0.43
1:C:1665:ASP:O	1:C:1668:ALA:HB3	2.19	0.43
2:D:551:LYS:HE2	2:D:551:LYS:HB2	1.91	0.43
2:D:828:GLU:O	2:D:886:PRO:HD2	2.18	0.43
2:D:916:VAL:HG22	2:D:917:PRO:N	2.33	0.43
2:D:951:ASP:C	2:D:953:ARG:H	2.19	0.43
2:D:1430:VAL:HA	2:D:1436:GLU:OE2	2.19	0.43
3:X:211:ARG:O	3:X:214:ASP:HB2	2.18	0.43
1:A:33:VAL:HG23	1:A:120:THR:O	2.18	0.43
1:A:539:ARG:HE	1:A:633:GLY:HA3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:996:GLY:O	1:A:998:ASN:N	2.51	0.43
1:A:1037:ASP:HA	1:A:1038:PRO:HD3	1.62	0.43
1:A:1263:ASP:O	1:A:1265:ASN:N	2.52	0.43
1:A:1317:TYR:CZ	1:A:1342:LEU:HG	2.54	0.43
1:A:1403:VAL:HG22	1:A:1476:ARG:HB3	2.01	0.43
1:A:1426:ILE:HG22	1:A:1426:ILE:O	2.18	0.43
1:A:1571:GLU:O	1:A:1574:PHE:N	2.46	0.43
2:B:345:ILE:HD11	2:B:426:ALA:C	2.38	0.43
2:B:1529:LEU:N	2:B:1529:LEU:HD12	2.34	0.43
1:C:64:PHE:HD2	1:C:66:TYR:CE1	2.36	0.43
1:C:258:LYS:HD3	1:C:893:SER:OG	2.17	0.43
1:C:383:VAL:CG2	1:C:386:VAL:HG21	2.49	0.43
1:C:505:SER:HB3	1:C:510:ILE:HD13	2.01	0.43
1:C:587:THR:HA	1:C:789:ALA:HA	2.00	0.43
1:C:938:SER:OG	1:C:1284:PHE:CE2	2.71	0.43
1:C:1012:LEU:HD11	1:C:1056:ILE:HG13	2.01	0.43
1:C:1053:MET:O	1:C:1056:ILE:HG22	2.19	0.43
1:C:1566:THR:HG23	1:C:1578:LYS:O	2.18	0.43
2:D:144:LEU:HB3	2:D:185:PRO:HB3	2.01	0.43
2:D:384:PHE:CE1	2:D:400:LEU:HG	2.51	0.43
2:D:582:LYS:O	2:D:583:ALA:C	2.56	0.43
2:D:933:ARG:NH1	2:D:933:ARG:CG	2.79	0.43
2:D:1275:LEU:HD21	2:D:1319:GLY:O	2.19	0.43
2:D:1528:LEU:HD21	2:D:1531:ILE:HD11	2.01	0.43
3:Y:163:LYS:HG3	3:Y:212:MET:CE	2.49	0.43
1:A:390:LEU:HD23	1:A:420:PHE:CD1	2.54	0.43
1:A:433:PHE:CZ	1:A:452:TYR:HB2	2.54	0.43
1:A:484:ILE:CD1	1:A:540:LEU:CD2	2.97	0.43
1:A:701:ASP:CG	1:A:1446:VAL:HG23	2.39	0.43
1:A:931:PRO:CB	1:A:1366:HIS:CD2	3.02	0.43
1:A:1016:VAL:N	1:A:1017:PRO:CD	2.81	0.43
1:A:1208:ILE:O	1:A:1208:ILE:HG22	2.19	0.43
1:A:1309:LEU:O	1:A:1329:THR:HA	2.19	0.43
1:A:1538:GLU:O	1:A:1539:LEU:C	2.54	0.43
1:A:1602:LYS:HE3	1:A:1609:ALA:O	2.18	0.43
2:B:114:ARG:O	2:B:114:ARG:NE	2.51	0.43
2:B:247:ILE:CD1	2:B:318:VAL:HG21	2.49	0.43
2:B:794:PHE:CD2	2:B:795:THR:N	2.86	0.43
2:B:810:VAL:O	2:B:811:MET:HB2	2.19	0.43
2:B:1564:ILE:O	2:B:1601:ILE:HD12	2.19	0.43
1:C:132:LYS:HZ1	1:C:139:GLN:HE22	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:492:TYR:CE2	1:C:546:VAL:HG11	2.53	0.43
1:C:653:PHE:CE1	1:C:660:ASP:CB	3.00	0.43
1:C:701:ASP:OD1	1:C:701:ASP:N	2.52	0.43
1:C:802:VAL:HG12	1:C:803:GLY:N	2.34	0.43
1:C:855:PHE:HB2	1:C:914:LEU:HD11	2.00	0.43
1:C:975:ARG:CZ	1:C:1340:VAL:HG11	2.49	0.43
1:C:1072:GLY:O	1:C:1073:SER:C	2.57	0.43
2:D:40:GLN:O	2:D:489:ILE:HD12	2.18	0.43
2:D:146:ARG:CB	2:D:146:ARG:HH11	2.32	0.43
2:D:222:PRO:HG2	2:D:329:VAL:HG12	1.99	0.43
2:D:341:SER:HA	2:D:342:PRO:HD3	1.72	0.43
2:D:481:TYR:HE2	2:D:493:GLY:N	2.16	0.43
2:D:780:LEU:HD11	2:D:787:TRP:HD1	1.84	0.43
2:D:1424:ILE:HD13	2:D:1424:ILE:N	2.29	0.43
2:D:1459:TYR:HB3	2:D:1466:GLU:HB3	1.99	0.43
2:D:1482:ASN:HB3	2:D:1493:ALA:CB	2.49	0.43
2:D:1544:VAL:C	2:D:1545:LEU:HD12	2.40	0.43
2:D:1562:GLN:NE2	2:D:1596:LYS:HZ2	2.15	0.43
1:A:373:VAL:CG2	1:A:418:ALA:HB3	2.43	0.43
1:A:582:TYR:O	1:A:819:VAL:HG13	2.18	0.43
1:A:1083:LEU:HD13	1:A:1104:LEU:HD23	2.00	0.43
1:A:1084:ARG:HG2	1:A:1084:ARG:NH1	2.33	0.43
1:A:1219:LYS:HB2	1:A:1219:LYS:HE3	1.76	0.43
1:A:1406:ALA:O	1:A:1472:PHE:HA	2.18	0.43
1:A:1556:GLU:HB3	1:A:1622:LYS:CE	2.31	0.43
2:B:315:TYR:CD1	2:B:315:TYR:C	2.91	0.43
2:B:764:GLU:HG3	2:B:772:SER:HB3	2.01	0.43
2:B:840:VAL:CG1	2:B:841:ASN:N	2.77	0.43
2:B:851:LEU:HD21	2:B:865:ARG:HH21	1.83	0.43
2:B:895:GLU:HA	2:B:909:VAL:O	2.19	0.43
2:B:1454:GLY:HA3	2:B:1472:TYR:CE2	2.54	0.43
1:C:317:ASP:C	1:C:319:ASN:N	2.70	0.43
1:C:487:THR:HA	1:C:488:PRO:HD3	1.83	0.43
1:C:511:HIS:CE1	3:Y:149:SER:HB3	2.54	0.43
1:C:628:GLU:HG3	1:C:628:GLU:O	2.18	0.43
1:C:837:GLU:O	1:C:901:LEU:CD1	2.65	0.43
1:C:1127:ILE:HD11	1:C:1143:TYR:CE2	2.54	0.43
1:C:1175:LEU:HD23	1:C:1175:LEU:HA	1.88	0.43
1:C:1244:THR:O	1:C:1245:ALA:C	2.57	0.43
1:C:1639:LEU:HA	1:C:1639:LEU:HD22	1.76	0.43
1:C:1643:THR:HG22	1:C:1644:TRP:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:550:VAL:HG22	2:D:567:LEU:HD21	2.01	0.43
2:D:1454:GLY:O	2:D:1471:PHE:HD1	2.01	0.43
2:D:1635:LEU:HD23	2:D:1635:LEU:HA	1.70	0.43
3:X:174:VAL:O	3:X:174:VAL:HG12	2.19	0.43
3:X:196:GLU:CD	3:X:196:GLU:N	2.72	0.43
3:Y:45:ASP:OD1	3:Y:48:ARG:NH1	2.51	0.43
1:A:40:VAL:HG23	1:A:41:ILE:H	1.83	0.42
1:A:223:VAL:O	1:A:225:PRO:HD3	2.19	0.42
1:A:522:SER:HB2	1:A:523:TYR:H	1.54	0.42
1:A:640:LEU:H	1:A:644:ASN:CB	2.28	0.42
1:A:710:THR:N	1:A:713:GLN:OE1	2.50	0.42
1:A:824:PHE:CE2	1:A:846:TYR:CD1	3.05	0.42
1:A:997:ILE:O	1:A:998:ASN:O	2.37	0.42
1:A:1093:VAL:O	1:A:1094:GLU:C	2.57	0.42
1:A:1163:LYS:NZ	1:C:1109:GLU:HG2	2.34	0.42
1:A:1245:ALA:O	1:A:1246:ARG:C	2.56	0.42
2:B:235:PHE:CE2	2:B:299:PHE:CE2	3.06	0.42
2:B:247:ILE:HD11	2:B:318:VAL:HG21	2.01	0.42
2:B:345:ILE:HG13	2:B:428:LYS:CB	2.49	0.42
2:B:875:LEU:O	2:B:875:LEU:HG	2.19	0.42
2:B:1469:THR:O	2:B:1470:LYS:HG2	2.19	0.42
2:B:1522:TYR:HD1	2:B:1524:TYR:CZ	2.36	0.42
2:B:1631:PHE:HD2	2:B:1632:SER:N	2.16	0.42
1:C:33:VAL:CG2	1:C:121:TYR:CD1	2.87	0.42
1:C:117:MET:HE2	1:C:117:MET:HB2	1.71	0.42
1:C:161:LEU:HD12	1:C:161:LEU:N	2.32	0.42
1:C:515:ARG:NH1	1:C:515:ARG:HG3	2.33	0.42
1:C:569:ASN:HD21	1:C:810:CYS:HB2	1.84	0.42
1:C:869:GLU:HB2	1:C:871:PRO:HG3	2.01	0.42
1:C:1075:SER:OG	1:C:1078:LEU:HB2	2.18	0.42
1:C:1402:ILE:CG2	1:C:1403:VAL:N	2.82	0.42
1:C:1562:LYS:C	1:C:1563:VAL:HG13	2.38	0.42
2:D:63:ARG:HD2	2:D:65:GLN:NE2	2.33	0.42
2:D:267:VAL:HG22	2:D:314:LEU:CD1	2.49	0.42
2:D:878:ARG:HE	2:D:1421:VAL:CG2	2.32	0.42
2:D:1471:PHE:O	2:D:1478:THR:O	2.37	0.42
3:Y:194:LYS:HG2	3:Y:197:ASN:HB3	2.01	0.42
1:A:108:SER:HG	1:A:111:PHE:C	2.22	0.42
1:A:255:PHE:O	1:A:256:TYR:HB2	2.19	0.42
1:A:291:MET:HE2	1:A:291:MET:HB3	1.75	0.42
1:A:364:LYS:HE2	1:A:465:LEU:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:SER:HB3	1:A:553:GLU:OE2	2.19	0.42
1:A:491:PRO:O	1:A:491:PRO:CG	2.67	0.42
1:A:639:GLY:HA2	1:A:648:LEU:CD1	2.45	0.42
1:A:689:LYS:CD	1:A:730:GLU:OE2	2.67	0.42
1:A:821:LYS:HB3	1:A:822:ASP:H	1.34	0.42
1:A:862:VAL:O	1:A:865:ILE:HG13	2.19	0.42
1:A:949:ILE:O	1:A:949:ILE:CG2	2.66	0.42
1:A:1146:ALA:HB3	1:A:1190:ILE:CG2	2.48	0.42
1:A:1219:LYS:HE2	1:A:1239:VAL:CG2	2.49	0.42
1:A:1560:ALA:O	1:A:1561:TYR:CB	2.67	0.42
2:B:449:ILE:HD12	2:B:449:ILE:HA	1.71	0.42
2:B:967:GLY:O	2:B:969:PRO:HD3	2.18	0.42
2:B:1538:ASP:OD2	2:B:1567:ARG:HD2	2.19	0.42
2:B:1544:VAL:C	2:B:1545:LEU:HD12	2.40	0.42
1:C:73:LEU:HB2	1:C:79:PHE:HA	2.01	0.42
1:C:100:SER:C	1:C:101:TYR:HD2	2.22	0.42
1:C:108:SER:HG	1:C:111:PHE:C	2.23	0.42
1:C:190:ILE:CG2	1:C:191:PRO:CD	2.97	0.42
1:C:871:PRO:O	1:C:873:ILE:N	2.52	0.42
1:C:969:PRO:C	1:C:971:THR:HG23	2.40	0.42
1:C:973:ILE:O	1:C:973:ILE:HG22	2.17	0.42
1:C:1110:ASN:O	1:C:1111:TYR:CD1	2.72	0.42
1:C:1344:ASP:OD1	1:C:1345:ASP:N	2.52	0.42
1:C:1622:LYS:HZ3	1:C:1642:LEU:CD2	2.27	0.42
1:C:1673:LEU:O	1:C:1674:ASN:CB	2.65	0.42
2:D:126:SER:OG	2:D:152:HIS:HD2	2.02	0.42
2:D:417:HIS:O	2:D:419:ASP:N	2.52	0.42
2:D:820:MET:HA	2:D:821:PRO:HD3	1.73	0.42
2:D:1370:ARG:HG3	2:D:1431:SER:O	2.19	0.42
2:D:1548:ILE:CG2	2:D:1635:LEU:CB	2.95	0.42
3:Y:91:LYS:NZ	3:Y:95:LYS:HE3	2.34	0.42
1:A:185:PHE:HD1	1:A:186:PRO:HD2	1.84	0.42
1:A:290:THR:CG2	1:A:297:ALA:HB1	2.48	0.42
1:A:420:PHE:N	1:A:420:PHE:CD2	2.86	0.42
1:A:489:LYS:HZ3	2:B:501:GLN:HA	1.85	0.42
1:A:946:PRO:O	1:A:953:ILE:HG13	2.19	0.42
1:A:949:ILE:O	1:A:950:TYR:CD1	2.72	0.42
1:A:1226:ARG:HD3	1:A:1266:TYR:HE1	1.85	0.42
1:A:1244:THR:N	1:A:1247:MET:HE3	2.33	0.42
1:A:1327:LYS:HG3	1:A:1328:MET:N	2.35	0.42
1:A:1348:VAL:HG11	1:A:1359:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1559:TYR:HB3	1:A:1637:TYR:HE1	1.84	0.42
2:B:878:ARG:HE	2:B:1421:VAL:CG2	2.32	0.42
2:B:1583:ILE:CG1	2:B:1607:ILE:HG23	2.42	0.42
1:C:354:LEU:HD22	1:C:448:ALA:HB1	2.01	0.42
1:C:383:VAL:HG23	1:C:386:VAL:HG23	2.01	0.42
1:C:386:VAL:HA	1:C:387:PRO:HD3	1.83	0.42
1:C:909:ASN:HD21	5:C:2003:NAG:C8	2.32	0.42
1:C:1080:ALA:HB2	1:C:1148:THR:HG22	2.02	0.42
1:C:1468:PRO:HD2	1:C:1473:LEU:HB2	2.01	0.42
1:C:1644:TRP:O	1:C:1645:ILE:CD1	2.66	0.42
2:D:451:SER:O	2:D:452:THR:HG23	2.19	0.42
2:D:482:LEU:CB	2:D:492:VAL:HG23	2.33	0.42
2:D:568:GLU:HA	2:D:772:SER:O	2.19	0.42
3:X:217:ASN:ND2	3:X:220:ASP:OD2	2.48	0.42
3:Y:71:ASN:HD22	3:Y:91:LYS:CD	2.33	0.42
3:Y:153:PHE:CE1	3:Y:169:ILE:HD13	2.55	0.42
1:A:49:ALA:CB	1:A:74:SER:HB2	2.50	0.42
1:A:111:PHE:O	1:A:112:SER:OG	2.30	0.42
1:A:216:TYR:N	1:A:216:TYR:HD2	2.16	0.42
1:A:243:PHE:O	1:A:303:SER:HB2	2.18	0.42
1:A:315:LEU:HD11	1:A:318:LEU:HG	1.99	0.42
1:A:386:VAL:HA	1:A:387:PRO:HD3	1.82	0.42
1:A:433:PHE:N	1:A:433:PHE:CD1	2.88	0.42
1:A:662:SER:O	1:A:663:GLN:C	2.57	0.42
1:A:683:ILE:O	1:A:687:ALA:HB3	2.19	0.42
1:A:829:ILE:N	1:A:829:ILE:HD12	2.34	0.42
1:A:968:VAL:CG2	1:A:971:THR:HG21	2.49	0.42
1:A:1560:ALA:O	1:A:1561:TYR:CD2	2.70	0.42
1:A:1648:TRP:HE1	1:A:1664:LEU:HD21	1.82	0.42
2:B:74:ASP:OD1	2:B:74:ASP:N	2.45	0.42
2:B:236:TYR:O	2:B:238:ASP:N	2.52	0.42
2:B:344:GLN:O	2:B:366:VAL:HA	2.18	0.42
2:B:449:ILE:HG23	2:B:449:ILE:O	2.18	0.42
2:B:563:MET:SD	2:B:808:ILE:HD11	2.60	0.42
2:B:1610:TRP:CE3	2:B:1628:PHE:CD2	3.08	0.42
2:B:1626:ASP:O	2:B:1627:ASP:C	2.58	0.42
1:C:333:THR:OG1	1:C:334:GLY:N	2.52	0.42
1:C:455:ILE:HG22	1:C:456:ALA:H	1.83	0.42
1:C:969:PRO:O	1:C:971:THR:HG23	2.19	0.42
1:C:1188:LEU:CD2	1:C:1212:LEU:HA	2.49	0.42
1:C:1189:ALA:O	1:C:1192:ALA:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1328:MET:HE2	1:C:1328:MET:HA	2.01	0.42
1:C:1439:LEU:HA	1:C:1439:LEU:HD23	1.71	0.42
2:D:174:SER:HA	2:D:1300:ALA:HB2	2.02	0.42
2:D:247:ILE:CD1	2:D:318:VAL:HG21	2.48	0.42
2:D:345:ILE:HD11	2:D:427:THR:CA	2.49	0.42
2:D:616:ASN:OD1	2:D:618:LEU:HB2	2.20	0.42
2:D:781:ARG:HD3	2:D:781:ARG:HA	1.53	0.42
2:D:859:ALA:CB	2:D:866:TYR:CD1	3.00	0.42
2:D:964:ILE:HG22	2:D:1324:THR:OG1	2.18	0.42
2:D:1391:LEU:HB2	2:D:1417:MET:CE	2.48	0.42
2:D:1612:HIS:N	2:D:1615:GLU:OE1	2.46	0.42
3:X:194:LYS:HG2	3:X:197:ASN:HB3	2.00	0.42
3:Y:217:ASN:ND2	3:Y:220:ASP:OD2	2.51	0.42
1:A:114:SER:O	1:A:115:LYS:HE2	2.20	0.42
1:A:571:LEU:HG	1:A:812:ALA:HB2	2.02	0.42
1:A:837:GLU:O	1:A:901:LEU:CD1	2.65	0.42
2:B:781:ARG:HA	2:B:781:ARG:HD3	1.53	0.42
2:B:1284:ARG:HD2	2:B:1285:GLU:N	2.24	0.42
2:B:1383:ASP:O	2:B:1456:VAL:HA	2.18	0.42
2:B:1444:LYS:NZ	2:B:1447:GLU:HA	2.34	0.42
1:C:40:VAL:CG2	1:C:512:PHE:CD1	2.99	0.42
1:C:42:GLN:OE1	1:C:500:ASN:ND2	2.52	0.42
1:C:134:VAL:HA	1:C:218:GLU:O	2.19	0.42
1:C:191:PRO:O	1:C:194:PRO:HD3	2.20	0.42
1:C:215:ALA:C	1:C:216:TYR:CD2	2.93	0.42
1:C:328:THR:OG1	1:C:339:GLU:HG2	2.19	0.42
1:C:554:LEU:HD23	1:C:554:LEU:HA	1.64	0.42
1:C:693:SER:O	1:C:695:VAL:N	2.53	0.42
1:C:804:ILE:HG22	1:C:809:ILE:CB	2.49	0.42
1:C:981:GLY:O	1:C:1356:LEU:O	2.38	0.42
1:C:997:ILE:O	1:C:998:ASN:O	2.37	0.42
1:C:1161:LEU:O	1:C:1164:ILE:HG12	2.19	0.42
1:C:1267:VAL:O	1:C:1270:VAL:HB	2.19	0.42
1:C:1637:TYR:HB3	1:C:1638:PRO:HD2	2.01	0.42
2:D:147:VAL:HG12	2:D:183:PHE:CE1	2.50	0.42
2:D:188:LEU:HD13	2:D:216:VAL:CG2	2.50	0.42
2:D:224:PHE:HE1	2:D:320:VAL:CG1	2.33	0.42
2:D:280:LEU:HD22	2:D:1462:TYR:CE2	2.54	0.42
2:D:455:LYS:O	2:D:458:ASP:CB	2.58	0.42
3:X:153:PHE:CZ	3:X:169:ILE:HD13	2.55	0.42
3:Y:103:VAL:HA	3:Y:121:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:125:LYS:HD2	3:Y:126:ASN:HA	2.02	0.42
3:Y:190:ILE:O	3:Y:190:ILE:HG12	2.18	0.42
1:A:129:HIS:CE1	1:A:620:LEU:HD21	2.54	0.42
1:A:160:VAL:HG11	1:A:204:LYS:HE3	2.01	0.42
1:A:205:TYR:HD2	1:A:205:TYR:HA	1.73	0.42
1:A:545:ILE:H	1:A:545:ILE:HG12	1.44	0.42
1:A:622:ARG:HD3	1:A:622:ARG:HA	1.73	0.42
1:A:905:ILE:O	1:A:905:ILE:HG22	2.19	0.42
1:A:1239:VAL:N	1:A:1240:PRO:CD	2.82	0.42
1:A:1298:THR:O	1:A:1301:SER:N	2.53	0.42
2:B:164:GLU:HB2	2:B:200:VAL:HG23	2.02	0.42
2:B:296:ARG:HG3	2:B:296:ARG:NH1	2.32	0.42
2:B:599:TRP:O	2:B:600:ASP:C	2.55	0.42
2:B:785:THR:OG1	2:B:786:THR:N	2.51	0.42
2:B:873:LYS:N	2:B:873:LYS:CD	2.82	0.42
2:B:965:ILE:O	2:B:1301:ARG:HG2	2.19	0.42
2:B:968:ASP:O	2:B:1273:LEU:HD23	2.20	0.42
2:B:1610:TRP:CE3	2:B:1628:PHE:HD2	2.38	0.42
1:C:40:VAL:HG12	1:C:509:ILE:HD12	2.00	0.42
1:C:74:SER:C	1:C:79:PHE:CE1	2.93	0.42
1:C:96:GLN:CG	1:C:97:ASN:H	2.29	0.42
1:C:216:TYR:N	1:C:216:TYR:HD2	2.17	0.42
1:C:287:MET:SD	1:C:299:VAL:HG23	2.60	0.42
1:C:383:VAL:HG23	1:C:386:VAL:CG2	2.49	0.42
1:C:461:SER:O	1:C:462:GLN:HB2	2.19	0.42
1:C:582:TYR:O	1:C:819:VAL:HG13	2.20	0.42
1:C:680:GLN:CG	1:C:681:LYS:N	2.80	0.42
1:C:718:ILE:HD11	1:C:728:PHE:CD2	2.54	0.42
1:C:752:LEU:O	1:C:752:LEU:CG	2.67	0.42
1:C:829:ILE:HD12	1:C:829:ILE:N	2.33	0.42
1:C:829:ILE:N	1:C:829:ILE:CD1	2.82	0.42
1:C:839:ILE:HD12	1:C:1485:VAL:HG12	2.01	0.42
1:C:949:ILE:O	1:C:950:TYR:CD1	2.73	0.42
1:C:1283:GLY:HA3	1:C:1290:THR:HG23	2.02	0.42
1:C:1560:ALA:C	1:C:1561:TYR:CD2	2.93	0.42
1:C:1571:GLU:O	1:C:1574:PHE:N	2.49	0.42
2:D:80:GLY:O	2:D:81:MET:HB2	2.18	0.42
2:D:200:VAL:HG12	2:D:211:THR:HG1	1.80	0.42
2:D:504:VAL:O	2:D:504:VAL:HG12	2.19	0.42
2:D:523:TYR:CB	2:D:533:ALA:HB2	2.48	0.42
2:D:736:GLU:C	2:D:738:GLY:H	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:838:ASN:O	2:D:838:ASN:CG	2.58	0.42
2:D:952:ASP:O	2:D:1331:ALA:CA	2.67	0.42
2:D:955:PRO:O	2:D:957:THR:HG23	2.20	0.42
3:X:83:GLN:HG2	3:X:85:PHE:HE1	1.85	0.42
3:Y:101:GLN:HB3	3:Y:123:THR:O	2.20	0.42
3:Y:119:VAL:HG22	3:Y:212:MET:HB2	2.01	0.42
1:A:115:LYS:HB2	1:A:115:LYS:HE2	1.82	0.42
1:A:255:PHE:HB2	1:A:846:TYR:OH	2.20	0.42
1:A:259:VAL:HB	1:A:295:GLY:CA	2.49	0.42
1:A:309:GLU:CG	1:A:310:LEU:N	2.83	0.42
1:A:700:TYR:O	1:A:703:ALA:N	2.52	0.42
1:A:883:CYS:HB2	2:B:902:GLU:OE2	2.20	0.42
1:A:1083:LEU:HD22	1:A:1104:LEU:HD21	2.00	0.42
1:A:1147:PHE:C	1:A:1147:PHE:HD2	2.23	0.42
1:A:1639:LEU:HA	1:A:1639:LEU:HD22	1.76	0.42
2:B:203:TYR:O	2:B:204:GLU:C	2.57	0.42
2:B:275:SER:C	2:B:277:PRO:HD3	2.40	0.42
2:B:355:LYS:N	2:B:355:LYS:CD	2.82	0.42
2:B:516:PRO:HG2	2:B:603:GLU:HG3	2.00	0.42
2:B:580:VAL:HG13	2:B:584:VAL:HG23	2.00	0.42
2:B:806:TYR:CD1	2:B:806:TYR:C	2.90	0.42
2:B:811:MET:HG3	2:B:812:LYS:N	2.35	0.42
2:B:933:ARG:HH11	2:B:933:ARG:CG	2.21	0.42
2:B:1371:TYR:CB	2:B:1377:SER:HB3	2.50	0.42
2:B:1423:VAL:O	2:B:1423:VAL:CG1	2.67	0.42
2:B:1491:ARG:HG3	2:B:1492:CYS:N	2.33	0.42
2:B:1521:ASP:OD1	2:B:1552:THR:OG1	2.35	0.42
2:B:1528:LEU:HD21	2:B:1531:ILE:HD11	2.02	0.42
1:C:123:ASN:N	1:C:211:THR:HG23	2.33	0.42
1:C:506:LYS:HD2	1:C:536:PRO:HG2	2.01	0.42
1:C:821:LYS:HB3	1:C:822:ASP:H	1.31	0.42
1:C:1022:PHE:HE2	1:C:1092:TYR:CD1	2.37	0.42
1:C:1190:ILE:CG1	1:C:1253:TYR:CE1	2.99	0.42
1:C:1239:VAL:O	1:C:1240:PRO:C	2.58	0.42
1:C:1386:ILE:HG22	1:C:1399:TYR:O	2.19	0.42
1:C:1440:LYS:O	1:C:1443:VAL:HG12	2.20	0.42
2:D:114:ARG:O	2:D:114:ARG:NE	2.52	0.42
2:D:159:LYS:HE2	2:D:180:LEU:HD12	2.01	0.42
2:D:764:GLU:O	2:D:765:GLU:C	2.58	0.42
2:D:1290:TYR:HD2	2:D:1301:ARG:HB3	1.83	0.42
2:D:1624:LEU:O	2:D:1627:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1633:TYR:HE1	2:D:1637:GLU:OE1	2.03	0.42
3:Y:194:LYS:HZ2	3:Y:197:ASN:CB	2.15	0.42
1:A:308:LYS:CG	1:A:309:GLU:N	2.81	0.42
1:A:829:ILE:N	1:A:829:ILE:CD1	2.82	0.42
1:A:950:TYR:HE2	1:A:1356:LEU:HD11	1.84	0.42
1:A:1161:LEU:O	1:A:1164:ILE:HG12	2.20	0.42
1:A:1246:ARG:O	1:A:1246:ARG:HG3	2.18	0.42
1:A:1265:ASN:C	1:A:1267:VAL:N	2.73	0.42
1:A:1643:THR:HG22	1:A:1644:TRP:H	1.82	0.42
2:B:121:LEU:HA	2:B:121:LEU:HD12	1.72	0.42
2:B:234:PHE:CD1	2:B:234:PHE:C	2.93	0.42
2:B:513:ASP:N	2:B:513:ASP:OD2	2.52	0.42
2:B:745:ILE:HD11	2:B:907:ASP:N	2.34	0.42
2:B:838:ASN:OD1	2:B:838:ASN:C	2.58	0.42
2:B:1594:LYS:O	2:B:1596:LYS:HG2	2.20	0.42
1:C:23:TYR:CE1	1:C:655:THR:CB	3.03	0.42
1:C:367:ILE:HD13	1:C:466:TYR:HD2	1.84	0.42
1:C:773:TRP:CZ3	1:C:788:PHE:CE1	3.08	0.42
1:C:1016:VAL:O	1:C:1020:TYR:HD2	2.03	0.42
1:C:1329:THR:HG1	1:C:1331:LYS:HG2	1.85	0.42
2:D:1279:ILE:HG22	2:D:1288:ILE:CB	2.44	0.42
2:D:1513:GLU:O	2:D:1516:CYS:N	2.53	0.42
2:D:1522:TYR:HE2	2:D:1585:GLY:C	2.23	0.42
2:D:1575:LEU:N	2:D:1575:LEU:CD2	2.83	0.42
2:D:1598:SER:C	2:D:1599:TYR:HD1	2.23	0.42
3:X:157:LYS:HD3	3:X:157:LYS:HA	1.83	0.42
3:X:215:VAL:C	3:X:216:LEU:HD22	2.40	0.42
3:Y:60:VAL:HG23	3:Y:60:VAL:O	2.19	0.42
1:A:354:LEU:HD22	1:A:448:ALA:HB1	2.02	0.42
1:A:500:ASN:O	1:A:542:VAL:HA	2.19	0.42
1:A:569:ASN:HD21	1:A:810:CYS:HB2	1.84	0.42
1:A:590:LEU:HD21	1:A:774:LEU:HD11	2.01	0.42
1:A:604:ALA:O	1:A:772:SER:HB3	2.19	0.42
1:A:644:ASN:ND2	1:A:648:LEU:HD12	2.35	0.42
1:A:698:CYS:O	1:A:700:TYR:N	2.52	0.42
1:A:825:LEU:HB2	1:A:845:VAL:CG2	2.50	0.42
1:A:854:GLN:NE2	1:A:854:GLN:N	2.68	0.42
1:A:1106:TRP:O	1:A:1110:ASN:OD1	2.38	0.42
1:A:1149:VAL:O	1:A:1153:ARG:HB2	2.19	0.42
1:A:1159:CYS:SG	1:A:1161:LEU:CD2	3.07	0.42
1:A:1297:LEU:CD1	1:A:1297:LEU:H	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:56:ILE:HD11	2:B:73:VAL:HG23	2.01	0.42
2:B:141:SER:HA	2:B:142:PRO:HD3	1.85	0.42
2:B:618:LEU:HG	2:B:634:LEU:HD11	2.01	0.42
2:B:736:GLU:OE1	2:B:737:ASP:N	2.51	0.42
2:B:780:LEU:CD1	2:B:787:TRP:CD1	3.03	0.42
2:B:834:ALA:C	2:B:835:ILE:HD13	2.39	0.42
2:B:1294:TYR:CD2	2:B:1294:TYR:O	2.73	0.42
1:C:352:TYR:HE2	1:C:442:LEU:CD1	2.33	0.42
1:C:436:LYS:HG3	1:C:437:THR:N	2.34	0.42
1:C:781:PRO:C	1:C:783:ARG:H	2.20	0.42
1:C:971:THR:O	1:C:972:GLU:C	2.58	0.42
1:C:1066:TYR:N	1:C:1066:TYR:HD1	2.18	0.42
1:C:1069:TRP:HH2	1:C:1465:ASN:CG	2.24	0.42
1:C:1652:THR:HG22	1:C:1653:THR:N	2.35	0.42
2:D:220:VAL:O	2:D:221:LEU:C	2.57	0.42
2:D:869:GLN:O	2:D:870:PHE:HB3	2.20	0.42
2:D:1511:GLN:O	2:D:1514:LYS:HB2	2.20	0.42
2:D:1520:VAL:HG11	2:D:1584:TRP:CD1	2.55	0.42
2:D:1555:ASN:O	2:D:1558:ALA:HB3	2.20	0.42
1:A:117:MET:HE2	1:A:117:MET:HB2	1.68	0.42
1:A:177:ILE:HD13	1:A:177:ILE:N	2.35	0.42
1:A:259:VAL:HB	1:A:295:GLY:HA2	2.01	0.42
1:A:417:VAL:O	1:A:417:VAL:HG12	2.20	0.42
1:A:502:LEU:O	1:A:503:ILE:HD13	2.19	0.42
1:A:989:SER:O	1:A:993:SER:HB2	2.19	0.42
1:A:1090:ASN:HD22	1:A:1158:ILE:HG12	1.85	0.42
1:A:1156:PHE:HZ	1:A:1165:ASP:HB2	1.84	0.42
1:A:1232:LEU:HG	1:A:1233:GLN:H	1.83	0.42
1:A:1245:ALA:O	1:A:1247:MET:N	2.52	0.42
1:A:1548:ARG:C	1:A:1550:GLN:N	2.73	0.42
2:B:341:SER:HB2	2:B:426:ALA:HB2	2.02	0.42
2:B:460:LEU:CD2	2:B:508:LEU:HB3	2.50	0.42
2:B:518:PHE:HE2	2:B:538:VAL:CG1	2.33	0.42
2:B:844:ILE:O	2:B:871:PRO:HA	2.20	0.42
2:B:932:PRO:HB3	2:B:939:GLY:O	2.20	0.42
2:B:946:LYS:CD	2:B:946:LYS:N	2.82	0.42
2:B:1518:THR:HG23	2:B:1519:ASN:H	1.85	0.42
1:C:27:ALA:HB1	1:C:28:PRO:CD	2.50	0.42
1:C:215:ALA:C	1:C:216:TYR:HD2	2.23	0.42
1:C:267:ILE:CG2	1:C:268:THR:N	2.83	0.42
1:C:414:ASP:OD1	1:C:414:ASP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:644:ASN:HD22	1:C:644:ASN:HA	1.59	0.42
1:C:651:LEU:HA	1:C:651:LEU:HD23	1.69	0.42
1:C:689:LYS:CD	1:C:730:GLU:OE2	2.68	0.42
1:C:698:CYS:O	1:C:700:TYR:N	2.53	0.42
1:C:835:ARG:HH22	1:C:971:THR:HG22	1.84	0.42
1:C:839:ILE:HD12	1:C:839:ILE:HA	1.78	0.42
1:C:931:PRO:CB	1:C:1366:HIS:CD2	3.00	0.42
1:C:977:LEU:CD2	1:C:1361:VAL:HG22	2.49	0.42
2:D:416:ASN:CA	2:D:425:GLN:HE22	2.22	0.42
2:D:581:ASP:C	2:D:583:ALA:N	2.73	0.42
2:D:1282:PRO:O	2:D:1283:ASP:C	2.57	0.42
2:D:1349:VAL:O	2:D:1350:GLU:HB3	2.20	0.42
2:D:1615:GLU:HB3	2:D:1621:PHE:CE1	2.54	0.42
1:A:123:ASN:O	1:A:211:THR:CG2	2.66	0.41
1:A:961:TYR:CE2	1:A:1343:ASN:CA	3.00	0.41
1:A:1011:GLU:HG3	1:A:1055:SER:CB	2.50	0.41
1:A:1069:TRP:HH2	1:A:1465:ASN:CG	2.23	0.41
1:A:1113:LEU:HD23	1:A:1114:ASP:H	1.85	0.41
1:A:1554:LYS:CG	1:A:1555:PRO:HD2	2.50	0.41
2:B:438:GLN:HE22	2:B:530:GLU:HA	1.85	0.41
2:B:632:THR:O	2:B:633:ASN:C	2.56	0.41
2:B:1331:ALA:O	2:B:1332:GLN:CB	2.55	0.41
2:B:1349:VAL:O	2:B:1350:GLU:HB3	2.20	0.41
1:C:308:LYS:CG	1:C:309:GLU:N	2.82	0.41
1:C:505:SER:O	1:C:506:LYS:C	2.56	0.41
1:C:510:ILE:HG22	3:Y:150:ILE:HD11	2.01	0.41
1:C:943:THR:CG2	1:C:1356:LEU:HD21	2.50	0.41
1:C:1022:PHE:O	1:C:1023:HIS:C	2.58	0.41
1:C:1108:VAL:CG2	1:C:1167:ALA:CB	2.97	0.41
1:C:1208:ILE:HG22	1:C:1208:ILE:O	2.19	0.41
1:C:1243:GLY:O	1:C:1285:TYR:CE2	2.73	0.41
1:C:1307:LEU:HD22	1:C:1307:LEU:H	1.85	0.41
1:C:1559:TYR:HE1	1:C:1587:THR:HA	1.85	0.41
1:C:1573:VAL:HG12	1:C:1603:LYS:CB	2.45	0.41
1:C:1576:LYS:CG	1:C:1601:ILE:HG22	2.40	0.41
2:D:276:ILE:HB	2:D:279:SER:OG	2.20	0.41
2:D:946:LYS:N	2:D:946:LYS:CD	2.83	0.41
2:D:1329:TYR:N	2:D:1329:TYR:CD2	2.88	0.41
3:X:113:ASN:HD21	3:X:115:ARG:HG2	1.85	0.41
3:Y:100:GLY:O	3:Y:125:LYS:CG	2.67	0.41
3:Y:209:PHE:O	3:Y:212:MET:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:1:NAG:O3	4:E:2:NAG:O5	2.38	0.41
1:A:544:TYR:HD2	1:A:544:TYR:O	2.04	0.41
1:A:602:LEU:HA	1:A:801:GLY:HA2	2.02	0.41
1:A:613:GLN:C	1:A:615:GLY:N	2.73	0.41
1:A:839:ILE:CD1	1:A:1485:VAL:HG12	2.50	0.41
1:A:979:VAL:CG2	1:A:1326:TYR:HE1	2.27	0.41
1:A:1084:ARG:HB2	1:A:1151:GLY:HA2	2.00	0.41
1:A:1423:VAL:HG22	1:A:1496:TYR:HE2	1.85	0.41
2:B:126:SER:OG	2:B:152:HIS:HD2	2.02	0.41
2:B:355:LYS:HA	2:B:356:PRO:HD3	1.85	0.41
2:B:506:MET:O	2:B:506:MET:HG2	2.17	0.41
2:B:816:ILE:HD12	2:B:909:VAL:HG23	2.02	0.41
2:B:966:GLN:O	2:B:966:GLN:HG3	2.20	0.41
2:B:1529:LEU:O	2:B:1577:VAL:HG13	2.20	0.41
2:B:1581:TYR:HA	2:B:1608:GLU:O	2.20	0.41
1:C:260:VAL:CG1	1:C:261:THR:N	2.82	0.41
1:C:644:ASN:O	1:C:645:VAL:C	2.58	0.41
1:C:984:VAL:HG12	1:C:988:LEU:HD12	2.01	0.41
1:C:1016:VAL:N	1:C:1017:PRO:CD	2.83	0.41
1:C:1033:ILE:HG23	1:C:1034:PHE:CD1	2.55	0.41
1:C:1342:LEU:HG	1:C:1342:LEU:H	1.50	0.41
2:D:203:TYR:O	2:D:204:GLU:C	2.59	0.41
2:D:355:LYS:HA	2:D:356:PRO:HD3	1.85	0.41
2:D:524:TYR:HD1	2:D:524:TYR:C	2.22	0.41
2:D:874:ALA:C	2:D:876:SER:N	2.72	0.41
2:D:961:THR:HG22	2:D:1327:THR:OG1	2.19	0.41
2:D:1410:ARG:HD2	2:D:1410:ARG:HA	1.81	0.41
3:Y:169:ILE:HG21	3:Y:189:ILE:HD13	2.02	0.41
1:A:149:ASN:N	1:A:149:ASN:ND2	2.67	0.41
1:A:222:TYR:HE2	1:A:224:LEU:N	2.18	0.41
1:A:491:PRO:O	1:A:493:ILE:N	2.52	0.41
1:A:862:VAL:CG1	1:A:863:GLU:OE1	2.68	0.41
1:A:1153:ARG:NH2	1:A:1172:ASP:OD2	2.53	0.41
1:A:1571:GLU:O	1:A:1574:PHE:CG	2.73	0.41
2:B:76:ASN:CB	2:B:77:PRO:HD2	2.46	0.41
2:B:358:MET:HE2	2:B:467:LYS:HD2	2.02	0.41
2:B:481:TYR:CE2	2:B:493:GLY:N	2.88	0.41
2:B:913:LEU:C	2:B:913:LEU:CD2	2.88	0.41
2:B:1430:VAL:HA	2:B:1436:GLU:OE2	2.21	0.41
2:B:1476:LYS:HB3	2:B:1476:LYS:HE3	1.90	0.41
2:B:1598:SER:C	2:B:1599:TYR:HD1	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:GLU:O	1:C:76:GLU:CD	2.59	0.41
1:C:149:ASN:O	1:C:152:LEU:N	2.23	0.41
1:C:196:TYR:HA	1:C:219:VAL:HG12	2.02	0.41
1:C:498:HIS:ND1	1:C:516:GLU:HA	2.35	0.41
1:C:504:LEU:HD13	1:C:509:ILE:HG23	1.99	0.41
1:C:604:ALA:O	1:C:772:SER:HB3	2.21	0.41
1:C:621:GLU:H	1:C:621:GLU:HG3	1.32	0.41
1:C:622:ARG:HA	1:C:622:ARG:HD3	1.73	0.41
1:C:981:GLY:HA3	1:C:1333:PHE:CD1	2.55	0.41
1:C:1025:LEU:HD11	1:C:1034:PHE:HZ	1.85	0.41
1:C:1226:ARG:CD	1:C:1266:TYR:HE1	2.32	0.41
1:C:1428:LEU:HA	1:C:1428:LEU:HD23	1.76	0.41
1:C:1565:ILE:HB	1:C:1614:GLY:N	2.36	0.41
2:D:235:PHE:CZ	2:D:296:ARG:NE	2.87	0.41
2:D:355:LYS:N	2:D:355:LYS:CD	2.81	0.41
2:D:469:ASN:ND2	2:D:472:SER:N	2.69	0.41
2:D:811:MET:HG3	2:D:812:LYS:N	2.35	0.41
2:D:922:LYS:NZ	2:D:952:ASP:OD2	2.53	0.41
2:D:940:THR:O	2:D:940:THR:HG22	2.19	0.41
3:X:194:LYS:HZ2	3:X:197:ASN:HD22	1.68	0.41
1:A:383:VAL:CG2	1:A:383:VAL:O	2.68	0.41
1:A:1175:LEU:HB3	1:A:1195:LEU:HD11	2.02	0.41
1:A:1430:THR:O	1:A:1430:THR:HG22	2.20	0.41
2:B:133:ASP:HB3	2:B:757:TRP:CZ3	2.56	0.41
2:B:221:LEU:H	2:B:221:LEU:HG	1.66	0.41
2:B:1290:TYR:HD2	2:B:1301:ARG:HB3	1.85	0.41
2:B:1524:TYR:HB3	2:B:1544:VAL:HG13	2.01	0.41
1:C:146:TYR:CD1	1:C:182:ILE:HG23	2.55	0.41
1:C:162:THR:HB	1:C:173:MET:CE	2.50	0.41
1:C:185:PHE:CB	1:C:186:PRO:HD2	2.50	0.41
1:C:186:PRO:O	1:C:187:ASP:C	2.58	0.41
1:C:905:ILE:O	1:C:905:ILE:HG22	2.18	0.41
1:C:943:THR:OG1	1:C:1275:SER:OG	2.28	0.41
1:C:989:SER:O	1:C:993:SER:HB2	2.20	0.41
1:C:1534:GLN:HA	1:C:1608:ASN:HD22	1.85	0.41
1:C:1644:TRP:C	1:C:1645:ILE:HG12	2.39	0.41
2:D:476:ILE:HG23	2:D:497:ARG:HD3	2.03	0.41
2:D:804:GLU:OE2	2:D:804:GLU:HA	2.19	0.41
3:Y:46:LEU:N	3:Y:46:LEU:HD23	2.36	0.41
1:A:20:GLU:O	1:A:21:GLN:CG	2.69	0.41
1:A:147:SER:O	1:A:147:SER:OG	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:PHE:N	1:A:163:PHE:CD1	2.88	0.41
1:A:680:GLN:CG	1:A:681:LYS:H	2.32	0.41
1:A:708:ASP:OD2	1:A:1476:ARG:HD3	2.20	0.41
1:A:1110:ASN:O	1:A:1111:TYR:CD1	2.73	0.41
1:A:1179:THR:HG22	1:A:1208:ILE:HD13	2.00	0.41
1:A:1549:LYS:O	1:A:1552:ALA:N	2.46	0.41
1:A:1575:VAL:O	1:A:1601:ILE:HA	2.21	0.41
1:A:1589:GLU:HB2	1:A:1590:ALA:H	1.69	0.41
2:B:52:LYS:HG2	2:B:111:PRO:HB2	2.01	0.41
2:B:150:MET:SD	2:B:800:ILE:HB	2.61	0.41
2:B:219:TYR:O	2:B:220:VAL:HG13	2.20	0.41
2:B:220:VAL:O	2:B:221:LEU:C	2.59	0.41
2:B:278:ASP:OD1	2:B:278:ASP:N	2.54	0.41
2:B:280:LEU:HD22	2:B:1462:TYR:CE2	2.54	0.41
2:B:423:GLU:H	2:B:423:GLU:CD	2.23	0.41
2:B:445:LEU:HD23	2:B:533:ALA:HA	2.02	0.41
2:B:511:THR:O	2:B:512:PRO:C	2.58	0.41
2:B:1575:LEU:N	2:B:1575:LEU:HD22	2.34	0.41
1:C:182:ILE:HG21	1:C:601:ALA:HB2	2.01	0.41
1:C:395:ILE:HG22	1:C:401:THR:HG22	2.02	0.41
1:C:439:ALA:HA	1:C:440:PRO:HD3	1.85	0.41
1:C:461:SER:C	1:C:463:SER:N	2.73	0.41
1:C:470:THR:HG22	2:D:450:THR:HA	2.03	0.41
1:C:500:ASN:ND2	1:C:543:TYR:HE1	2.17	0.41
1:C:545:ILE:HG23	1:C:554:LEU:CD2	2.51	0.41
1:C:590:LEU:CD2	1:C:774:LEU:HD11	2.50	0.41
1:C:613:GLN:C	1:C:615:GLY:N	2.73	0.41
1:C:824:PHE:CE2	1:C:846:TYR:CD1	3.04	0.41
1:C:978:SER:O	1:C:1359:VAL:HA	2.21	0.41
1:C:1024:TYR:HB2	1:C:1298:THR:CG2	2.50	0.41
1:C:1081:PHE:O	1:C:1084:ARG:N	2.54	0.41
1:C:1560:ALA:O	1:C:1561:TYR:HB3	2.20	0.41
1:C:1610:GLU:C	1:C:1611:LEU:HD23	2.40	0.41
1:C:1629:TYR:CE1	1:C:1631:PHE:CE1	3.08	0.41
2:D:194:LEU:HD22	2:D:194:LEU:N	2.36	0.41
2:D:219:TYR:CG	2:D:220:VAL:N	2.87	0.41
2:D:224:PHE:HE1	2:D:320:VAL:HG11	1.85	0.41
2:D:275:SER:C	2:D:277:PRO:HD3	2.41	0.41
2:D:1522:TYR:CE2	2:D:1585:GLY:N	2.77	0.41
1:A:20:GLU:HB2	1:A:551:THR:HB	2.01	0.41
1:A:23:TYR:CE1	1:A:655:THR:O	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:ASP:O	1:A:152:LEU:HB2	2.21	0.41
1:A:238:ILE:HD11	1:A:246:PHE:CD2	2.56	0.41
1:A:311:SER:O	1:A:313:TYR:N	2.53	0.41
1:A:328:THR:OG1	1:A:339:GLU:HG2	2.20	0.41
1:A:500:ASN:ND2	1:A:543:TYR:HE1	2.15	0.41
1:A:610:TYR:CE2	1:A:619:PRO:HG3	2.54	0.41
1:A:627:LEU:HD23	1:A:627:LEU:HA	1.69	0.41
1:A:1080:ALA:HB1	1:A:1148:THR:HA	2.01	0.41
1:A:1156:PHE:CZ	1:A:1165:ASP:HB2	2.56	0.41
1:A:1231:ASN:OD1	1:A:1232:LEU:N	2.53	0.41
1:A:1652:THR:HG22	1:A:1653:THR:N	2.36	0.41
2:B:79:GLY:C	2:B:81:MET:H	2.24	0.41
2:B:358:MET:HA	2:B:359:PRO:HD3	1.97	0.41
2:B:436:GLN:O	2:B:437:THR:C	2.57	0.41
2:B:628:LEU:HD12	2:B:629:THR:N	2.35	0.41
2:B:825:VAL:HG11	2:B:918:GLU:HB3	2.01	0.41
2:B:1370:ARG:NH1	2:B:1372:LEU:HG	2.34	0.41
2:B:1500:LEU:C	2:B:1500:LEU:HD12	2.41	0.41
1:C:38:ASN:HA	1:C:84:ILE:CG2	2.44	0.41
1:C:286:ALA:O	1:C:287:MET:C	2.58	0.41
1:C:309:GLU:CG	1:C:310:LEU:N	2.84	0.41
1:C:525:SER:O	2:D:401:ASN:ND2	2.54	0.41
1:C:705:VAL:CA	1:C:739:ARG:NH2	2.83	0.41
1:C:946:PRO:O	1:C:953:ILE:HG13	2.21	0.41
1:C:958:GLU:HG2	1:C:1347:ILE:HG12	2.01	0.41
1:C:961:TYR:HE1	1:C:963:ILE:HG12	1.86	0.41
1:C:1179:THR:HG22	1:C:1208:ILE:HD13	1.98	0.41
1:C:1548:ARG:C	1:C:1550:GLN:N	2.74	0.41
1:C:1570:VAL:HG22	1:C:1575:VAL:HG22	2.02	0.41
2:D:59:HIS:HA	2:D:68:LEU:HD22	2.02	0.41
2:D:120:LEU:HD13	2:D:120:LEU:HA	1.78	0.41
2:D:257:VAL:CG1	2:D:258:GLU:N	2.82	0.41
2:D:296:ARG:HD2	2:D:296:ARG:HA	1.93	0.41
2:D:306:LEU:HD13	2:D:306:LEU:HA	1.85	0.41
2:D:785:THR:OG1	2:D:786:THR:N	2.52	0.41
2:D:818:LEU:HD23	2:D:911:LYS:HB2	2.01	0.41
2:D:965:ILE:HA	2:D:1322:THR:O	2.20	0.41
2:D:1511:GLN:CG	2:D:1631:PHE:CE1	3.04	0.41
1:A:1028:GLY:HA3	1:A:1030:HIS:CE1	2.55	0.41
1:A:1226:ARG:HD3	1:A:1266:TYR:CE1	2.55	0.41
1:A:1267:VAL:O	1:A:1270:VAL:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1279:ARG:HD3	1:A:1280:TYR:H	1.85	0.41
1:A:1320:LYS:CD	1:A:1321:GLY:N	2.78	0.41
1:A:1540:ASP:CA	1:A:1660:PHE:CD1	3.03	0.41
2:B:810:VAL:CG1	2:B:811:MET:N	2.83	0.41
2:B:902:GLU:O	2:B:903:ALA:HB2	2.21	0.41
2:B:1391:LEU:HA	2:B:1392:PRO:HD3	1.88	0.41
1:C:433:PHE:N	1:C:433:PHE:HD1	2.19	0.41
1:C:1033:ILE:HG23	1:C:1034:PHE:H	1.85	0.41
1:C:1211:ALA:HA	1:C:1214:ARG:NH1	2.34	0.41
1:C:1231:ASN:HB2	1:C:1235:LYS:CG	2.49	0.41
1:C:1445:GLY:O	1:C:1448:GLN:HB3	2.20	0.41
1:C:1563:VAL:HG12	1:C:1581:LEU:HA	2.02	0.41
2:D:101:ASN:ND2	2:D:641:ALA:HB2	2.36	0.41
2:D:322:THR:HG21	2:D:326:SER:OG	2.21	0.41
2:D:476:ILE:CG1	2:D:524:TYR:CD2	3.03	0.41
2:D:563:MET:CE	2:D:563:MET:HA	2.50	0.41
2:D:610:THR:C	2:D:612:GLY:N	2.72	0.41
1:A:185:PHE:CB	1:A:186:PRO:HD2	2.51	0.41
1:A:215:ALA:C	1:A:216:TYR:CD2	2.94	0.41
1:A:461:SER:C	1:A:463:SER:N	2.74	0.41
1:A:804:ILE:HA	1:A:809:ILE:HA	2.02	0.41
1:A:1019:PHE:CZ	1:A:1088:GLN:HB3	2.56	0.41
1:A:1033:ILE:HD13	1:A:1034:PHE:CE1	2.55	0.41
1:A:1145:THR:HG22	1:A:1146:ALA:N	2.35	0.41
1:A:1195:LEU:HD23	1:A:1195:LEU:HA	1.95	0.41
1:A:1435:ASN:O	1:A:1436:GLU:C	2.58	0.41
1:A:1538:GLU:CD	1:A:1538:GLU:H	2.23	0.41
2:B:276:ILE:HB	2:B:279:SER:OG	2.21	0.41
2:B:345:ILE:O	2:B:428:LYS:HD3	2.21	0.41
2:B:822:TYR:CD1	2:B:822:TYR:O	2.74	0.41
2:B:965:ILE:HD13	2:B:1277:ILE:HD13	2.03	0.41
2:B:1273:LEU:HD12	2:B:1273:LEU:C	2.41	0.41
2:B:1518:THR:HG23	2:B:1519:ASN:N	2.36	0.41
2:B:1548:ILE:HA	2:B:1636:THR:OG1	2.21	0.41
1:C:123:ASN:C	1:C:211:THR:HG21	2.39	0.41
1:C:316:GLU:OE1	1:C:316:GLU:N	2.41	0.41
1:C:465:LEU:HD12	1:C:466:TYR:H	1.85	0.41
1:C:544:TYR:CZ	1:C:555:VAL:HG12	2.55	0.41
1:C:697:LYS:O	1:C:700:TYR:N	2.54	0.41
1:C:710:THR:OG1	1:C:713:GLN:HG3	2.21	0.41
1:C:805:SER:O	1:C:806:ASN:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:953:ILE:CD1	1:C:955:ARG:HH21	2.33	0.41
1:C:965:LEU:C	1:C:967:LEU:H	2.24	0.41
1:C:1093:VAL:O	1:C:1094:GLU:C	2.59	0.41
1:C:1159:CYS:O	1:C:1161:LEU:HD23	2.20	0.41
1:C:1234:HIS:CG	1:C:1235:LYS:N	2.88	0.41
2:D:283:ILE:HA	2:D:284:PRO:HD3	1.81	0.41
2:D:417:HIS:CD2	2:D:419:ASP:HB2	2.56	0.41
2:D:541:LYS:O	2:D:543:THR:CG2	2.69	0.41
2:D:748:ARG:NH1	2:D:784:ILE:HG12	2.36	0.41
2:D:1273:LEU:HD12	2:D:1273:LEU:O	2.20	0.41
3:Y:52:SER:OG	3:Y:53:GLU:N	2.53	0.41
3:Y:138:VAL:HG11	3:Y:177:TYR:CD2	2.56	0.41
1:A:49:ALA:HB2	1:A:74:SER:HB2	2.01	0.41
1:A:174:VAL:CG2	1:A:175:GLU:H	2.34	0.41
1:A:215:ALA:C	1:A:216:TYR:HD2	2.24	0.41
1:A:734:VAL:O	1:A:737:GLN:HB2	2.21	0.41
1:A:849:ARG:HH22	2:B:555:LEU:C	2.24	0.41
1:A:856:CYS:N	2:B:904:LEU:HD11	2.36	0.41
1:A:958:GLU:HG2	1:A:1347:ILE:HG12	2.03	0.41
1:A:1090:ASN:O	1:A:1092:TYR:N	2.54	0.41
1:A:1188:LEU:HD23	1:A:1212:LEU:CA	2.51	0.41
1:A:1246:ARG:HB2	1:A:1246:ARG:CZ	2.51	0.41
1:A:1445:GLY:O	1:A:1448:GLN:HB3	2.21	0.41
1:A:1552:ALA:HB1	1:A:1585:TYR:OH	2.20	0.41
1:A:1560:ALA:C	1:A:1561:TYR:CD2	2.95	0.41
1:A:1565:ILE:HB	1:A:1614:GLY:N	2.36	0.41
2:B:104:VAL:HG12	2:B:121:LEU:HD13	2.02	0.41
2:B:173:VAL:HA	2:B:964:ILE:HD11	2.03	0.41
2:B:504:VAL:O	2:B:504:VAL:HG12	2.21	0.41
2:B:615:GLN:CB	2:B:616:ASN:HD22	2.34	0.41
2:B:819:GLN:HA	2:B:819:GLN:HE21	1.85	0.41
2:B:857:CYS:CB	2:B:885:VAL:CG2	2.99	0.41
2:B:952:ASP:O	2:B:1331:ALA:CA	2.69	0.41
2:B:1424:ILE:HG12	2:B:1426:TYR:HE2	1.80	0.41
2:B:1444:LYS:HZ1	2:B:1447:GLU:HA	1.86	0.41
2:B:1522:TYR:HD1	2:B:1524:TYR:CE1	2.38	0.41
2:B:1571:GLU:O	2:B:1574:ASN:HB2	2.21	0.41
2:B:1601:ILE:HD12	2:B:1601:ILE:N	2.36	0.41
2:B:1605:THR:O	2:B:1605:THR:HG22	2.20	0.41
1:C:20:GLU:HG3	1:C:547:THR:OG1	2.21	0.41
1:C:153:LYS:CB	1:C:154:PRO:CD	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:185:PHE:CD1	1:C:186:PRO:HD2	2.56	0.41
1:C:257:ASN:HB2	1:C:848:TYR:CE2	2.56	0.41
1:C:354:LEU:H	1:C:354:LEU:HD23	1.85	0.41
1:C:560:TRP:CH2	1:C:562:ASN:HB2	2.55	0.41
1:C:620:LEU:O	1:C:623:VAL:CG2	2.65	0.41
1:C:915:GLU:HG3	2:D:904:LEU:HG	2.03	0.41
1:C:934:VAL:O	1:C:935:LYS:HE2	2.21	0.41
1:C:999:ILE:O	1:C:1000:LEU:C	2.59	0.41
1:C:1047:LYS:O	1:C:1048:LYS:C	2.58	0.41
1:C:1176:LEU:HD21	1:C:1195:LEU:HD13	2.02	0.41
1:C:1180:LEU:O	1:C:1180:LEU:HD22	2.20	0.41
1:C:1218:VAL:CG1	1:C:1219:LYS:N	2.72	0.41
1:C:1232:LEU:HG	1:C:1233:GLN:H	1.86	0.41
1:C:1314:ASP:OD2	1:C:1325:ASN:HB3	2.20	0.41
1:C:1342:LEU:HD23	1:C:1342:LEU:N	2.36	0.41
1:C:1638:PRO:HG2	1:C:1639:LEU:H	1.85	0.41
1:C:1644:TRP:NE1	1:C:1646:GLU:OE1	2.52	0.41
1:C:1661:LEU:O	1:C:1662:ALA:C	2.59	0.41
1:C:1669:GLU:O	1:C:1673:LEU:HG	2.21	0.41
2:D:58:VAL:HG23	2:D:69:PHE:O	2.21	0.41
2:D:147:VAL:O	2:D:147:VAL:CG1	2.69	0.41
2:D:247:ILE:HD11	2:D:318:VAL:HG21	2.03	0.41
2:D:338:ILE:C	2:D:339:VAL:HG13	2.41	0.41
2:D:341:SER:HB2	2:D:426:ALA:HB2	2.03	0.41
2:D:438:GLN:HE22	2:D:530:GLU:HA	1.86	0.41
2:D:518:PHE:HD2	2:D:518:PHE:H	1.68	0.41
2:D:620:VAL:CG1	2:D:621:PHE:N	2.84	0.41
2:D:751:PHE:CD2	2:D:751:PHE:N	2.88	0.41
2:D:810:VAL:O	2:D:811:MET:HB2	2.20	0.41
2:D:819:GLN:HE21	2:D:819:GLN:HA	1.85	0.41
2:D:895:GLU:HA	2:D:909:VAL:O	2.21	0.41
2:D:902:GLU:O	2:D:903:ALA:HB2	2.20	0.41
2:D:1279:ILE:HD13	2:D:1279:ILE:HA	1.86	0.41
2:D:1423:VAL:O	2:D:1423:VAL:CG1	2.68	0.41
2:D:1429:LYS:HE3	2:D:1429:LYS:H	1.85	0.41
2:D:1459:TYR:CB	2:D:1466:GLU:HB3	2.51	0.41
2:D:1506:ILE:HB	2:D:1627:ASP:HB3	2.02	0.41
1:A:88:GLN:HA	1:A:89:PRO:HD2	1.88	0.41
1:A:131:ASP:OD2	1:A:132:LYS:HG3	2.21	0.41
1:A:149:ASN:HD21	1:A:153:LYS:H	1.67	0.41
1:A:161:LEU:HD12	1:A:161:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:LEU:HA	1:A:382:LEU:HD23	1.80	0.41
1:A:505:SER:HB3	1:A:510:ILE:HD13	2.00	0.41
1:A:535:VAL:HA	1:A:563:ILE:CD1	2.50	0.41
1:A:967:LEU:HD12	1:A:968:VAL:H	1.86	0.41
1:A:1127:ILE:HD12	1:A:1127:ILE:N	2.28	0.41
1:A:1161:LEU:HD12	1:C:1105:LEU:CD1	2.46	0.41
1:A:1161:LEU:CA	1:C:1102:ASN:HD21	2.26	0.41
1:A:1268:ASN:N	1:A:1269:PRO:HD2	2.35	0.41
1:A:1564:SER:HA	1:A:1616:GLN:HA	2.02	0.41
1:A:1638:PRO:HG2	1:A:1639:LEU:N	2.36	0.41
2:B:101:ASN:ND2	2:B:641:ALA:HB2	2.36	0.41
2:B:103:TYR:N	2:B:103:TYR:HD2	2.19	0.41
2:B:146:ARG:CB	2:B:146:ARG:HH11	2.34	0.41
2:B:168:PRO:CG	2:B:196:THR:N	2.84	0.41
2:B:811:MET:CE	2:B:839:TYR:HD2	2.35	0.41
2:B:828:GLU:O	2:B:886:PRO:HD2	2.21	0.41
2:B:850:LEU:CD1	2:B:851:LEU:N	2.84	0.41
2:B:1429:LYS:HE3	2:B:1429:LYS:N	2.36	0.41
2:B:1446:PHE:CD2	2:B:1448:VAL:HG13	2.56	0.41
1:C:81:ASN:CG	1:C:82:SER:N	2.74	0.41
1:C:255:PHE:O	1:C:255:PHE:HD1	2.04	0.41
1:C:315:LEU:HD11	1:C:318:LEU:HG	1.98	0.41
1:C:566:LYS:O	1:C:568:GLY:N	2.54	0.41
1:C:701:ASP:CG	1:C:1446:VAL:HG23	2.41	0.41
1:C:734:VAL:O	1:C:737:GLN:HB2	2.21	0.41
1:C:1274:LEU:O	1:C:1275:SER:C	2.59	0.41
2:D:173:VAL:O	2:D:174:SER:HB2	2.20	0.41
2:D:370:ASP:OD1	2:D:370:ASP:N	2.47	0.41
2:D:553:ASP:OD1	2:D:553:ASP:N	2.54	0.41
2:D:1363:LEU:HD23	2:D:1442:ILE:HG12	2.03	0.41
2:D:1378:THR:O	2:D:1379:MET:C	2.59	0.41
1:A:23:TYR:CE1	1:A:655:THR:HB	2.55	0.40
1:A:25:ILE:HD13	1:A:25:ILE:HA	1.90	0.40
1:A:46:TYR:HE1	1:A:48:GLU:HB2	1.85	0.40
1:A:74:SER:CA	1:A:79:PHE:CE1	3.04	0.40
1:A:367:ILE:HD13	1:A:466:TYR:CD2	2.56	0.40
1:A:455:ILE:CG2	1:A:456:ALA:N	2.83	0.40
1:A:531:THR:HG23	1:A:533:ASN:N	2.35	0.40
1:A:827:MET:HB3	1:A:829:ILE:CD1	2.52	0.40
1:A:1042:LYS:HZ3	1:C:92:LEU:HD13	1.86	0.40
1:A:1054:LEU:O	1:A:1055:SER:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:58:VAL:HG23	2:B:69:PHE:O	2.21	0.40
2:B:148:PHE:HB2	2:B:800:ILE:HD11	2.00	0.40
2:B:235:PHE:HB3	2:B:338:ILE:CG2	2.52	0.40
2:B:253:TYR:HE1	2:B:839:TYR:HE2	1.69	0.40
2:B:410:PRO:CB	2:B:431:THR:HG22	2.50	0.40
2:B:464:PHE:O	2:B:503:LEU:HA	2.20	0.40
2:B:620:VAL:CG1	2:B:621:PHE:N	2.84	0.40
2:B:816:ILE:CD1	2:B:909:VAL:HG23	2.51	0.40
2:B:1410:ARG:HA	2:B:1410:ARG:HD2	1.83	0.40
2:B:1494:GLY:O	2:B:1495:GLU:HB2	2.21	0.40
1:C:54:ILE:HA	1:C:105:GLU:O	2.21	0.40
1:C:100:SER:C	1:C:101:TYR:CD2	2.94	0.40
1:C:404:LEU:HA	1:C:404:LEU:HD22	1.69	0.40
1:C:569:ASN:O	1:C:570:GLN:CB	2.51	0.40
1:C:601:ALA:N	1:C:802:VAL:O	2.48	0.40
1:C:681:LYS:HD2	1:C:738:LEU:HD21	2.04	0.40
1:C:1215:GLU:O	1:C:1217:LEU:HD23	2.21	0.40
1:C:1246:ARG:HB2	1:C:1246:ARG:NH1	2.36	0.40
1:C:1267:VAL:O	1:C:1267:VAL:HG12	2.20	0.40
1:C:1305:LYS:HD3	1:C:1305:LYS:HA	1.70	0.40
1:C:1339:GLU:OE1	1:C:1339:GLU:HA	2.21	0.40
1:C:1575:VAL:O	1:C:1601:ILE:HA	2.21	0.40
2:D:490:PHE:C	2:D:490:PHE:CD1	2.91	0.40
2:D:820:MET:HE2	2:D:832:ILE:HG21	2.03	0.40
2:D:1571:GLU:O	2:D:1574:ASN:HB2	2.21	0.40
3:X:100:GLY:O	3:X:125:LYS:CG	2.68	0.40
3:X:153:PHE:CE1	3:X:169:ILE:HD13	2.55	0.40
1:A:41:ILE:HD13	1:A:41:ILE:HG21	1.68	0.40
1:A:316:GLU:OE1	1:A:316:GLU:N	2.46	0.40
1:A:412:ARG:NE	1:A:415:ASP:OD2	2.54	0.40
1:A:594:THR:O	1:A:782:ARG:CD	2.69	0.40
1:A:705:VAL:CA	1:A:739:ARG:HH22	2.35	0.40
1:A:889:GLU:HB2	1:A:892:SER:HB2	2.04	0.40
1:A:971:THR:O	1:A:972:GLU:C	2.59	0.40
1:A:1013:MET:O	1:A:1015:VAL:N	2.54	0.40
1:A:1020:TYR:CE1	1:A:1295:GLU:HA	2.56	0.40
1:A:1244:THR:HG23	1:A:1502:ASP:CG	2.40	0.40
2:B:150:MET:HG3	2:B:602:ILE:HD11	2.02	0.40
2:B:352:LYS:HG3	2:B:430:MET:CE	2.51	0.40
2:B:1292:ILE:HD11	2:B:1301:ARG:HE	1.86	0.40
2:B:1635:LEU:HA	2:B:1635:LEU:HD23	1.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:162:THR:HG23	1:C:202:LYS:HB2	2.03	0.40
1:C:357:VAL:O	1:C:358:ALA:C	2.60	0.40
1:C:600:VAL:HG11	1:C:602:LEU:HD21	2.02	0.40
1:C:604:ALA:HB3	1:C:773:TRP:O	2.21	0.40
1:C:705:VAL:CA	1:C:739:ARG:HH22	2.33	0.40
1:C:941:GLY:HA2	1:C:1359:VAL:O	2.22	0.40
1:C:1011:GLU:HG3	1:C:1055:SER:CB	2.51	0.40
1:C:1180:LEU:HD23	1:C:1180:LEU:HA	1.48	0.40
1:C:1320:LYS:HD2	1:C:1320:LYS:HA	1.88	0.40
1:C:1449:LEU:HD12	1:C:1449:LEU:O	2.22	0.40
2:D:147:VAL:O	2:D:147:VAL:HG13	2.20	0.40
2:D:472:SER:O	2:D:475:GLN:HG3	2.22	0.40
2:D:544:CYS:HB3	2:D:546:GLY:O	2.22	0.40
2:D:599:TRP:O	2:D:600:ASP:C	2.58	0.40
2:D:780:LEU:CD1	2:D:787:TRP:CD1	3.05	0.40
2:D:827:ASN:OD1	2:D:1490:CYS:HB2	2.22	0.40
2:D:925:VAL:HG22	2:D:1326:LEU:CD2	2.40	0.40
2:D:967:GLY:O	2:D:969:PRO:HD3	2.21	0.40
2:D:1331:ALA:O	2:D:1332:GLN:CB	2.58	0.40
2:D:1367:ILE:HD13	2:D:1456:VAL:HG21	2.02	0.40
2:D:1491:ARG:HD3	2:D:1491:ARG:HA	1.89	0.40
2:D:1509:PRO:HA	2:D:1512:ILE:CG1	2.51	0.40
3:Y:185:LYS:HE2	3:Y:185:LYS:HB3	1.98	0.40
1:A:116:ARG:O	1:A:117:MET:HB3	2.21	0.40
1:A:127:PHE:HD2	1:A:623:VAL:HG22	1.85	0.40
1:A:153:LYS:CB	1:A:154:PRO:CD	2.99	0.40
1:A:255:PHE:O	1:A:255:PHE:HD1	2.04	0.40
1:A:284:GLN:HG2	1:A:310:LEU:HD11	2.03	0.40
1:A:510:ILE:HA	3:X:150:ILE:HG13	2.02	0.40
1:A:587:THR:HA	1:A:789:ALA:HA	2.02	0.40
1:A:1161:LEU:CD1	1:C:1105:LEU:CD1	3.00	0.40
1:A:1220:GLY:O	1:A:1223:PRO:HA	2.21	0.40
1:A:1243:GLY:O	1:A:1285:TYR:CE2	2.74	0.40
1:A:1420:SER:O	1:A:1421:HIS:C	2.58	0.40
1:A:1450:PHE:HB3	1:A:1463:GLN:O	2.21	0.40
2:B:283:ILE:HA	2:B:284:PRO:HD3	1.81	0.40
2:B:330:VAL:O	2:B:330:VAL:HG23	2.22	0.40
2:B:460:LEU:HD23	2:B:508:LEU:HB3	2.04	0.40
2:B:464:PHE:CE2	2:B:506:MET:HE1	2.56	0.40
2:B:476:ILE:CG1	2:B:524:TYR:CD2	3.04	0.40
2:B:482:LEU:CB	2:B:492:VAL:HG23	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1539:ILE:HD12	2:B:1539:ILE:N	2.34	0.40
1:C:78:LYS:NZ	3:Y:143:GLY:O	2.47	0.40
1:C:92:LEU:HA	1:C:93:PRO:HD3	1.96	0.40
1:C:602:LEU:HA	1:C:801:GLY:HA2	2.03	0.40
1:C:854:GLN:HE21	1:C:854:GLN:C	2.23	0.40
1:C:914:LEU:O	1:C:914:LEU:HG	2.20	0.40
1:C:1053:MET:CE	1:C:1085:VAL:HG12	2.51	0.40
1:C:1127:ILE:HB	1:C:1129:LEU:HD21	2.03	0.40
1:C:1146:ALA:HB3	1:C:1190:ILE:CG2	2.51	0.40
2:D:45:ALA:HB3	2:D:81:MET:CE	2.51	0.40
2:D:164:GLU:HB2	2:D:200:VAL:HG23	2.03	0.40
2:D:345:ILE:HD11	2:D:426:ALA:C	2.41	0.40
2:D:352:LYS:HG3	2:D:430:MET:HE1	2.03	0.40
2:D:468:GLY:O	2:D:469:ASN:C	2.59	0.40
2:D:745:ILE:CG2	2:D:745:ILE:O	2.68	0.40
2:D:943:GLU:CB	2:D:1313:VAL:HG23	2.52	0.40
3:Y:40:LEU:HD11	3:Y:209:PHE:HZ	1.85	0.40
3:Y:61:SER:OG	3:Y:99:GLN:HA	2.20	0.40
3:Y:67:TYR:CD1	3:Y:67:TYR:O	2.74	0.40
1:A:431:LEU:C	1:A:431:LEU:CD2	2.90	0.40
1:A:718:ILE:HB	1:A:725:ILE:CD1	2.51	0.40
1:A:1300:TYR:CE2	1:A:1304:VAL:HG21	2.56	0.40
1:A:1358:THR:HB	1:A:1360:HIS:HE1	1.84	0.40
1:A:1440:LYS:O	1:A:1443:VAL:HG12	2.21	0.40
2:B:145:TYR:CD1	2:B:145:TYR:C	2.95	0.40
2:B:802:VAL:O	2:B:802:VAL:HG12	2.22	0.40
2:B:848:VAL:HG22	2:B:898:ALA:HB2	2.04	0.40
2:B:950:LEU:O	2:B:951:ASP:HB2	2.21	0.40
2:B:1292:ILE:HD12	2:B:1296:ASN:OD1	2.21	0.40
2:B:1534:GLN:HB2	2:B:1539:ILE:HD11	2.04	0.40
1:C:22:THR:HG21	1:C:657:ALA:HB2	2.04	0.40
1:C:243:PHE:O	1:C:303:SER:HB2	2.21	0.40
1:C:492:TYR:HE2	1:C:546:VAL:HG11	1.86	0.40
1:C:531:THR:HG23	1:C:533:ASN:N	2.37	0.40
1:C:789:ALA:O	1:C:790:LEU:O	2.40	0.40
1:C:804:ILE:HA	1:C:809:ILE:HA	2.03	0.40
1:C:984:VAL:O	1:C:984:VAL:HG13	2.21	0.40
1:C:1018:VAL:HG11	1:C:1048:LYS:HB3	2.03	0.40
1:C:1217:LEU:CD1	1:C:1237:SER:HA	2.52	0.40
1:C:1231:ASN:OD1	1:C:1232:LEU:N	2.54	0.40
1:C:1248:VAL:H	1:C:1248:VAL:HG23	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1430:THR:O	1:C:1430:THR:HG22	2.21	0.40
2:D:64:LYS:HG3	2:D:64:LYS:O	2.22	0.40
2:D:76:ASN:CB	2:D:77:PRO:HD2	2.52	0.40
2:D:121:LEU:HD12	2:D:121:LEU:HA	1.72	0.40
2:D:269:ILE:HG13	2:D:272:ALA:HB3	2.02	0.40
2:D:515:ILE:HG21	2:D:599:TRP:CZ2	2.56	0.40
2:D:794:PHE:CD2	2:D:795:THR:N	2.89	0.40
2:D:851:LEU:CD2	2:D:852:TYR:H	2.17	0.40
2:D:878:ARG:HA	2:D:878:ARG:HD2	1.92	0.40
2:D:1383:ASP:O	2:D:1456:VAL:HA	2.22	0.40
2:D:1469:THR:O	2:D:1470:LYS:HG2	2.22	0.40
2:D:1615:GLU:O	2:D:1616:CYS:C	2.60	0.40
3:X:101:GLN:HB3	3:X:123:THR:O	2.22	0.40
3:Y:113:ASN:HD21	3:Y:115:ARG:HG2	1.87	0.40
1:A:22:THR:CG2	1:A:23:TYR:CE1	3.04	0.40
1:A:127:PHE:N	1:A:127:PHE:HD1	2.20	0.40
1:A:127:PHE:CD2	1:A:623:VAL:HG22	2.56	0.40
1:A:160:VAL:O	1:A:160:VAL:HG12	2.20	0.40
1:A:316:GLU:O	1:A:349:LEU:HD21	2.21	0.40
1:A:412:ARG:HG3	1:A:413:VAL:H	1.87	0.40
1:A:644:ASN:O	1:A:647:HIS:N	2.55	0.40
1:A:658:ASN:OD1	1:A:658:ASN:O	2.40	0.40
1:A:984:VAL:HG13	1:A:984:VAL:O	2.21	0.40
1:A:1264:ILE:N	1:A:1264:ILE:HD12	2.36	0.40
1:A:1309:LEU:CD2	1:A:1355:GLY:HA3	2.52	0.40
2:B:174:SER:HA	2:B:1300:ALA:HB2	2.02	0.40
2:B:261:ALA:HB2	2:B:285:ILE:HD11	2.01	0.40
2:B:397:LYS:NZ	2:B:449:ILE:O	2.55	0.40
2:B:476:ILE:CD1	2:B:524:TYR:CD2	3.02	0.40
2:B:618:LEU:CD1	2:B:635:ASN:O	2.65	0.40
2:B:751:PHE:CD2	2:B:751:PHE:N	2.90	0.40
2:B:795:THR:CG2	2:B:796:PRO:CD	2.98	0.40
2:B:1459:TYR:CB	2:B:1466:GLU:HB3	2.52	0.40
1:C:284:GLN:HG2	1:C:310:LEU:HD11	2.02	0.40
1:C:489:LYS:HZ3	2:D:502:ASN:H	1.69	0.40
1:C:501:TYR:HB3	1:C:542:VAL:HG22	2.03	0.40
1:C:671:GLU:HB2	1:C:672:ILE:H	1.66	0.40
1:C:718:ILE:HB	1:C:725:ILE:CD1	2.51	0.40
1:C:823:VAL:HG23	1:C:846:TYR:O	2.20	0.40
1:C:849:ARG:NH2	2:D:555:LEU:HB2	2.36	0.40
1:C:923:LEU:CD2	1:C:925:LYS:HD3	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1008:ALA:O	1:C:1011:GLU:N	2.55	0.40
1:C:1090:ASN:O	1:C:1092:TYR:N	2.54	0.40
1:C:1147:PHE:C	1:C:1147:PHE:HD2	2.25	0.40
1:C:1228:TRP:N	1:C:1228:TRP:HE3	2.20	0.40
1:C:1467:ILE:HA	1:C:1468:PRO:HD3	1.83	0.40
2:D:23:ALA:CB	2:D:528:ASN:HD22	2.27	0.40
2:D:409:LEU:N	2:D:410:PRO:HD3	2.36	0.40
2:D:891:LEU:H	2:D:891:LEU:HG	1.10	0.40
2:D:1296:ASN:HB2	2:D:1299:LEU:HD22	2.03	0.40
2:D:1486:ILE:HG13	2:D:1486:ILE:O	2.22	0.40
3:Y:83:GLN:O	3:Y:117:SER:HA	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1616/1676 (96%)	1165 (72%)	300 (19%)	151 (9%)	0	12
1	C	1616/1676 (96%)	1179 (73%)	290 (18%)	147 (9%)	1	12
2	B	1203/1642 (73%)	981 (82%)	176 (15%)	46 (4%)	3	27
2	D	1203/1642 (73%)	982 (82%)	177 (15%)	44 (4%)	3	28
3	X	189/231 (82%)	148 (78%)	31 (16%)	10 (5%)	2	22
3	Y	189/231 (82%)	150 (79%)	28 (15%)	11 (6%)	1	20
All	All	6016/7098 (85%)	4605 (76%)	1002 (17%)	409 (7%)	1	17

All (409) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	21	GLN

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Mol	Chain	Res	Type
1	A	60	PRO
1	A	89	PRO
1	A	96	GLN
1	A	150	ASP
1	A	154	PRO
1	A	155	ALA
1	A	208	ASP
1	A	274	ASP
1	A	285	THR
1	A	308	LYS
1	A	490	SER
1	A	495	LYS
1	A	507	GLY
1	A	522	SER
1	A	551	THR
1	A	552	ALA
1	A	570	GLN
1	A	634	CYS
1	A	643	ALA
1	A	754	MET
1	A	759	PRO
1	A	790	LEU
1	A	821	LYS
1	A	866	CYS
1	A	873	ILE
1	A	884	VAL
1	A	885	ARG
1	A	948	GLY
1	A	998	ASN
1	A	1004	PRO
1	A	1096	ASN
1	A	1232	LEU
1	A	1242	THR
1	A	1286	SER
1	A	1335	GLY
1	A	1452	ASP
1	A	1538	GLU
1	A	1573	VAL
1	A	1609	ALA
1	A	1628	LYS
1	A	1638	PRO
1	A	1639	LEU

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Mol	Chain	Res	Type
1	A	1674	ASN
2	B	207	PRO
2	B	453	GLU
2	B	490	PHE
2	B	873	LYS
2	B	1529	LEU
2	B	1548	ILE
2	B	1615	GLU
2	B	1639	GLY
1	C	60	PRO
1	C	89	PRO
1	C	96	GLN
1	C	97	ASN
1	C	150	ASP
1	C	155	ALA
1	C	208	ASP
1	C	274	ASP
1	C	285	THR
1	C	308	LYS
1	C	490	SER
1	C	495	LYS
1	C	507	GLY
1	C	522	SER
1	C	570	GLN
1	C	634	CYS
1	C	643	ALA
1	C	669	CYS
1	C	754	MET
1	C	759	PRO
1	C	790	LEU
1	C	821	LYS
1	C	873	ILE
1	C	884	VAL
1	C	885	ARG
1	C	939	TYR
1	C	948	GLY
1	C	998	ASN
1	C	1096	ASN
1	C	1232	LEU
1	C	1242	THR
1	C	1264	ILE
1	C	1286	SER

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Mol	Chain	Res	Type
1	C	1335	GLY
1	C	1452	ASP
1	C	1538	GLU
1	C	1590	ALA
1	C	1609	ALA
1	C	1628	LYS
1	C	1638	PRO
1	C	1639	LEU
1	C	1674	ASN
2	D	51	PRO
2	D	207	PRO
2	D	453	GLU
2	D	490	PHE
2	D	873	LYS
2	D	1507	ASP
2	D	1529	LEU
2	D	1548	ILE
3	X	42	ASP
3	X	72	VAL
3	X	78	LYS
3	Y	42	ASP
3	Y	72	VAL
3	Y	78	LYS
1	A	97	ASN
1	A	133	PRO
1	A	156	LYS
1	A	181	GLY
1	A	187	ASP
1	A	289	ASN
1	A	312	TYR
1	A	318	LEU
1	A	474	LYS
1	A	489	LYS
1	A	519	SER
1	A	520	ASP
1	A	565	GLU
1	A	596	MET
1	A	614	ARG
1	A	623	VAL
1	A	639	GLY
1	A	656	ASN
1	A	659	ALA

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Mol	Chain	Res	Type
1	A	669	CYS
1	A	672	ILE
1	A	690	TYR
1	A	806	ASN
1	A	820	PHE
1	A	850	THR
1	A	870	SER
1	A	939	TYR
1	A	946	PRO
1	A	1133	LEU
1	A	1134	PRO
1	A	1264	ILE
1	A	1333	PHE
1	A	1386	ILE
1	A	1471	ASP
1	A	1528	VAL
1	A	1583	ASP
1	A	1590	ALA
2	B	36	ASP
2	B	48	ASP
2	B	220	VAL
2	B	451	SER
2	B	583	ALA
2	B	604	LYS
2	B	641	ALA
2	B	821	PRO
2	B	842	GLU
2	B	1283	ASP
2	B	1449	GLY
2	B	1493	ALA
2	B	1603	LYS
2	B	1641	PRO
1	C	21	GLN
1	C	133	PRO
1	C	154	PRO
1	C	156	LYS
1	C	166	PRO
1	C	181	GLY
1	C	187	ASP
1	C	255	PHE
1	C	312	TYR
1	C	318	LEU

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Mol	Chain	Res	Type
1	C	474	LYS
1	C	520	ASP
1	C	596	MET
1	C	614	ARG
1	C	623	VAL
1	C	639	GLY
1	C	656	ASN
1	C	671	GLU
1	C	672	ILE
1	C	690	TYR
1	C	793	SER
1	C	806	ASN
1	C	820	PHE
1	C	850	THR
1	C	870	SER
1	C	917	TRP
1	C	946	PRO
1	C	1004	PRO
1	C	1134	PRO
1	C	1333	PHE
1	C	1382	ASP
1	C	1386	ILE
1	C	1573	VAL
1	C	1583	ASP
2	D	36	ASP
2	D	220	VAL
2	D	451	SER
2	D	582	LYS
2	D	583	ALA
2	D	604	LYS
2	D	641	ALA
2	D	821	PRO
2	D	842	GLU
2	D	1283	ASP
2	D	1449	GLY
2	D	1493	ALA
2	D	1603	LYS
3	Y	82	HIS
1	A	171	VAL
1	A	255	PHE
1	A	287	MET
1	A	642	ASN

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Mol	Chain	Res	Type
1	A	671	GLU
1	A	681	LYS
1	A	699	CYS
1	A	791	PRO
1	A	793	SER
1	A	917	TRP
1	A	931	PRO
1	A	1001	THR
1	A	1023	HIS
1	A	1073	SER
1	A	1122	SER
1	A	1220	GLY
1	A	1235	LYS
1	A	1241	ASN
1	A	1382	ASP
1	A	1589	GLU
2	B	51	PRO
2	B	470	ALA
2	B	582	LYS
2	B	871	PRO
2	B	1379	MET
2	B	1492	CYS
2	B	1558	ALA
1	C	171	VAL
1	C	287	MET
1	C	289	ASN
1	C	441	ASP
1	C	489	LYS
1	C	519	SER
1	C	551	THR
1	C	552	ALA
1	C	565	GLU
1	C	642	ASN
1	C	659	ALA
1	C	681	LYS
1	C	791	PRO
1	C	931	PRO
1	C	997	ILE
1	C	1001	THR
1	C	1014	SER
1	C	1073	SER
1	C	1122	SER

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Mol	Chain	Res	Type
1	C	1133	LEU
1	C	1200	LYS
1	C	1241	ASN
1	C	1471	ASP
1	C	1589	GLU
2	D	48	ASP
2	D	871	PRO
2	D	1379	MET
2	D	1492	CYS
2	D	1558	ALA
2	D	1631	PHE
3	X	82	HIS
3	X	87	LEU
3	X	125	LYS
3	X	185	LYS
3	Y	125	LYS
3	Y	185	LYS
1	A	256	TYR
1	A	441	ASP
1	A	641	ASN
1	A	663	GLN
1	A	822	ASP
1	A	863	GLU
1	A	960	PRO
1	A	997	ILE
1	A	1014	SER
1	A	1160	PRO
1	A	1181	PRO
1	A	1184	SER
1	A	1237	SER
1	A	1284	PHE
1	A	1297	LEU
1	A	1324	HIS
1	A	1488	LEU
1	A	1512	SER
1	A	1653	THR
1	A	1666	GLU
2	B	142	PRO
2	B	310	VAL
2	B	764	GLU
2	B	862	LYS
1	C	137	PRO

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Mol	Chain	Res	Type
1	C	170	GLU
1	C	256	TYR
1	C	641	ASN
1	C	663	GLN
1	C	699	CYS
1	C	752	LEU
1	C	822	ASP
1	C	960	PRO
1	C	1160	PRO
1	C	1181	PRO
1	C	1184	SER
1	C	1220	GLY
1	C	1235	LYS
1	C	1237	SER
1	C	1284	PHE
1	C	1324	HIS
1	C	1352	PHE
1	C	1488	LEU
1	C	1512	SER
1	C	1666	GLU
2	D	142	PRO
2	D	310	VAL
2	D	470	ALA
2	D	764	GLU
2	D	862	LYS
3	Y	68	ASN
3	Y	87	LEU
3	Y	124	LYS
1	A	61	ASP
1	A	475	ALA
1	A	488	PRO
1	A	506	LYS
1	A	694	VAL
1	A	720	LEU
1	A	752	LEU
1	A	994	GLN
1	A	1200	LYS
1	A	1239	VAL
1	A	1352	PHE
1	A	1398	ASP
2	B	193	SER
2	B	1286	VAL

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Mol	Chain	Res	Type
2	B	1592	PRO
2	B	1628	PHE
1	C	61	ASP
1	C	337	SER
1	C	488	PRO
1	C	685	GLU
1	C	694	VAL
1	C	1239	VAL
1	C	1398	ASP
1	C	1653	THR
1	C	1654	CYS
2	D	1435	ASP
2	D	1592	PRO
3	X	68	ASN
3	X	124	LYS
1	A	43	VAL
1	A	137	PRO
1	A	1321	GLY
1	A	1654	CYS
2	B	512	PRO
1	C	41	ILE
1	C	291	MET
1	C	1018	VAL
2	D	418	GLY
2	D	937	VAL
2	D	1286	VAL
1	A	190	ILE
1	A	440	PRO
1	A	645	VAL
1	A	760	VAL
1	A	1296	GLY
2	B	80	GLY
2	B	221	LEU
2	B	339	VAL
2	B	937	VAL
1	C	577	PRO
1	C	760	VAL
1	C	1006	GLY
1	C	1135	VAL
2	D	512	PRO
3	X	76	ASN
3	Y	76	ASN

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Mol	Chain	Res	Type
1	A	406	PRO
1	A	577	PRO
2	B	237	ILE
1	C	43	VAL
1	C	406	PRO
1	C	440	PRO
1	C	872	VAL
2	D	173	VAL
2	D	221	LEU
3	Y	143	GLY
1	A	41	ILE
1	A	231	ILE
1	A	585	GLY
1	A	1018	VAL
1	A	1135	VAL
1	A	1570	VAL
2	B	173	VAL
1	C	231	ILE
1	C	1570	VAL
2	D	47	GLY
2	D	80	GLY
2	D	237	ILE
2	D	339	VAL
1	A	618	LYS
2	B	418	GLY
1	C	618	LYS
1	C	645	VAL
1	C	1296	GLY
2	B	598	ILE
1	C	1321	GLY

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1445/1484 (97%)	1090 (75%)	355 (25%)	0 4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	1445/1484 (97%)	1098 (76%)	347 (24%)	0	5
2	B	1084/1435 (76%)	849 (78%)	235 (22%)	1	6
2	D	1084/1435 (76%)	855 (79%)	229 (21%)	1	7
3	X	175/205 (85%)	143 (82%)	32 (18%)	1	11
3	Y	175/205 (85%)	142 (81%)	33 (19%)	1	10
All	All	5408/6248 (87%)	4177 (77%)	1231 (23%)	1	6

All (1231) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	20	GLU
1	A	21	GLN
1	A	22	THR
1	A	23	TYR
1	A	24	VAL
1	A	40	VAL
1	A	42	GLN
1	A	43	VAL
1	A	46	TYR
1	A	55	SER
1	A	58	SER
1	A	63	LYS
1	A	64	PHE
1	A	73	LEU
1	A	84	ILE
1	A	85	LEU
1	A	87	ILE
1	A	89	PRO
1	A	90	LYS
1	A	91	GLN
1	A	102	VAL
1	A	106	VAL
1	A	114	SER
1	A	125	PHE
1	A	126	LEU
1	A	128	ILE
1	A	131	ASP
1	A	136	THR
1	A	144	ARG
1	A	147	SER

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Mol	Chain	Res	Type
1	A	149	ASN
1	A	152	LEU
1	A	157	ARG
1	A	161	LEU
1	A	162	THR
1	A	169	SER
1	A	170	GLU
1	A	176	GLU
1	A	182	ILE
1	A	183	ILE
1	A	184	SER
1	A	195	ARG
1	A	200	THR
1	A	209	PHE
1	A	211	THR
1	A	212	THR
1	A	214	THR
1	A	216	TYR
1	A	219	VAL
1	A	222	TYR
1	A	223	VAL
1	A	224	LEU
1	A	228	SER
1	A	230	SER
1	A	240	TYR
1	A	242	ASN
1	A	249	THR
1	A	251	LYS
1	A	255	PHE
1	A	261	THR
1	A	264	ASP
1	A	268	THR
1	A	276	LYS
1	A	279	GLN
1	A	287	MET
1	A	289	ASN
1	A	291	MET
1	A	292	LEU
1	A	294	ASN
1	A	296	ILE
1	A	315	LEU
1	A	321	LYS

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Mol	Chain	Res	Type
1	A	322	TYR
1	A	323	LEU
1	A	328	THR
1	A	333	THR
1	A	342	ILE
1	A	353	LYS
1	A	354	LEU
1	A	355	ASN
1	A	363	LEU
1	A	371	ILE
1	A	373	VAL
1	A	375	VAL
1	A	380	ASP
1	A	383	VAL
1	A	388	VAL
1	A	389	THR
1	A	394	THR
1	A	404	LEU
1	A	414	ASP
1	A	415	ASP
1	A	422	LEU
1	A	426	SER
1	A	431	LEU
1	A	433	PHE
1	A	435	VAL
1	A	436	LYS
1	A	442	LEU
1	A	455	ILE
1	A	457	TYR
1	A	458	SER
1	A	467	ILE
1	A	469	TRP
1	A	471	ASP
1	A	474	LYS
1	A	483	ASN
1	A	487	THR
1	A	492	TYR
1	A	493	ILE
1	A	494	ASP
1	A	495	LYS
1	A	497	THR
1	A	504	LEU

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Mol	Chain	Res	Type
1	A	506	LYS
1	A	509	ILE
1	A	510	ILE
1	A	512	PHE
1	A	522	SER
1	A	526	ILE
1	A	532	GLN
1	A	534	MET
1	A	535	VAL
1	A	541	LEU
1	A	543	TYR
1	A	544	TYR
1	A	545	ILE
1	A	547	THR
1	A	549	GLU
1	A	550	GLN
1	A	559	VAL
1	A	561	LEU
1	A	563	ILE
1	A	565	GLU
1	A	569	ASN
1	A	570	GLN
1	A	583	SER
1	A	599	TRP
1	A	605	VAL
1	A	613	GLN
1	A	614	ARG
1	A	620	LEU
1	A	621	GLU
1	A	627	LEU
1	A	628	GLU
1	A	630	SER
1	A	632	LEU
1	A	640	LEU
1	A	644	ASN
1	A	648	LEU
1	A	652	THR
1	A	654	LEU
1	A	658	ASN
1	A	669	CYS
1	A	679	LEU
1	A	684	GLU

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Mol	Chain	Res	Type
1	A	700	TYR
1	A	701	ASP
1	A	710	THR
1	A	711	CYS
1	A	713	GLN
1	A	720	LEU
1	A	732	CYS
1	A	754	MET
1	A	756	THR
1	A	766	ARG
1	A	774	LEU
1	A	777	VAL
1	A	779	LEU
1	A	782	ARG
1	A	786	LEU
1	A	787	GLN
1	A	788	PHE
1	A	793	SER
1	A	795	THR
1	A	800	GLN
1	A	805	SER
1	A	813	ASP
1	A	824	PHE
1	A	825	LEU
1	A	833	VAL
1	A	838	GLN
1	A	844	THR
1	A	845	VAL
1	A	848	TYR
1	A	849	ARG
1	A	850	THR
1	A	854	GLN
1	A	856	CYS
1	A	857	VAL
1	A	859	MET
1	A	865	ILE
1	A	871	PRO
1	A	876	GLN
1	A	887	LYS
1	A	895	LEU
1	A	899	THR
1	A	901	LEU

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Mol	Chain	Res	Type
1	A	905	ILE
1	A	916	THR
1	A	917	TRP
1	A	928	ARG
1	A	935	LYS
1	A	936	ARG
1	A	942	VAL
1	A	944	LEU
1	A	945	ASP
1	A	952	THR
1	A	955	ARG
1	A	965	LEU
1	A	972	GLU
1	A	975	ARG
1	A	979	VAL
1	A	980	LYS
1	A	983	LEU
1	A	984	VAL
1	A	988	LEU
1	A	999	ILE
1	A	1001	THR
1	A	1002	HIS
1	A	1003	LEU
1	A	1007	SER
1	A	1011	GLU
1	A	1012	LEU
1	A	1013	MET
1	A	1015	VAL
1	A	1018	VAL
1	A	1021	VAL
1	A	1029	ASN
1	A	1033	ILE
1	A	1049	LEU
1	A	1054	LEU
1	A	1055	SER
1	A	1056	ILE
1	A	1061	ASN
1	A	1067	SER
1	A	1070	LYS
1	A	1079	THR
1	A	1098	ASN
1	A	1105	LEU

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Mol	Chain	Res	Type
1	A	1110	ASN
1	A	1113	LEU
1	A	1123	GLN
1	A	1125	GLN
1	A	1127	ILE
1	A	1128	LYS
1	A	1132	THR
1	A	1133	LEU
1	A	1140	ASN
1	A	1142	LEU
1	A	1144	LEU
1	A	1147	PHE
1	A	1150	ILE
1	A	1166	THR
1	A	1179	THR
1	A	1180	LEU
1	A	1184	SER
1	A	1190	ILE
1	A	1196	SER
1	A	1200	LYS
1	A	1201	THR
1	A	1202	HIS
1	A	1207	SER
1	A	1230	ASP
1	A	1232	LEU
1	A	1246	ARG
1	A	1264	ILE
1	A	1268	ASN
1	A	1275	SER
1	A	1280	TYR
1	A	1284	PHE
1	A	1286	SER
1	A	1301	SER
1	A	1302	LEU
1	A	1303	LEU
1	A	1307	LEU
1	A	1309	LEU
1	A	1313	ILE
1	A	1315	VAL
1	A	1323	LEU
1	A	1326	TYR
1	A	1329	THR

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Mol	Chain	Res	Type
1	A	1331	LYS
1	A	1334	LEU
1	A	1336	ARG
1	A	1341	LEU
1	A	1342	LEU
1	A	1346	LEU
1	A	1347	ILE
1	A	1348	VAL
1	A	1350	THR
1	A	1352	PHE
1	A	1356	LEU
1	A	1358	THR
1	A	1360	HIS
1	A	1363	THR
1	A	1366	HIS
1	A	1372	GLU
1	A	1376	SER
1	A	1401	ARG
1	A	1416	SER
1	A	1423	VAL
1	A	1430	THR
1	A	1446	VAL
1	A	1455	ILE
1	A	1459	HIS
1	A	1464	LEU
1	A	1470	SER
1	A	1475	VAL
1	A	1476	ARG
1	A	1479	ILE
1	A	1480	PHE
1	A	1483	PHE
1	A	1487	PHE
1	A	1492	THR
1	A	1493	PHE
1	A	1494	THR
1	A	1496	TYR
1	A	1500	ARG
1	A	1502	ASP
1	A	1503	LYS
1	A	1507	MET
1	A	1525	CYS
1	A	1532	CYS

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Mol	Chain	Res	Type
1	A	1535	MET
1	A	1539	LEU
1	A	1542	THR
1	A	1548	ARG
1	A	1549	LYS
1	A	1556	GLU
1	A	1557	ILE
1	A	1559	TYR
1	A	1566	THR
1	A	1569	THR
1	A	1573	VAL
1	A	1580	THR
1	A	1581	LEU
1	A	1583	ASP
1	A	1585	TYR
1	A	1589	GLU
1	A	1602	LYS
1	A	1604	VAL
1	A	1606	CYS
1	A	1618	LEU
1	A	1620	MET
1	A	1626	GLN
1	A	1629	TYR
1	A	1631	PHE
1	A	1632	SER
1	A	1634	ARG
1	A	1636	ILE
1	A	1637	TYR
1	A	1639	LEU
1	A	1654	CYS
1	A	1664	LEU
2	B	43	VAL
2	B	54	LEU
2	B	56	ILE
2	B	58	VAL
2	B	68	LEU
2	B	69	PHE
2	B	71	THR
2	B	74	ASP
2	B	82	LEU
2	B	86	THR
2	B	87	ILE

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Mol	Chain	Res	Type
2	B	105	VAL
2	B	114	ARG
2	B	119	VAL
2	B	120	LEU
2	B	121	LEU
2	B	124	GLN
2	B	146	ARG
2	B	147	VAL
2	B	161	VAL
2	B	167	THR
2	B	177	SER
2	B	178	VAL
2	B	179	ASP
2	B	183	PHE
2	B	191	LEU
2	B	196	THR
2	B	198	ARG
2	B	199	ILE
2	B	206	SER
2	B	211	THR
2	B	214	PHE
2	B	219	TYR
2	B	220	VAL
2	B	221	LEU
2	B	226	VAL
2	B	243	PHE
2	B	264	LEU
2	B	274	LYS
2	B	278	ASP
2	B	280	LEU
2	B	291	LYS
2	B	296	ARG
2	B	297	ASP
2	B	299	PHE
2	B	306	LEU
2	B	317	SER
2	B	320	VAL
2	B	328	MET
2	B	338	ILE
2	B	341	SER
2	B	344	GLN
2	B	345	ILE

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Mol	Chain	Res	Type
2	B	349	LYS
2	B	390	THR
2	B	398	LEU
2	B	400	LEU
2	B	404	LEU
2	B	411	ILE
2	B	422	ARG
2	B	435	TYR
2	B	437	THR
2	B	450	THR
2	B	458	ASP
2	B	460	LEU
2	B	469	ASN
2	B	472	SER
2	B	477	LYS
2	B	478	TYR
2	B	481	TYR
2	B	482	LEU
2	B	488	LYS
2	B	492	VAL
2	B	497	ARG
2	B	498	ARG
2	B	504	VAL
2	B	505	THR
2	B	506	MET
2	B	507	ASN
2	B	511	THR
2	B	513	ASP
2	B	518	PHE
2	B	519	ARG
2	B	520	PHE
2	B	521	VAL
2	B	523	TYR
2	B	524	TYR
2	B	525	GLN
2	B	526	VAL
2	B	528	ASN
2	B	531	ILE
2	B	543	THR
2	B	544	CYS
2	B	555	LEU
2	B	556	ILE

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Mol	Chain	Res	Type
2	B	563	MET
2	B	567	LEU
2	B	574	ARG
2	B	582	LYS
2	B	584	VAL
2	B	588	ASN
2	B	593	ILE
2	B	594	SER
2	B	599	TRP
2	B	606	ASP
2	B	620	VAL
2	B	629	THR
2	B	634	LEU
2	B	638	GLN
2	B	643	LYS
2	B	740	ILE
2	B	742	ASP
2	B	743	SER
2	B	745	ILE
2	B	746	ILE
2	B	747	SER
2	B	769	GLN
2	B	778	PHE
2	B	780	LEU
2	B	783	SER
2	B	784	ILE
2	B	789	VAL
2	B	793	SER
2	B	800	ILE
2	B	802	VAL
2	B	804	GLU
2	B	808	ILE
2	B	812	LYS
2	B	813	VAL
2	B	816	ILE
2	B	817	ASP
2	B	819	GLN
2	B	829	GLN
2	B	830	VAL
2	B	836	LEU
2	B	851	LEU
2	B	857	CYS

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Mol	Chain	Res	Type
2	B	867	ARG
2	B	870	PHE
2	B	872	ILE
2	B	873	LYS
2	B	875	LEU
2	B	880	VAL
2	B	884	ILE
2	B	889	GLN
2	B	891	LEU
2	B	893	ASP
2	B	913	LEU
2	B	914	LYS
2	B	916	VAL
2	B	918	GLU
2	B	920	VAL
2	B	926	THR
2	B	946	LYS
2	B	948	ARG
2	B	952	ASP
2	B	960	GLU
2	B	963	ILE
2	B	964	ILE
2	B	1278	THR
2	B	1279	ILE
2	B	1281	LEU
2	B	1283	ASP
2	B	1291	ARG
2	B	1292	ILE
2	B	1293	ASN
2	B	1298	LEU
2	B	1303	VAL
2	B	1305	THR
2	B	1308	ASN
2	B	1313	VAL
2	B	1324	THR
2	B	1326	LEU
2	B	1329	TYR
2	B	1330	ASN
2	B	1332	GLN
2	B	1344	HIS
2	B	1350	GLU
2	B	1351	ASN

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Mol	Chain	Res	Type
2	B	1365	LEU
2	B	1372	LEU
2	B	1378	THR
2	B	1380	THR
2	B	1401	SER
2	B	1404	VAL
2	B	1406	ARG
2	B	1423	VAL
2	B	1424	ILE
2	B	1425	ILE
2	B	1427	LEU
2	B	1429	LYS
2	B	1433	SER
2	B	1437	CYS
2	B	1438	LEU
2	B	1442	ILE
2	B	1443	LEU
2	B	1445	HIS
2	B	1448	VAL
2	B	1459	TYR
2	B	1465	ASP
2	B	1475	ASP
2	B	1480	LEU
2	B	1481	LEU
2	B	1490	CYS
2	B	1491	ARG
2	B	1492	CYS
2	B	1495	GLU
2	B	1496	THR
2	B	1497	CYS
2	B	1500	LEU
2	B	1503	GLN
2	B	1504	GLU
2	B	1505	ARG
2	B	1516	CYS
2	B	1522	TYR
2	B	1526	THR
2	B	1529	LEU
2	B	1535	ASP
2	B	1539	ILE
2	B	1561	HIS
2	B	1566	GLN

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Mol	Chain	Res	Type
2	B	1584	TRP
2	B	1591	LEU
2	B	1594	LYS
2	B	1597	ILE
2	B	1598	SER
2	B	1604	ASN
2	B	1605	THR
2	B	1606	TRP
2	B	1607	ILE
2	B	1612	HIS
2	B	1616	CYS
2	B	1617	GLN
2	B	1623	LYS
2	B	1631	PHE
1	C	20	GLU
1	C	21	GLN
1	C	22	THR
1	C	23	TYR
1	C	24	VAL
1	C	40	VAL
1	C	42	GLN
1	C	43	VAL
1	C	46	TYR
1	C	55	SER
1	C	58	SER
1	C	63	LYS
1	C	64	PHE
1	C	73	LEU
1	C	84	ILE
1	C	85	LEU
1	C	87	ILE
1	C	89	PRO
1	C	90	LYS
1	C	91	GLN
1	C	102	VAL
1	C	106	VAL
1	C	114	SER
1	C	125	PHE
1	C	126	LEU
1	C	128	ILE
1	C	131	ASP
1	C	134	VAL

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Mol	Chain	Res	Type
1	C	136	THR
1	C	143	VAL
1	C	144	ARG
1	C	147	SER
1	C	149	ASN
1	C	152	LEU
1	C	157	ARG
1	C	161	LEU
1	C	162	THR
1	C	165	ASP
1	C	169	SER
1	C	170	GLU
1	C	176	GLU
1	C	182	ILE
1	C	183	ILE
1	C	184	SER
1	C	195	ARG
1	C	200	THR
1	C	209	PHE
1	C	211	THR
1	C	212	THR
1	C	214	THR
1	C	216	TYR
1	C	219	VAL
1	C	222	TYR
1	C	223	VAL
1	C	224	LEU
1	C	228	SER
1	C	230	SER
1	C	240	TYR
1	C	242	ASN
1	C	246	PHE
1	C	249	THR
1	C	251	LYS
1	C	255	PHE
1	C	261	THR
1	C	264	ASP
1	C	268	THR
1	C	276	LYS
1	C	279	GLN
1	C	287	MET
1	C	289	ASN

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Mol	Chain	Res	Type
1	C	291	MET
1	C	292	LEU
1	C	294	ASN
1	C	296	ILE
1	C	315	LEU
1	C	321	LYS
1	C	322	TYR
1	C	323	LEU
1	C	328	THR
1	C	333	THR
1	C	342	ILE
1	C	353	LYS
1	C	354	LEU
1	C	355	ASN
1	C	363	LEU
1	C	371	ILE
1	C	373	VAL
1	C	375	VAL
1	C	383	VAL
1	C	388	VAL
1	C	389	THR
1	C	394	THR
1	C	404	LEU
1	C	414	ASP
1	C	415	ASP
1	C	422	LEU
1	C	426	SER
1	C	431	LEU
1	C	433	PHE
1	C	435	VAL
1	C	436	LYS
1	C	442	LEU
1	C	455	ILE
1	C	457	TYR
1	C	458	SER
1	C	459	SER
1	C	467	ILE
1	C	469	TRP
1	C	471	ASP
1	C	474	LYS
1	C	483	ASN
1	C	487	THR

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Mol	Chain	Res	Type
1	C	492	TYR
1	C	493	ILE
1	C	494	ASP
1	C	495	LYS
1	C	497	THR
1	C	504	LEU
1	C	506	LYS
1	C	509	ILE
1	C	510	ILE
1	C	512	PHE
1	C	522	SER
1	C	526	ILE
1	C	532	GLN
1	C	534	MET
1	C	535	VAL
1	C	541	LEU
1	C	543	TYR
1	C	544	TYR
1	C	545	ILE
1	C	547	THR
1	C	553	GLU
1	C	559	VAL
1	C	561	LEU
1	C	563	ILE
1	C	565	GLU
1	C	569	ASN
1	C	570	GLN
1	C	573	VAL
1	C	583	SER
1	C	599	TRP
1	C	605	VAL
1	C	613	GLN
1	C	614	ARG
1	C	620	LEU
1	C	621	GLU
1	C	627	LEU
1	C	628	GLU
1	C	632	LEU
1	C	640	LEU
1	C	644	ASN
1	C	648	LEU
1	C	652	THR

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Mol	Chain	Res	Type
1	C	654	LEU
1	C	658	ASN
1	C	669	CYS
1	C	679	LEU
1	C	684	GLU
1	C	700	TYR
1	C	701	ASP
1	C	710	THR
1	C	713	GLN
1	C	720	LEU
1	C	754	MET
1	C	756	THR
1	C	766	ARG
1	C	774	LEU
1	C	777	VAL
1	C	779	LEU
1	C	782	ARG
1	C	786	LEU
1	C	787	GLN
1	C	788	PHE
1	C	795	THR
1	C	800	GLN
1	C	805	SER
1	C	813	ASP
1	C	824	PHE
1	C	825	LEU
1	C	833	VAL
1	C	838	GLN
1	C	845	VAL
1	C	849	ARG
1	C	850	THR
1	C	854	GLN
1	C	856	CYS
1	C	857	VAL
1	C	859	MET
1	C	865	ILE
1	C	876	GLN
1	C	887	LYS
1	C	895	LEU
1	C	899	THR
1	C	901	LEU
1	C	905	ILE

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Mol	Chain	Res	Type
1	C	916	THR
1	C	917	TRP
1	C	928	ARG
1	C	935	LYS
1	C	936	ARG
1	C	942	VAL
1	C	944	LEU
1	C	945	ASP
1	C	952	THR
1	C	955	ARG
1	C	965	LEU
1	C	972	GLU
1	C	975	ARG
1	C	977	LEU
1	C	979	VAL
1	C	980	LYS
1	C	983	LEU
1	C	984	VAL
1	C	988	LEU
1	C	1001	THR
1	C	1002	HIS
1	C	1007	SER
1	C	1011	GLU
1	C	1012	LEU
1	C	1013	MET
1	C	1015	VAL
1	C	1018	VAL
1	C	1021	VAL
1	C	1029	ASN
1	C	1033	ILE
1	C	1049	LEU
1	C	1054	LEU
1	C	1055	SER
1	C	1056	ILE
1	C	1061	ASN
1	C	1067	SER
1	C	1070	LYS
1	C	1079	THR
1	C	1098	ASN
1	C	1105	LEU
1	C	1113	LEU
1	C	1125	GLN

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Mol	Chain	Res	Type
1	C	1127	ILE
1	C	1128	LYS
1	C	1132	THR
1	C	1133	LEU
1	C	1140	ASN
1	C	1142	LEU
1	C	1144	LEU
1	C	1150	ILE
1	C	1159	CYS
1	C	1166	THR
1	C	1179	THR
1	C	1180	LEU
1	C	1184	SER
1	C	1190	ILE
1	C	1196	SER
1	C	1200	LYS
1	C	1201	THR
1	C	1202	HIS
1	C	1207	SER
1	C	1230	ASP
1	C	1232	LEU
1	C	1246	ARG
1	C	1264	ILE
1	C	1275	SER
1	C	1280	TYR
1	C	1284	PHE
1	C	1286	SER
1	C	1301	SER
1	C	1302	LEU
1	C	1307	LEU
1	C	1309	LEU
1	C	1313	ILE
1	C	1315	VAL
1	C	1323	LEU
1	C	1326	TYR
1	C	1329	THR
1	C	1331	LYS
1	C	1334	LEU
1	C	1336	ARG
1	C	1338	VAL
1	C	1341	LEU
1	C	1342	LEU

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Mol	Chain	Res	Type
1	C	1346	LEU
1	C	1347	ILE
1	C	1348	VAL
1	C	1350	THR
1	C	1352	PHE
1	C	1356	LEU
1	C	1358	THR
1	C	1360	HIS
1	C	1363	THR
1	C	1366	HIS
1	C	1372	GLU
1	C	1376	SER
1	C	1401	ARG
1	C	1416	SER
1	C	1423	VAL
1	C	1430	THR
1	C	1446	VAL
1	C	1455	ILE
1	C	1459	HIS
1	C	1464	LEU
1	C	1470	SER
1	C	1475	VAL
1	C	1476	ARG
1	C	1479	ILE
1	C	1480	PHE
1	C	1483	PHE
1	C	1487	PHE
1	C	1492	THR
1	C	1493	PHE
1	C	1494	THR
1	C	1496	TYR
1	C	1500	ARG
1	C	1502	ASP
1	C	1503	LYS
1	C	1507	MET
1	C	1525	CYS
1	C	1531	ASP
1	C	1532	CYS
1	C	1535	MET
1	C	1539	LEU
1	C	1548	ARG
1	C	1549	LYS

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Mol	Chain	Res	Type
1	C	1556	GLU
1	C	1557	ILE
1	C	1559	TYR
1	C	1566	THR
1	C	1569	THR
1	C	1573	VAL
1	C	1580	THR
1	C	1581	LEU
1	C	1583	ASP
1	C	1585	TYR
1	C	1589	GLU
1	C	1602	LYS
1	C	1604	VAL
1	C	1606	CYS
1	C	1618	LEU
1	C	1620	MET
1	C	1626	GLN
1	C	1627	ILE
1	C	1631	PHE
1	C	1635	TYR
1	C	1636	ILE
1	C	1637	TYR
1	C	1639	LEU
1	C	1654	CYS
1	C	1664	LEU
2	D	40	GLN
2	D	43	VAL
2	D	54	LEU
2	D	56	ILE
2	D	58	VAL
2	D	68	LEU
2	D	69	PHE
2	D	71	THR
2	D	74	ASP
2	D	82	LEU
2	D	86	THR
2	D	87	ILE
2	D	105	VAL
2	D	114	ARG
2	D	119	VAL
2	D	120	LEU
2	D	121	LEU

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Mol	Chain	Res	Type
2	D	124	GLN
2	D	146	ARG
2	D	147	VAL
2	D	150	MET
2	D	161	VAL
2	D	167	THR
2	D	177	SER
2	D	178	VAL
2	D	179	ASP
2	D	183	PHE
2	D	191	LEU
2	D	196	THR
2	D	198	ARG
2	D	199	ILE
2	D	206	SER
2	D	209	ASN
2	D	211	THR
2	D	219	TYR
2	D	220	VAL
2	D	221	LEU
2	D	226	VAL
2	D	243	PHE
2	D	264	LEU
2	D	274	LYS
2	D	278	ASP
2	D	280	LEU
2	D	291	LYS
2	D	297	ASP
2	D	299	PHE
2	D	306	LEU
2	D	317	SER
2	D	320	VAL
2	D	328	MET
2	D	338	ILE
2	D	341	SER
2	D	344	GLN
2	D	345	ILE
2	D	349	LYS
2	D	390	THR
2	D	398	LEU
2	D	400	LEU
2	D	404	LEU

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Mol	Chain	Res	Type
2	D	411	ILE
2	D	422	ARG
2	D	435	TYR
2	D	437	THR
2	D	450	THR
2	D	458	ASP
2	D	460	LEU
2	D	469	ASN
2	D	472	SER
2	D	477	LYS
2	D	478	TYR
2	D	481	TYR
2	D	482	LEU
2	D	488	LYS
2	D	492	VAL
2	D	497	ARG
2	D	498	ARG
2	D	504	VAL
2	D	505	THR
2	D	506	MET
2	D	507	ASN
2	D	511	THR
2	D	513	ASP
2	D	518	PHE
2	D	519	ARG
2	D	520	PHE
2	D	521	VAL
2	D	523	TYR
2	D	524	TYR
2	D	525	GLN
2	D	526	VAL
2	D	528	ASN
2	D	531	ILE
2	D	543	THR
2	D	544	CYS
2	D	555	LEU
2	D	556	ILE
2	D	563	MET
2	D	567	LEU
2	D	574	ARG
2	D	582	LYS
2	D	584	VAL

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Mol	Chain	Res	Type
2	D	588	ASN
2	D	593	ILE
2	D	594	SER
2	D	606	ASP
2	D	620	VAL
2	D	629	THR
2	D	634	LEU
2	D	638	GLN
2	D	643	LYS
2	D	740	ILE
2	D	742	ASP
2	D	743	SER
2	D	745	ILE
2	D	746	ILE
2	D	747	SER
2	D	769	GLN
2	D	778	PHE
2	D	780	LEU
2	D	783	SER
2	D	784	ILE
2	D	789	VAL
2	D	793	SER
2	D	800	ILE
2	D	802	VAL
2	D	804	GLU
2	D	808	ILE
2	D	812	LYS
2	D	813	VAL
2	D	816	ILE
2	D	817	ASP
2	D	819	GLN
2	D	829	GLN
2	D	830	VAL
2	D	836	LEU
2	D	851	LEU
2	D	857	CYS
2	D	867	ARG
2	D	870	PHE
2	D	872	ILE
2	D	873	LYS
2	D	875	LEU
2	D	880	VAL

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Mol	Chain	Res	Type
2	D	884	ILE
2	D	889	GLN
2	D	891	LEU
2	D	913	LEU
2	D	914	LYS
2	D	916	VAL
2	D	918	GLU
2	D	920	VAL
2	D	926	THR
2	D	946	LYS
2	D	948	ARG
2	D	952	ASP
2	D	960	GLU
2	D	963	ILE
2	D	964	ILE
2	D	1278	THR
2	D	1279	ILE
2	D	1281	LEU
2	D	1283	ASP
2	D	1291	ARG
2	D	1292	ILE
2	D	1293	ASN
2	D	1298	LEU
2	D	1303	VAL
2	D	1305	THR
2	D	1308	ASN
2	D	1313	VAL
2	D	1324	THR
2	D	1326	LEU
2	D	1329	TYR
2	D	1330	ASN
2	D	1332	GLN
2	D	1344	HIS
2	D	1350	GLU
2	D	1351	ASN
2	D	1365	LEU
2	D	1367	ILE
2	D	1372	LEU
2	D	1378	THR
2	D	1401	SER
2	D	1404	VAL
2	D	1406	ARG

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Mol	Chain	Res	Type
2	D	1423	VAL
2	D	1424	ILE
2	D	1425	ILE
2	D	1427	LEU
2	D	1429	LYS
2	D	1433	SER
2	D	1437	CYS
2	D	1438	LEU
2	D	1442	ILE
2	D	1443	LEU
2	D	1445	HIS
2	D	1448	VAL
2	D	1459	TYR
2	D	1465	ASP
2	D	1475	ASP
2	D	1480	LEU
2	D	1481	LEU
2	D	1490	CYS
2	D	1491	ARG
2	D	1492	CYS
2	D	1495	GLU
2	D	1496	THR
2	D	1497	CYS
2	D	1504	GLU
2	D	1522	TYR
2	D	1526	THR
2	D	1529	LEU
2	D	1535	ASP
2	D	1539	ILE
2	D	1561	HIS
2	D	1566	GLN
2	D	1584	TRP
2	D	1591	LEU
2	D	1594	LYS
2	D	1597	ILE
2	D	1598	SER
2	D	1604	ASN
2	D	1605	THR
2	D	1607	ILE
2	D	1612	HIS
2	D	1616	CYS
2	D	1632	SER

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Mol	Chain	Res	Type
2	D	1634	THR
2	D	1638	PHE
3	X	41	HIS
3	X	43	ILE
3	X	46	LEU
3	X	50	TYR
3	X	51	SER
3	X	65	GLU
3	X	66	ASN
3	X	67	TYR
3	X	75	PHE
3	X	78	LYS
3	X	80	GLN
3	X	85	PHE
3	X	94	TYR
3	X	105	VAL
3	X	111	ASP
3	X	113	ASN
3	X	117	SER
3	X	119	VAL
3	X	123	THR
3	X	130	SER
3	X	132	THR
3	X	136	LEU
3	X	146	LEU
3	X	175	ASN
3	X	185	LYS
3	X	190	ILE
3	X	191	ILE
3	X	196	GLU
3	X	209	PHE
3	X	210	GLU
3	X	225	SER
3	X	229	ASN
3	Y	41	HIS
3	Y	43	ILE
3	Y	46	LEU
3	Y	50	TYR
3	Y	51	SER
3	Y	63	LYS
3	Y	65	GLU
3	Y	66	ASN

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Mol	Chain	Res	Type
3	Y	67	TYR
3	Y	75	PHE
3	Y	78	LYS
3	Y	80	GLN
3	Y	85	PHE
3	Y	94	TYR
3	Y	105	VAL
3	Y	111	ASP
3	Y	113	ASN
3	Y	115	ARG
3	Y	117	SER
3	Y	119	VAL
3	Y	123	THR
3	Y	132	THR
3	Y	136	LEU
3	Y	146	LEU
3	Y	175	ASN
3	Y	185	LYS
3	Y	190	ILE
3	Y	191	ILE
3	Y	196	GLU
3	Y	209	PHE
3	Y	210	GLU
3	Y	225	SER
3	Y	229	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (162) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	42	GLN
1	A	77	ASN
1	A	80	GLN
1	A	97	ASN
1	A	139	GLN
1	A	149	ASN
1	A	236	ASN
1	A	242	ASN
1	A	257	ASN
1	A	289	ASN
1	A	294	ASN
1	A	355	ASN

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Mol	Chain	Res	Type
1	A	391	ASN
1	A	473	HIS
1	A	481	HIS
1	A	569	ASN
1	A	706	ASN
1	A	785	GLN
1	A	787	GLN
1	A	800	GLN
1	A	838	GLN
1	A	854	GLN
1	A	875	HIS
1	A	876	GLN
1	A	909	ASN
1	A	1023	HIS
1	A	1029	ASN
1	A	1030	HIS
1	A	1095	GLN
1	A	1102	ASN
1	A	1112	GLN
1	A	1123	GLN
1	A	1202	HIS
1	A	1233	GLN
1	A	1241	ASN
1	A	1260	ASN
1	A	1268	ASN
1	A	1306	GLN
1	A	1360	HIS
1	A	1448	GLN
1	A	1550	GLN
1	A	1608	ASN
1	A	1658	GLN
1	A	1663	ASN
2	B	40	GLN
2	B	65	GLN
2	B	124	GLN
2	B	152	HIS
2	B	176	ASN
2	B	187	ASN
2	B	333	GLN
2	B	344	GLN
2	B	417	HIS
2	B	459	ASN

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Mol	Chain	Res	Type
2	B	469	ASN
2	B	507	ASN
2	B	525	GLN
2	B	615	GLN
2	B	819	GLN
2	B	829	GLN
2	B	869	GLN
2	B	889	GLN
2	B	901	GLN
2	B	921	GLN
2	B	1330	ASN
2	B	1341	ASN
2	B	1473	HIS
2	B	1501	ASN
2	B	1503	GLN
2	B	1562	GLN
1	C	38	ASN
1	C	42	GLN
1	C	77	ASN
1	C	80	GLN
1	C	97	ASN
1	C	110	HIS
1	C	149	ASN
1	C	236	ASN
1	C	242	ASN
1	C	257	ASN
1	C	289	ASN
1	C	294	ASN
1	C	355	ASN
1	C	391	ASN
1	C	473	HIS
1	C	481	HIS
1	C	511	HIS
1	C	550	GLN
1	C	569	ASN
1	C	658	ASN
1	C	706	ASN
1	C	785	GLN
1	C	787	GLN
1	C	800	GLN
1	C	838	GLN
1	C	854	GLN

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Mol	Chain	Res	Type
1	C	875	HIS
1	C	876	GLN
1	C	909	ASN
1	C	1023	HIS
1	C	1029	ASN
1	C	1030	HIS
1	C	1095	GLN
1	C	1102	ASN
1	C	1112	GLN
1	C	1123	GLN
1	C	1202	HIS
1	C	1233	GLN
1	C	1241	ASN
1	C	1260	ASN
1	C	1268	ASN
1	C	1306	GLN
1	C	1360	HIS
1	C	1448	GLN
1	C	1550	GLN
1	C	1608	ASN
1	C	1658	GLN
2	D	40	GLN
2	D	65	GLN
2	D	124	GLN
2	D	152	HIS
2	D	176	ASN
2	D	187	ASN
2	D	333	GLN
2	D	344	GLN
2	D	417	HIS
2	D	459	ASN
2	D	465	ASN
2	D	469	ASN
2	D	507	ASN
2	D	525	GLN
2	D	615	GLN
2	D	819	GLN
2	D	829	GLN
2	D	869	GLN
2	D	889	GLN
2	D	921	GLN
2	D	1308	ASN

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Mol	Chain	Res	Type
2	D	1330	ASN
2	D	1341	ASN
2	D	1473	HIS
2	D	1503	GLN
2	D	1511	GLN
2	D	1562	GLN
3	X	47	HIS
3	X	59	ASN
3	X	80	GLN
3	X	83	GLN
3	X	113	ASN
3	X	139	ASN
3	X	142	ASN
3	X	197	ASN
3	Y	47	HIS
3	Y	59	ASN
3	Y	71	ASN
3	Y	80	GLN
3	Y	83	GLN
3	Y	113	ASN
3	Y	139	ASN
3	Y	142	ASN
3	Y	197	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

8 monosaccharides are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the

expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
4	NAG	E	1	2,4	14,14,15	0.96	1 (7%)	17,19,21	2.06	6 (35%)
4	NAG	E	2	4	14,14,15	1.04	1 (7%)	17,19,21	2.50	6 (35%)
4	NAG	F	1	2,4	14,14,15	2.05	7 (50%)	17,19,21	3.28	8 (47%)
4	NAG	F	2	4	14,14,15	1.64	1 (7%)	17,19,21	2.34	6 (35%)
4	NAG	G	1	2,4	14,14,15	0.88	1 (7%)	17,19,21	1.97	6 (35%)
4	NAG	G	2	4	14,14,15	1.07	1 (7%)	17,19,21	1.74	4 (23%)
4	NAG	H	1	2,4	14,14,15	1.99	6 (42%)	17,19,21	3.46	9 (52%)
4	NAG	H	2	4	14,14,15	1.52	1 (7%)	17,19,21	2.32	6 (35%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	E	1	2,4	-	4/6/23/26	0/1/1/1
4	NAG	E	2	4	-	5/6/23/26	0/1/1/1
4	NAG	F	1	2,4	-	2/6/23/26	0/1/1/1
4	NAG	F	2	4	-	6/6/23/26	0/1/1/1
4	NAG	G	1	2,4	-	3/6/23/26	0/1/1/1
4	NAG	G	2	4	-	5/6/23/26	0/1/1/1
4	NAG	H	1	2,4	-	2/6/23/26	0/1/1/1
4	NAG	H	2	4	-	6/6/23/26	0/1/1/1

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	2	NAG	C1-C2	5.13	1.60	1.52
4	H	2	NAG	C1-C2	4.97	1.59	1.52
4	F	1	NAG	C1-C2	3.85	1.58	1.52
4	H	1	NAG	C1-C2	3.38	1.57	1.52
4	F	1	NAG	O5-C1	3.13	1.48	1.43
4	H	1	NAG	C4-C3	2.99	1.59	1.52
4	E	1	NAG	C1-C2	2.84	1.56	1.52
4	F	1	NAG	C4-C3	2.79	1.59	1.52
4	F	1	NAG	C4-C5	2.75	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	1	NAG	O5-C1	2.68	1.48	1.43
4	H	1	NAG	O4-C4	2.67	1.49	1.43
4	F	1	NAG	O4-C4	2.48	1.48	1.43
4	H	1	NAG	C4-C5	2.47	1.58	1.53
4	H	1	NAG	C3-C2	2.41	1.57	1.52
4	G	2	NAG	C1-C2	2.39	1.55	1.52
4	G	1	NAG	C1-C2	2.37	1.55	1.52
4	E	2	NAG	C3-C2	2.27	1.57	1.52
4	F	1	NAG	C2-N2	2.20	1.50	1.46
4	F	1	NAG	C3-C2	2.16	1.57	1.52

All (51) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	H	1	NAG	C1-O5-C5	10.09	125.86	112.19
4	F	1	NAG	C1-O5-C5	9.29	124.78	112.19
4	E	2	NAG	C4-C3-C2	6.58	120.66	111.02
4	H	2	NAG	C1-C2-N2	5.47	119.84	110.49
4	F	2	NAG	C1-C2-N2	5.45	119.79	110.49
4	H	1	NAG	C2-N2-C7	5.39	130.58	122.90
4	F	1	NAG	C2-N2-C7	5.39	130.58	122.90
4	H	1	NAG	C4-C3-C2	5.29	118.77	111.02
4	F	2	NAG	O5-C5-C6	4.99	115.03	107.20
4	F	1	NAG	C4-C3-C2	4.16	117.11	111.02
4	E	2	NAG	C1-O5-C5	4.14	117.81	112.19
4	H	2	NAG	O5-C5-C6	4.03	113.53	107.20
4	E	1	NAG	O5-C1-C2	3.99	117.58	111.29
4	G	2	NAG	C4-C3-C2	3.93	116.77	111.02
4	H	2	NAG	C2-N2-C7	3.86	128.40	122.90
4	E	1	NAG	C1-O5-C5	3.67	117.16	112.19
4	G	1	NAG	C1-O5-C5	3.59	117.06	112.19
4	G	1	NAG	O5-C1-C2	3.50	116.81	111.29
4	E	1	NAG	C1-C2-N2	3.26	116.05	110.49
4	E	2	NAG	O5-C5-C6	3.25	112.30	107.20
4	G	2	NAG	C2-N2-C7	3.25	127.52	122.90
4	G	1	NAG	C1-C2-N2	3.22	115.99	110.49
4	H	1	NAG	O4-C4-C3	3.20	117.75	110.35
4	F	1	NAG	O5-C5-C4	3.12	118.42	110.83
4	H	1	NAG	O5-C5-C4	3.09	118.34	110.83
4	F	1	NAG	O5-C1-C2	3.03	116.07	111.29
4	F	1	NAG	O7-C7-N2	2.95	127.38	121.95
4	F	2	NAG	C2-N2-C7	2.92	127.06	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	2	NAG	O3-C3-C2	2.89	115.45	109.47
4	E	2	NAG	C2-N2-C7	2.88	127.01	122.90
4	G	1	NAG	O3-C3-C2	-2.83	103.61	109.47
4	F	2	NAG	O5-C1-C2	-2.83	106.82	111.29
4	H	2	NAG	O5-C1-C2	-2.73	106.97	111.29
4	E	1	NAG	O5-C5-C6	2.63	111.33	107.20
4	H	2	NAG	O3-C3-C2	2.50	114.63	109.47
4	E	2	NAG	O4-C4-C3	2.49	116.10	110.35
4	G	2	NAG	C1-O5-C5	2.47	115.53	112.19
4	H	2	NAG	O7-C7-C8	-2.45	117.50	122.06
4	E	2	NAG	O5-C5-C4	-2.44	104.89	110.83
4	E	1	NAG	O3-C3-C4	2.41	115.92	110.35
4	H	1	NAG	O3-C3-C2	-2.38	104.54	109.47
4	F	1	NAG	O3-C3-C4	2.24	115.53	110.35
4	F	2	NAG	O7-C7-C8	-2.23	117.91	122.06
4	H	1	NAG	O5-C1-C2	2.18	114.73	111.29
4	G	1	NAG	C3-C4-C5	-2.16	106.39	110.24
4	E	1	NAG	O3-C3-C2	-2.13	105.05	109.47
4	G	2	NAG	O7-C7-N2	2.13	125.87	121.95
4	F	1	NAG	C8-C7-N2	-2.13	112.50	116.10
4	G	1	NAG	C4-C3-C2	-2.11	107.92	111.02
4	H	1	NAG	O3-C3-C4	2.03	115.04	110.35
4	H	1	NAG	O7-C7-N2	2.00	125.63	121.95

There are no chirality outliers.

All (33) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	E	1	NAG	C8-C7-N2-C2
4	E	1	NAG	O7-C7-N2-C2
4	E	2	NAG	C1-C2-N2-C7
4	E	2	NAG	O7-C7-N2-C2
4	F	2	NAG	C1-C2-N2-C7
4	F	2	NAG	C8-C7-N2-C2
4	F	2	NAG	O7-C7-N2-C2
4	G	1	NAG	C8-C7-N2-C2
4	G	1	NAG	O7-C7-N2-C2
4	G	2	NAG	C1-C2-N2-C7
4	H	2	NAG	C8-C7-N2-C2
4	H	2	NAG	O7-C7-N2-C2
4	E	2	NAG	C4-C5-C6-O6
4	G	2	NAG	C4-C5-C6-O6

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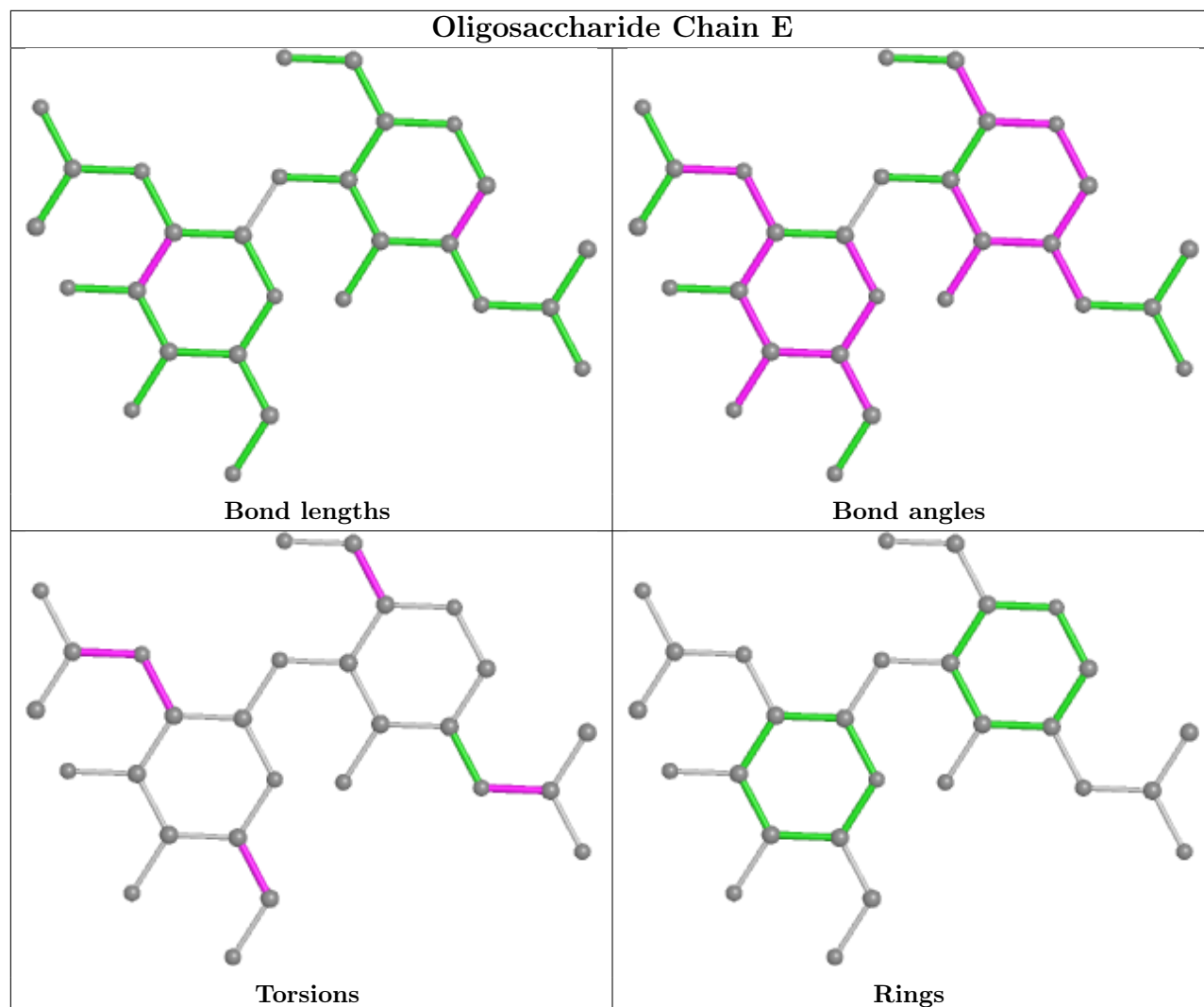
Mol	Chain	Res	Type	Atoms
4	E	2	NAG	C8-C7-N2-C2
4	G	2	NAG	C8-C7-N2-C2
4	G	2	NAG	O7-C7-N2-C2
4	E	2	NAG	O5-C5-C6-O6
4	G	2	NAG	O5-C5-C6-O6
4	F	1	NAG	C8-C7-N2-C2
4	H	1	NAG	C8-C7-N2-C2
4	F	1	NAG	O7-C7-N2-C2
4	H	1	NAG	O7-C7-N2-C2
4	E	1	NAG	C4-C5-C6-O6
4	H	2	NAG	O5-C5-C6-O6
4	H	2	NAG	C1-C2-N2-C7
4	F	2	NAG	O5-C5-C6-O6
4	G	1	NAG	C4-C5-C6-O6
4	F	2	NAG	C3-C2-N2-C7
4	H	2	NAG	C3-C2-N2-C7
4	E	1	NAG	O5-C5-C6-O6
4	F	2	NAG	C4-C5-C6-O6
4	H	2	NAG	C4-C5-C6-O6

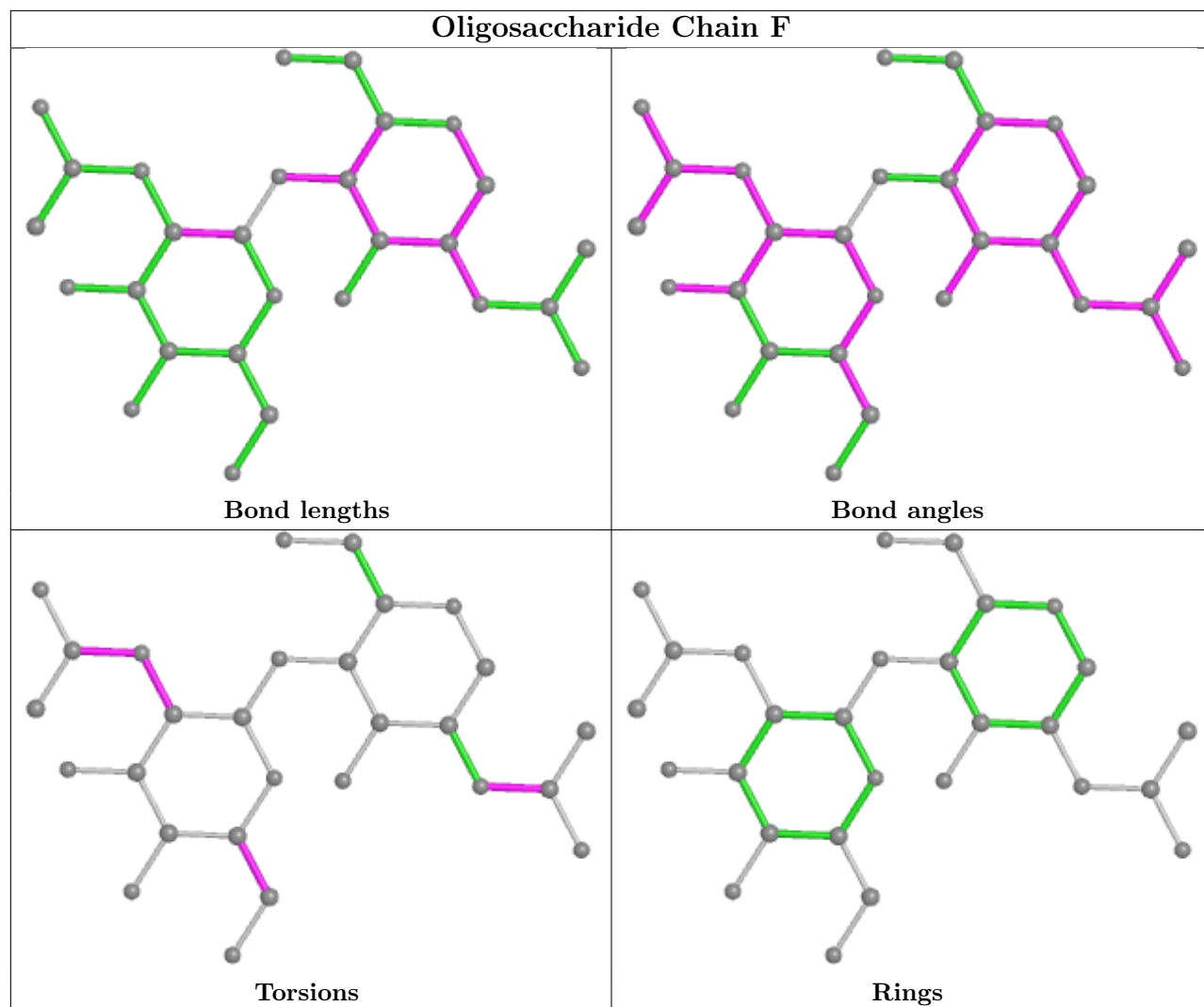
There are no ring outliers.

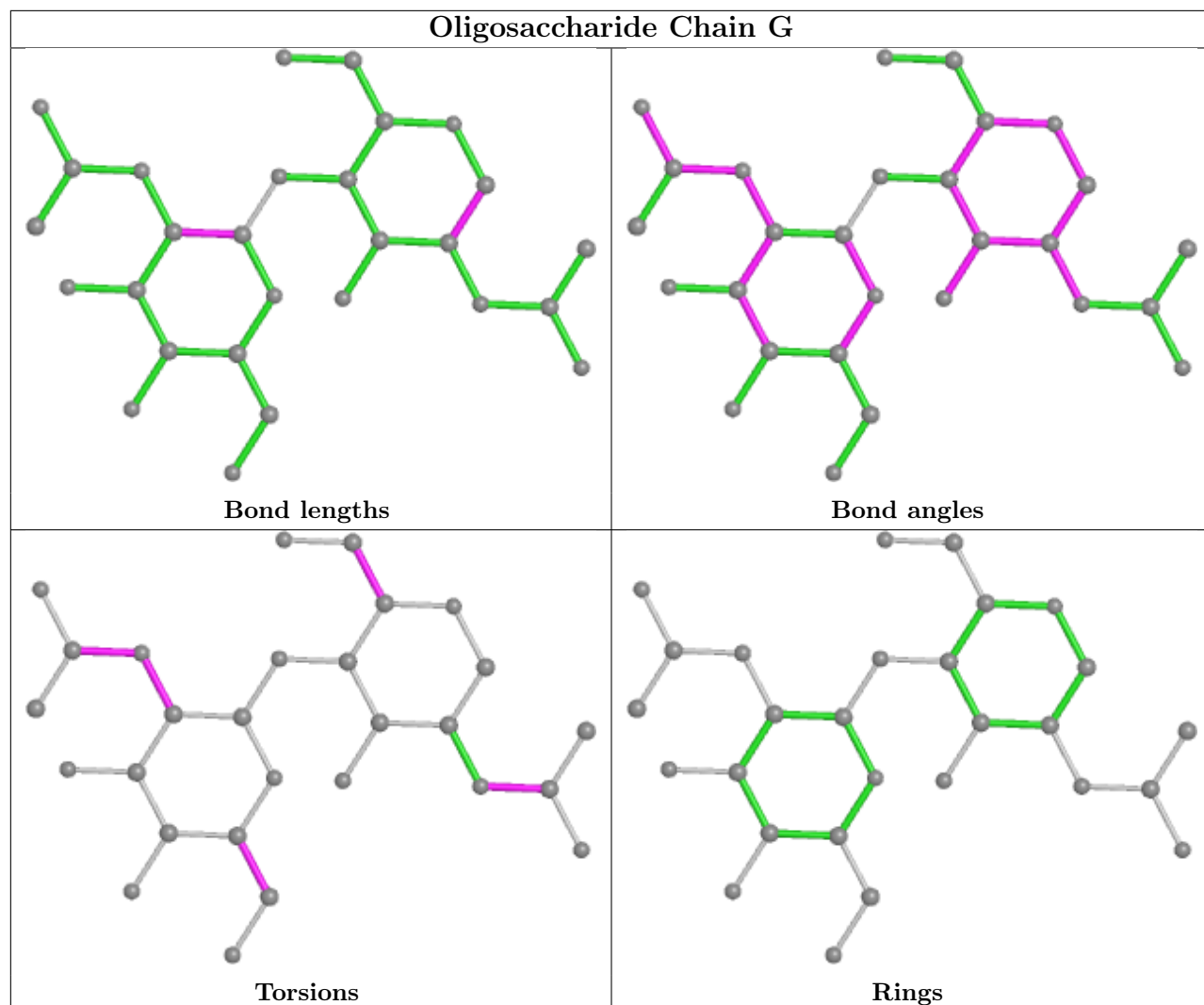
6 monomers are involved in 13 short contacts:

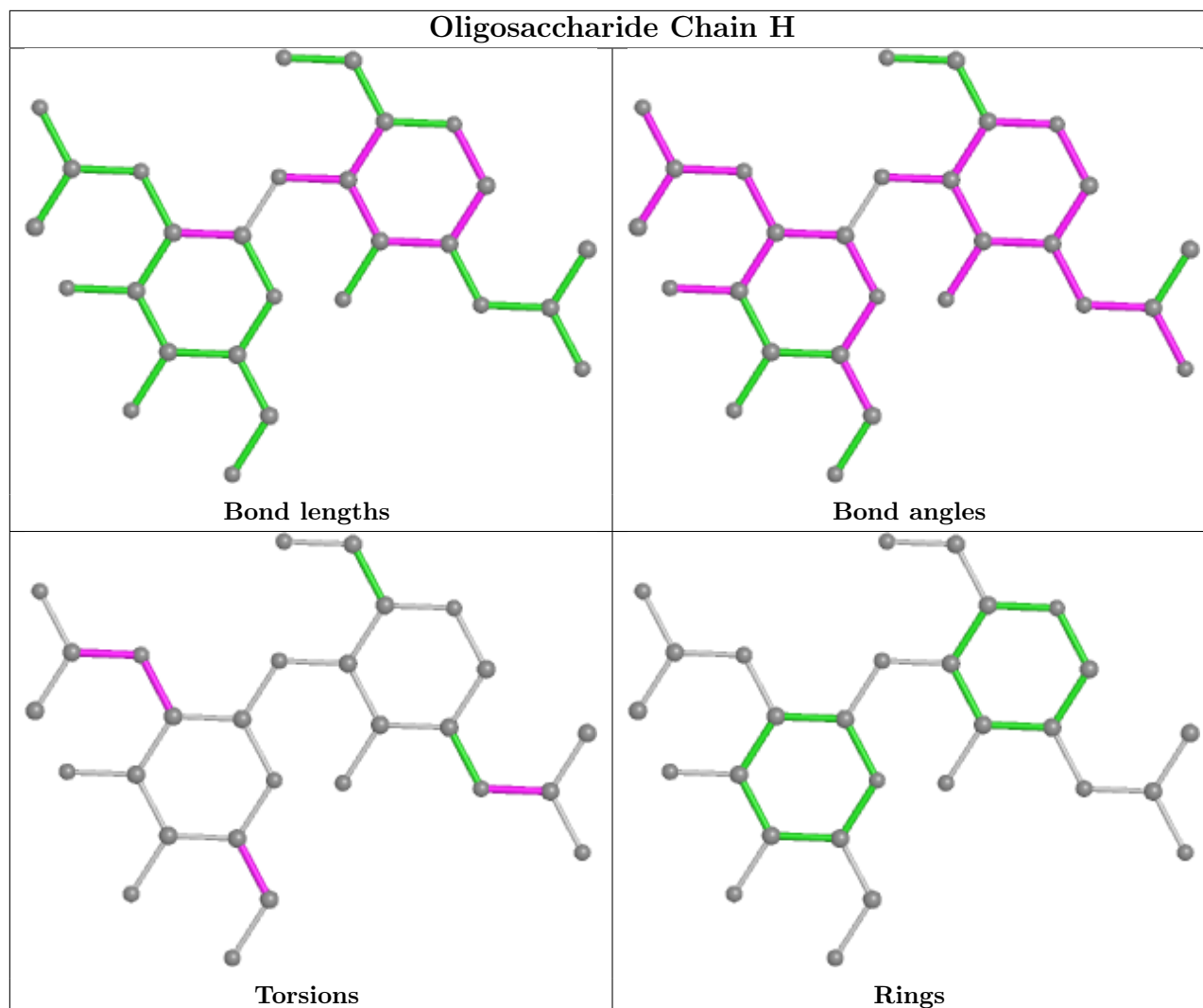
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	E	2	NAG	3	0
4	E	1	NAG	3	0
4	G	2	NAG	4	0
4	G	1	NAG	4	0
4	F	1	NAG	3	0
4	H	1	NAG	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.









5.6 Ligand geometry [i](#)

2 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	NAG	A	2003	1	14,14,15	1.89	5 (35%)	17,19,21	3.34	13 (76%)
5	NAG	C	2003	1	14,14,15	2.04	4 (28%)	17,19,21	2.60	10 (58%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	NAG	A	2003	1	-	2/6/23/26	0/1/1/1
5	NAG	C	2003	1	-	4/6/23/26	0/1/1/1

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	2003	NAG	C1-C2	4.43	1.59	1.52
5	A	2003	NAG	C3-C2	4.37	1.61	1.52
5	C	2003	NAG	C3-C2	3.97	1.60	1.52
5	C	2003	NAG	C4-C5	3.10	1.59	1.53
5	A	2003	NAG	O4-C4	2.43	1.48	1.43
5	A	2003	NAG	C4-C3	2.23	1.58	1.52
5	A	2003	NAG	C4-C5	2.18	1.57	1.53
5	C	2003	NAG	O4-C4	2.16	1.48	1.43
5	A	2003	NAG	O5-C5	2.13	1.47	1.43

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	2003	NAG	C2-N2-C7	5.28	130.43	122.90
5	A	2003	NAG	O7-C7-C8	-5.11	112.57	122.06
5	A	2003	NAG	C4-C3-C2	4.83	118.10	111.02
5	C	2003	NAG	O3-C3-C2	4.38	118.53	109.47
5	A	2003	NAG	O4-C4-C3	4.22	120.10	110.35
5	A	2003	NAG	C1-O5-C5	3.97	117.58	112.19
5	C	2003	NAG	O7-C7-C8	-3.54	115.49	122.06
5	A	2003	NAG	C3-C4-C5	-3.51	103.97	110.24
5	C	2003	NAG	O4-C4-C5	3.47	117.91	109.30
5	A	2003	NAG	O4-C4-C5	3.36	117.64	109.30
5	A	2003	NAG	C8-C7-N2	3.27	121.64	116.10
5	C	2003	NAG	C2-N2-C7	3.17	127.41	122.90
5	A	2003	NAG	O3-C3-C4	-3.15	103.06	110.35
5	A	2003	NAG	O3-C3-C2	3.11	115.91	109.47
5	C	2003	NAG	C1-O5-C5	3.06	116.33	112.19
5	C	2003	NAG	O5-C5-C4	3.00	118.14	110.83
5	C	2003	NAG	C1-C2-N2	-2.77	105.75	110.49
5	A	2003	NAG	C1-C2-N2	-2.71	105.86	110.49
5	A	2003	NAG	O5-C5-C6	2.66	111.37	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C	2003	NAG	O4-C4-C3	2.57	116.30	110.35
5	C	2003	NAG	O7-C7-N2	2.36	126.30	121.95
5	C	2003	NAG	C4-C3-C2	2.30	114.38	111.02
5	A	2003	NAG	O7-C7-N2	2.09	125.79	121.95

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	C	2003	NAG	O5-C5-C6-O6
5	A	2003	NAG	O5-C5-C6-O6
5	C	2003	NAG	C4-C5-C6-O6
5	A	2003	NAG	C4-C5-C6-O6
5	C	2003	NAG	C8-C7-N2-C2
5	C	2003	NAG	O7-C7-N2-C2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	2003	NAG	1	0
5	C	2003	NAG	2	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1626/1676 (97%)	-0.04	19 (1%) 79 70	72, 150, 260, 469	0
1	C	1626/1676 (97%)	0.03	42 (2%) 56 46	60, 153, 277, 515	0
2	B	1215/1642 (73%)	0.02	21 (1%) 70 61	73, 160, 235, 335	0
2	D	1215/1642 (73%)	-0.03	16 (1%) 77 68	85, 155, 241, 362	0
3	X	191/231 (82%)	0.68	26 (13%) 3 3	99, 230, 333, 437	0
3	Y	191/231 (82%)	0.41	15 (7%) 12 11	95, 195, 300, 385	0
All	All	6064/7098 (85%)	0.03	139 (2%) 60 51	60, 157, 264, 515	0

All (139) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	X	112	PRO	11.8
3	Y	114	GLY	6.8
3	X	113	ASN	5.6
1	C	1651	ASP	5.6
3	X	114	GLY	5.6
3	Y	113	ASN	5.4
1	C	1592	ALA	5.1
1	C	1585	TYR	4.6
2	D	1272	ASP	4.4
3	X	70	SER	4.2
3	Y	115	ARG	4.1
3	X	95	LYS	4.0
3	Y	59	ASN	4.0
2	D	100	GLN	3.9
2	D	98	SER	3.7
3	Y	71	ASN	3.5
1	A	874	ASP	3.5
2	B	1319	GLY	3.4
2	D	1318	ASP	3.4

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Mol	Chain	Res	Type	RSRZ
2	D	97	ASP	3.4
3	Y	92	GLU	3.4
1	A	1002	HIS	3.3
1	C	1622	LYS	3.3
1	A	94	GLY	3.3
1	C	1537	GLU	3.2
1	C	1586	LYS	3.2
2	B	1272	ASP	3.2
1	C	1593	GLU	3.2
1	C	1525	CYS	3.1
3	Y	195	ASP	3.1
1	C	1002	HIS	3.1
1	C	882	LYS	3.1
1	C	273	GLU	3.1
2	B	1320	LYS	3.0
3	X	90	ASP	3.0
2	D	1273	LEU	3.0
1	C	874	ASP	3.0
3	Y	95	LYS	3.0
1	C	1538	GLU	3.0
3	X	108	GLU	3.0
1	C	278	ASP	2.9
1	A	879	LYS	2.9
2	B	639	ARG	2.8
2	B	1435	ASP	2.8
1	C	712	GLU	2.8
3	X	104	PHE	2.8
2	B	1273	LEU	2.7
2	D	940	THR	2.7
1	A	1545	ALA	2.7
2	D	99	ARG	2.7
3	X	76	ASN	2.7
3	X	93	GLN	2.7
1	C	93	PRO	2.6
1	C	1609	ALA	2.6
1	C	1596	SER	2.6
3	X	71	ASN	2.6
3	X	127	ASN	2.6
1	C	1597	GLU	2.6
1	A	1398	ASP	2.6
1	C	159	THR	2.6
3	X	111	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
3	X	126	ASN	2.6
1	C	1594	LYS	2.6
1	C	1557	ILE	2.6
1	A	817	ALA	2.5
1	A	1622	LYS	2.5
2	D	941	GLN	2.5
3	X	128	LYS	2.5
2	B	1344	HIS	2.5
3	Y	159	GLU	2.5
2	D	765	GLU	2.5
1	C	94	GLY	2.5
1	C	1598	ILE	2.4
1	A	1399	TYR	2.4
2	B	1370	ARG	2.4
2	B	1376	ASP	2.4
3	X	92	GLU	2.4
3	X	79	ASP	2.4
3	X	74	ARG	2.4
1	C	403	ASP	2.4
2	B	640	SER	2.4
2	D	1354	LEU	2.4
1	C	1544	SER	2.3
3	X	101	GLN	2.3
1	C	446	ASN	2.3
3	X	120	GLY	2.3
3	X	195	ASP	2.3
1	A	273	GLU	2.3
1	A	1526	LYS	2.3
2	B	1434	GLU	2.3
1	A	691	LYS	2.3
1	C	255	PHE	2.3
1	C	1241	ASN	2.3
2	D	66	LYS	2.3
3	Y	196	GLU	2.3
2	B	99	ARG	2.2
2	B	1371	TYR	2.2
3	Y	89	LYS	2.2
3	Y	90	ASP	2.2
1	A	240	TYR	2.2
2	B	1374	GLU	2.2
3	X	159	GLU	2.2
1	C	879	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
2	B	344	GLN	2.2
1	A	692	HIS	2.2
2	B	369	PRO	2.2
1	C	817	ALA	2.2
2	B	61	PHE	2.2
1	C	1595	ASP	2.1
1	C	1233	GLN	2.1
2	B	1375	VAL	2.1
1	A	271	ILE	2.1
2	D	337	HIS	2.1
2	D	967	GLY	2.1
1	C	95	GLY	2.1
2	D	951	ASP	2.1
1	C	314	SER	2.1
1	C	1548	ARG	2.1
1	C	393	GLN	2.1
1	C	274	ASP	2.1
2	B	23	ALA	2.1
2	B	1537	ASN	2.1
1	A	1380	LYS	2.1
3	X	99	GLN	2.1
3	Y	72	VAL	2.1
1	C	313	TYR	2.1
1	C	240	TYR	2.1
1	A	311	SER	2.1
3	Y	64	VAL	2.0
3	X	82	HIS	2.0
3	X	41	HIS	2.0
1	C	312	TYR	2.0
3	X	73	VAL	2.0
2	B	52	LYS	2.0
1	A	1651	ASP	2.0
1	A	1546	GLU	2.0
3	Y	116	LEU	2.0
1	C	846	TYR	2.0
2	D	764	GLU	2.0

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

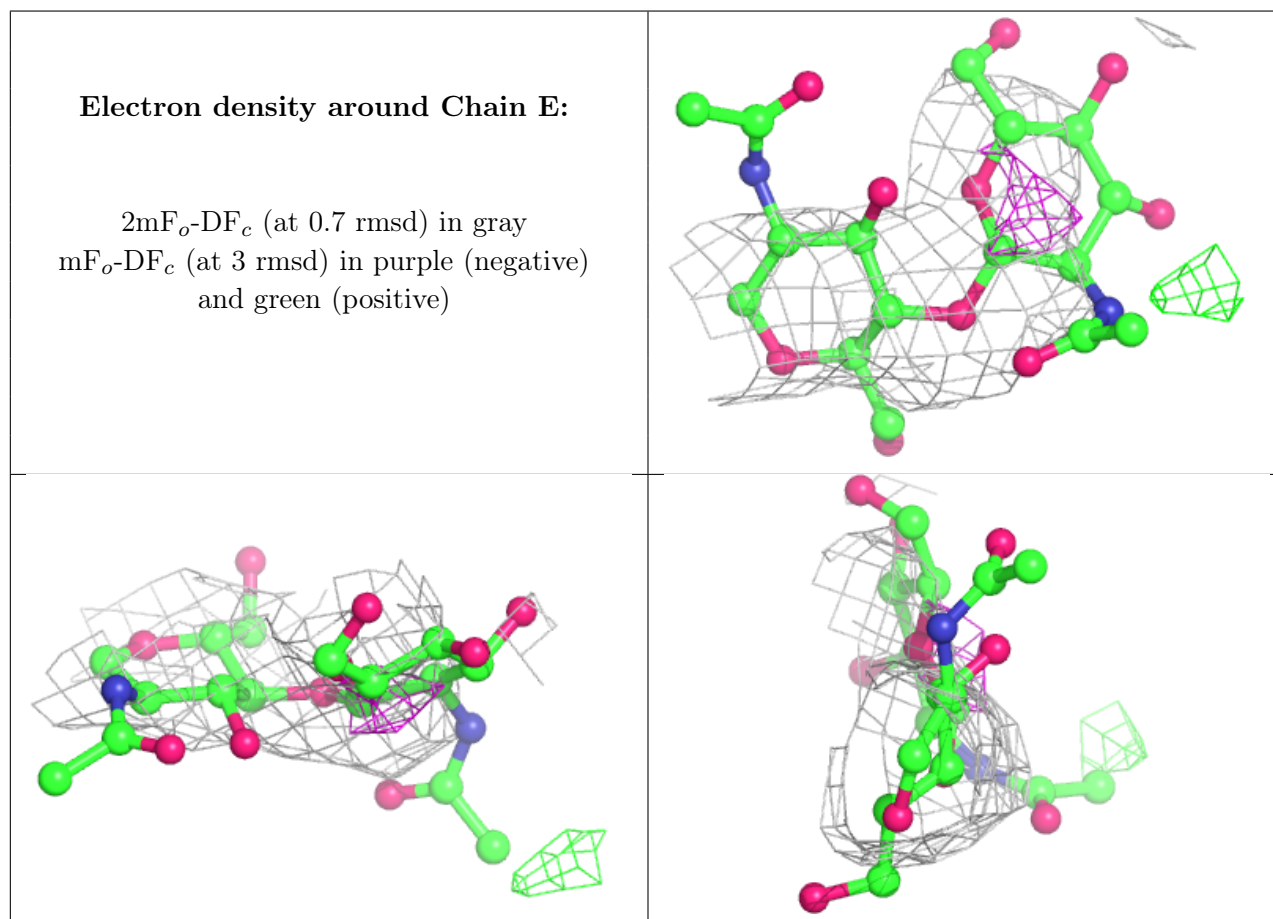
There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

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

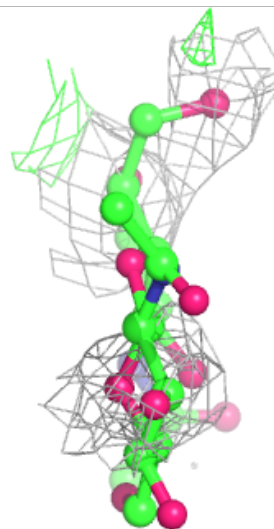
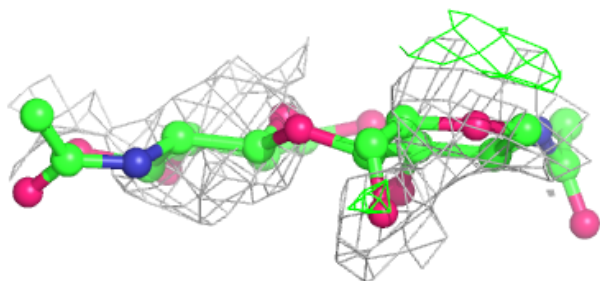
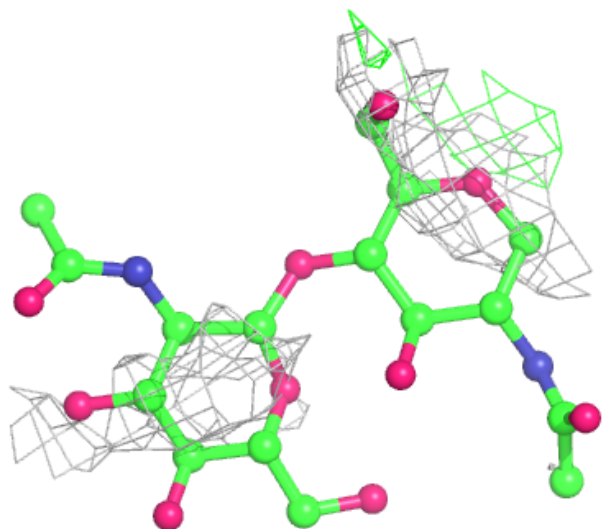
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	NAG	F	1	14/15	0.24	0.78	225,233,240,245	0
4	NAG	H	1	14/15	0.54	0.54	246,253,258,265	0
4	NAG	F	2	14/15	0.55	0.79	297,301,307,310	0
4	NAG	G	2	14/15	0.66	0.60	228,239,251,252	0
4	NAG	E	2	14/15	0.72	0.69	228,239,253,257	0
4	NAG	H	2	14/15	0.72	0.85	271,274,277,278	0
4	NAG	E	1	14/15	0.73	0.55	278,305,319,322	0
4	NAG	G	1	14/15	0.89	0.41	228,253,282,288	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.



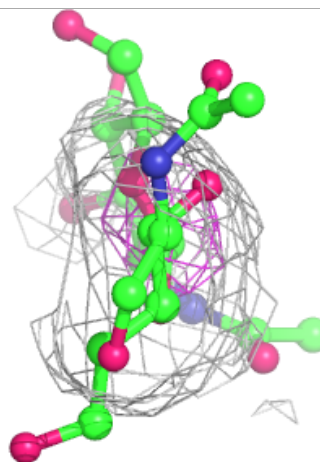
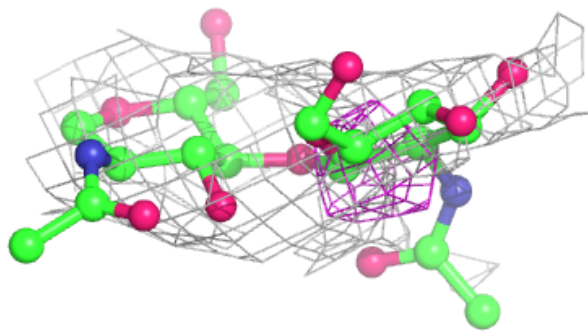
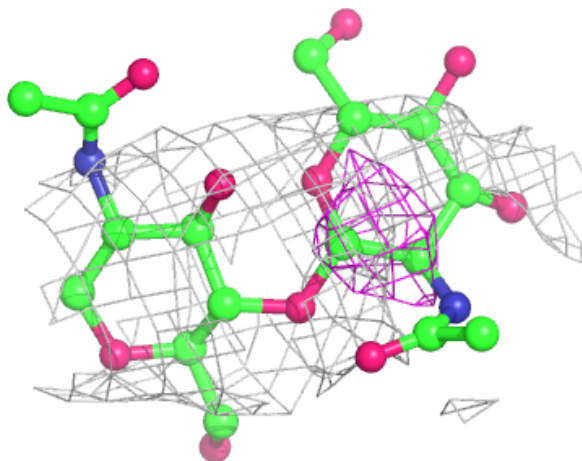
Electron density around Chain F:

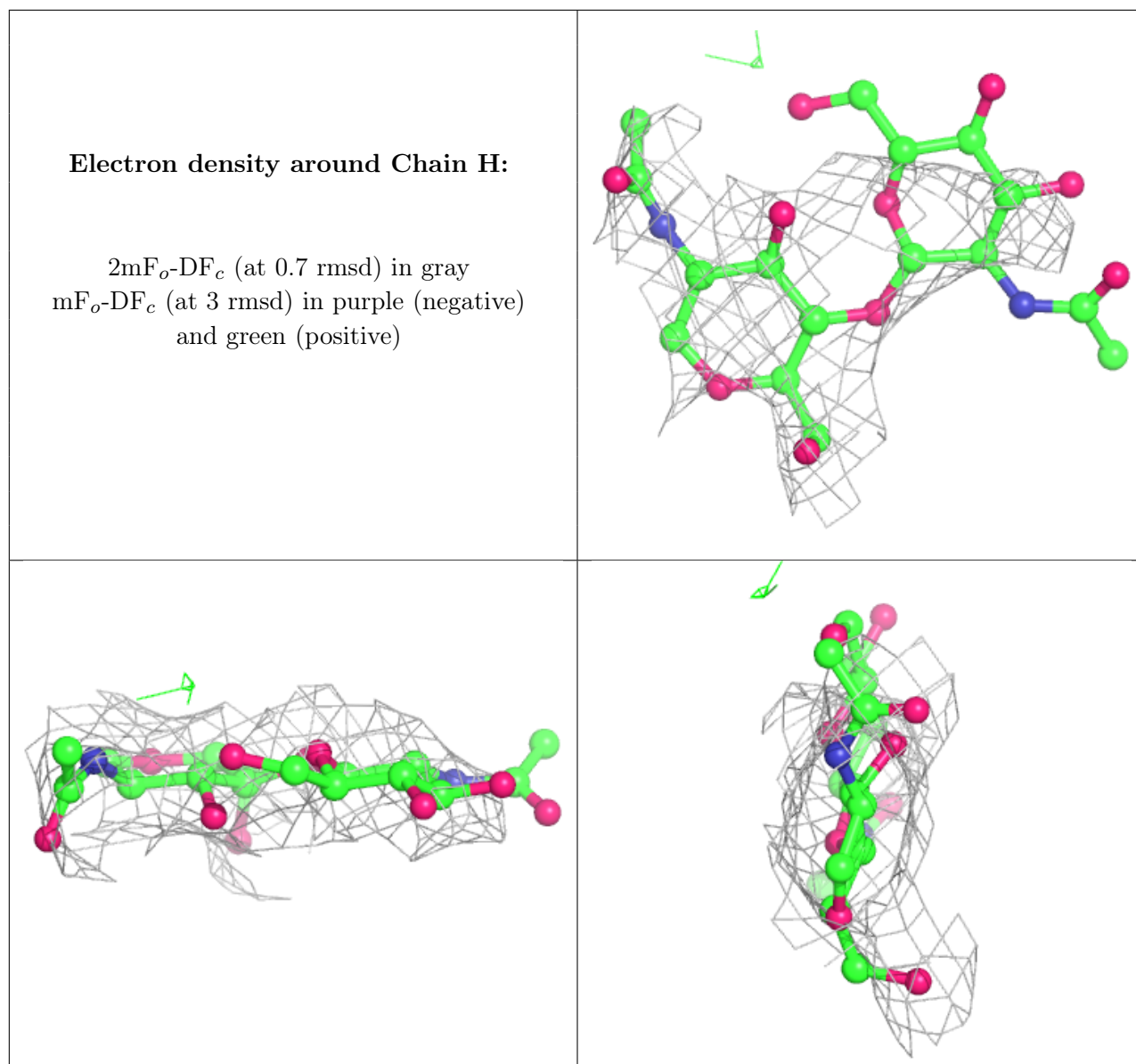
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around Chain G:

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





6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	NAG	C	2003	14/15	0.73	0.39	177,180,183,183	0
5	NAG	A	2003	14/15	0.78	0.29	166,169,171,172	0

6.5 Other polymers [i](#)

There are no such residues in this entry.