



# Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 08:34 AM EDT

PDB ID : 3PRX / pdb\_00003prx  
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.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

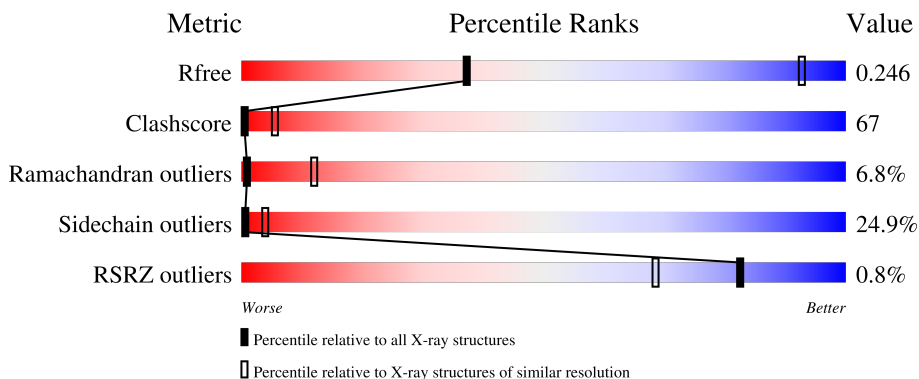
# 1 Overall quality at a glance

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))
$R_{free}$	180053	1052 (4.70-3.90)
Clashscore	190562	1097 (4.70-3.90)
Ramachandran outliers	187476	1001 (4.70-3.90)
Sidechain outliers	187428	1007 (4.72-3.88)
RSRZ outliers	180081	1049 (4.70-3.90)

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  $\geq 3$ , 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	
1	C	1676	
2	B	1642	
2	D	1642	
3	X	231	

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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	

## 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	12874	8242	2113	2467	52	0	0	0
1	C	1626	12874	8242	2113	2467	52	0	0	0

- Molecule 2 is a protein called Cobra venom factor.

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

- 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	1539	965	267	306	1	0	0	0
3	Y	191	1539	965	267	306	1	0	0	0

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



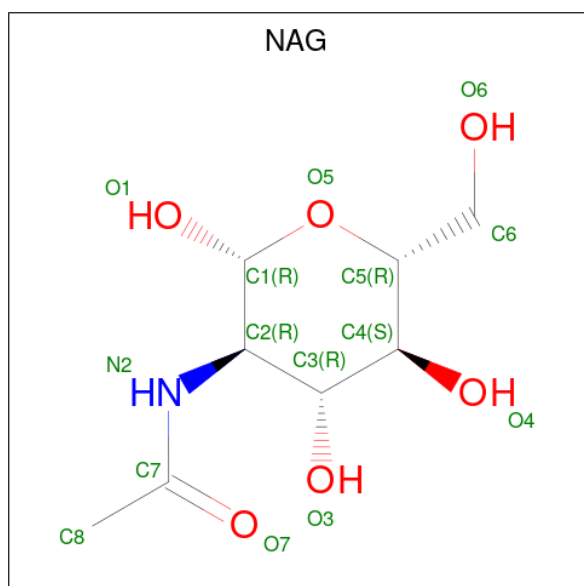
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
4	E	2	28	16	2	10	0	0	0

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

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

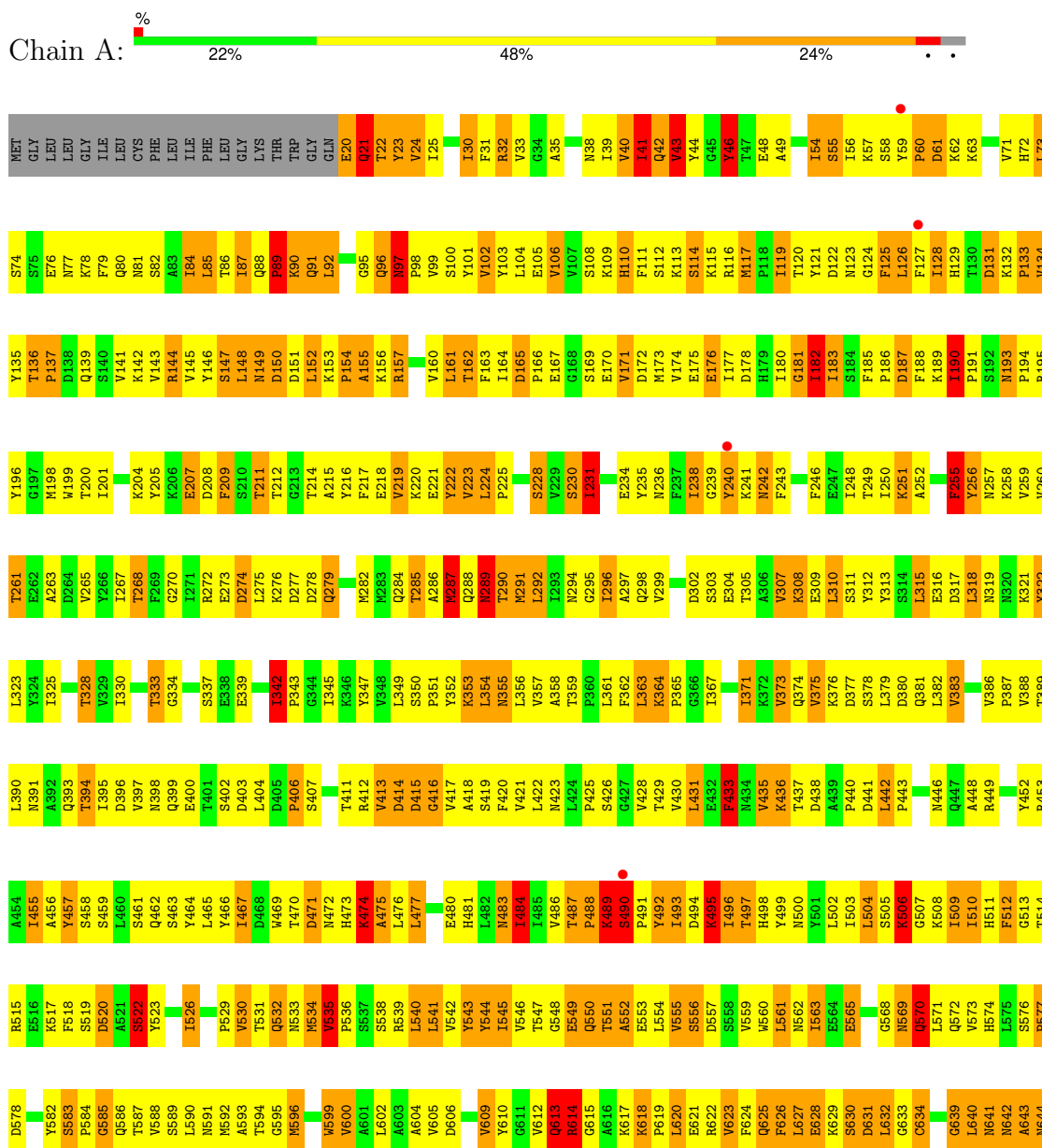


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
5	A	1	Total	C	N	O	0	0
			14	8	1	5		
5	C	1	Total	C	N	O	0	0
			14	8	1	5		

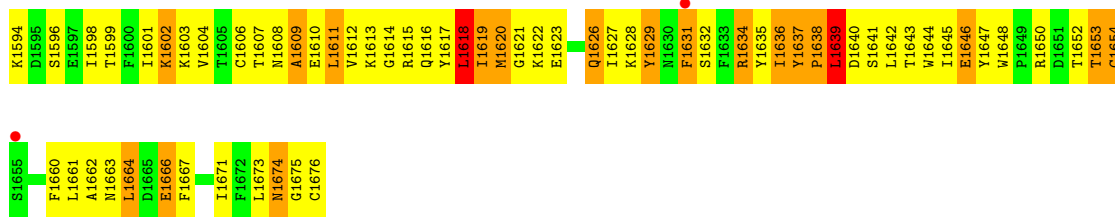
### 3 Residue-property plots

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.

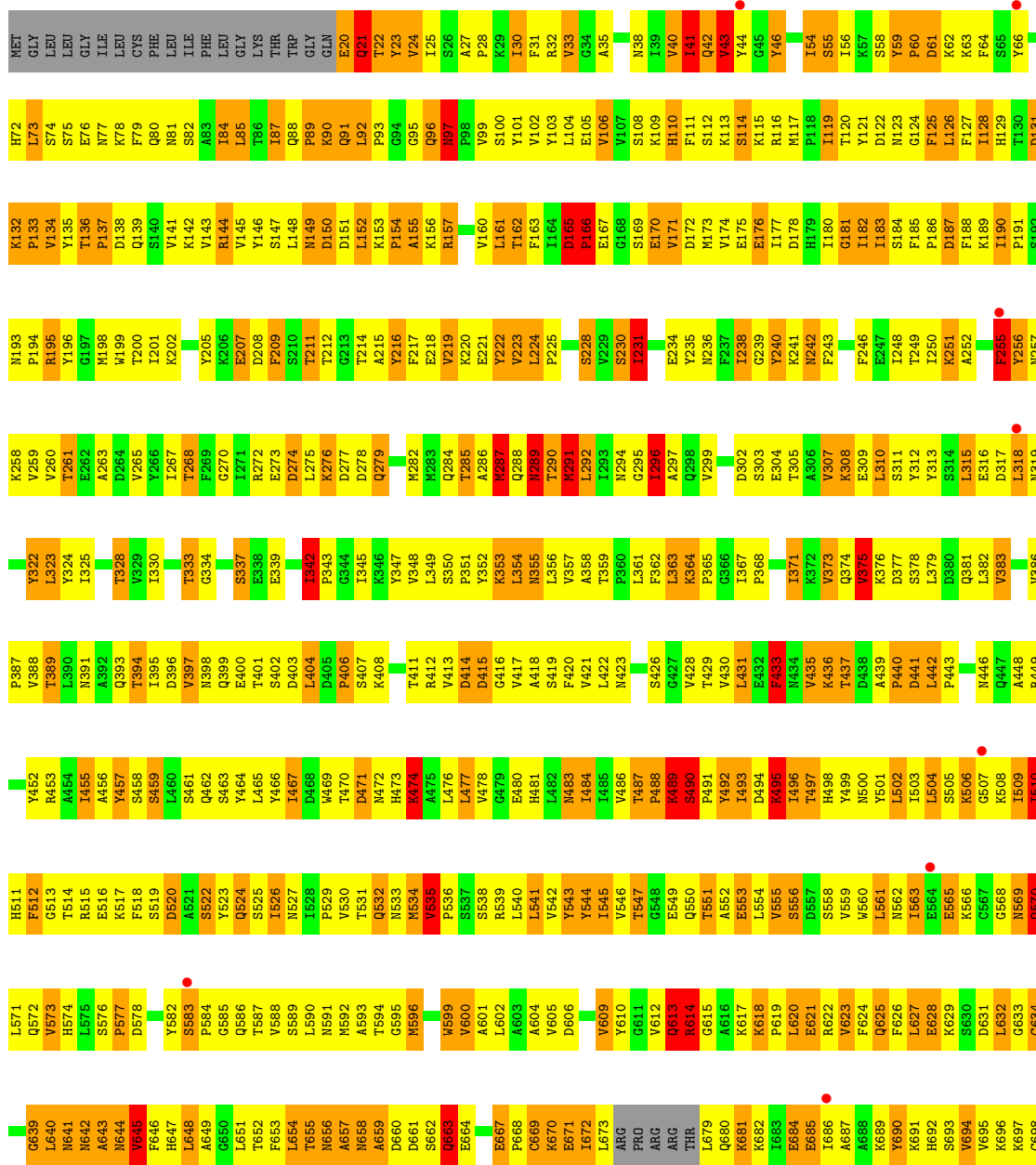
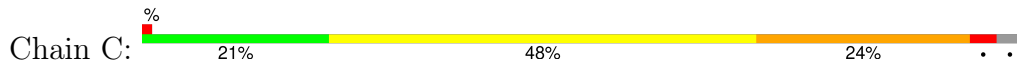
#### • Molecule 1: Complement C5



K645	N706	L774	1839	E904	D966	G1028	V1093	F1156	G1220	Y1280	D1345	S1407	F1472	Q1534
F646	N707	L777	Q840	L905	L967	N1029	E1094	D1157	M1221	L1346	L1346	Y1408	L1473	M1535
H647	D708	P968	G906	G906	P969	H1031	Q1095	I1158	P1222	I1347	I1347	K1409	C1474	K1536
L648	E709	H778	C843	L907	P969	H1030	M1096	C1159	P1223	F1284	V1348	P1410	V1475	E1537
A649	T710	L779	T844	H908	K970	I1032	Q1097	P1160	I1224	I1285	S1349	S1411	R1476	E1538
G650	C711	H780	H845	H909	T971	N1033	M1098	L1161	I1225	S1286	T1350	F1477	F1477	L1539
L651	E712	V781	H846	L910	E972	F1034	L1099	V1162	R1226	T1287	G1351	E1414	E1478	D1540
T652	Q713	R782	H847	H911	I973	H1035	L1100	K1163	F1227	Q1288	F1352	S1415	I1479	L1541
F653		R783	H848	F912	K974	S1036	C1101	K1164	M1228	D1289	D1289	S1416	F1480	T1542
L654	T718	K784	R849	S913	R975	P1037	M1102	D1165	D1230	A1293	G1355	S1420	E1481	S1544
T655	S719	K785	T850	L914	R976	P1038	S1103	L1166	D1231	I1294	L1356	H1421	L1482	S1544
N656	L720	H786	S851	E915	L977	P1038	L1104	A1167	M1231	E1295	A1357	H1422	F1483	S1544
A657	G721	H787	S852	T916	L978	P1038	L1105	A1168	N1232	G1296	A1422	A1422	F1484	E1545
M658	F722	F788	H853	H912	V979	E1041	M1106	M1168	Q1233	G1296	V1359	V1423	V1485	T1547
A659	R723	A790	H854	F918	K980	K1042	L1107	A1171	Q1234	H1360	H1360	D1424	G1486	R1548
D660	R724	L790	F855	G919	K981	Q1044	V1108	D1172	K1235	T1288	H1361	D1425	F1487	K1549
D661	I725	C724	F856	G920	L982	K1044	E1109	D1172	L1236	E1299	V1362	I1426	L1488	Q1550
S662	K726	D792	H857	L923	L983	K1048	M1110	L1175	S1237	V1300	T1363	S1427	S1489	T1551
O663	F727	D792	K858	V924	S989	L1048	Y1111	L1175	Q1238	L1307	V1364	L1428	S1489	P1490
E664	F728	S793	H859	V930	A990	L1049	Q1112	M1178	V1239	S1301	V1364	P1429	A1491	A1552
	T729	L794	H859	V931	G985	L1049	Q1113	M1178	V1240	L1302	V1365	P1429	A1491	G1553
	E730	T796	H862	K925	E986	K1050	L1113	T1179	P1241	L1303	H1366	T1430	T1492	K1554
	C731	T796	E863	T926	L987	E1051	D1114	L1180	M1241	V1304	K1367	G1431	F1493	P1555
	C732	C732	C864	L927	L988	G1052	Q1122	P1181	T1242	K1305	T1368	I1432	T1494	E1556
	V733	H800	C864	R928	S989	M1053	S1117	A1182	G1243	Q1306	S1369	S1433	V1495	I1557
	V734	H801	C866	V929	S989	L1054	F1118	Q1183	T1244	L1307	S1369	A1434	V1496	A1558
		G801	C866	V930	A990	S1055	K1119	S1184	A1245	R1308	S1371	M1435	E1497	Y1559
		H802	T867	V931	G985	L1055	E1120	T1185	R1246	L1309	E1372	E1436	Y1498	A1560
		H803	T867	K925	E986	M1057	M1121	F1186	M1247	L1313	E1373	H1499	Y1561	V1561
		H804	E868	R928	E986	M1057	Q1122	T1187	V1248	I1313	V1375	L1439	F1499	K1562
		S805	S870	G996	S996	N1061	S1123	L1188	E1249	L1314	C1375	K1440	P1501	V1563
		H806	H871	S989	S989	N1061	Q1124	A1189	T1250	V1315	S1376	L1443	D1502	S1564
		T807	H872	R988	S989	Y1064	Q1125	L1190	T1251	S1316	S1376	V1443	D1502	L1565
		G808	T873	E937	L989	S1065	P1126	S1191	A1262	L1317	L1379	E1444	K1503	T1566
		H809	H874	S938	L1000	Y1066	L1127	A1192	V1253	K1318	K1380	G1445	C1505	S1567
		C810	H875	Y939	H1001	S1067	K1128	Y1193	L1254	H1319	I1381	G1446	T1506	I1568
		H811	H876	S940	L1002	V1068	L1129	A1194	L1255	K1320	D1392	D1447	M1507	T1569
		A812	H877	G941	H1003	V1069	Q1130	L1195	L1256	G1321	G1321	Q1448	M1507	V1570
		D813	H878	V942	P1004	K1070	Q1131	S1196	T1257	A1322	O1384	L1449	S1510	E1571
		H814	T878	V943	P1004	G1071	T1132	L1197	S1258	L1323	D1385	F1450	T1511	M1572
		V815	C883	L944	S1007	G1072	L1133	G1198	L1259	H1324	D1386	F1451	S1512	V1573
		H818	H884	D945	A1008	S1073	P1134	L1199	M1260	E1325	I1386	D1452	L1514	F1574
		V819	H885	P946	E1009	A1074	V1135	K1200	L1261	Y1326	ALA	Y1453	I1514	V1575
		H820	H887	G948	A1010	S1075	E1136	T1201	K1262	SER	ALA	Q1454	L1514	K1576
		K821	H888	L949	L1012	T1076	M1140	H1202	D1263	HIS	TYR	I1455	I1577	Y1577
		D822	H889	V950	M1013	W1077	S1141	P1203	I1264	T1329	TYR	K1456	K1578	K1578
		V823	E889	G951	M1013	L1078	L1142	Q1204	M1265	D1330	ARG	D1457	A1579	A1579
		H824	H890	S891	S1014	T1079	L1143	S1207	Y1266	K1331	GLY	G1458	L1580	V1580
		L825	S892	L953	V1015	F1081	Y1143	I1208	V1267	N1332	GLY	H1459	L1581	L1581
		E826	S893	S954	V1016	A1082	L1144	R1213	M1268	F1333	GLY	W1460	L1582	L1582
		M827	H894	R955	P1017	L1082	T1145	V1209	P1269	L1334	ASN	I1461	D1583	D1583
		H828	L895	S955	V1018	L1083	A1146	S1210	V1270	G1335	S1397	L1462	L1584	L1584
		T829	H896	E958	F1019	R1084	F1147	A1211	I1271	K1336	D1398	Q1463	Y1585	Y1585
		S830	H897	F959	Y1020	V1085	T1148	L1212	K1272	L1337	T1398	L1464	K1586	K1586
		H833	H898	F960	V1021	L1086	V1149	L1213	W1273	F1338	K1273	M1465	T1587	T1587
		V769	H899	Y961	F1022	L1086	I1150	R1214	L1274	E1339	R1401	S1466	G1588	G1588
		H834	H900	Y961	H1023	Q1088	L1151	A1215	S1275	I1399	R1401	S1466	G1588	G1588
		E837	L901	R962	Y1024	V1089	L1152	A1216	E1276	L1341	I1402	I1467	V1528	V1528
		S771	L902	P964	M1025	N1090	L1153	A1217	E1277	L1342	V1403	P1468	E1529	A1590
		E772	P902	P964	E1026	K1091	K1154	L1218	Q1278	L1342	A1404	S1469	V1591	V1591
		V773	L903	L965	E1026	K1091	K1155	L1219	R1279	D1344	A1406	S1470	A1592	A1592
														E1593



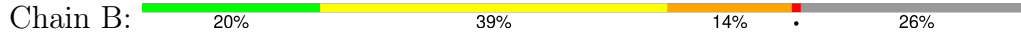
• Molecule 1: Complement C5



Q1534	L1473	S1407	D1345	D1157	E1094	M1029	V968	L903	G836	S772	C689
M1555	C1474	Y1408	L1346	I1158	Q1095	H1030	P969	E904	E837	W773	Y700
Q1536	R1475	K1409	I1347	C1159	M1096	M1031	K970	I905	Q838	L774	D701
E1537	R1476	P1410	Y1348	P1160	Q1097	N1032	T971	G906	R839	W775	G702
E1538	F1477	S1349	I1349	L1161	M1098	I1033	E972	H907	Q840	V776	A703
L1539	R1478	T1350	T1350	V1162	S1099	F1034	E973	H908	G843	V777	C704
D1540	I1479	G1351	G1351	K1163	L1100	H1035	K974	N909	G844	L778	V705
L1541	F1480	F1352	D1289	I1164	C1101	S1036	R975	I910	T844	W780	N706
L1542	E1481	S1415	T1290	D1165	M1102	D1037	N976	N911	W845	F781	E709
L1543	F1482	S1420	G1293	T1166	S1103	E1041	L977	F912	W846	R782	F710
L1544	F1483	T1358	L1294	A1167	L1104	K1048	S978	S913	W847	R783	T710
E1484	E1484	H1421	E1295	L1168	L1105	L1049	K1048	L914	W848	K784	A711
E1485	E1485	A1422	E1295	W1106	Q1043	K1050	K980	E915	W849	W785	Q713
G1486	G1486	V1423	G1296	A1171	K1044	E1051	G981	T916	T850	L786	Q713
F1487	F1487	V1361	L1297	W1108	V1108	G1052	L982	W917	S851	Q787	I718
L1488	L1488	I1362	L1298	L1175	K1047	M1053	L983	F918	G852	F788	S719
S1489	S1489	T1363	E1299	M1110	L1048	M1058	W984	F918	G852	F788	S719
L1490	L1490	V1364	Y1300	E1177	L1048	M1058	W984	F918	G852	F788	S719
A1491	A1491	V1365	S1301	M1178	K1050	E986	G986	L923	W854	A789	L720
T1492	T1492	H1366	L1302	T1179	E1051	L987	G981	V924	F855	P791	C724
F1493	F1493	K1367	L1303	L1180	G1052	L988	G981	K925	C856	D792	I725
T1494	T1494	T1368	V1304	P1181	M1053	S989	L988	T926	W857	S793	I725
V1495	V1495	S1369	K1305	A1182	L1064	R928	A990	R928	L794	L794	A727
A1496	A1496	T1370	Q1306	Q1183	S1055	V929	W930	V929	W859	T795	F728
Y1497	Y1497	S1371	L1307	S1184	K1119	S983	S983	V930	W862	T796	T729
E1497	E1497	E1372	R1308	T1185	E1120	M1057	G994	P931	E863	E730	E730
H1499	H1499	E1373	L1309	F1186	M1121	S1058	E995	V934	E864	Q800	V734
R1500	R1500	V1374	I1313	T1187	S1122	S1058	E995	V934	E864	Q800	V734
F1501	F1501	C1375	D1314	L1188	Q1123	M1061	G996	K935	R865	G801	V734
D1502	D1502	S1376	D1314	A1189	Y1124	Y1064	N987	K935	R865	G801	V734
K1503	K1503	F1377	V1315	L1190	Q1125	Y1064	N988	K936	E869	C803	Q737
Q1504	Q1504	Y1378	V1316	S1191	F1126	S1065	L1000	E937	S870	R804	L738
C1505	C1505	L1379	Y1317	A1192	T1127	S1065	L1000	E937	S870	R804	L738
T1506	T1506	K1380	K1318	Y1193	K1128	S1067	H1002	H1002	W872	R806	R739
S1507	S1507	I1381	H1319	A1194	L1068	S1067	H1002	H1002	W872	R806	R739
F1508	F1508	D1382	K1320	L1195	M1069	P1004	H1003	G941	D874	G808	I742
L1511	L1511	L1383	G1321	S1196	K1070	K1005	L1005	V942	H875	I809	HIS
S1512	S1512	Q1384	A1322	L1197	G1071	G1006	G1006	L944	Q876	C810	LYS
I1514	I1514	D1385	L1323	G1198	G1072	S1007	S1007	D945	G877	W811	ASP
L1515	L1515	I1386	H1324	D1199	G1072	A1008	A1008	D945	T878	A812	NET
ILE	ILE	ALA	N1325	K1200	A1074	E1009	E1009	R947	C983	T814	GLN
GLN	GLN	SER	Y1326	T1201	S1075	G948	G948	G948	W884	W815	LEU
LYS	LYS	HIS	K1327	H1202	T1076	A1010	A1010	I949	R885	W815	GLY
VAL	VAL	TYR	M1328	P1203	L1077	L1012	L1012	Y950	Q886	L752	L752
CYS	CYS	ARG	T1329	Q1204	L1078	M1013	M1013	Y952	Q887	W819	H753
GLY	GLY	ASN	D1330	S1207	T1079	S1014	S1014	T952	W888	F820	R754
ALA	ALA	S1397	K1331	I1211	A1084	V1018	V1018	T952	W888	F820	R754
CYS	CYS	GLY	N1332	L1212	V1085	F1020	F1020	T952	E889	R821	R755
GLY	GLY	TYR	F1333	K1213	L1086	V1021	V1021	T952	E889	R821	R755
ASN	ASN	ALA	F1334	R1214	L1086	F1022	F1022	T952	E889	R821	R755
Q1463	Q1463	S1397	G1335	A1211	V1085	V1021	V1021	T952	E889	R821	R755
L1464	L1464	D1398	R1336	L1212	V1085	F1022	F1022	T952	E889	R821	R755
M1465	M1465	I1399	F1338	K1213	L1086	F1022	F1022	T952	E889	R821	R755
S1466	S1466	K1400	V1338	R1214	L1086	F1022	F1022	T952	E889	R821	R755
L1467	L1467	K1401	E1339	A1215	G1088	R962	R962	T952	W896	W827	I765
L1468	L1468	I1402	V1340	L1152	Y1089	Y1024	Y1024	T952	W896	W827	I765
S1469	S1469	V1403	L1341	L1217	M1090	P964	P964	T952	W896	W827	I765
A1404	A1404	I1404	L1342	L1218	K1091	L1025	L1025	T952	W896	W827	I765
D1471	D1471	C1405	N1343	K1219	Y1092	E1026	E1026	T952	W896	W827	I765
F1472	F1472	A1406	D1344	G1220	F1156	V1093	V1093	T952	W896	W827	I765



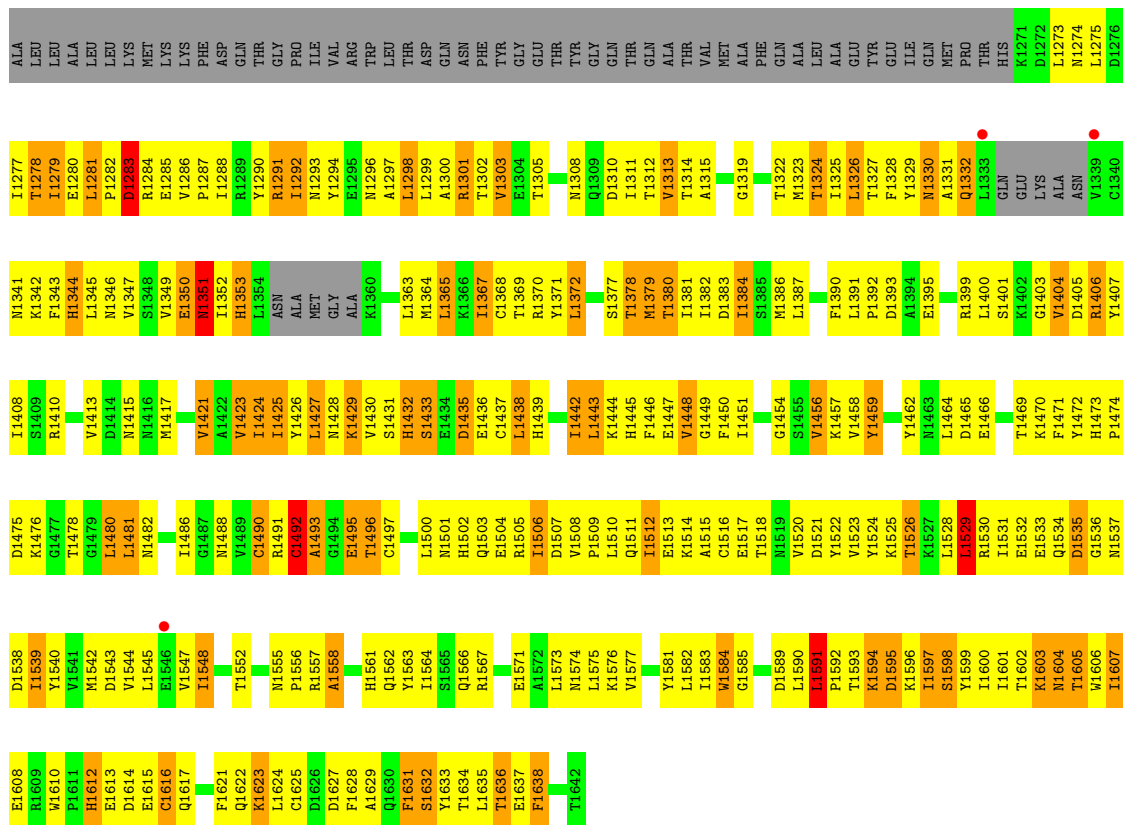
● Molecule 2: Cobra venom factor



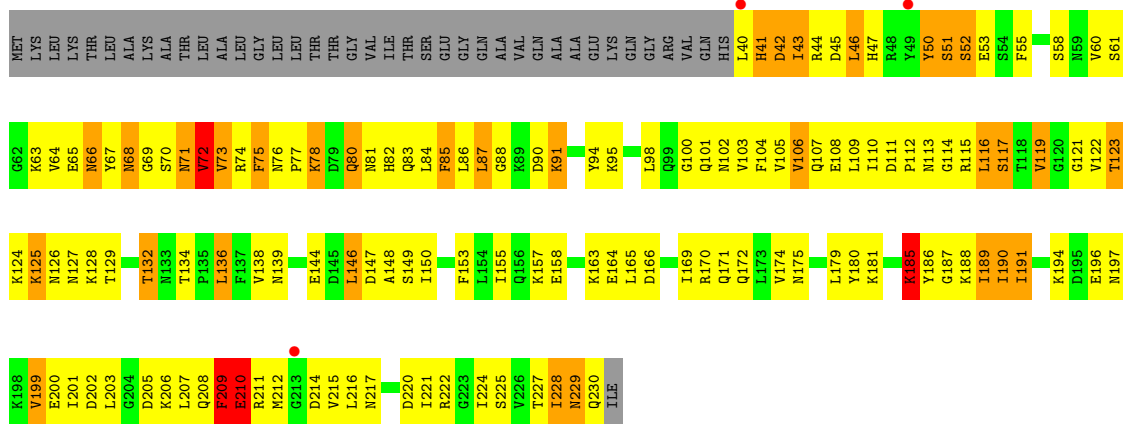
MET	P22	F129	D190	Y253	S326	K397	V462	V526	H599	ASN	ASN	V768
GLU	R63	I130	L191	E256	S327	L398	N463	G527	D600	ALA	GLN	V769
ARG	Q65	Q131	V192	E257	D327	L399	F464	N528	T601	SER	ALA	V792
MET	Q65	T132	L194	E258	V329	N465	N465	N529	E603	ALA	ALA	S793
ALA	L68	D133	L194	E259	V330	N466	N466	E530	E604	ALA	ALA	F794
LEU	F69	K134	T196	G259	V330	N467	N467	E531	S605	GLU	GLU	T795
TYR	Q70	G135	M197	G260	Q333	N468	N468	V532	D606	PHE	PHE	P796
LEU	T71	I136	M198	A261	Q333	N469	N469	A533	F607	GLN	GLN	I800
VAL	R72	Y137	R198	F262	I336	N470	N470	D534	G608	ALA	ALA	C801
ALA	R73	T138	I199	V263	I337	N471	N471	S535	6608	ARG	ARG	V802
ALA	V73	P139	V200	L264	L411	N472	N472	S536	6609	ASP	ASP	A803
LEU	D74	G140	A201	F265	I338	N473	N473	V538	6610	ASP	ASP	R804
LEU	M75	G141	K202	G266	V339	N474	N474	K541	6611	LEU	LEU	R805
ILE	M76	P142	Y203	V267	K340	N475	N475	D542	6612	ARG	ARG	E806
GLY	P77	V143	E204	R268	S341	N476	N476	F543	6613	ARG	ARG	P807
PHE	A78	L144	H205	I269	F342	N477	N477	F544	6614	LYS	LYS	R808
PRO	G79	Y145	S206	R270	K343	N478	N478	T545	6615	CYS	CYS	E809
GLY	G80	R146	P207	A272	Q344	N479	N479	G546	6616	CYS	CYS	I810
SER	M81	V147	E208	K273	D419	N480	N480	G547	6617	GLU	GLU	R811
SER	L82	F148	N209	K274	I345	N481	N481	F548	6618	ASP	ASP	R812
SER	V83	F149	M209	K275	R346	N482	N482	T549	6619	VAL	VAL	V813
HIS	V83	S149	Y210	S275	F347	N483	N483	L548	6620	MET	MET	M814
GLY	T84	M150	T211	I276	T348	N484	N484	L549	6621	HIS	HIS	K815
GLY	P85	D151	F214	P277	K349	N485	N485	L555	6622	GLU	GLU	V816
A23	T86	D152	H152	D278	T350	N486	N486	I556	6623	ASN	ASN	F817
L24	L87	H152	ASN	S279	P351	N487	N487	O557	6624	PRO	PRO	F818
Y25	I87	Y25	THR	L280	K352	N488	N488	M558	6625	MET	MET	L819
T26	T88	T26	THR	L281	I353	N489	N489	F559	6626	GLY	GLY	D820
L27	L89	L27	R189	T281	F354	N490	N490	G560	6627	TYR	TYR	R821
L28	P90	P90	S189	K282	K355	N491	N491	S561	6628	THR	THR	V822
T29	A91	MET	LYS	L282	K356	N492	N492	A561	6629	CYS	CYS	F823
P30	T96	P30	M101	P284	E361	N493	N493	L562	6630	THR	THR	K753
A1624	D97	M158	L161	L285	L362	N494	N494	M563	6631	GLU	GLU	K754
L1625	V32	K159	V161	L286	L363	N495	N495	K564	6632	LYS	LYS	L755
Q1626	L33	T160	V161	L287	L364	N496	N496	L565	6633	ARG	ARG	L756
L1627	L33	T160	S223	L288	V365	N497	N497	I566	6634	ALA	ALA	V757
K1628	R34	R34	P224	L289	V366	N498	N498	K566	6635	ALA	ALA	V758
Y1629	T35	E164	E225	L290	L367	N499	N499	L567	6636	LYS	LYS	V759
N1630	D36	F165	V226	L291	L368	N500	N500	D570	6637	ILE	ILE	K760
F1631	E39	Q166	Q229	L306	V369	N501	N501	L577	6638	GLN	GLN	D761
Y1635	Q40	I167	P230	L307	V370	N502	N502	L578	6639	GLY	GLY	L762
I1636	I41	P168	P231	L309	V371	N503	N503	A573	6640	GLY	GLY	L763
Y1637	L42	E169	S231	V310	V372	N504	N504	R574	6641	ASP	ASP	E764
P1638	V43	G170	E232	G311	V373	N505	N505	V575	6642	ALA	ALA	E765
D1639	E44	I171	K233	H312	E382	N506	N506	G576	6643	ALA	ALA	R833
L1640	A45	L172	F234	H313	A383	N507	N507	L577	6644	CYS	CYS	R834
S1641	H46	V173	F235	L306	D370	N508	N508	H578	6645	LYS	LYS	L835
L1642	G47	R114	Y236	L307	P378	N509	N509	A579	6646	ALA	ALA	L836
T1643	D48	L115	I237	L309	V379	N510	N510	V580	6647	ALA	ALA	L837
W1644	S49	E116	D238	V310	V379	N511	N511	D581	6648	PHE	PHE	H837
I1645	S49	E116	G239	G311	V380	N512	N512	K582	6649	LEU	LEU	N838
E1646	P51	V118	E241	H312	E383	N513	N513	L583	6650	ARG	ARG	Y839
Y1647	K62	V119	N242	H313	A383	N514	N514	V584	6651	ARG	ARG	M840
W1648	Q63	L120	N243	L314	F384	N515	N515	F585	6652	ARG	ARG	B841
P1649	L54	L121	H244	Y315	H385	N516	N516	V586	6653	ARG	ARG	B842
R1650	D55	S122	I247	S317	H386	N517	N517	L587	6654	TYR	TYR	D843
D1651	I56	Y123	T248	V318	K387	N518	N518	M588	6655	ILE	ILE	I844
P1652	F57	Q124	A249	V319	M387	N519	N519	F589	6656	LYS	LYS	V845
T1653	V68	S125	A249	T319	D388	N520	N520	L590	6657	VAL	VAL	R847
C1654	H59	S126	R250	M321	L460	N521	N521	S591	6658	ARG	ARG	V848
F1660	D60	F127	L488	Y251	P461	N522	N522	L592	6659	ASP	ASP	E849
	F61	P189	L252	T322		N523	N523	O593	6660	GLU	GLU	L850



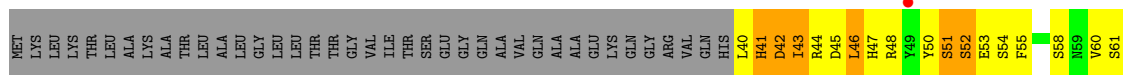
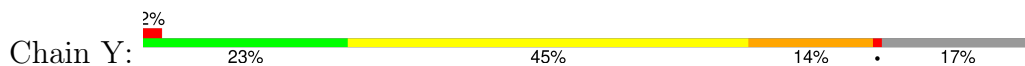


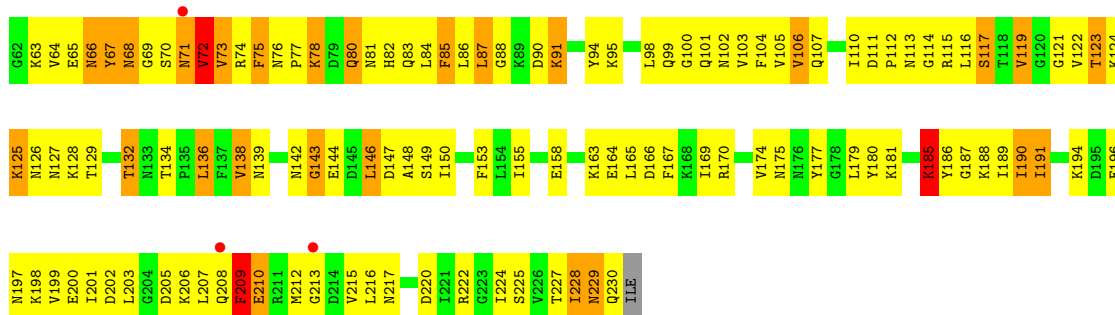


• Molecule 3: Superantigen-like protein 7



• 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% 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% 50%

MAG1  
MAG2

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 2 2 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	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) 96.8 (49.21-4.30)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.14	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.83 (at 4.29Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486)	Depositor
R, $R_{free}$	0.208 , 0.261 0.195 , 0.246	Depositor DCC
$R_{free}$ test set	1818 reflections (2.33%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	116.2	Xtrriage
Anisotropy	0.456	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 227.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.29$	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 <sup>2</sup> )	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.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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	0.77	5/13151 (0.0%)	1.16	78/17841 (0.4%)
1	C	0.76	4/13151 (0.0%)	1.16	94/17841 (0.5%)
2	B	0.67	0/9833	1.09	58/13345 (0.4%)
2	D	0.69	0/9833	1.11	57/13345 (0.4%)
3	X	0.59	2/1560 (0.1%)	1.02	8/2096 (0.4%)
3	Y	0.61	0/1560	1.04	8/2096 (0.4%)
All	All	0.72	11/49088 (0.0%)	1.13	303/66564 (0.5%)

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 (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	X	210	GLU	C-N	8.37	1.46	1.33
1	A	1002	HIS	ND1-CE1	-6.45	1.26	1.32
1	A	1002	HIS	CG-ND1	6.32	1.45	1.38
1	C	33	VAL	CA-CB	-6.30	1.48	1.54
1	A	1016	VAL	CA-CB	-6.17	1.51	1.54
1	C	756	THR	CA-CB	5.88	1.63	1.53
1	A	756	THR	CA-CB	5.42	1.62	1.53
1	C	657	ALA	N-CA	-5.17	1.39	1.46
1	C	510	ILE	CA-CB	-5.16	1.47	1.54
3	X	199	VAL	C-N	5.05	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1365	VAL	CA-CB	-5.03	1.47	1.54

All (303) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	657	ALA	N-CA-C	-11.21	99.06	111.28
2	B	853	ASN	CA-C-N	11.21	130.99	119.56
2	B	853	ASN	C-N-CA	11.21	130.99	119.56
2	D	853	ASN	CA-C-N	11.10	130.88	119.56
2	D	853	ASN	C-N-CA	11.10	130.88	119.56
1	C	657	ALA	N-CA-C	-10.43	99.72	111.71
1	A	625	GLN	OE1-CD-NE2	-10.41	112.19	122.60
1	C	625	GLN	OE1-CD-NE2	-10.39	112.20	122.60
3	Y	209	PHE	N-CA-C	10.19	124.97	112.54
3	X	209	PHE	N-CA-C	10.15	124.92	112.54
1	C	1003	LEU	CA-C-N	9.75	132.03	119.84
1	C	1003	LEU	C-N-CA	9.75	132.03	119.84
1	C	613	GLN	OE1-CD-NE2	-9.54	113.06	122.60
1	A	613	GLN	OE1-CD-NE2	-9.53	113.07	122.60
2	D	820	MET	CA-C-N	9.42	131.61	119.84
2	D	820	MET	C-N-CA	9.42	131.61	119.84
2	B	952	ASP	N-CA-C	-9.36	101.40	112.92
1	A	1003	LEU	CA-C-N	9.19	131.33	119.84
1	A	1003	LEU	C-N-CA	9.19	131.33	119.84
2	B	820	MET	CA-C-N	9.06	131.17	119.84
2	B	820	MET	C-N-CA	9.06	131.17	119.84
3	Y	208	GLN	OE1-CD-NE2	-9.02	113.58	122.60
3	X	208	GLN	OE1-CD-NE2	-8.99	113.61	122.60
1	C	1037	ASP	CA-C-N	8.87	130.92	119.84
1	C	1037	ASP	C-N-CA	8.87	130.92	119.84
2	D	952	ASP	N-CA-C	-8.84	102.05	112.92
2	D	1432	HIS	N-CA-C	-8.74	102.17	112.92
1	A	1037	ASP	CA-C-N	8.74	130.76	119.84
1	A	1037	ASP	C-N-CA	8.74	130.76	119.84
1	A	190	ILE	CA-C-N	-8.69	108.98	119.84
1	A	190	ILE	C-N-CA	-8.69	108.98	119.84
3	Y	71	ASN	N-CA-C	8.61	119.27	107.73
3	X	71	ASN	N-CA-C	8.55	119.19	107.73
2	D	138	THR	CA-C-N	-8.48	111.24	119.89
2	D	138	THR	C-N-CA	-8.48	111.24	119.89
1	C	290	THR	N-CA-C	-8.29	103.36	113.97
2	B	1432	HIS	N-CA-C	-8.25	102.77	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1561	TYR	N-CA-C	8.15	121.03	108.07
2	B	347	PHE	CB-CA-C	-8.14	95.88	109.55
1	A	193	ASN	CA-C-N	8.13	128.01	120.21
1	A	193	ASN	C-N-CA	8.13	128.01	120.21
1	C	1561	TYR	N-CA-C	8.03	120.84	108.07
2	B	138	THR	CA-C-N	-8.02	111.52	119.78
2	B	138	THR	C-N-CA	-8.02	111.52	119.78
1	C	190	ILE	CA-C-N	-7.92	109.94	119.84
1	C	190	ILE	C-N-CA	-7.92	109.94	119.84
2	B	50	THR	CA-C-N	7.88	129.69	119.84
2	B	50	THR	C-N-CA	7.88	129.69	119.84
2	D	50	THR	CA-C-N	7.88	129.69	119.84
2	D	50	THR	C-N-CA	7.88	129.69	119.84
2	B	1421	VAL	N-CA-C	-7.86	103.56	113.22
1	A	290	THR	N-CA-C	-7.83	103.95	113.97
2	B	113	VAL	N-CA-C	7.82	118.68	108.35
1	A	342	ILE	CA-C-N	7.75	127.47	119.64
1	A	342	ILE	C-N-CA	7.75	127.47	119.64
1	C	629	LYS	CA-C-N	7.71	130.94	120.38
1	C	629	LYS	C-N-CA	7.71	130.94	120.38
2	D	347	PHE	CB-CA-C	-7.71	96.60	109.55
2	D	558	MET	CA-C-N	7.70	129.46	119.84
2	D	558	MET	C-N-CA	7.70	129.46	119.84
1	C	1374	VAL	N-CA-C	7.64	114.38	106.21
1	A	718	ILE	N-CA-C	7.53	118.73	107.51
1	C	193	ASN	CA-C-N	7.52	127.43	120.21
1	C	193	ASN	C-N-CA	7.52	127.43	120.21
2	B	558	MET	CA-C-N	7.51	129.23	119.84
2	B	558	MET	C-N-CA	7.51	129.23	119.84
1	C	1224	ILE	CB-CA-C	-7.41	104.19	111.30
1	C	987	ILE	CB-CA-C	-7.38	102.35	111.87
2	D	1582	LEU	N-CA-C	-7.37	98.75	109.59
2	D	587	LEU	CA-C-N	-7.29	111.41	123.37
2	D	587	LEU	C-N-CA	-7.29	111.41	123.37
1	A	849	ARG	N-CA-C	7.24	119.32	110.41
2	D	113	VAL	N-CA-C	7.23	119.15	108.45
2	D	1421	VAL	N-CA-C	-7.22	104.34	113.22
1	A	364	LYS	CA-C-N	7.22	126.98	119.76
1	A	364	LYS	C-N-CA	7.22	126.98	119.76
1	A	930	VAL	CA-C-N	7.21	128.85	119.84
1	A	930	VAL	C-N-CA	7.21	128.85	119.84
1	C	849	ARG	N-CA-C	7.18	119.24	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	987	ILE	CB-CA-C	-7.12	102.68	111.87
2	D	229	GLN	CA-C-N	7.06	127.02	120.03
2	D	229	GLN	C-N-CA	7.06	127.02	120.03
1	A	46	TYR	N-CA-C	7.05	118.94	110.19
2	B	587	LEU	CA-C-N	-7.05	111.80	123.37
2	B	587	LEU	C-N-CA	-7.05	111.80	123.37
2	B	1351	ASN	N-CA-C	7.01	119.62	110.43
1	C	871	PRO	N-CA-C	-6.99	106.60	114.92
2	B	588	ASN	N-CA-C	6.92	120.86	107.71
2	D	580	VAL	N-CA-C	6.88	118.21	108.17
2	D	1351	ASN	N-CA-C	6.87	119.43	110.43
1	C	342	ILE	CA-C-N	6.86	126.57	119.64
1	C	342	ILE	C-N-CA	6.86	126.57	119.64
1	C	667	GLU	CA-C-N	6.85	126.09	118.97
1	C	667	GLU	C-N-CA	6.85	126.09	118.97
1	C	433	PHE	N-CA-C	6.84	118.50	108.86
1	A	625	GLN	CG-CD-NE2	6.82	126.63	116.40
1	C	625	GLN	CG-CD-NE2	6.82	126.62	116.40
1	C	613	GLN	CG-CD-NE2	6.75	126.53	116.40
1	A	613	GLN	CG-CD-NE2	6.74	126.51	116.40
1	A	165	ASP	CA-CB-CG	6.74	119.34	112.60
2	B	206	SER	CA-C-N	6.74	128.27	119.84
2	B	206	SER	C-N-CA	6.74	128.27	119.84
1	C	934	VAL	N-CA-C	6.74	119.42	108.97
1	A	1474	CYS	N-CA-C	6.72	119.42	107.80
1	A	556	SER	N-CA-C	6.71	116.91	108.45
1	C	364	LYS	CA-C-N	6.68	126.64	119.76
1	C	364	LYS	C-N-CA	6.68	126.64	119.76
1	A	1224	ILE	CB-CA-C	-6.65	104.91	111.30
1	A	433	PHE	N-CA-C	6.65	118.23	108.86
1	C	930	VAL	CA-C-N	6.61	128.10	119.84
1	C	930	VAL	C-N-CA	6.61	128.10	119.84
2	B	815	PHE	N-CA-C	6.61	117.19	107.88
2	D	588	ASN	N-CA-C	6.60	120.25	107.71
3	Y	208	GLN	CG-CD-NE2	6.59	126.28	116.40
1	C	734	VAL	N-CA-C	6.57	117.36	110.72
3	X	208	GLN	CG-CD-NE2	6.56	126.23	116.40
1	C	535	VAL	N-CA-C	6.53	120.19	112.35
1	A	871	PRO	CA-N-CD	-6.52	102.87	112.00
1	C	556	SER	N-CA-C	6.51	116.66	108.45
2	B	229	GLN	CA-C-N	6.51	126.47	120.03
2	B	229	GLN	C-N-CA	6.51	126.47	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	718	ILE	N-CA-C	6.48	117.17	107.51
1	C	963	ILE	CA-C-N	6.48	126.70	119.90
1	C	963	ILE	C-N-CA	6.48	126.70	119.90
2	B	402	ILE	CA-C-N	6.46	126.48	119.89
2	B	402	ILE	C-N-CA	6.46	126.48	119.89
1	C	1601	ILE	N-CA-C	6.40	117.07	108.11
1	C	1374	VAL	CB-CA-C	-6.39	106.06	113.22
2	D	126	SER	N-CA-C	6.37	116.26	107.73
1	A	1477	PHE	N-CA-C	6.35	118.18	108.52
2	B	580	VAL	N-CA-C	6.33	116.71	108.35
2	D	105	VAL	N-CA-C	6.29	116.92	108.11
2	D	206	SER	CA-C-N	6.27	127.68	119.84
2	D	206	SER	C-N-CA	6.27	127.68	119.84
2	B	126	SER	N-CA-C	6.22	116.07	107.73
1	C	92	LEU	CA-C-N	6.21	127.60	119.84
1	C	92	LEU	C-N-CA	6.21	127.60	119.84
1	A	1584	ILE	N-CA-C	6.20	117.21	111.45
1	C	166	PRO	CA-N-CD	-6.19	103.33	112.00
2	D	815	PHE	N-CA-C	6.19	116.61	107.88
1	C	1474	CYS	N-CA-C	6.18	118.49	107.80
2	B	1582	LEU	N-CA-C	-6.16	100.53	109.59
3	Y	52	SER	N-CA-C	6.16	118.28	110.33
1	A	1467	ILE	N-CA-C	-6.16	103.33	108.63
3	Y	41	HIS	N-CA-C	6.15	119.01	109.60
1	C	769	PHE	CA-C-N	6.12	126.09	120.21
1	C	769	PHE	C-N-CA	6.12	126.09	120.21
2	D	355	LYS	CA-C-N	6.11	126.06	119.76
2	D	355	LYS	C-N-CA	6.11	126.06	119.76
1	C	1541	LEU	N-CA-C	-6.11	100.05	109.76
1	A	1150	ILE	N-CA-C	6.02	116.08	110.42
1	A	667	GLU	CA-C-N	6.01	125.22	118.97
1	A	667	GLU	C-N-CA	6.01	125.22	118.97
1	C	1361	VAL	CB-CA-C	-6.00	104.42	111.09
1	C	1327	LYS	N-CA-C	-5.97	102.66	110.53
1	C	626	PHE	CA-CB-CG	5.95	119.75	113.80
1	A	535	VAL	N-CA-C	5.93	119.47	112.35
1	A	626	PHE	CA-CB-CG	5.93	119.73	113.80
1	C	1150	ILE	N-CA-C	5.93	115.99	110.42
2	D	1506	ILE	N-CA-C	5.93	115.27	106.85
1	C	46	TYR	N-CA-C	5.92	117.53	110.19
1	A	1178	ASN	N-CA-C	5.91	121.15	113.88
1	A	489	LYS	N-CA-C	5.90	123.36	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1619	ILE	CA-C-N	-5.90	113.70	123.37
1	A	1619	ILE	C-N-CA	-5.90	113.70	123.37
3	X	41	HIS	N-CA-C	5.88	118.60	109.60
1	C	1530	ALA	N-CA-C	-5.88	102.61	110.55
1	C	865	ILE	N-CA-C	5.86	117.31	107.18
1	A	92	LEU	CA-C-N	5.85	127.15	119.84
1	A	92	LEU	C-N-CA	5.85	127.15	119.84
1	A	1541	LEU	N-CA-C	-5.84	100.48	109.76
2	B	169	GLU	N-CA-C	-5.82	105.07	111.82
2	B	366	VAL	N-CA-C	5.80	115.95	106.72
2	D	402	ILE	CA-C-N	5.80	125.81	119.89
2	D	402	ILE	C-N-CA	5.80	125.81	119.89
2	D	1353	HIS	N-CA-C	5.75	119.01	109.46
1	C	600	VAL	N-CA-C	5.75	116.16	108.11
3	Y	213	GLY	N-CA-C	-5.74	107.80	115.32
1	A	629	LYS	N-CA-C	-5.74	105.38	112.38
3	X	52	SER	N-CA-C	5.73	117.72	110.33
1	C	1218	VAL	N-CA-C	5.72	115.80	108.82
2	B	570	ASP	CA-C-N	5.72	125.73	119.90
2	B	570	ASP	C-N-CA	5.72	125.73	119.90
2	B	489	ILE	CB-CA-C	-5.72	104.51	111.88
1	C	1477	PHE	N-CA-C	5.70	117.76	108.76
1	A	631	ASP	N-CA-C	5.69	117.34	109.15
2	B	753	LYS	N-CA-C	-5.67	107.00	114.31
1	C	397	VAL	N-CA-C	-5.64	104.00	111.05
2	B	89	ILE	CB-CA-C	-5.63	104.81	110.89
1	A	1618	LEU	N-CA-C	-5.62	101.32	110.20
2	D	753	LYS	N-CA-C	-5.62	107.06	114.31
1	A	934	VAL	CB-CA-C	-5.61	103.32	111.68
2	B	137	TYR	N-CA-C	5.61	118.59	109.06
1	A	734	VAL	N-CA-C	5.59	116.36	110.72
1	A	416	GLY	N-CA-C	-5.55	106.34	114.61
1	C	489	LYS	N-CA-C	5.55	122.62	110.80
1	A	934	VAL	N-CA-C	5.55	117.89	109.12
1	A	71	VAL	CB-CA-C	-5.54	103.63	111.28
2	D	919	GLY	N-CA-C	-5.54	106.69	111.95
2	B	844	ILE	N-CA-C	5.54	117.89	108.86
2	D	543	THR	N-CA-C	5.52	117.64	109.69
1	C	758	LEU	CA-C-N	5.51	126.73	119.84
1	C	758	LEU	C-N-CA	5.51	126.73	119.84
1	A	1269	PRO	N-CA-C	-5.51	105.82	113.81
2	B	543	THR	N-CA-C	5.50	117.61	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	974	LYS	N-CA-C	5.49	117.47	108.52
2	D	366	VAL	N-CA-C	5.49	115.46	106.72
3	X	189	ILE	CB-CA-C	-5.49	104.20	110.73
1	C	875	HIS	N-CA-C	5.47	117.55	108.13
1	A	758	LEU	CA-C-N	5.47	126.68	119.84
1	A	758	LEU	C-N-CA	5.47	126.68	119.84
1	C	535	VAL	CB-CA-C	-5.46	106.85	114.00
1	A	39	ILE	N-CA-C	5.45	115.74	108.11
1	C	59	TYR	CA-C-N	5.44	126.64	119.84
1	C	59	TYR	C-N-CA	5.44	126.64	119.84
1	A	929	VAL	N-CA-C	5.42	117.69	108.86
2	B	1591	LEU	CA-C-N	5.41	126.61	119.84
2	B	1591	LEU	C-N-CA	5.41	126.61	119.84
2	D	259	GLY	N-CA-C	5.41	119.59	111.42
2	D	765	GLU	CA-C-N	5.41	125.40	120.21
2	D	765	GLU	C-N-CA	5.41	125.40	120.21
2	D	1591	LEU	CA-C-N	5.39	126.58	119.84
2	D	1591	LEU	C-N-CA	5.39	126.58	119.84
1	A	490	SER	CA-C-N	-5.38	114.05	120.13
1	A	490	SER	C-N-CA	-5.38	114.05	120.13
1	C	524	GLN	N-CA-C	5.38	115.13	108.19
2	D	89	ILE	CB-CA-C	-5.37	105.09	110.89
2	D	1636	THR	N-CA-C	-5.37	104.47	111.02
2	B	355	LYS	CA-C-N	5.36	125.62	119.83
2	B	355	LYS	C-N-CA	5.36	125.62	119.83
1	A	1180	LEU	N-CA-C	5.35	119.52	112.35
1	A	875	HIS	N-CA-C	5.34	117.31	108.13
1	C	166	PRO	CA-C-N	-5.33	113.05	123.13
1	C	166	PRO	C-N-CA	-5.33	113.05	123.13
2	B	1332	GLN	N-CA-C	5.33	122.16	110.80
2	B	105	VAL	N-CA-C	5.33	115.57	108.11
1	C	670	LYS	N-CA-C	5.31	117.56	108.90
2	D	1595	ASP	CA-CB-CG	-5.31	107.29	112.60
2	B	1595	ASP	CA-CB-CG	-5.30	107.30	112.60
1	A	484	ILE	N-CA-C	5.30	115.48	107.80
3	Y	75	PHE	N-CA-C	5.29	117.00	108.32
1	A	1327	LYS	N-CA-C	-5.29	103.54	110.53
2	B	101	ASN	N-CA-C	5.29	117.09	108.63
2	D	1332	GLN	N-CA-C	5.29	122.06	110.80
1	C	296	ILE	N-CA-C	5.27	117.34	108.81
1	C	97	ASN	CA-C-N	5.27	126.61	120.98
1	C	97	ASN	C-N-CA	5.27	126.61	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	1384	ILE	N-CA-C	5.26	115.70	108.12
1	C	1309	LEU	N-CA-C	5.26	116.88	108.41
1	A	97	ASN	CA-C-N	5.26	126.41	119.84
1	A	97	ASN	C-N-CA	5.26	126.41	119.84
1	A	207	GLU	N-CA-C	5.23	117.81	109.81
1	C	655	THR	N-CA-C	5.23	121.95	110.80
2	D	485	ASN	N-CA-C	5.22	116.46	108.52
1	A	655	THR	N-CA-C	5.22	121.91	110.80
2	D	751	PHE	CA-C-N	-5.21	113.32	119.84
2	D	751	PHE	C-N-CA	-5.21	113.32	119.84
2	D	575	VAL	N-CA-C	5.21	115.47	108.17
1	C	375	VAL	CB-CA-C	-5.21	105.55	111.59
2	B	1353	HIS	N-CA-C	5.20	118.09	109.46
2	B	1634	THR	N-CA-C	5.20	116.64	110.97
2	D	489	ILE	CB-CA-C	-5.20	105.17	111.88
1	C	59	TYR	N-CA-C	5.19	121.29	109.81
1	C	132	LYS	CA-C-N	-5.19	113.35	119.84
1	C	132	LYS	C-N-CA	-5.19	113.35	119.84
1	A	1253	TYR	N-CA-C	-5.19	105.62	111.28
2	D	137	TYR	N-CA-C	5.19	117.89	109.06
1	A	932	GLU	N-CA-C	5.17	117.06	107.60
2	B	259	GLY	N-CA-C	5.17	119.23	111.42
3	X	75	PHE	N-CA-C	5.17	116.80	108.32
1	C	165	ASP	CA-CB-CG	5.17	117.77	112.60
1	C	1331	LYS	N-CA-C	-5.16	106.80	114.64
1	C	535	VAL	CA-C-N	-5.16	113.61	118.97
1	C	535	VAL	C-N-CA	-5.16	113.61	118.97
2	B	466	VAL	CB-CA-C	-5.15	104.69	111.70
1	A	600	VAL	N-CA-C	5.14	115.31	108.11
1	A	165	ASP	CB-CA-C	5.14	120.29	110.17
1	C	1269	PRO	N-CA-C	-5.12	106.39	113.81
1	A	182	ILE	CB-CA-C	-5.12	104.80	111.81
1	C	527	ASN	CA-C-N	-5.12	117.70	123.02
1	C	527	ASN	C-N-CA	-5.12	117.70	123.02
1	C	1178	ASN	N-CA-C	5.09	120.15	113.88
2	D	169	GLU	N-CA-C	-5.09	105.81	111.36
2	B	765	GLU	CA-C-N	5.07	125.08	120.21
2	B	765	GLU	C-N-CA	5.07	125.08	120.21
2	B	368	ASN	CA-C-N	5.07	126.18	119.84
2	B	368	ASN	C-N-CA	5.07	126.18	119.84
1	C	1467	ILE	N-CA-C	-5.07	104.27	108.63
1	A	397	VAL	N-CA-C	-5.06	104.73	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	855	PHE	N-CA-C	5.06	116.53	108.79
1	C	490	SER	CA-C-N	-5.05	114.60	119.90
1	C	490	SER	C-N-CA	-5.05	114.60	119.90
1	C	1584	ILE	N-CA-C	5.05	116.93	111.58
2	D	570	ASP	CA-C-N	5.05	126.15	119.84
2	D	570	ASP	C-N-CA	5.05	126.15	119.84
1	A	535	VAL	CB-CA-C	-5.04	107.40	114.00
1	A	1309	LEU	N-CA-C	5.03	116.51	108.41
1	C	1482	LEU	N-CA-C	-5.03	105.80	111.28
1	A	530	VAL	N-CA-C	5.03	115.92	108.23
2	B	357	GLY	N-CA-C	-5.03	106.14	114.48
2	B	341	SER	CA-C-N	5.02	125.46	120.04
2	B	341	SER	C-N-CA	5.02	125.46	120.04
1	C	207	GLU	N-CA-C	5.02	117.49	109.81

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	1934	0
1	C	12874	0	12814	1984	0
2	B	9635	0	9630	1143	0
2	D	9635	0	9630	1135	0
3	X	1539	0	1530	175	0
3	Y	1539	0	1530	200	0
4	E	28	0	25	3	0
4	F	28	0	25	4	0
4	G	28	0	25	4	0
4	H	28	0	25	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	14	0	13	1	0
5	C	14	0	13	2	0
All	All	48236	0	48074	6445	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 67.

All (6445) 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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:979:VAL:HG21	1:A:1326:TYR:CE1	1.86	1.08
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
2:B:469:ASN:HD22	2:B:469:ASN:C	1.65	1.03
2:D:469:ASN:C	2:D:469:ASN:HD22	1.66	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
1:A:1053:MET:HE2	1:A:1086:LEU:HD13	1.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1556:GLU:HB3	1:A:1622:LYS:HE2	1.43	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
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:C:1219:LYS:HZ3	1:C:1239:VAL:HG11	1.28	0.98
1:A:128:ILE:HG22	1:A:145:VAL:HG22	1.40	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
3:Y:194:LYS:HZ2	3:Y:197:ASN:HB2	1.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:234:GLU:HG3	1:A:235:TYR:CD2	2.00	0.96
2:B:563:MET:HE2	2:B:564:LYS:H	1.30	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:D:469:ASN:CG	2:D:472:SER:HB2	1.92	0.95
3:Y:166:ASP:CG	3:Y:207:LEU:CD2	2.38	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
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:A:530:VAL:HG23	1:A:534:MET:HE2	1.48	0.94
2:B:469:ASN:CG	2:B:472:SER:HB2	1.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:C:530:VAL:HG23	1:C:534:MET:HE2	1.51	0.92
2:B:482:LEU:HB3	2:B:492:VAL:HG23	1.48	0.92
3:Y:166:ASP:CG	3:Y:207:LEU:HD21	1.95	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
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:X:166:ASP:CG	3:X:207:LEU:CD2	2.42	0.91
1:A:1562:LYS:HD2	1:A:1648:TRP:CZ2	2.05	0.91
2:D:563:MET:HE2	2:D:564:LYS:H	1.32	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:A:481:HIS:CE1	2:B:387:MET:HE3	2.06	0.91
1:C:553:GLU:HA	1:C:658:ASN:HB2	1.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:1531:ASP:OD2	1:C:1531:ASP:C	2.14	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:696:LYS:HZ3	1:C:759:PRO:HD2	1.37	0.87
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
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:A:1163:LYS:HZ1	1:C:1109:GLU:CD	1.81	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
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
1:C:1053:MET:HE1	1:C:1085:VAL:HG12	1.57	0.86
2:D:168:PRO:HG3	2:D:196:THR:C	2.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:B:168:PRO:HG3	2:B:196:THR:C	2.01	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
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:C:1053:MET:HE2	1:C:1086:LEU:HD13	1.56	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:1068:VAL:HG21	1:C:1124:TYR:CD1	2.10	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
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
3:X:166:ASP:CG	3:X:207:LEU:HD21	2.01	0.85
1:A:127:PHE:HE2	1:A:623:VAL:HG13	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1386:MET:HE2	2:D:1386:MET:HA	1.59	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
2:B:1386:MET:HE2	2:B:1386:MET:HA	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:20:GLU:C	1:C:21:GLN:HG3	2.03	0.83
1:C:618:LYS:N	1:C:619:PRO:HD3	1.93	0.83
1:C:696:LYS:HZ3	1:C:759:PRO:CD	1.91	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
2:D:44:GLU:HG2	2:D:82:LEU:HB2	1.61	0.83
2:D:1391:LEU:HB2	2:D:1417:MET:HE2	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
2:B:1391:LEU:HB2	2:B:1417:MET:HE2	1.58	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
2:B:469:ASN:C	2:B:469:ASN:ND2	2.37	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:546:VAL:O	1:A:553:GLU:HB3	1.78	0.82
1:A:1053:MET:HE1	1:A:1085:VAL:HG12	1.62	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:20:GLU:C	1:A:21:GLN:HG3	2.04	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:1020:TYR:HE1	1:C:1295:GLU:HG3	1.45	0.81
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:820:MET:HE2	2:B:832:ILE:HD13	1.63	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
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
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
1:A:1053:MET:HE2	1:A:1086:LEU:CD1	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:549:GLU:CD	1:C:550:GLN:H	1.89	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
2:D:469:ASN:C	2:D:469:ASN:ND2	2.39	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
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:820:MET:HE2	2:D:832:ILE:HD13	1.63	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:993:SER:C	1:C:995:GLU:H	1.91	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
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
1:A:700:TYR:HD2	1:A:700:TYR:C	1.92	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
2:D:1505:ARG:CZ	2:D:1623:LYS:HZ1	1.97	0.77
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1527:CYS:C	1:C:1529:GLU:N	2.34	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:993:SER:C	1:A:995:GLU:H	1.93	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:700:TYR:HD2	1:C:700:TYR:C	1.92	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
1:C:471:ASP:OD2	1:C:474:LYS:HB3	1.84	0.77
3:X:68:ASN:CG	3:X:69:GLY:H	1.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:Y:68:ASN:CG	3:Y:69:GLY:H	1.93	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
1:A:491:PRO:O	1:A:492:TYR:C	2.28	0.76
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:1525:CYS:C	1:A:1528:VAL:HG22	2.12	0.75
1:C:180:ILE:HB	1:C:599:TRP:CZ3	2.22	0.75
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
3:Y:136:LEU:HG	3:Y:136:LEU:O	1.84	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:491:PRO:O	1:C:492:TYR:C	2.26	0.75
1:C:1104:LEU:O	1:C:1108:VAL:HG12	1.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:869:GLU:C	1:C:871:PRO:HD3	2.11	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: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
3:Y:80:GLN:HG3	3:Y:114:GLY:C	2.12	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
1:C:961:TYR:HE2	1:C:1343:ASN:HA	1.53	0.74
1:A:700:TYR:C	1:A:700:TYR:CD2	2.64	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:C:1019:PHE:C	1:C:1019:PHE:CD2	2.65	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1053:MET:HE1	1:C:1085:VAL:CG1	2.18	0.74
1:C:1304:VAL:HG12	1:C:1305:LYS:N	2.01	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:549:GLU:CD	1:A:549:GLU:H	1.96	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
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:382:LEU:HD13	1:C:415:ASP:C	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:698:CYS:C	1:A:700:TYR:H	1.97	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:222:TYR:HD2	1:C:222:TYR:C	1.97	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:Y:207:LEU:HD12	3:Y:207:LEU:C	2.14	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:C:700:TYR:C	1:C:700:TYR:CD2	2.63	0.72
1:C:938:SER:C	1:C:940:SER:H	1.96	0.72
1:A:1560:ALA:HB3	1:A:1585:TYR:CE2	2.25	0.72
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
3:X:80:GLN:HG3	3:X:114:GLY:C	2.15	0.72
1:A:373:VAL:HG23	1:A:418:ALA:HB3	1.70	0.72
1:A:1019:PHE:C	1:A:1019:PHE:CD2	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:64:VAL:HG11	3:X:95:LYS:O	1.90	0.72
3:Y:166:ASP:CG	3:Y:207:LEU:HD23	2.14	0.72
1:A:222:TYR:HD2	1:A:222:TYR:C	1.98	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
2:B:1602:THR:C	2:B:1604:ASN:H	1.97	0.72
1:C:596:MET:HA	1:C:782:ARG:HG2	1.70	0.72
1:C:1493:PHE:CD1	1:C:1493:PHE:C	2.67	0.72
1:A:704:CYS:C	1:A:739:ARG:HH22	1.98	0.71
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: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: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
1:C:222:TYR:C	1:C:222:TYR:CD2	2.68	0.71
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:LEU:HD23	1:A:225:PRO:HD2	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: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:690:TYR:C	1:C:692:HIS:H	1.98	0.71
1:C:906:GLY:O	1:C:908:HIS:CE1	2.44	0.71
2:D:1602:THR:C	2:D:1604:ASN:H	1.99	0.71
1:A:774:LEU:HD12	1:A:799:ILE:HD11	1.71	0.71
2:B:1606:TRP:CD1	2:B:1606:TRP:C	2.69	0.71
1:C:961:TYR:CE2	1:C:1343:ASN:HA	2.25	0.71
3:X:166:ASP:CG	3:X:207:LEU:HD23	2.14	0.71
3:Y:205:ASP:O	3:Y:206:LYS:C	2.33	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:489:LYS:CG	1:A:490:SER:N	2.53	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:45:ALA:HB3	2:B:81:MET:HE3	1.72	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:698:CYS:C	1:C:700:TYR:H	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:481:HIS:CE1	2:D:387:MET:HE3	2.25	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
1:A:869:GLU:C	1:A:871:PRO:HD3	2.15	0.70
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
2:B:523:TYR:CD1	2:B:523:TYR:C	2.68	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
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: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
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:704:CYS:C	1:C:739:ARG:HH22	2.00	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:975:ARG:NH2	1:C:1346:LEU:HD22	2.06	0.70
2:D:262:PHE:HE1	2:D:282:ARG:HG3	1.56	0.70
2:D:1445:HIS:CG	2:D:1446:PHE:N	2.59	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
2:D:282:ARG:C	2:D:283:ILE:HD12	2.17	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:222:TYR:C	1:A:222:TYR:CD2	2.70	0.69
1:A:587:THR:HG22	1:A:789:ALA:HB2	1.72	0.69
1:A:865:ILE:O	1:A:866:CYS:C	2.35	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
2:D:557:GLN:HE21	2:D:563:MET:HE3	1.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:863:GLU:H	1:C:863:GLU:CD	2.00	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
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:690:TYR:C	1:A:692:HIS:H	2.00	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:563:MET:HE2	2:B:564:LYS:N	2.07	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:1429:PRO:HB2	1:A:1432:ILE:CG1	2.23	0.69
2:B:557:GLN:HE21	2:B:563:MET:HE3	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:X:205:ASP:O	3:X:206:LYS:C	2.33	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:523:TYR:C	2:D:523:TYR:CD1	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:D:1591:LEU:HD23	2:D:1591:LEU:C	2.19	0.68
3:X:73:VAL:HG23	3:X:74:ARG:N	2.07	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:693:SER:C	1:C:695:VAL:H	2.01	0.68
1:C:1226:ARG:CZ	1:C:1266:TYR:HE1	2.07	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
3:X:207:LEU:HD12	3:X:207:LEU:C	2.14	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:423:ASN:CG	2:D:504:VAL:HG22	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:A:1123:GLN:HA	1:A:1123:GLN:NE2	2.08	0.68
1:C:784:LYS:HG2	1:C:785:GLN:N	2.07	0.68
1:C:982:LEU:C	1:C:984:VAL:H	2.01	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: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: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
2:B:1591:LEU:C	2:B:1591:LEU:HD23	2.19	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:174:VAL:HG22	1:A:175:GLU:N	2.09	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
2:B:1623:LYS:HZ3	2:B:1623:LYS:HA	1.59	0.67
1:C:471:ASP:OD2	1:C:474:LYS:HD2	1.94	0.67
1:C:491:PRO:C	1:C:493:ILE:N	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1641:SER:C	1:C:1643:THR:H	2.03	0.67
1:A:88:GLN:O	1:A:90:LYS:HD3	1.94	0.67
1:A:1112:GLN:HE21	1:A:1171:ALA:HB2	1.59	0.67
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
1:C:1493:PHE:HD1	1:C:1493:PHE:C	2.00	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
1:C:1527:CYS:O	1:C:1528:VAL:C	2.36	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:938:SER:C	1:A:940:SER:H	2.01	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
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
2:D:384:PHE:O	2:D:385:HIS:C	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:623:VAL:O	1:C:624:PHE:C	2.38	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
1:A:20:GLU:O	1:A:20:GLU:CD	2.37	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
1:C:1535:MET:H	1:C:1608:ASN:HB3	1.60	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: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:583:SER:O	1:C:586:GLN:HG2	1.94	0.66
1:C:1323:LEU:HD12	1:C:1324:HIS:N	2.10	0.66
2:D:45:ALA:HB3	2:D:81:MET:HE3	1.77	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:317:ASP:C	1:A:319:ASN:H	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:ALA:O	1:C:291:MET:HE3	1.95	0.66
1:C:1226:ARG:HB3	1:C:1269:PRO:HB2	1.75	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:A:586:GLN:O	1:A:586:GLN:HG3	1.95	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
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
1:A:382:LEU:HD13	1:A:415:ASP:C	2.19	0.66
1:A:1076:THR:HG22	1:A:1120:GLU:CD	2.20	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
3:Y:41:HIS:O	3:Y:42:ASP:HB2	1.95	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:A:1641:SER:C	1:A:1643:THR:H	2.02	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
1:A:920:LYS:HZ3	2:B:842:GLU:CD	2.03	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:317:ASP:C	1:C:319:ASN:H	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:1417:MET:HG2	2:B:1443:LEU:HD23	1.76	0.66
1:C:20:GLU:O	1:C:20:GLU:CD	2.39	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
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:581:ASP:O	2:D:582:LYS:C	2.39	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:384:PHE:O	2:B:385:HIS:C	2.38	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
2:D:928:VAL:CG2	2:D:1323:MET:HE2	2.26	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:D:841:ASN:O	2:D:842:GLU:C	2.40	0.65
1:A:658:ASN:C	1:A:658:ASN:OD1	2.40	0.65
1:A:884:VAL:CG1	1:A:886:GLN:HG2	2.26	0.65
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
2:B:841:ASN:O	2:B:842:GLU:C	2.38	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
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:1487:PHE:O	1:C:1488:LEU:C	2.40	0.65
1:C:1564:SER:HB2	1:C:1616:GLN:HG3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:705:VAL:N	1:A:739:ARG:HH22	1.94	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
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:1053:MET:HE1	1:A:1085:VAL:CG1	2.25	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: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:928:VAL:HG21	2:D:1323:MET:HE2	1.78	0.65
2:D:1515:ALA:HB1	2:D:1523:VAL:HG21	1.79	0.65
1:A:931:PRO:HB2	1:A:1366:HIS:CD2	2.32	0.65
1:A:1128:LYS:C	1:A:1129:LEU:HD23	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:X:68:ASN:CG	3:X:69:GLY:N	2.55	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
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
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
3:X:136:LEU:HG	3:X:136:LEU:O	1.91	0.64
1:A:263:ALA:O	1:A:291:MET:HE3	1.97	0.64
1:A:1493:PHE:CD1	1:A:1493:PHE:C	2.73	0.64
1:C:429:THR:HA	1:C:456:ALA:HB2	1.80	0.64
1:A:820:PHE:O	1:A:821:LYS:HG3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1077:TRP:NE1	1:A:1147:PHE:CE1	2.66	0.64
1:A:1163:LYS:NZ	1:C:1109:GLU:CD	2.54	0.64
1:A:1504:GLN:HG3	1:A:1505:CYS:N	2.11	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: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
3:Y:68:ASN:CG	3:Y:69:GLY:N	2.55	0.64
1:A:583:SER:O	1:A:586:GLN:HG2	1.96	0.64
1:A:1493:PHE:HD1	1:A:1493:PHE:C	2.06	0.64
2:B:421:PRO:HB2	2:B:423:GLU:OE2	1.98	0.64
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:693:SER:C	1:A:695:VAL:H	2.05	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:A:1381:ILE:HG12	1:A:1382:ASP:N	2.12	0.64
1:C:436:LYS:HA	1:C:448:ALA:O	1.97	0.64
1:C:569:ASN:CG	1:C:570:GLN:H	2.06	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:491:PRO:C	1:A:493:ILE:N	2.51	0.64
1:A:1304:VAL:CG1	1:A:1305:LYS:N	2.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:D:1417:MET:HG2	2:D:1443:LEU:HD23	1.80	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
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:544:TYR:C	1:A:544:TYR:CD2	2.76	0.63
1:A:644:ASN:CG	1:A:648:LEU:HD12	2.23	0.63
1:A:671:GLU:O	1:A:672:ILE:HB	1.97	0.63
1:A:865:ILE:C	1:A:866:CYS:O	2.41	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:1076:THR:HG22	1:C:1120:GLU:CD	2.23	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:69:PHE:C	2:D:69:PHE:CD2	2.76	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:863:GLU:H	1:A:863:GLU:CD	2.07	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
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
1:A:60:PRO:HD2	1:A:61:ASP:N	2.08	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:134:VAL:C	1:A:135:TYR:HD2	2.07	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
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
3:X:111:ASP:CG	3:X:112:PRO:HD2	2.24	0.63
2:B:620:VAL:HG12	2:B:621:PHE:CD2	2.32	0.63
2:B:1500:LEU:CD1	2:B:1500:LEU:C	2.72	0.63
2:B:1500:LEU:HD11	2:B:1608:GLU:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:B:581:ASP:O	2:B:582:LYS:C	2.42	0.62
1:C:656:ASN:HB3	1:C:659:ALA:H	1.64	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
1:A:967:LEU:HD12	1:A:968:VAL:N	2.14	0.62
2:B:928:VAL:CG2	2:B:1323:MET:HE2	2.29	0.62
2:B:1607:ILE:HD12	2:B:1607:ILE:N	2.14	0.62
2:B:1628:PHE:O	2:B:1629:ALA:C	2.41	0.62
1:C:101:TYR:CE1	1:C:116:ARG:NH2	2.67	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:655:THR:O	1:C:656:ASN:C	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:55:SER:C	1:C:56:ILE:HD13	2.23	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: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:A:623:VAL:O	1:A:624:PHE:C	2.38	0.62
1:A:1221:ASN:HA	1:A:1222:PRO:C	2.23	0.62
1:C:23:TYR:C	1:C:655:THR:HG21	2.24	0.62
1:C:81:ASN:CG	1:C:82:SER:H	2.07	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
2:D:557:GLN:NE2	2:D:563:MET:HE3	2.14	0.62
2:D:563:MET:HE2	2:D:564:LYS:N	2.11	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
2:B:383:ALA:C	2:B:384:PHE:CD2	2.78	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:383:ALA:C	2:D:384:PHE:CD2	2.78	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
3:Y:78:LYS:HD2	3:Y:78:LYS:C	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:489:LYS:C	1:C:491:PRO:HD3	2.24	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:488:PRO:HG3	1:A:499:TYR:OH	2.00	0.62
1:A:1526:LYS:C	1:A:1529:GLU:HG3	2.24	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:543:THR:OG1	2:D:544:CYS:N	2.30	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
2:D:1542:MET:HE3	2:D:1583:ILE:HD11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:1549:LYS:HZ2	1:C:1667:PHE:HB3	1.65	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
2:D:913:LEU:HD23	2:D:913:LEU:C	2.24	0.61
3:X:53:GLU:HB3	3:X:55:PHE:CE2	2.35	0.61
1:A:544:TYR:C	1:A:544:TYR:HD2	2.08	0.61
1:A:596:MET:N	1:A:782:ARG:HH11	1.90	0.61
1:A:614:ARG:HD2	1:A:614:ARG:C	2.24	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:752:LEU:O	1:C:752:LEU:HG	1.99	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
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
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
1:C:1381:ILE:O	1:C:1382:ASP:HB3	2.00	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:X:78:LYS:HD2	3:X:78:LYS:C	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:512:PHE:C	1:A:512:PHE:CD2	2.77	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:779:LEU:HD12	1:A:779:LEU:C	2.25	0.61
1:A:868:SER:CA	1:A:1527:CYS:HB2	2.28	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
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: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
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
1:A:1054:LEU:HD23	1:A:1057:MET:HE2	1.81	0.61
2:B:103:TYR:CD2	2:B:120:LEU:HD13	2.35	0.61
2:B:484:LEU:HD11	2:B:626:LEU:HD11	1.83	0.61
2:B:913:LEU:HD23	2:B:913:LEU:C	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:928:VAL:HG21	2:B:1323:MET:HE2	1.82	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
1:A:1227:PHE:CD1	1:A:1227:PHE:C	2.78	0.61
2:B:219:TYR:CD1	2:B:220:VAL:N	2.69	0.61
2:B:557:GLN:NE2	2:B:563:MET:HE3	2.15	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
1:A:1094:GLU:CD	1:A:1094:GLU:H	2.07	0.61
1:A:1548:ARG:C	1:A:1550:GLN:H	2.09	0.61
2:B:599:TRP:CZ3	2:B:602:ILE:HD12	2.36	0.61
2:B:811:MET:HE1	2:B:839:TYR:HD2	1.65	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
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: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:489:LYS:C	1:A:491:PRO:HD3	2.26	0.60
1:A:655:THR:O	1:A:656:ASN:C	2.43	0.60
1:A:1535:MET:HA	1:A:1645:ILE:HB	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:D:829:GLN:NE2	2:D:883:VAL:HG13	2.10	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
2:B:282:ARG:C	2:B:283:ILE:HD12	2.25	0.60
1:C:162:THR:HB	1:C:173:MET:HE2	1.81	0.60
1:C:256:TYR:HD2	1:C:846:TYR:CE1	2.19	0.60
1:C:656:ASN:CG	1:C:658:ASN:HB3	2.26	0.60
1:C:873:ILE:HD12	1:C:873:ILE:O	2.01	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
3:Y:146:LEU:HD22	3:Y:146:LEU:C	2.26	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: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
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:1042:LYS:NZ	1:C:92:LEU:HD13	2.17	0.60
2:B:69:PHE:C	2:B:69:PHE:CD2	2.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1128:LYS:C	1:C:1129:LEU:HD23	2.27	0.60
1:C:1244:THR:H	1:C:1247:MET:HE3	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
2:D:1505:ARG:NE	2:D:1623:LYS:HZ2	1.99	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
2:B:1621:PHE:O	2:B:1622:GLN:C	2.43	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
2:D:1612:HIS:O	2:D:1613:GLU:C	2.44	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
1:C:1504:GLN:HG3	1:C:1505:CYS:N	2.09	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
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:549:GLU:CD	1:C:550:GLN:N	2.60	0.60
1:C:931:PRO:HG2	1:C:1366:HIS:NE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:X:125:LYS:HA	3:X:126:ASN:C	2.25	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
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
2:B:1606:TRP:C	2:B:1606:TRP:HD1	2.10	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:644:ASN:CG	1:C:648:LEU:HD12	2.26	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:614:ARG:HD2	1:C:614:ARG:C	2.24	0.60
1:C:1239:VAL:HG12	1:C:1239:VAL:O	2.02	0.60
2:D:818:LEU:HG	2:D:820:MET:HE3	1.83	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:171:VAL:HG22	1:C:1057:MET:HE1	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:25:ILE:HB	1:A:655:THR:HG23	1.84	0.59
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:276:ILE:O	2:B:277:PRO:C	2.45	0.59
2:B:523:TYR:HB3	2:B:533:ALA:HB2	1.83	0.59
2:B:1591:LEU:C	2:B:1591:LEU:CD2	2.75	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
3:Y:125:LYS:HA	3:Y:126:ASN:C	2.27	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
2:B:1542:MET:HE3	2:B:1583:ILE:HD11	1.83	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:179:LEU:HG	3:X:180:TYR:CD2	2.36	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:982:LEU:C	1:A:984:VAL:H	2.09	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:42:GLN:HE21	1:A:43:VAL:C	2.11	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
2:B:813:VAL:HG12	2:B:840:VAL:HG22	1.85	0.59
1:C:134:VAL:C	1:C:135:TYR:HD2	2.10	0.59
1:C:515:ARG:NH1	1:C:526:ILE:HG22	2.16	0.59
1:C:1053:MET:HE2	1:C:1086:LEU:CD1	2.30	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:494:ASP:CG	1:A:495:LYS:HE2	2.28	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
3:Y:111:ASP:CG	3:Y:112:PRO:HD2	2.27	0.59
1:A:361:LEU:HD12	1:A:361:LEU:N	2.16	0.59
1:A:656:ASN:CG	1:A:658:ASN:HB3	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1609:ARG:HG2	2:B:1609:ARG:HH11	1.68	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
2:D:811:MET:HE1	2:D:839:TYR:HD2	1.67	0.59
2:D:1591:LEU:C	2:D:1591:LEU:CD2	2.75	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:702:GLY:CA	1:A:728:PHE:CD1	2.85	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:1221:ASN:HA	1:C:1222:PRO:C	2.26	0.59
1:C:1450:PHE:HZ	1:C:1475:VAL:HB	1.66	0.59
2:D:503:LEU:HD23	2:D:503:LEU:C	2.28	0.59
2:D:922:LYS:HE3	2:D:1329:TYR:CZ	2.38	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:752:LEU:O	1:A:752:LEU:HG	2.02	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:C:171:VAL:CG2	1:C:1057:MET:HE1	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:883:CYS:O	1:A:884:VAL:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:512:PHE:CD2	1:C:512:PHE:C	2.75	0.58
1:C:975:ARG:NH1	1:C:1340:VAL:HG11	2.18	0.58
1:C:1094:GLU:H	1:C:1094:GLU:CD	2.11	0.58
1:C:1451:THR:O	1:C:1452:ASP:HB3	2.03	0.58
1:C:1527:CYS:C	1:C:1529:GLU:H	2.10	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: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:736:GLU:CD	2:B:737:ASP:H	2.11	0.58
2:B:1532:GLU:O	2:B:1539:ILE:HD12	2.04	0.58
1:C:42:GLN:HE21	1:C:43:VAL:C	2.10	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:950:TYR:C	1:C:952:THR:H	2.11	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
1:C:1548:ARG:C	1:C:1550:GLN:H	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:25:ILE:CD1	1:A:41:ILE:HB	2.33	0.58
1:A:134:VAL:C	1:A:135:TYR:CD2	2.81	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: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
1:C:979:VAL:C	1:C:980:LYS:HG2	2.28	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
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:818:LEU:HG	2:B:820:MET:HE3	1.84	0.58
1:C:938:SER:OG	1:C:1284:PHE:CZ	2.57	0.58
1:C:1054:LEU:HD23	1:C:1057:MET:HE2	1.86	0.58
1:C:1159:CYS:C	1:C:1161:LEU:H	2.11	0.58
1:C:1240:PRO:HB2	1:C:1242:THR:HG23	1.84	0.58
1:C:1268:ASN:H	1:C:1268:ASN:ND2	1.98	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: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:81:ASN:CG	1:A:82:SER:H	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:348:THR:HA	2:B:352:LYS:NZ	2.19	0.58
2:B:1624:LEU:HG	2:B:1628:PHE:CE1	2.38	0.58
1:C:149:ASN:O	1:C:150:ASP:C	2.46	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:1199:ASP:C	1:C:1201:THR:H	2.10	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
1:A:1333:PHE:CD1	1:A:1334:LEU:HD13	2.39	0.58
2:B:563:MET:HE2	2:B:563:MET:HA	1.85	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:916:THR:C	1:C:918:PHE:H	2.11	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:1370:THR:O	1:C:1371:SER:C	2.47	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:43:ILE:O	3:Y:44:ARG:C	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:850:LEU:HD12	2:B:851:LEU:N	2.19	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
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:1421:HIS:C	1:A:1421:HIS:CD2	2.78	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: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: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: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:149:ASN:O	1:A:150:ASP:C	2.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:461:SER:C	1:C:463:SER:H	2.12	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: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:1145:THR:O	1:A:1149:VAL:HG23	2.04	0.57
1:A:1572:ASN:C	1:A:1573:VAL:HG23	2.28	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:569:ASN:CG	1:C:570:GLN:N	2.62	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
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:481:TYR:HD2	2:B:481:TYR:C	2.10	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
1:C:938:SER:C	1:C:940:SER:N	2.58	0.57
2:D:519:ARG:CZ	2:D:608:GLY:HA3	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:658:ASN:C	1:C:658:ASN:OD1	2.47	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:736:GLU:CD	2:D:737:ASP:H	2.13	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:461:SER:C	1:A:463:SER:H	2.13	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:784:LYS:HG2	1:A:785:GLN:N	2.18	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
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:691:LYS:C	1:C:693:SER:H	2.11	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:920:LYS:NZ	2:B:842:GLU:CD	2.63	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:993:SER:C	1:C:995:GLU:N	2.59	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:641:ASN:O	1:A:642:ASN:C	2.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1268:ASN:N	1:A:1269:PRO:CD	2.67	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:571:LEU:HD23	1:A:812:ALA:HB2	1.87	0.57
1:C:610:TYR:N	1:C:610:TYR:CD1	2.71	0.57
2:D:1602:THR:C	2:D:1604:ASN:N	2.63	0.57
3:X:75:PHE:O	3:X:77:PRO:HD3	2.05	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:938:SER:C	1:A:940:SER:N	2.62	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
1:C:544:TYR:C	1:C:544:TYR:CD2	2.83	0.57
1:C:1525:CYS:C	1:C:1528:VAL:HG22	2.28	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:462:VAL:CG1	2:D:506:MET:HE3	2.35	0.57
2:D:481:TYR:HD2	2:D:481:TYR:C	2.12	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:543:TYR:CD1	1:A:543:TYR:C	2.81	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
1:A:1527:CYS:O	1:A:1528:VAL:C	2.48	0.56
2:B:476:ILE:CG2	2:B:476:ILE:O	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:779:LEU:C	1:C:779:LEU:HD12	2.30	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
2:D:1480:LEU:HD12	2:D:1480:LEU:C	2.28	0.56
3:X:150:ILE:HD12	3:X:150:ILE:C	2.30	0.56
1:A:1265:ASN:C	1:A:1267:VAL:H	2.12	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:1504:GLU:H	2:B:1504:GLU:CD	2.11	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:165:ASP:C	1:C:167:GLU:H	2.12	0.56
1:C:571:LEU:HD23	1:C:812:ALA:HB2	1.86	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
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:HD12	1.86	0.56
1:A:395:ILE:HD12	1:A:395:ILE:O	2.06	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
1:A:1239:VAL:O	1:A:1239:VAL:HG12	2.04	0.56
1:A:1298:THR:O	1:A:1299:GLU:C	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:1199:ASP:C	1:A:1201:THR:H	2.13	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
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:854:GLN:HE22	1:A:917:TRP:CD1	2.24	0.56
2:B:142:PRO:HB3	2:B:187:ASN:ND2	2.20	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:698:CYS:C	1:C:700:TYR:N	2.62	0.56
1:C:1217:LEU:HD13	1:C:1237:SER:HA	1.88	0.56
1:C:1227:PHE:CD1	1:C:1227:PHE:C	2.84	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:481:TYR:C	2:D:481:TYR:CD2	2.84	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
3:Y:187:GLY:C	3:Y:203:LEU:HD12	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:25:ILE:CB	1:A:655:THR:HG23	2.36	0.56
1:A:985:GLY:O	1:A:986:GLU:C	2.49	0.56
2:B:1509:PRO:O	2:B:1512:ILE:HG13	2.06	0.56
1:C:72:HIS:C	1:C:72:HIS:CD2	2.83	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
1:C:1017:PRO:O	1:C:1018:VAL:C	2.48	0.56
2:D:276:ILE:O	2:D:277:PRO:C	2.47	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
3:X:146:LEU:HD22	3:X:146:LEU:C	2.31	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:274:ASP:CG	1:A:275:LEU:H	2.14	0.56
1:A:351:PRO:HG2	1:A:352:TYR:CE2	2.40	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
2:B:1313:VAL:HG21	2:B:1323:MET:HE1	1.88	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:189:PRO:C	2:D:191:LEU:H	2.12	0.56
2:D:518:PHE:CD2	2:D:538:VAL:HB	2.38	0.56
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:88:GLY:C	3:X:90:ASP:H	2.14	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
1:A:550:GLN:O	1:A:550:GLN:HG2	2.04	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1244:THR:H	1:A:1247:MET:HE3	1.71	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: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: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:603:GLU:C	2:D:605:SER:H	2.14	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:309:GLU:HG2	1:A:310:LEU:N	2.21	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:945:ASP:C	1:A:945:ASP:OD1	2.47	0.55
1:A:1132:THR:O	1:A:1134:PRO:N	2.39	0.55
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:1628:PHE:O	2:B:1630:GLN:N	2.39	0.55
1:C:123:ASN:C	1:C:123:ASN:OD1	2.49	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:1229:LYS:HZ3	1:C:1240:PRO:HD2	1.69	0.55
2:D:355:LYS:O	2:D:358:MET:CB	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:523:TYR:C	2:D:523:TYR:HD1	2.14	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
1:A:569:ASN:CG	1:A:570:GLN:H	2.15	0.55
1:A:1013:MET:HE3	1:A:1287:THR:HB	1.87	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:961:TYR:CD1	1:C:961:TYR:C	2.83	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:481:HIS:HE1	2:B:387:MET:HE3	1.68	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:855:PHE:HA	2:D:904:LEU:HD11	1.87	0.55
1:C:982:LEU:C	1:C:984:VAL:N	2.61	0.55
1:C:1083:LEU:HD13	1:C:1104:LEU:HD23	1.89	0.55
1:C:1421:HIS:C	1:C:1421:HIS:CD2	2.83	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
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:1099:SER:O	1:C:1100:ILE:C	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:D:1624:LEU:O	2:D:1625:CYS:C	2.50	0.55
3:X:87:LEU:HA	3:X:91:LYS:CD	2.37	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:691:LYS:C	1:C:693:SER:N	2.64	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
2:D:28:ILE:HD13	2:D:621:PHE:HE1	1.70	0.55
2:D:69:PHE:C	2:D:69:PHE:HD2	2.14	0.55
3:X:43:ILE:O	3:X:44:ARG:C	2.48	0.55
1:A:124:GLY:C	1:A:125:PHE:CG	2.84	0.55
1:A:267:ILE:HG22	1:A:268:THR:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:693:SER:C	1:A:695:VAL:N	2.63	0.55
1:A:1188:LEU:HD23	1:A:1212:LEU:HA	1.89	0.55
2:B:503:LEU:HD23	2:B:503:LEU:C	2.32	0.55
2:B:1594:LYS:HA	2:B:1594:LYS:CE	2.18	0.55
1:C:134:VAL:C	1:C:135:TYR:CD2	2.85	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:691:LYS:C	1:A:693:SER:H	2.12	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:481:TYR:CD2	2:B:481:TYR:C	2.82	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
1:C:274:ASP:CG	1:C:275:LEU:H	2.15	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:415:THR:O	2:D:425:GLN:CD	2.50	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:691:LYS:C	1:A:693:SER:N	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:523:TYR:C	2:B:523:TYR:HD1	2.12	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:544:TYR:C	1:C:544:TYR:HD2	2.15	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
1:C:1582:LEU:C	1:C:1594:LYS:HZ2	2.15	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:698:CYS:C	1:A:700:TYR:N	2.63	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:1147:PHE:C	1:A:1147:PHE:CD2	2.85	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:338:ILE:C	2:B:339:VAL:HG13	2.32	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: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:985:GLY:O	1:C:986:GLU:C	2.50	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
1:A:123:ASN:C	1:A:211:THR:HG21	2.32	0.54
1:A:316:GLU:HG2	1:A:349:LEU:HD23	1.88	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:916:THR:C	1:A:918:PHE:H	2.15	0.54
1:A:1370:THR:O	1:A:1371:SER:C	2.49	0.54
1:A:1421:HIS:CE1	1:A:1498:TYR:CD1	2.95	0.54
1:A:1582:LEU:O	1:A:1583:ASP:C	2.50	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:1240:PRO:C	1:C:1242:THR:N	2.65	0.54
1:C:1562:LYS:O	1:C:1563:VAL:HG13	2.06	0.54
1:C:1582:LEU:O	1:C:1583:ASP:C	2.50	0.54
3:Y:107:GLN:CD	3:Y:110:ILE:HD11	2.32	0.54
1:A:472:ASN:O	1:A:473:HIS:HB3	2.07	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:690:TYR:C	1:C:692:HIS:N	2.66	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
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: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:55:SER:C	1:A:56:ILE:HD13	2.32	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
2:B:1480:LEU:HD12	2:B:1480:LEU:C	2.33	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: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:825:VAL:HB	2:B:828:GLU:CD	2.32	0.54
2:B:1274:ASN:OD1	2:B:1291:ARG:NH2	2.41	0.54
1:C:20:GLU:C	1:C:21:GLN:CG	2.77	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:Y:215:VAL:C	3:Y:216:LEU:HD22	2.32	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:1042:LYS:HZ3	1:C:92:LEU:HD13	1.73	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
1:A:1487:PHE:O	1:A:1488:LEU:C	2.50	0.54
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:1020:TYR:CE1	1:C:1295:GLU:HG3	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:825:VAL:HB	2:D:828:GLU:CD	2.33	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:100:SER:C	1:A:101:TYR:HD2	2.16	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
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
2:B:1619:GLU:C	2:B:1621:PHE:H	2.15	0.54
1:C:165:ASP:C	1:C:167:GLU:N	2.66	0.54
1:C:190:ILE:HD12	1:C:219:VAL:HG21	1.90	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
1:A:1527:CYS:C	1:A:1529:GLU:N	2.64	0.54
2:B:175:SER:N	2:B:1300:ALA:HB2	2.20	0.54
2:B:462:VAL:CG1	2:B:506:MET:HE3	2.37	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:945:ASP:C	1:C:945:ASP:OD1	2.48	0.54
1:C:1133:LEU:HB2	1:C:1134:PRO:HD3	1.90	0.54
1:C:1147:PHE:C	1:C:1147:PHE:CD2	2.86	0.54
1:C:1219:LYS:HZ1	1:C:1239:VAL:HG11	1.67	0.54
1:C:1286:SER:OG	1:C:1287:THR:N	2.40	0.54
2:D:57:PHE:HD1	2:D:59:HIS:NE2	2.05	0.54
2:D:243:PHE:CD2	2:D:243:PHE:C	2.86	0.54
2:D:1621:PHE:O	2:D:1622:GLN:C	2.50	0.54
3:Y:88:GLY:C	3:Y:90:ASP:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:125:LYS:HA	3:Y:127:ASN:H	1.72	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: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:543:TYR:CD1	1:C:543:TYR:C	2.86	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
1:C:862:VAL:O	1:C:863:GLU:C	2.51	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
1:A:423:ASN:CG	2:B:504:VAL:HG22	2.33	0.53
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
2:B:1602:THR:C	2:B:1604:ASN:N	2.63	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:124:GLY:C	1:C:125:PHE:CG	2.86	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:1265:ASN:C	1:C:1267:VAL:H	2.15	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:168:PRO:HG3	2:D:197:TRP:N	2.21	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
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
1:C:1213:LYS:HE2	1:C:1266:TYR:CE2	2.43	0.53
2:D:189:PRO:C	2:D:191:LEU:N	2.66	0.53
2:D:1548:ILE:HG23	2:D:1635:LEU:CB	2.39	0.53
3:X:88:GLY:C	3:X:90:ASP:N	2.66	0.53
1:A:1017:PRO:O	1:A:1018:VAL:C	2.51	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: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: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:1255:LEU:HD12	1:C:1255:LEU:C	2.31	0.53
1:C:1581:LEU:HD12	1:C:1592:ALA:HB1	1.91	0.53
2:D:853:ASN:C	2:D:853:ASN:OD1	2.52	0.53
3:X:134:THR:CG2	3:X:153:PHE:HB3	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:585:TYR:CD2	2:B:788:VAL:HG11	2.44	0.53
1:C:119:ILE:HD12	1:C:119:ILE:C	2.34	0.53
1:C:363:LEU:HD12	1:C:456:ALA:HA	1.90	0.53
1:C:382:LEU:HD13	1:C:415:ASP:O	2.09	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: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
2:B:24:LEU:HB3	2:B:46:HIS:HB2	1.91	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:854:GLN:HE22	1:C:917:TRP:CD1	2.27	0.53
1:C:883:CYS:O	1:C:884:VAL:C	2.51	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:X:187:GLY:C	3:X:203:LEU:HD12	2.33	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:1624:LEU:O	2:B:1625:CYS:C	2.52	0.53
1:C:23:TYR:O	1:C:655:THR:CB	2.56	0.53
1:C:573:VAL:O	1:C:574:HIS:ND1	2.42	0.53
1:C:923:LEU:HD23	1:C:923:LEU:C	2.34	0.53
1:C:949:ILE:HG22	1:C:950:TYR:CZ	2.44	0.53
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: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
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
3:X:127:ASN:OD1	3:X:158:GLU:HB3	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:965:LEU:C	1:A:967:LEU:H	2.17	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:189:PRO:C	2:B:191:LEU:H	2.17	0.53
2:B:231:SER:HB3	2:B:244:HIS:HB2	1.90	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
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:1442:ILE:C	2:D:1443:LEU:HD13	2.34	0.53
2:D:1534:GLN:HG3	2:D:1535:ASP:OD2	2.09	0.53
2:D:1535:ASP:C	2:D:1537:ASN:H	2.17	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:603:GLU:C	2:B:605:SER:H	2.16	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
1:C:24:VAL:HA	1:C:655:THR:CG2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:576:SER:CB	1:C:589:SER:H	2.22	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: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: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:693:SER:C	1:C:695:VAL:N	2.60	0.52
1:C:702:GLY:HA2	1:C:728:PHE:HE1	1.67	0.52
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: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
2:B:1504:GLU:CD	2:B:1505:ARG:H	2.15	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: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
3:Y:88:GLY:C	3:Y:90:ASP:N	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:ASN:C	1:A:123:ASN:OD1	2.53	0.52
1:A:577:PRO:CD	1:A:588:VAL:HG23	2.39	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
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
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:569:ASN:CG	1:A:570:GLN:N	2.68	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:853:ASN:C	2:B:853:ASN:OD1	2.52	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: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:72:HIS:C	1:A:72:HIS:CD2	2.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1532:CYS:O	1:A:1641:SER:N	2.43	0.52
2:B:243:PHE:C	2:B:243:PHE:CD2	2.85	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:641:ASN:O	1:C:642:ASN:C	2.53	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
1:C:1641:SER:O	1:C:1642:LEU:HB2	2.10	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:484:LEU:HD11	2:D:626:LEU:HG	1.92	0.52
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: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:1240:PRO:C	1:A:1242:THR:N	2.67	0.52
1:A:1247:MET:O	1:A:1251:THR:HG23	2.10	0.52
2:B:1280:GLU:HG2	2:B:1287:PRO:CB	2.38	0.52
2:B:1446:PHE:C	2:B:1448:VAL:H	2.18	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
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
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:941:GLN:HE21	2:B:943:GLU:CG	2.22	0.52
2:B:1614:ASP:C	2:B:1616:CYS:N	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1438:LEU:HD13	2:D:1438:LEU:C	2.34	0.52
2:D:1517:GLU:O	2:D:1518:THR:C	2.53	0.52
3:Y:103:VAL:HG22	3:Y:122:VAL:HG22	1.91	0.52
2:B:83:VAL:C	2:B:85:PRO:HD3	2.35	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:563:MET:HE2	2:D:563:MET:HA	1.92	0.52
2:D:800:ILE:HG23	2:D:801:CYS:N	2.24	0.52
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:1293:ALA:O	1:A:1294:ILE:C	2.51	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:794:PHE:C	2:B:794:PHE:CD2	2.88	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:595:GLY:O	1:C:596:MET:C	2.52	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:1021:VAL:HG12	1:A:1022:PHE:N	2.26	0.51
1:A:1047:LYS:O	1:A:1048:LYS:C	2.53	0.51
1:A:1385:ASP:O	1:A:1386:ILE:HB	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:OD1	2:D:1595:ASP:N	2.40	0.51
3:Y:43:ILE:HG23	3:Y:44:ARG:N	2.23	0.51
3:Y:150:ILE:HD12	3:Y:150:ILE:C	2.34	0.51
1:A:120:THR:HG22	1:A:121:TYR:N	2.24	0.51
1:A:162:THR:HB	1:A:173:MET:HE2	1.91	0.51
1:A:186:PRO:O	1:A:187:ASP:C	2.53	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
2:B:1517:GLU:O	2:B:1518:THR:C	2.53	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
2:D:87:ILE:H	2:D:87:ILE:HD12	1.75	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:128:LYS:HD3	3:Y:158:GLU:CD	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:PRO:HG2	1:A:464:TYR:CE2	2.46	0.51
1:A:698:CYS:HB3	1:A:728:PHE:HB2	1.92	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: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: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:750:ASP:OD1	2:D:750:ASP:C	2.53	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:Y:119:VAL:HG21	3:Y:209:PHE:HB3	1.92	0.51
1:A:74:SER:C	1:A:79:PHE:CE1	2.89	0.51
1:A:154:PRO:O	1:A:155:ALA:HB3	2.10	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:236:TYR:C	2:B:238:ASP:H	2.18	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:239:GLY:O	1:C:240:TYR:C	2.53	0.51
1:C:461:SER:HB2	1:C:553:GLU:CD	2.34	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:HD13	2:D:1438:LEU:O	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1381:ILE:CG2	2:B:1459:TYR:CE1	2.94	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
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
2:D:794:PHE:C	2:D:794:PHE:CD2	2.88	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:923:LEU:HD23	1:A:923:LEU:C	2.35	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:565:ILE:HD11	2:B:776:MET:HE3	1.92	0.51
2:B:573:ALA:HB3	2:B:762:LEU:HD13	1.93	0.51
2:B:1330:ASN:N	2:B:1330:ASN:ND2	2.58	0.51
2:B:1530:ARG:HG3	2:B:1530:ARG:NH1	2.26	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:680:GLN:O	1:A:681:LYS:C	2.53	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: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
1:C:680:GLN:O	1:C:681:LYS:C	2.54	0.51
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: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:1159:CYS:C	1:A:1161:LEU:H	2.18	0.51
1:A:1304:VAL:CG1	1:A:1305:LYS:H	2.23	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
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:1572:ASN:C	1:C:1573:VAL:HG23	2.35	0.51
1:C:1615:ARG:HD2	1:C:1647:TYR:CD1	2.45	0.51
1:A:86:THR:C	1:A:87:ILE:HD13	2.35	0.51
1:A:95:GLY:O	1:A:96:GLN:O	2.29	0.51
1:A:119:ILE:HD12	1:A:119:ILE:C	2.36	0.51
1:A:238:ILE:HG23	1:A:242:ASN:HD22	1.75	0.51
1:A:573:VAL:O	1:A:574:HIS:ND1	2.44	0.51
1:A:644:ASN:O	1:A:645:VAL:C	2.54	0.51
1:A:993:SER:C	1:A:995:GLU:N	2.60	0.51
1:A:1240:PRO:O	1:A:1242:THR:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1244:THR:O	1:A:1245:ALA:C	2.54	0.51
1:A:1328:MET:HE2	1:A:1328:MET:HA	1.93	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:582:LYS:O	2:B:583:ALA:C	2.53	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
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
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
2:B:1535:ASP:C	2:B:1537:ASN:H	2.18	0.51
2:B:1595:ASP:OD1	2:B:1595:ASP:N	2.40	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:1569:THR:O	1:C:1570:VAL:CG2	2.59	0.51
2:D:1446:PHE:C	2:D:1448:VAL:H	2.19	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:69:PHE:C	2:B:69:PHE:HD2	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:108:SER:HG	1:C:111:PHE:C	2.19	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
2:D:511:THR:O	2:D:512:PRO:C	2.54	0.50
2:D:806:TYR:CD1	2:D:806:TYR:C	2.89	0.50
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
2:D:1628:PHE:O	2:D:1629:ALA:C	2.51	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:100:SER:C	1:A:101:TYR:CD2	2.89	0.50
1:A:239:GLY:O	1:A:240:TYR:C	2.52	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: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:1298:THR:O	1:C:1299:GLU:C	2.53	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
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:862:VAL:O	1:A:863:GLU:C	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:982:LEU:C	1:A:984:VAL:N	2.68	0.50
1:A:1013:MET:HE2	1:A:1287:THR:HB	1.92	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:1536:GLN:HG3	1:A:1536:GLN:O	2.10	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
2:B:1438:LEU:HD13	2:B:1438:LEU:C	2.37	0.50
2:B:1528:LEU:HD23	2:B:1576:LYS:C	2.36	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:827:MET:HE2	1:C:912:PHE:CE2	2.47	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
1:C:1474:CYS:HB3	1:C:1476:ARG:NH1	2.26	0.50
1:C:1582:LEU:C	1:C:1594:LYS:NZ	2.70	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: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:128:LYS:HD3	3:X:158:GLU:CD	2.36	0.50
3:Y:58:SER:HB3	3:Y:102:ASN:HD22	1.72	0.50
1:A:274:ASP:CG	1:A:275:LEU:N	2.69	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: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:239:GLY:O	1:C:241:LYS:N	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1408:TYR:O	1:C:1410:PRO:HD3	2.11	0.50
2:D:208:GLU:O	2:D:209:ASN:C	2.55	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:76:GLU:O	1:A:76:GLU:CD	2.55	0.50
1:A:171:VAL:HG22	1:A:1057:MET:HE1	1.93	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:883:CYS:O	1:A:884:VAL:C	2.54	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:132:THR:O	2:B:133:ASP:C	2.55	0.50
2:B:484:LEU:HD11	2:B:626:LEU:HG	1.93	0.50
2:B:524:TYR:C	2:B:524:TYR:CD1	2.89	0.50
2:B:525:GLN:O	2:B:525:GLN:CD	2.54	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
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
1:C:1641:SER:C	1:C:1643:THR:N	2.69	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
3:X:107:GLN:CD	3:X:110:ILE:HD11	2.36	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:532:GLN:O	1:A:533:ASN:C	2.55	0.50
1:A:961:TYR:CD1	1:A:961:TYR:C	2.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:150:ASP:CG	1:C:151:ASP:N	2.70	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:578:ASP:CG	1:C:578:ASP:O	2.55	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:1610:TRP:CE3	2:D:1628:PHE:CE2	3.00	0.50
1:A:1300:TYR:C	1:A:1300:TYR:CD2	2.89	0.50
1:A:1408:TYR:O	1:A:1410:PRO:HD3	2.12	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: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:1021:VAL:HG12	1:C:1022:PHE:N	2.27	0.50
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
1:C:1593:GLU:HB2	1:C:1596:SER:HG	1.77	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:1296:ASN:O	2:D:1297:ALA:C	2.54	0.50
2:D:1593:THR:HG22	2:D:1594:LYS:H	1.72	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:950:TYR:HD1	1:A:1268:ASN:OD1	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:970:LYS:C	1:C:971:THR:CG2	2.85	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:83:VAL:C	2:D:85:PRO:HD3	2.36	0.50
2:D:315:TYR:CD1	2:D:315:TYR:C	2.89	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: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:171:VAL:CG2	1:A:1057:MET:HE1	2.42	0.50
1:A:236:ASN:HD22	1:A:379:LEU:HD21	1.76	0.50
1:A:288:GLN:O	1:A:289:ASN:C	2.55	0.50
1:A:612:VAL:HG21	1:A:769:PHE:CE2	2.46	0.50
1:A:645:VAL:HG12	1:A:646:PHE:N	2.24	0.50
1:A:1012:LEU:HD22	1:A:1085:VAL:CG2	2.25	0.50
1:A:1488:LEU:HD12	1:A:1488:LEU:C	2.37	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:1616:GLN:OE1	1:A:1650:ARG:HB3	2.12	0.50
2:B:208:GLU:O	2:B:209:ASN:C	2.55	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:60:PRO:CD	1:C:61:ASP:N	2.56	0.50
1:C:74:SER:HA	1:C:79:PHE:HE1	1.77	0.50
1:C:1263:ASP:O	1:C:1265:ASN:N	2.45	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:161:LEU:HD11	1:C:185:PHE:CZ	2.47	0.49
1:C:274:ASP:OD1	1:C:277:ASP:CG	2.55	0.49
1:C:689:LYS:HD3	1:C:730:GLU:OE2	2.12	0.49
1:C:820:PHE:CG	1:C:821:LYS:N	2.80	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
1:A:274:ASP:OD1	1:A:277:ASP:CG	2.55	0.49
1:A:484:ILE:HD12	1:A:540:LEU:CD2	2.42	0.49
1:A:505:SER:O	1:A:506:LYS:C	2.55	0.49
1:A:571:LEU:CD2	1:A:812:ALA:HB2	2.41	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
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
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
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
3:Y:166:ASP:OD2	3:Y:207:LEU:CD2	2.59	0.49
1:A:549:GLU:CD	1:A:549:GLU:N	2.70	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:951:ASP:C	2:B:953:ARG:H	2.13	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:TYR:HE2	1:A:1070:LYS:NZ	2.10	0.49
1:A:523:TYR:CE2	2:B:465:ASN:CG	2.90	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:1537:GLU:O	1:A:1539:LEU:N	2.45	0.49
2:B:189:PRO:C	2:B:191:LEU:N	2.69	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
2:B:1631:PHE:C	2:B:1631:PHE:CD2	2.90	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
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:436:GLN:O	2:D:437:THR:C	2.54	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:491:PRO:HB2	1:A:493:ILE:C	2.36	0.49
1:A:950:TYR:C	1:A:952:THR:H	2.20	0.49
1:A:1423:VAL:HG11	1:A:1496:TYR:CZ	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:77:ASN:O	1:C:78:LYS:C	2.54	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:662:SER:O	1:C:663:GLN:C	2.56	0.49
1:C:758:LEU:HB3	1:C:759:PRO:HD2	1.93	0.49
1:C:781:PRO:C	1:C:783:ARG:H	2.20	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:524:TYR:CD1	2:D:524:TYR:C	2.90	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:1318:LYS:HB2	1:A:1345:ASP:HB2	1.94	0.49
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: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:682:LYS:HZ2	1:A:686:ILE:CD1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:532:GLN:O	1:C:533:ASN:C	2.53	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: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: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
2:B:415:THR:O	2:B:425:GLN:CD	2.55	0.49
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:881:PRO:C	2:B:882:PHE:CD2	2.91	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:1140:ASN:O	1:C:1143:TYR:HB3	2.13	0.49
1:C:1411:SER:H	1:C:1414:GLU:HG3	1.78	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:620:VAL:HG12	2:D:621:PHE:N	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
3:Y:87:LEU:HD12	3:Y:210:GLU:HA	1.95	0.49
1:A:189:LYS:HG3	1:A:190:ILE:O	2.13	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:1096:ASN:O	1:A:1097:GLN:C	2.55	0.49
1:A:1105:LEU:HD22	1:C:1163:LYS:HZ2	1.77	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:1282:PRO:O	2:B:1283:ASP:C	2.56	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:341:SER:OG	2:D:343:TYR:O	2.30	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:750:ASP:OD1	2:B:750:ASP:C	2.53	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:491:PRO:HB2	1:C:493:ILE:C	2.37	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:847:ASN:C	1:C:847:ASN:OD1	2.55	0.48
1:C:1559:TYR:CE1	1:C:1587:THR:HA	2.47	0.48
2:D:525:GLN:O	2:D:525:GLN:CD	2.55	0.48
2:D:834:ALA:C	2:D:835:ILE:HD13	2.38	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:216:VAL:O	2:B:216:VAL:HG13	2.13	0.48
2:B:524:TYR:HD1	2:B:524:TYR:C	2.19	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: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:1234:HIS:O	1:C:1235:LYS:HB2	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:1313:VAL:HG21	2:D:1323:MET:HE1	1.94	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
1:A:132:LYS:HZ3	1:A:139:GLN:HE22	1.60	0.48
1:A:284:GLN:H	1:A:310:LEU:HD22	1.78	0.48
1:A:643:ALA:O	1:A:644:ASN:C	2.55	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
1:A:1671:ILE:CD1	1:A:1676:CYS:SG	3.01	0.48
2:B:243:PHE:C	2:B:243:PHE:HD2	2.20	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:481:HIS:HE1	2:D:387:MET:HE3	1.74	0.48
1:C:514:THR:CG2	1:C:515:ARG:N	2.77	0.48
1:C:663:GLN:CG	1:C:664:GLU:N	2.74	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
2:D:1623:LYS:HZ2	2:D:1623:LYS:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1635:LEU:O	2:D:1636:THR:C	2.55	0.48
2:D:1637:GLU:C	2:D:1638:PHE:CD2	2.91	0.48
3:Y:85:PHE:N	3:Y:85:PHE:CD1	2.81	0.48
1:A:150:ASP:CG	1:A:151:ASP:N	2.72	0.48
1:A:317:ASP:C	1:A:319:ASN:N	2.71	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:578:ASP:O	1:A:578:ASP:CG	2.56	0.48
1:A:825:LEU:HB2	1:A:845:VAL:HG23	1.96	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:309:LEU:O	2:B:310:VAL:C	2.54	0.48
2:B:628:LEU:HB3	2:B:636:THR:HG23	1.95	0.48
2:B:1442:ILE:C	2:B:1443:LEU:HD13	2.38	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:419:SER:C	1:C:420:PHE:CD2	2.92	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:243:PHE:C	2:D:243:PHE:HD2	2.22	0.48
2:D:490:PHE:C	2:D:490:PHE:CD1	2.91	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:515:ARG:CZ	1:A:526:ILE:HG22	2.43	0.48
1:A:911:ASN:OD1	1:A:924:VAL:HG22	2.14	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: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:913:LEU:C	2:D:913:LEU:CD2	2.86	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:34:ARG:HD2	2:B:488:LYS:HZ3	1.77	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:1296:ASN:O	2:B:1297:ALA:C	2.56	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
1:C:1293:ALA:O	1:C:1294:ILE:C	2.56	0.48
1:C:1327:LYS:C	1:C:1332:ASN:HD22	2.22	0.48
1:C:1421:HIS:HD2	1:C:1422:ALA:N	2.11	0.48
1:C:1439:LEU:O	1:C:1440:LYS:C	2.57	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:595:GLY:O	1:A:596:MET:C	2.57	0.48
1:A:979:VAL:C	1:A:980:LYS:HG2	2.37	0.48
1:A:1072:GLY:O	1:A:1073:SER:C	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1161:LEU:CD1	1:C:1105:LEU:HD13	2.41	0.48
1:A:1424:MET:HE1	1:A:1475:VAL:HG12	1.95	0.48
1:A:1552:ALA:HB2	1:A:1620:MET:HE3	1.95	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
2:B:1378:THR:O	2:B:1379:MET:C	2.57	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:1300:TYR:C	1:C:1300:TYR:CD2	2.91	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
3:Y:196:GLU:CD	3:Y:196:GLU:N	2.72	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:847:ASN:C	1:A:847:ASN:OD1	2.55	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:763:THR:C	2:B:764:GLU:HG2	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:1538:GLU:O	1:C:1539:LEU:C	2.57	0.48
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
2:D:59:HIS:HB3	2:D:64:LYS:HA	1.96	0.48
2:D:846:VAL:HG22	2:D:847:ARG:N	2.26	0.48
1:A:111:PHE:O	1:A:112:SER:OG	2.30	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
1:A:701:ASP:CG	1:A:1446:VAL:HG23	2.39	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: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:1273:LEU:C	2:D:1273:LEU:HD12	2.39	0.48
2:D:1345:LEU:HD21	2:D:1456:VAL:HG12	1.96	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:1022:PHE:O	1:A:1024:TYR:N	2.47	0.48
1:A:1043:GLN:O	1:A:1044:LYS:C	2.54	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:576:SER:HB2	1:C:589:SER:H	1.79	0.48
1:C:680:GLN:O	1:C:684:GLU:CG	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:Y:229:ASN:C	3:Y:230:GLN:HG3	2.39	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	2.11	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:490:PHE:CD1	2:B:490:PHE:C	2.90	0.47
2:B:1393:ASP:OD1	2:B:1395:GLU:HB3	2.14	0.47
2:B:1623:LYS:HZ3	2:B:1623:LYS:CA	2.26	0.47
1:C:274:ASP:CG	1:C:275:LEU:N	2.70	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: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:1538:GLU:O	1:A:1539:LEU:C	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:315:TYR:CD1	2:B:315:TYR:C	2.91	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
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:123:ASN:C	1:C:211:THR:HG21	2.39	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:1072:GLY:O	1:C:1073:SER:C	2.57	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
2:D:1544:VAL:C	2:D:1545:LEU:HD12	2.40	0.47
3:X:196:GLU:CD	3:X:196:GLU:N	2.72	0.47
1:A:42:GLN:HE22	1:A:44:TYR:HB2	1.78	0.47
1:A:1245:ALA:O	1:A:1246:ARG:C	2.56	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:1244:THR:O	1:C:1245:ALA:C	2.57	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
1:A:87:ILE:N	1:A:87:ILE:CD1	2.55	0.47
1:A:108:SER:HG	1:A:111:PHE:C	2.22	0.47
1:A:631:ASP:C	1:A:633:GLY:H	2.22	0.47
1:A:1018:VAL:HG11	1:A:1048:LYS:HB3	1.95	0.47
1:A:1093:VAL:O	1:A:1094:GLU:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1286:SER:OG	1:A:1287:THR:N	2.46	0.47
1:A:1559:TYR:O	1:A:1621:GLY:N	2.47	0.47
2:B:345:ILE:HD11	2:B:426:ALA:C	2.38	0.47
2:B:575:VAL:CG2	2:B:762:LEU:HD11	2.44	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:1544:VAL:C	2:B:1545:LEU:HD12	2.40	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
1:C:1069:TRP:HH2	1:C:1465:ASN:ND2	2.12	0.47
1:C:1562:LYS:C	1:C:1563:VAL:HG13	2.38	0.47
1:C:1637:TYR:CD2	1:C:1637:TYR:N	2.83	0.47
1:C:1644:TRP:C	1:C:1645:ILE:HG12	2.39	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:CD2	2:D:1638:PHE:N	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: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
1:C:284:GLN:H	1:C:310:LEU:HD22	1.79	0.47
1:C:317:ASP:C	1:C:319:ASN:N	2.70	0.47
1:C:968:VAL:HG23	1:C:971:THR:OG1	2.14	0.47
1:C:969:PRO:C	1:C:971:THR:HG23	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:35:THR:HB	2:B:91:ALA:HB2	1.97	0.47
1:C:100:SER:C	1:C:101:TYR:HD2	2.22	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
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:565:ILE:HD11	2:D:776:MET:HE3	1.97	0.47
2:D:870:PHE:CD1	2:D:878:ARG:NH2	2.83	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:662:SER:O	1:A:663:GLN:C	2.57	0.47
1:A:663:GLN:CG	1:A:664:GLU:N	2.76	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: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:108:VAL:O	2:B:114:ARG:HA	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:846:VAL:HG22	2:B:847:ARG:N	2.28	0.47
2:B:1626:ASP:O	2:B:1627:ASP:C	2.58	0.47
1:C:42:GLN:HE22	1:C:44:TYR:HB2	1.80	0.47
1:C:215:ALA:C	1:C:216:TYR:CD2	2.93	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
1:C:670:LYS:HD2	1:C:671:GLU:N	2.29	0.47
1:C:969:PRO:HD3	1:C:1603:LYS:HZ1	1.80	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: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: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:275:SER:C	2:B:277:PRO:HD3	2.40	0.47
2:B:482:LEU:HD11	2:B:521:VAL:HB	1.96	0.47
2:B:558:MET:HB3	2:B:558:MET:HE2	1.62	0.47
2:B:599:TRP:O	2:B:600:ASP:C	2.55	0.47
2:B:1567:ARG:HG3	2:B:1567:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:SER:C	1:C:79:PHE:CE1	2.93	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
1:C:1560:ALA:C	1:C:1561:TYR:CD2	2.93	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:524:TYR:HD1	2:D:524:TYR:C	2.22	0.47
2:D:582:LYS:O	2:D:583:ALA:C	2.56	0.47
2:D:747:SER:OG	2:D:895:GLU:OE2	2.31	0.47
2:D:813:VAL:CG1	2:D:840:VAL:HG22	2.43	0.47
2:D:838:ASN:O	2:D:838:ASN:CG	2.58	0.47
3:Y:85:PHE:N	3:Y:85:PHE:HD1	2.13	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: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
1:A:1147:PHE:C	1:A:1147:PHE:HD2	2.23	0.47
2:B:203:TYR:O	2:B:204:GLU:C	2.57	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
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: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:736:GLU:C	2:D:738:GLY:H	2.22	0.47
2:D:764:GLU:O	2:D:765:GLU:C	2.58	0.47
2:D:1593:THR:HG21	2:D:1596:LYS:HE3	1.97	0.47
3:X:215:VAL:C	3:X:216:LEU:HD22	2.40	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: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:234:PHE:CD1	2:B:234:PHE:C	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:838:ASN:OD1	2:B:838:ASN:C	2.58	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
1:C:696:LYS:NZ	1:C:759:PRO:CD	2.64	0.47
2:D:220:VAL:O	2:D:221:LEU:C	2.57	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:1522:TYR:HE2	2:D:1585:GLY:C	2.23	0.47
2:D:1561:HIS:NE2	2:D:1597:ILE:CD1	2.78	0.47
2:D:1598:SER:C	2:D:1599:TYR:HD1	2.23	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
1:A:215:ALA:C	1:A:216:TYR:CD2	2.94	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: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:834:ALA:C	2:B:835:ILE:HD13	2.39	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:302:ASP:HB3	1:C:305:THR:HB	1.97	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:1069:TRP:HH2	1:C:1465:ASN:CG	2.24	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:866:TYR:HE2	2:D:868:GLN:OE1	1.99	0.46
2:D:1282:PRO:O	2:D:1283:ASP:C	2.57	0.46
2:D:1371:TYR:HB2	2:D:1377:SER:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:C:215:ALA:C	1:C:216:TYR:HD2	2.23	0.46
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:581:ASP:C	2:D:583:ALA:N	2.73	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: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: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:632:THR:O	2:B:633:ASN:C	2.56	0.46
2:B:1504:GLU:O	2:B:1624:LEU:HD13	2.14	0.46
1:C:81:ASN:CG	1:C:82:SER:N	2.74	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:505:SER:O	1:C:506:LYS:C	2.56	0.46
1:C:554:LEU:N	1:C:658:ASN:HD22	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:949:ILE:HG22	1:C:949:ILE:O	2.14	0.46
1:C:1022:PHE:O	1:C:1023:HIS:C	2.58	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:613:GLN:C	1:A:615:GLY:N	2.73	0.46
1:A:993:SER:O	1:A:995:GLU:N	2.49	0.46
1:A:1069:TRP:HH2	1:A:1465:ASN:CG	2.23	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
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: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:203:TYR:O	2:D:204:GLU:C	2.59	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:LEU:HD21	1:A:185:PHE:CD2	2.51	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:1255:LEU:HD13	1:A:1267:VAL:HG13	1.97	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: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:644:ASN:O	1:C:645:VAL:C	2.58	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:610:THR:C	2:D:612:GLY:N	2.72	0.46
2:D:825:VAL:HG11	2:D:918:GLU:HB3	1.97	0.46
2:D:874:ALA:C	2:D:876:SER:N	2.72	0.46
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: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:CD2	1:A:216:TYR:N	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:1538:GLU:CD	1:A:1538:GLU:H	2.23	0.46
1:A:1671:ILE:HD13	1:A:1676:CYS:SG	2.56	0.46
2:B:352:LYS:HG3	2:B:430:MET:HE1	1.98	0.46
2:B:398:LEU:HA	2:B:398:LEU:HD23	1.50	0.46
2:B:423:GLU:H	2:B:423:GLU:CD	2.23	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:186:PRO:O	1:C:187:ASP:C	2.58	0.46
1:C:701:ASP:CG	1:C:1446:VAL:HG23	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1583:ASP:N	1:C:1594:LYS:HZ1	2.13	0.46
2:D:398:LEU:HA	2:D:398:LEU:HD23	1.53	0.46
2:D:826:LYS:HZ1	2:D:1488:ASN:HB3	1.80	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
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:220:VAL:O	2:B:221:LEU:C	2.59	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:511:THR:O	2:B:512:PRO:C	2.58	0.46
2:B:557:GLN:OE1	2:B:557:GLN:CA	2.58	0.46
2:B:913:LEU:C	2:B:913:LEU:CD2	2.88	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:42:GLN:HE21	1:C:44:TYR:N	2.10	0.46
1:C:76:GLU:O	1:C:76:GLU:CD	2.59	0.46
1:C:286:ALA:O	1:C:287:MET:C	2.58	0.46
1:C:560:TRP:HH2	1:C:673:LEU:HD22	1.80	0.46
1:C:613:GLN:C	1:C:615:GLY:N	2.73	0.46
1:C:1133:LEU:CD1	1:C:1133:LEU:N	2.71	0.46
1:C:1239:VAL:O	1:C:1240:PRO:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1610:GLU:C	1:C:1611:LEU:HD23	2.40	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:275:SER:C	2:D:277:PRO:HD3	2.41	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: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
2:B:79:GLY:C	2:B:81:MET:H	2.24	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:563:MET:CE	2:B:563:MET:HA	2.45	0.46
2:B:953:ARG:CG	2:B:954:VAL:H	2.29	0.46
2:B:1313:VAL:CG2	2:B:1323:MET:HE1	2.46	0.46
2:B:1500:LEU:C	2:B:1500:LEU:HD12	2.41	0.46
2:B:1510:LEU:O	2:B:1513:GLU:N	2.48	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
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: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: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:321:MET:HE3	2:B:321:MET:HB2	1.80	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:806:TYR:CD1	2:B:806:TYR:C	2.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:1598:SER:C	2:B:1599:TYR:HD1	2.22	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
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:1079:THR:HB	1:A:1107:LEU:HD11	1.98	0.46
1:A:1435:ASN:O	1:A:1436:GLU:C	2.58	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: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:1273:LEU:HD12	2:B:1273:LEU:C	2.41	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:805:SER:O	1:C:806:ASN:C	2.59	0.46
1:C:965:LEU:C	1:C:967:LEU:H	2.24	0.46
1:C:1068:VAL:CG1	1:C:1069:TRP:N	2.76	0.46
1:C:1093:VAL:O	1:C:1094:GLU:C	2.59	0.46
1:C:1156:PHE:O	1:C:1160:PRO:HD3	2.16	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:1627:ILE:O	1:C:1627:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1661:LEU:O	1:C:1662:ALA:C	2.59	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: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:215:ALA:C	1:A:216:TYR:HD2	2.24	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:849:ARG:HH22	2:B:555:LEU:C	2.24	0.45
1:A:999:ILE:HD12	1:A:1001:THR:O	2.16	0.45
1:A:1560:ALA:C	1:A:1561:TYR:CD2	2.95	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:854:GLN:HE21	1:C:854:GLN:C	2.23	0.45
1:C:965:LEU:HD23	1:C:1629:TYR:CD1	2.51	0.45
1:C:971:THR:O	1:C:972:GLU:C	2.58	0.45
1:C:999:ILE:O	1:C:1000:LEU:C	2.59	0.45
1:C:1047:LYS:O	1:C:1048:LYS:C	2.58	0.45
1:C:1162:VAL:CG2	1:C:1163:LYS:N	2.79	0.45
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:1464:LEU:C	1:C:1464:LEU:HD22	2.41	0.45
2:D:338:ILE:C	2:D:339:VAL:HG13	2.41	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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:618:LEU:HG	2:D:634:LEU:HD11	1.98	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
1:A:710:THR:OG1	1:A:713:GLN:HG3	2.16	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: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: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:1274:LEU:O	1:C:1275:SER:C	2.59	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1378:THR:O	2:D:1379:MET:C	2.59	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:497:THR:OG1	1:A:498:HIS:N	2.48	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:1054:LEU:O	1:A:1055:SER:C	2.59	0.45
1:A:1215:GLU:OE1	1:A:1215:GLU:HA	2.16	0.45
1:A:1244:THR:HB	1:A:1247:MET:HE3	1.99	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:100:SER:C	1:C:101:TYR:CD2	2.94	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
1:C:859:MET:HE3	1:C:898:PHE:CD1	2.51	0.45
2:D:778:PHE:N	2:D:778:PHE:HD2	2.14	0.45
2:D:953:ARG:CG	2:D:954:VAL:H	2.29	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:827:MET:HE2	1:A:912:PHE:CE2	2.52	0.45
1:A:971:THR:O	1:A:972:GLU:C	2.59	0.45
1:A:1023:HIS:O	1:A:1027:THR:HB	2.15	0.45
1:A:1244:THR:HG23	1:A:1502:ASP:CG	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:357:VAL:O	1:C:358:ALA:C	2.60	0.45
1:C:420:PHE:CD2	1:C:420:PHE:N	2.84	0.45
1:C:461:SER:C	1:C:463:SER:N	2.73	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: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:143:VAL:O	2:D:143:VAL:HG12	2.14	0.45
2:D:570:ASP:O	2:D:573:ALA:CB	2.65	0.45
2:D:599:TRP:O	2:D:600:ASP:C	2.58	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: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:682:LYS:HZ3	1:A:686:ILE:HD11	1.80	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:1420:SER:O	1:A:1421:HIS:C	2.58	0.45
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:953:ARG:CG	2:B:954:VAL:N	2.78	0.45
2:B:1343:PHE:CZ	2:B:1371:TYR:HD1	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:1199:ASP:C	1:C:1201:THR:N	2.75	0.45
2:D:184:TRP:CE3	2:D:184:TRP:N	2.81	0.45
2:D:345:ILE:HD11	2:D:426:ALA:C	2.41	0.45
2:D:378:PRO:HA	2:D:389:THR:HA	1.99	0.45
2:D:468:GLY:O	2:D:469:ASN:C	2.59	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:431:LEU:C	1:A:431:LEU:CD2	2.90	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:145:TYR:C	2:B:145:TYR:CD1	2.95	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: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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:111:PHE:O	1:C:112:SER:OG	2.34	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:977:LEU:HD22	1:C:978:SER:N	2.32	0.45
1:C:1147:PHE:C	1:C:1147:PHE:HD2	2.25	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:136:THR:O	1:A:137:PRO:C	2.60	0.45
1:A:477:LEU:HD22	1:A:477:LEU:N	2.31	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: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:1329:THR:C	1:A:1331:LYS:H	2.24	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:436:GLN:O	2:B:437:THR:C	2.57	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
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:1420:SER:O	1:C:1421:HIS:C	2.59	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:824:VAL:CG2	2:D:828:GLU:OE1	2.64	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1099:SER:O	1:A:1100:ILE:C	2.58	0.45
1:A:1252:ALA:O	1:A:1253:TYR:C	2.58	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:210:TYR:CG	2:B:211:THR:N	2.84	0.45
2:B:628:LEU:HD12	2:B:629:THR:H	1.81	0.45
2:B:747:SER:OG	2:B:895:GLU:OE2	2.26	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
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:431:LEU:C	1:C:431:LEU:CD2	2.90	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:1328:MET:HE2	1:C:1328:MET:HA	1.98	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:309:LEU:O	2:D:310:VAL:C	2.60	0.45
2:D:810:VAL:HG12	2:D:811:MET:N	2.31	0.45
2:D:886:PRO:C	2:D:887:LEU:HG	2.41	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:613:GLN:C	1:A:615:GLY:H	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:176:ASN:HB3	2:B:184:TRP:HZ2	1.82	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: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: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:881:PRO:C	2:D:882:PHE:CD2	2.95	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:656:ASN:HD21	1:A:658:ASN:CG	2.25	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:1239:VAL:O	1:A:1240:PRO:C	2.60	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
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
1:C:1219:LYS:HZ3	1:C:1239:VAL:CG1	2.14	0.44
2:D:111:PRO:O	2:D:113:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:138:THR:O	2:D:139:PRO:C	2.59	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
1:A:1646:GLU:CD	1:A:1660:PHE:HZ	2.25	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
2:B:1522:TYR:HE2	2:B:1585:GLY:C	2.25	0.44
1:C:502:LEU:HB2	1:C:541:LEU:HD21	1.97	0.44
1:C:613:GLN:C	1:C:615:GLY:H	2.24	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:423:GLU:CD	2:D:423:GLU:H	2.25	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
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:390:THR:HG22	2:B:394:GLY:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:515:ILE:HG21	2:B:599:TRP:CZ2	2.52	0.44
2:B:602:ILE:O	2:B:603:GLU:C	2.61	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
2:B:1521:ASP:OD1	2:B:1552:THR:OG1	2.35	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:656:ASN:HD21	1:C:658:ASN:CG	2.25	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:236:TYR:C	2:D:238:ASP:H	2.25	0.44
2:D:570:ASP:O	2:D:573:ALA:HB2	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:X:229:ASN:C	3:X:230:GLN:HG3	2.43	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:1024:TYR:O	1:A:1025:LEU:C	2.60	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:485:ASN:CG	2:B:486:LYS:N	2.75	0.44
2:B:558:MET:HA	2:B:559:PRO:HD3	1.85	0.44
2:B:804:GLU:CD	2:B:805:PRO:HD2	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1398:ASP:C	1:C:1399:TYR:CD2	2.96	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
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
2:D:1386:MET:HA	2:D:1386:MET:CE	2.38	0.44
2:D:1606:TRP:CD1	2:D:1606:TRP:C	2.95	0.44
3:X:111:ASP:CG	3:X:115:ARG:NH2	2.75	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:514:THR:C	1:A:515:ARG:HD3	2.43	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:628:GLU:C	1:A:630:SER:N	2.75	0.44
1:A:671:GLU:HB2	1:A:672:ILE:H	1.66	0.44
1:A:682:LYS:HZ2	1:A:686:ILE:HD12	1.82	0.44
1:A:916:THR:C	1:A:918:PHE:N	2.75	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:874:ALA:C	2:B:876:SER:N	2.74	0.44
2:B:930:LEU:HD13	2:B:1315:ALA:HB2	1.99	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: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:119:ILE:C	1:C:119:ILE:CD1	2.91	0.44
1:C:152:LEU:HA	1:C:152:LEU:HD13	1.48	0.44
1:C:288:GLN:O	1:C:289:ASN:C	2.60	0.44
1:C:415:ASP:OD1	1:C:415:ASP:N	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:824:VAL:HG21	2:D:830:VAL:CG1	2.41	0.44
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:D:145:TYR:CD1	2:D:145:TYR:C	2.95	0.44
2:D:178:VAL:HG21	2:D:183:PHE:CD1	2.53	0.44
2:D:478:TYR:HD1	2:D:478:TYR:C	2.26	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
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: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:494:ASP:CG	1:C:495:LYS:HE2	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:160:THR:OG1	2:D:204:GLU:CD	2.61	0.44
2:D:417:HIS:C	2:D:419:ASP:H	2.26	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
3:Y:42:ASP:CG	3:Y:43:ILE:H	2.25	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
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: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:1546:GLU:HG2	1:A:1663:ASN:CG	2.43	0.44
1:A:1559:TYR:CE1	1:A:1587:THR:HA	2.53	0.44
1:A:1582:LEU:C	1:A:1594:LYS:NZ	2.76	0.44
1:A:1644:TRP:NE1	1:A:1646:GLU:OE1	2.48	0.44
2:B:236:TYR:C	2:B:238:ASP:N	2.76	0.44
2:B:275:SER:O	2:B:277:PRO:HD3	2.17	0.44
2:B:889:GLN:HA	2:B:915:VAL:HB	1.99	0.44
1:C:24:VAL:CG2	1:C:554:LEU:HD11	2.48	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:1329:THR:C	1:C:1331:LYS:H	2.25	0.44
1:C:1475:VAL:C	1:C:1476:ARG:HG2	2.42	0.44
1:C:1560:ALA:C	1:C:1561:TYR:HD2	2.25	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:632:THR:O	2:D:633:ASN:C	2.60	0.44
2:D:966:GLN:OE1	2:D:1298:LEU:HD13	2.17	0.44
2:D:1539:ILE:HD12	2:D:1539:ILE:N	2.32	0.44
3:X:42:ASP:CG	3:X:43:ILE:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X:66:ASN:HB3	3:X:70:SER:C	2.42	0.44
3:X:215:VAL:O	3:X:216:LEU:HD13	2.18	0.44
1:A:286:ALA:O	1:A:287:MET:C	2.60	0.43
1:A:472:ASN:HA	1:A:474:LYS:HD2	1.99	0.43
1:A:690:TYR:C	1:A:692:HIS:N	2.67	0.43
1:A:856:CYS:HB2	2:B:904:LEU:HG	1.99	0.43
1:A:1255:LEU:HD12	1:A:1255:LEU:C	2.42	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
1:C:535:VAL:O	1:C:563:ILE:HG12	2.18	0.43
1:C:643:ALA:O	1:C:644:ASN:C	2.61	0.43
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: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:642:ALA:O	2:D:643:LYS:HB3	2.17	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: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
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: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:854:GLN:HE21	1:A:854:GLN:C	2.24	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
1:A:1644:TRP:C	1:A:1645:ILE:HG12	2.43	0.43
1:A:1661:LEU:O	1:A:1662:ALA:C	2.60	0.43
2:B:234:PHE:CE1	2:B:236:TYR:CE1	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:736:GLU:C	2:B:738:GLY:H	2.24	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:162:THR:CB	1:C:173:MET:HE2	2.48	0.43
1:C:276:LYS:HD2	1:C:276:LYS:HA	1.76	0.43
1:C:916:THR:C	1:C:918:PHE:N	2.71	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: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
2:D:142:PRO:HB3	2:D:187:ASN:HD22	1.83	0.43
2:D:415:THR:HG1	2:D:425:GLN:HB2	1.81	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
3:Y:146:LEU:C	3:Y:146:LEU:CD2	2.90	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1132:THR:O	1:C:1133:LEU:C	2.61	0.43
1:C:1226:ARG:HD3	1:C:1266:TYR:CE1	2.54	0.43
2:D:265:PHE:O	2:D:276:ILE:HG13	2.18	0.43
2:D:361:GLU:HB3	2:D:399:ILE:CD1	2.47	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
3:Y:54:SER:HB2	3:Y:167:PHE:CE1	2.54	0.43
3:Y:66:ASN:HB3	3:Y:70:SER:C	2.44	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: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:160:THR:OG1	2:B:204:GLU:CD	2.61	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:478:TYR:CD1	2:B:478:TYR:C	2.97	0.43
2:B:618:LEU:HD21	2:B:635:ASN:C	2.43	0.43
2:B:851:LEU:HD11	2:B:865:ARG:NH2	2.33	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:1317:TYR:CZ	1:C:1342:LEU:HG	2.53	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:242:ASN:CG	2:D:295:LYS:HD2	2.43	0.43
2:D:478:TYR:CD1	2:D:478:TYR:C	2.96	0.43
2:D:580:VAL:HG13	2:D:584:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:77:ASN:O	1:A:78:LYS:C	2.61	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
1:A:1025:LEU:HD11	1:A:1034:PHE:HZ	1.82	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:886:PRO:C	2:B:887:LEU:HG	2.43	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:273:GLU:O	1:C:274:ASP:HB3	2.17	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:987:ILE:HD13	1:C:1294:ILE:HG23	2.00	0.43
1:C:1160:PRO:O	1:C:1161:LEU:C	2.62	0.43
1:C:1538:GLU:CD	1:C:1538:GLU:H	2.26	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
3:Y:207:LEU:CD1	3:Y:207:LEU:C	2.84	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:1142:LEU:HD21	1:A:1179:THR:OG1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1162:VAL:CG2	1:A:1163:LYS:N	2.82	0.43
1:A:1475:VAL:C	1:A:1476:ARG:HG2	2.43	0.43
2:B:214:PHE:C	2:B:214:PHE:CD1	2.97	0.43
2:B:249:ALA:O	2:B:257:VAL:HB	2.18	0.43
2:B:563:MET:HE2	2:B:563:MET:CA	2.48	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:700:TYR:C	1:C:702:GLY:N	2.77	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
1:C:1435:ASN:O	1:C:1436:GLU:C	2.61	0.43
2:D:47:GLY:O	2:D:48:ASP:HB2	2.19	0.43
2:D:321:MET:HE3	2:D:321:MET:HB2	1.82	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:1417:MET:HE3	2:D:1443:LEU:HB2	2.01	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
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: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: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: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:78:LYS:O	1:C:79:PHE:C	2.62	0.43
1:C:365:PRO:CD	1:C:464:TYR:CE2	2.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:631:ASP:C	1:C:633:GLY:H	2.27	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:1190:ILE:O	1:C:1191:SER:C	2.61	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:132:THR:O	2:D:133:ASP:C	2.60	0.43
2:D:551:LYS:HE2	2:D:551:LYS:HB2	1.91	0.43
2:D:763:THR:C	2:D:764:GLU:HG2	2.43	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: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
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:630:THR:O	2:B:631:SER:C	2.62	0.43
2:B:1529:LEU:N	2:B:1529:LEU:HD12	2.34	0.43
2:B:1640:CYS:O	2:B:1641:PRO:C	2.61	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: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:X:207:LEU:CD1	3:X:207:LEU:C	2.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:163:LYS:HG3	3:Y:212:MET:CE	2.49	0.43
1:A:126:LEU:C	1:A:127:PHE:HD1	2.27	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: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:1309:LEU:O	1:A:1329:THR:HA	2.19	0.43
1:A:1439:LEU:O	1:A:1440:LYS:C	2.62	0.43
1:A:1560:ALA:C	1:A:1561:TYR:HD2	2.27	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:1510:LEU:O	2:B:1511:GLN:C	2.59	0.43
2:B:1564:ILE:O	2:B:1601:ILE:HD12	2.19	0.43
1:C:150:ASP:CG	1:C:151:ASP:H	2.27	0.43
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:1646:GLU:CD	1:C:1660:PHE:HZ	2.26	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:234:PHE:CD1	2:D:234:PHE:C	2.96	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:610:THR:C	2:D:612:GLY:H	2.26	0.43
2:D:780:LEU:HD11	2:D:787:TRP:HD1	1.84	0.43
2:D:883:VAL:C	2:D:884:ILE:HG22	2.43	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:1562:GLN:NE2	2:D:1596:LYS:HZ2	2.15	0.43
1:A:150:ASP:CG	1:A:151:ASP:H	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:902:PRO:C	1:A:903:LEU:HD13	2.44	0.43
1:A:1072:GLY:C	1:A:1073:SER:O	2.62	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:1245:ALA:C	1:A:1247:MET:N	2.75	0.43
1:A:1376:SER:C	1:A:1409:LYS:HB2	2.43	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: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:131:ASP:C	1:C:132:LYS:CG	2.91	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:1376:SER:C	1:C:1409:LYS:HB2	2.44	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
2:D:449:ILE:O	2:D:449:ILE:HG23	2.18	0.43
2:D:550:VAL:HG22	2:D:567:LEU:HD21	2.01	0.43
2:D:1444:LYS:HZ3	2:D:1447:GLU:HA	1.84	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: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:1163:LYS:NZ	1:C:1109:GLU:HG2	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1354:LEU:HD23	2:B:1354:LEU:C	2.44	0.42
2:B:1435:ASP:CG	4:F:1:NAG:H81	2.43	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: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:1043:GLN:O	1:C:1044:LYS:C	2.61	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
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:481:TYR:CE2	2:D:493:GLY:C	2.97	0.42
2:D:870:PHE:C	2:D:870:PHE:CD2	2.96	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:X:171:GLN:O	3:X:172:GLN:C	2.62	0.42
3:Y:111:ASP:CG	3:Y:115:ARG:NH2	2.76	0.42
3:Y:194:LYS:HG2	3:Y:197:ASN:HB3	2.01	0.42
1:A:255:PHE:O	1:A:256:TYR:HB2	2.19	0.42
1:A:364:LYS:HE2	1:A:465:LEU:O	2.18	0.42
1:A:415:ASP:C	1:A:417:VAL:N	2.75	0.42
1:A:461:SER:HB3	1:A:553:GLU:OE2	2.19	0.42
1:A:639:GLY:HA2	1:A:648:LEU:CD1	2.45	0.42
1:A:656:ASN:CG	1:A:659:ALA:H	2.27	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:999:ILE:O	1:A:1000:LEU:C	2.61	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:1268:ASN:C	1:A:1270:VAL:N	2.72	0.42
1:A:1560:ALA:O	1:A:1561:TYR:CB	2.67	0.42
1:A:1562:LYS:C	1:A:1563:VAL:HG13	2.44	0.42
2:B:358:MET:HE3	2:B:358:MET:HB2	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:449:ILE:HD12	2:B:449:ILE:HA	1.71	0.42
2:B:468:GLY:O	2:B:469:ASN:C	2.62	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
1:C:73:LEU:HB2	1:C:79:PHE:HA	2.01	0.42
1:C:190:ILE:CG2	1:C:191:PRO:CD	2.97	0.42
1:C:311:SER:C	1:C:313:TYR:H	2.27	0.42
1:C:871:PRO:O	1:C:873:ILE:N	2.52	0.42
1:C:973:ILE:O	1:C:973:ILE:HG22	2.17	0.42
1:C:1013:MET:C	1:C:1015:VAL:H	2.27	0.42
1:C:1022:PHE:C	1:C:1024:TYR:N	2.76	0.42
1:C:1110:ASN:O	1:C:1111:TYR:CD1	2.72	0.42
1:C:1245:ALA:O	1:C:1246:ARG:C	2.60	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:358:MET:HE3	2:D:358:MET:HB2	1.81	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:222:TYR:CD2	1:A:223:VAL:C	2.98	0.42
1:A:290:THR:CG2	1:A:297:ALA:HB1	2.48	0.42
1:A:291:MET:HE2	1:A:291:MET:HB3	1.47	0.42
1:A:420:PHE:N	1:A:420:PHE:CD2	2.86	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: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
1:A:1559:TYR:HB3	1:A:1637:TYR:HE1	1.84	0.42
2:B:242:ASN:CG	2:B:295:LYS:HD2	2.43	0.42
2:B:838:ASN:O	2:B:838:ASN:CG	2.61	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:1013:MET:C	1:A:1015:VAL:H	2.27	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:815:PHE:CD1	2:B:815:PHE:C	2.97	0.42
2:B:1584:TRP:CD1	2:B:1584:TRP:C	2.97	0.42
2:B:1610:TRP:CE3	2:B:1628:PHE:CD2	3.08	0.42
1:C:60:PRO:CG	1:C:61:ASP:N	2.81	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
1:C:1250:THR:C	1:C:1252:ALA:N	2.76	0.42
1:C:1268:ASN:C	1:C:1270:VAL:N	2.73	0.42
1:C:1439:LEU:HA	1:C:1439:LEU:HD23	1.71	0.42
1:C:1488:LEU:HD12	1:C:1488:LEU:C	2.43	0.42
2:D:174:SER:HA	2:D:1300:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:470:ALA:C	2:D:472:SER:H	2.27	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:866:TYR:CD2	2:D:866:TYR:C	2.97	0.42
2:D:964:ILE:HG22	2:D:1324:THR:OG1	2.18	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:357:VAL:O	1:A:358:ALA:C	2.62	0.42
1:A:419:SER:C	1:A:420:PHE:CD2	2.97	0.42
1:A:571:LEU:HG	1:A:812:ALA:HB2	2.02	0.42
1:A:721:GLY:C	1:A:723:ARG:N	2.75	0.42
1:A:837:GLU:O	1:A:901:LEU:CD1	2.65	0.42
1:A:1132:THR:O	1:A:1133:LEU:C	2.62	0.42
1:A:1231:ASN:OD1	1:A:1231:ASN:C	2.63	0.42
1:A:1548:ARG:HG2	1:A:1550:GLN:CD	2.45	0.42
2:B:123:TYR:O	2:B:124:GLN:C	2.61	0.42
2:B:172:LEU:C	2:B:173:VAL:CG2	2.93	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:222:TYR:CD2	1:C:223:VAL:C	2.97	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:1148:THR:O	1:C:1149:VAL:C	2.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:D:951:ASP:C	2:D:953:ARG:H	2.19	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
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:491:PRO:O	1:A:491:PRO:CG	2.67	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:1022:PHE:C	1:A:1024:TYR:N	2.76	0.42
1:A:1208:ILE:O	1:A:1208: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
1:A:1548:ARG:C	1:A:1550:GLN:N	2.73	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: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: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:296:ILE:CG2	1:C:297:ALA:N	2.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1426:ILE:O	1:C:1427:SER:C	2.62	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: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:622:GLU:CD	2:D:637:LYS:HD3	2.44	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:1398:ASP:C	1:A:1399:TYR:CD2	2.98	0.42
1:A:1639:LEU:HA	1:A:1639:LEU:HD22	1.76	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: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: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:131:ASP:C	1:C:132:LYS:HG2	2.43	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:1024:TYR:O	1:C:1025:LEU:C	2.63	0.42
1:C:1190:ILE:CG1	1:C:1253:TYR:CE1	2.99	0.42
1:C:1231:ASN:OD1	1:C:1231:ASN:C	2.63	0.42
1:C:1386:ILE:HG22	1:C:1399:TYR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1440:LYS:O	1:C:1443:VAL:HG12	2.20	0.42
1:C:1548:ARG:C	1:C:1550:GLN:N	2.74	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: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
2:D:1633:TYR:HE1	2:D:1637:GLU:OE1	2.03	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:1641:SER:C	1:A:1643:THR:N	2.69	0.42
1:A:1643:THR:HG22	1:A:1644:TRP:H	1.82	0.42
2:B:79:GLY:C	2:B:81:MET:N	2.78	0.42
2:B:121:LEU:HA	2:B:121:LEU:HD12	1.72	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:861:THR:C	2:B:863:GLY:N	2.77	0.42
2:B:1403:GLY:C	2:B:1405:ASP:H	2.26	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:348:VAL:C	1:C:350:SER:H	2.28	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:79:GLY:C	2:D:81:MET:H	2.27	0.42
2:D:123:TYR:O	2:D:124:GLN:C	2.62	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:1575:LEU:N	2:D:1575:LEU:CD2	2.83	0.42
3:X:157:LYS:HD3	3:X:157:LYS:HA	1.83	0.42
3:Y:60:VAL:HG23	3:Y:60:VAL:O	2.19	0.42
1:A:311:SER:C	1:A:313:TYR:H	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1199:ASP:C	1:A:1201:THR:N	2.78	0.42
1:A:1297:LEU:CD1	1:A:1297:LEU:H	2.33	0.42
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:1294:TYR:CD2	2:B:1294:TYR:O	2.73	0.42
1:C:75:SER:C	1:C:77:ASN:H	2.26	0.42
1:C:77:ASN:C	1:C:79:PHE:N	2.78	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:1066:TYR:N	1:C:1066:TYR:HD1	2.18	0.42
1:C:1365:VAL:C	1:C:1366:HIS:ND1	2.78	0.42
1:C:1652:THR:HG22	1:C:1653:THR:N	2.35	0.42
2:D:869:GLN:O	2:D:870:PHE:HB3	2.20	0.42
2:D:955:PRO:O	2:D:956:ASP:C	2.63	0.42
2:D:1391:LEU:HD12	2:D:1417:MET:HE2	2.01	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
2:D:1615:GLU:O	2:D:1616:CYS:C	2.60	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:277:ASP:O	1:A:278:ASP:C	2.62	0.42
1:A:379:LEU:O	1:A:380:ASP:C	2.62	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:470:ALA:C	2:B:472:SER:H	2.28	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:78:LYS:C	1:C:80:GLN:N	2.76	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
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
1:C:1013:MET:C	1:C:1015:VAL:N	2.77	0.42
2:D:358:MET:HE2	2:D:467:LYS:HD2	2.02	0.42
2:D:416:ASN:CA	2:D:425:GLN:HE22	2.22	0.42
2:D:1349:VAL:O	2:D:1350:GLU:HB3	2.20	0.42
2:D:1556:PRO:C	2:D:1558:ALA:N	2.76	0.42
2:D:1615:GLU:HB3	2:D:1621:PHE:CE1	2.54	0.42
1:A:81:ASN:CG	1:A:82:SER:N	2.78	0.41
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:1103:SER:O	1:A:1104:LEU:C	2.62	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:622:GLU:CD	2:B:637:LYS:HD3	2.45	0.41
2:B:955:PRO:O	2:B:956:ASP:C	2.62	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:129:HIS:ND1	1:C:146:TYR:OH	2.45	0.41
1:C:308:LYS:CG	1:C:309:GLU:N	2.82	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:1108:VAL:CG2	1:C:1167:ALA:CB	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1265:ASN:C	1:C:1267:VAL:N	2.74	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:602:ILE:O	2:D:603:GLU:C	2.62	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:X:125:LYS:CA	3:X:126:ASN:C	2.92	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
4:E:1:NAG:O3	4:E:2:NAG:O5	2.38	0.41
1:A:119:ILE:C	1:A:119:ILE:CD1	2.93	0.41
1:A:602:LEU:HA	1:A:801:GLY:HA2	2.02	0.41
1:A:641:ASN:C	1:A:643:ALA:N	2.78	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:1160:PRO:O	1:A:1161:LEU:C	2.62	0.41
1:A:1423:VAL:HG22	1:A:1496:TYR:HE2	1.85	0.41
1:A:1660:PHE:O	1:A:1661:LEU:C	2.62	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:764:GLU:O	2:B:765:GLU:C	2.62	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:315:LEU:C	1:C:317:ASP:N	2.79	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:1134:PRO:O	1:C:1135:VAL:C	2.63	0.41
1:C:1342:LEU:HG	1:C:1342:LEU:H	1.50	0.41
2:D:355:LYS:HA	2:D:356:PRO:HD3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:838:ASN:OD1	2:D:838:ASN:C	2.62	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:117:MET:HE2	1:A:117:MET:HB2	1.82	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:781:PRO:C	1:A:783:ARG:H	2.27	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
1:A:1610:GLU:C	1:A:1611:LEU:HD23	2.45	0.41
2:B:76:ASN:CB	2:B:77:PRO:HD2	2.46	0.41
2:B:481:TYR:CE2	2:B:493:GLY:N	2.88	0.41
2:B:577:LEU:CD1	2:B:776:MET:HE1	2.49	0.41
2:B:870:PHE:C	2:B:870:PHE:CD2	2.97	0.41
2:B:1407:TYR:C	2:B:1407:TYR:CD2	2.98	0.41
2:B:1430:VAL:HA	2:B:1436:GLU:OE2	2.21	0.41
2:B:1444:LYS:HZ3	2:B:1447:GLU:HA	1.85	0.41
2:B:1476:LYS:HB3	2:B:1476:LYS:HE3	1.90	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:970:LYS:C	1:C:971:THR:HG23	2.44	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:1552:ALA:HB2	1:C:1620:MET:HE3	2.02	0.41
1:C:1565:ILE:HB	1:C:1614:GLY:N	2.36	0.41
2:D:26:THR:HG1	2:D:44:GLU:HB2	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1313:VAL:CG2	2:D:1323:MET:HE1	2.51	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:1231:ASN:O	1:A:1232:LEU:C	2.62	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:581:ASP:C	2:B:583:ALA:N	2.78	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
2:B:1614:ASP:O	2:B:1615:GLU:C	2.62	0.41
1:C:146:TYR:CD1	1:C:182:ILE:HG23	2.55	0.41
1:C:185:PHE:CB	1:C:186:PRO:HD2	2.50	0.41
1:C:240:TYR:O	1:C:241:LYS:C	2.62	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
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
2:D:825:VAL:C	2:D:828:GLU:HG3	2.44	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
1:A:163:PHE:N	1:A:163:PHE:CD1	2.88	0.41
1:A:240:TYR:O	1:A:241:LYS:C	2.63	0.41
1:A:461:SER:C	1:A:463:SER:N	2.74	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:1090:ASN:C	1:A:1092:TYR:N	2.79	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: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:445:LEU:HD23	2:B:533:ALA:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:866:TYR:CD2	2:B:866:TYR:C	2.98	0.41
2:B:1575:LEU:N	2:B:1575:LEU:HD22	2.34	0.41
2:B:1619:GLU:C	2:B:1621:PHE:N	2.76	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: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: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: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:224:PHE:HE1	2:D:320:VAL:HG11	1.85	0.41
2:D:424:ARG:O	2:D:425:GLN:C	2.63	0.41
2:D:1435:ASP:CG	4:H:1:NAG:H81	2.45	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
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:1013:MET:C	1:A:1015:VAL:N	2.79	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:1265:ASN:C	1:A:1267:VAL:N	2.73	0.41
1:A:1327:LYS:C	1:A:1332:ASN:HD22	2.28	0.41
1:A:1652:THR:HG22	1:A:1653:THR:N	2.36	0.41
2:B:358:MET:HA	2:B:359:PRO:HD3	1.97	0.41
2:B:478:TYR:HD1	2:B:478:TYR:C	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1370:ARG:NH1	2:B:1372:LEU:HG	2.34	0.41
1:C:38:ASN:HA	1:C:84:ILE:CG2	2.44	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:1072:GLY:C	1:C:1073:SER:O	2.64	0.41
1:C:1162:VAL:O	1:C:1163:LYS:C	2.62	0.41
1:C:1179:THR:HG22	1:C:1208:ILE:HD13	1.98	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:804:GLU:CD	2:D:805:PRO:HD2	2.46	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:1190:ILE:O	1:A:1191:SER:C	2.64	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
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:613:SER:C	2:B:620:VAL:HG23	2.46	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:908:GLY:C	2:B:909:VAL:HG23	2.46	0.41
2:B:1391:LEU:HA	2:B:1392:PRO:HD3	1.88	0.41
1:C:277:ASP:O	1:C:278:ASP:C	2.63	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:1231:ASN:O	1:C:1232:LEU:C	2.63	0.41
1:C:1244:THR:HG23	1:C:1502:ASP:CG	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:390:THR:HG22	2:D:394:GLY:C	2.44	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
1:A:23:TYR:CD1	1:A:23:TYR:C	2.98	0.41
1:A:185:PHE:CB	1:A:186:PRO:HD2	2.51	0.41
1:A:396:ASP:CG	1:A:400:GLU:HB2	2.45	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
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:417:HIS:C	2:B:419:ASP:H	2.29	0.41
2:B:822:TYR:CD1	2:B:822:TYR:O	2.74	0.41
2:B:842:GLU:O	2:B:843:ASP:C	2.62	0.41
2:B:965:ILE:HD13	2:B:1277:ILE:HD13	2.03	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:162:THR:HB	1:C:173:MET:CE	2.50	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:953:ILE:CD1	1:C:955:ARG:HH21	2.33	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:352:LYS:HG3	2:D:430:MET:HE1	2.02	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
2:D:1584:TRP:CD1	2:D:1584:TRP:C	2.98	0.41
3:Y:44:ARG:O	3:Y:45:ASP:C	2.64	0.41
3:Y:52:SER:OG	3:Y:53:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:61:SER:C	3:Y:75:PHE:CZ	2.99	0.41
3:Y:138:VAL:HG11	3:Y:177:TYR:CD2	2.56	0.41
3:Y:146:LEU:HD22	3:Y:147:ASP:C	2.45	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:189:LYS:C	1:A:190:ILE:O	2.64	0.41
1:A:457:TYR:C	1:A:457:TYR:CD2	2.99	0.41
1:A:724:CYS:O	1:A:725:ILE:C	2.64	0.41
1:A:734:VAL:O	1:A:737:GLN:HB2	2.21	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:1148:THR:O	1:A:1149:VAL:C	2.64	0.41
1:A:1188:LEU:HD23	1:A:1212:LEU:CA	2.51	0.41
1:A:1192:ALA:O	1:A:1193:TYR:C	2.62	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:1565:ILE:HB	1:A:1614:GLY:N	2.36	0.41
2:B:45:ALA:HB3	2:B:81:MET:CE	2.46	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:383:ALA:C	2:B:384:PHE:HD2	2.28	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: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
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:291:MET:HE2	1:C:291:MET:HB3	1.49	0.41
1:C:354:LEU:H	1:C:354:LEU:HD23	1.85	0.41
1:C:437:THR:HG1	1:C:448:ALA:H	1.67	0.41
1:C:560:TRP:CH2	1:C:562:ASN:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:1332:ASN:O	1:C:1333:PHE:C	2.64	0.41
1:C:1342:LEU:HD23	1:C:1342:LEU:N	2.36	0.41
1:C:1431:GLY:C	1:C:1432:ILE:HD13	2.46	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: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: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:908:GLY:C	2:D:909:VAL:HG23	2.46	0.41
2:D:1279:ILE:HD13	2:D:1279:ILE:HA	1.86	0.41
2:D:1350:GLU:C	2:D:1350:GLU:CD	2.89	0.41
2:D:1403:GLY:C	2:D:1405:ASP:H	2.27	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:1505:ARG:CD	2:D:1623:LYS:HZ2	2.34	0.41
2:D:1506:ILE:HB	2:D:1627:ASP:HB3	2.02	0.41
2:D:1521:ASP:OD1	2:D:1552:THR:OG1	2.36	0.41
3:X:217:ASN:HB2	3:X:220:ASP:CG	2.46	0.41
3:X:221:ILE:O	3:X:222:ARG:C	2.64	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:805:SER:O	1:A:806:ASN:C	2.64	0.41
1:A:967:LEU:HD12	1:A:968:VAL:H	1.86	0.41
1:A:970:LYS:C	1:A:971:THR:HG23	2.46	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:1569:THR:C	1:A:1570:VAL:HG23	2.46	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:438:GLN:O	2:B:439:GLY:C	2.64	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: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:647:HIS:C	1:C:649:ALA:H	2.28	0.41
1:C:734:VAL:O	1:C:737:GLN:HB2	2.21	0.41
1:C:1064:TYR:HD2	1:C:1102:ASN:CG	2.29	0.41
1:C:1240:PRO:C	1:C:1242:THR:H	2.27	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
3:Y:125:LYS:CA	3:Y:126:ASN:C	2.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:827:MET:HB3	1:A:829:ILE:CD1	2.52	0.40
1:A:1022:PHE:O	1:A:1023:HIS:C	2.64	0.40
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:251:TYR:O	2:B:252:LEU:C	2.63	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: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
1:C:54:ILE:HA	1:C:105:GLU:O	2.21	0.40
1:C:136:THR:O	1:C:137:PRO:C	2.65	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
1:C:1660:PHE:O	1:C:1661:LEU:C	2.64	0.40
2:D:1407:TYR:C	2:D:1407:TYR:CD2	2.99	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:222:TYR:CE2	1:A:223:VAL:C	3.00	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:756:THR:C	1:A:757:LEU:HD23	2.46	0.40
1:A:889:GLU:HB2	1:A:892:SER:HB2	2.04	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:1274:LEU:O	1:A:1275:SER:C	2.64	0.40
1:A:1542:THR:O	1:A:1543:ILE:C	2.64	0.40
2:B:150:MET:HG3	2:B:602:ILE:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:352:LYS:HG3	2:B:430:MET:CE	2.51	0.40
2:B:382:GLU:CD	2:B:382:GLU:H	2.20	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
1:C:162:THR:HG23	1:C:202:LYS:HB2	2.03	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:724:CYS:O	1:C:725:ILE:C	2.64	0.40
1:C:905:ILE:O	1:C:905:ILE:HG22	2.18	0.40
1:C:941:GLY:HA2	1:C:1359:VAL:O	2.22	0.40
1:C:961:TYR:C	1:C:961:TYR:HD1	2.27	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
1:C:1499:HIS:C	1:C:1500:ARG:HG3	2.47	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: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:1162:VAL:O	1:A:1163:LYS:C	2.65	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:1450:PHE:HB3	1:A:1463:GLN:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:476:ILE:CG1	2:B:524:TYR:CD2	3.04	0.40
2:B:481:TYR:CE2	2:B:493:GLY:C	2.98	0.40
2:B:482:LEU:CB	2:B:492:VAL:HG23	2.35	0.40
2:B:1417:MET:HE3	2:B:1443:LEU:HB2	2.03	0.40
2:B:1500:LEU:C	2:B:1500:LEU:HD13	2.44	0.40
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:395:ILE:HD12	1:C:395:ILE:C	2.46	0.40
1:C:417:VAL:O	1:C:417:VAL:HG12	2.18	0.40
1:C:602:LEU:HA	1:C:801:GLY:HA2	2.03	0.40
1:C:914:LEU:O	1:C:914:LEU:HG	2.20	0.40
1:C:1008:ALA:C	1:C:1010:ALA:N	2.79	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:164:GLU:HB2	2:D:200:VAL:HG23	2.03	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:718:ILE:HB	1:A:725:ILE:CD1	2.51	0.40
1:A:1008:ALA:C	1:A:1010:ALA:N	2.79	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:175:SER:C	2:B:176:ASN:HD22	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:1430:THR:O	1:C:1430:THR:HG22	2.21	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
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:88:GLN:O	1:A:89:PRO:C	2.64	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:395:ILE:HD12	1:A:395:ILE:C	2.47	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: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:222:TYR:CE2	1:C:223:VAL:C	3.00	0.40
1:C:284:GLN:HG2	1:C:310:LEU:HD11	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:950:TYR:C	1:C:952:THR:N	2.76	0.40
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:1228:TRP:N	1:C:1228:TRP:HE3	2.20	0.40
1:C:1229:LYS:HZ3	1:C:1240:PRO:CD	2.33	0.40
1:C:1467:ILE:HA	1:C:1468:PRO:HD3	1.83	0.40
1:C:1569:THR:C	1:C:1570:VAL:HG23	2.47	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:854:PRO:C	2:D:856:PHE:H	2.29	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:1493:ALA:C	2:D:1495:GLU:H	2.30	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	8
1	C	1616/1676 (96%)	1179 (73%)	290 (18%)	147 (9%)	0	8
2	B	1203/1642 (73%)	981 (82%)	176 (15%)	46 (4%)	2	19
2	D	1203/1642 (73%)	982 (82%)	177 (15%)	44 (4%)	2	20
3	X	189/231 (82%)	148 (78%)	31 (16%)	10 (5%)	1	15
3	Y	189/231 (82%)	150 (79%)	28 (15%)	11 (6%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	6016/7098 (85%)	4605 (76%)	1002 (17%)	409 (7%)	<b>1</b> <b>12</b>

All (409) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	21	GLN
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	1538	GLU
1	A	1573	VAL
1	A	1609	ALA
1	A	1628	LYS
1	A	1638	PRO
1	A	1639	LEU
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	998	ASN
1	C	1096	ASN
1	C	1232	LEU
1	C	1242	THR
1	C	1264	ILE
1	C	1286	SER
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	596	MET
1	A	614	ARG
1	A	623	VAL
1	A	639	GLY
1	A	656	ASN
1	A	659	ALA
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	166	PRO
1	C	181	GLY
1	C	187	ASP
1	C	255	PHE
1	C	312	TYR
1	C	318	LEU
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	D	1603	LYS
3	Y	82	HIS
1	A	171	VAL
1	A	255	PHE
1	A	287	MET
1	A	642	ASN
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	931	PRO
1	C	997	ILE
1	C	1001	THR
1	C	1014	SER
1	C	1073	SER
1	C	1122	SER
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	1666	GLU
2	B	142	PRO
2	B	310	VAL
2	B	764	GLU
2	B	862	LYS
1	C	137	PRO
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	1200	LYS
1	A	1239	VAL
1	A	1352	PHE
1	A	1398	ASP
2	B	193	SER
2	B	1286	VAL
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

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Mol	Chain	Res	Type
1	C	760	VAL
1	C	1006	GLY
1	C	1135	VAL
2	D	512	PRO
3	X	76	ASN
3	Y	76	ASN
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%)	1046 (72%)	399 (28%)	0	3
1	C	1445/1484 (97%)	1053 (73%)	392 (27%)	0	3
2	B	1084/1435 (76%)	837 (77%)	247 (23%)	1	6
2	D	1084/1435 (76%)	843 (78%)	241 (22%)	1	6
3	X	175/205 (85%)	141 (81%)	34 (19%)	1	8
3	Y	175/205 (85%)	143 (82%)	32 (18%)	2	10
All	All	5408/6248 (87%)	4063 (75%)	1345 (25%)	0	4

All (1345) 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	30	ILE
1	A	32	ARG
1	A	40	VAL
1	A	41	ILE
1	A	42	GLN
1	A	43	VAL
1	A	46	TYR
1	A	54	ILE
1	A	55	SER
1	A	58	SER
1	A	63	LYS
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	110	HIS
1	A	114	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	117	MET
1	A	119	ILE
1	A	125	PHE
1	A	126	LEU
1	A	128	ILE
1	A	131	ASP
1	A	134	VAL
1	A	136	THR
1	A	143	VAL
1	A	144	ARG
1	A	147	SER
1	A	148	LEU
1	A	149	ASN
1	A	152	LEU
1	A	157	ARG
1	A	161	LEU
1	A	162	THR
1	A	167	GLU
1	A	169	SER
1	A	170	GLU
1	A	176	GLU
1	A	182	ILE
1	A	183	ILE
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	219	VAL
1	A	222	TYR
1	A	223	VAL
1	A	224	LEU
1	A	228	SER
1	A	230	SER
1	A	231	ILE
1	A	238	ILE
1	A	240	TYR
1	A	242	ASN
1	A	249	THR
1	A	251	LYS
1	A	255	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	261	THR
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	298	GLN
1	A	307	VAL
1	A	310	LEU
1	A	315	LEU
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	383	VAL
1	A	388	VAL
1	A	389	THR
1	A	394	THR
1	A	404	LEU
1	A	413	VAL
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	437	THR
1	A	442	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	477	LEU
1	A	483	ASN
1	A	484	ILE
1	A	487	THR
1	A	492	TYR
1	A	493	ILE
1	A	495	LYS
1	A	496	ILE
1	A	497	THR
1	A	504	LEU
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	540	LEU
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	555	VAL
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	599	TRP
1	A	605	VAL
1	A	609	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	645	VAL
1	A	648	LEU
1	A	652	THR
1	A	654	LEU
1	A	658	ASN
1	A	663	GLN
1	A	669	CYS
1	A	679	LEU
1	A	684	GLU
1	A	700	TYR
1	A	701	ASP
1	A	710	THR
1	A	711	CYS
1	A	713	GLN
1	A	754	MET
1	A	756	THR
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	795	THR
1	A	800	GLN
1	A	804	ILE
1	A	805	SER
1	A	809	ILE
1	A	811	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	813	ASP
1	A	824	PHE
1	A	825	LEU
1	A	833	VAL
1	A	838	GLN
1	A	839	ILE
1	A	844	THR
1	A	845	VAL
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	872	VAL
1	A	876	GLN
1	A	887	LYS
1	A	895	LEU
1	A	899	THR
1	A	901	LEU
1	A	905	ILE
1	A	915	GLU
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	953	ILE
1	A	955	ARG
1	A	965	LEU
1	A	972	GLU
1	A	973	ILE
1	A	975	ARG
1	A	977	LEU
1	A	979	VAL
1	A	980	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	982	LEU
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	1067	SER
1	A	1070	LYS
1	A	1079	THR
1	A	1089	VAL
1	A	1091	LYS
1	A	1098	ASN
1	A	1105	LEU
1	A	1107	LEU
1	A	1108	VAL
1	A	1110	ASN
1	A	1113	LEU
1	A	1125	GLN
1	A	1127	ILE
1	A	1128	LYS
1	A	1132	THR
1	A	1133	LEU
1	A	1136	GLU
1	A	1140	ASN
1	A	1142	LEU
1	A	1144	LEU
1	A	1145	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	1150	ILE
1	A	1166	THR
1	A	1168	LEU
1	A	1179	THR
1	A	1180	LEU
1	A	1184	SER
1	A	1188	LEU
1	A	1190	ILE
1	A	1196	SER
1	A	1200	LYS
1	A	1201	THR
1	A	1207	SER
1	A	1209	VAL
1	A	1217	LEU
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	1294	ILE
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	1328	MET
1	A	1329	THR
1	A	1331	LYS
1	A	1334	LEU
1	A	1336	ARG
1	A	1338	VAL
1	A	1341	LEU
1	A	1342	LEU
1	A	1346	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	1374	VAL
1	A	1376	SER
1	A	1381	ILE
1	A	1401	ARG
1	A	1416	SER
1	A	1423	VAL
1	A	1426	ILE
1	A	1430	THR
1	A	1446	VAL
1	A	1455	ILE
1	A	1459	HIS
1	A	1462	LEU
1	A	1464	LEU
1	A	1470	SER
1	A	1473	LEU
1	A	1474	CYS
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	1495	VAL
1	A	1496	TYR
1	A	1500	ARG
1	A	1502	ASP
1	A	1503	LYS
1	A	1507	MET
1	A	1525	CYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	1529	GLU
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	1584	ILE
1	A	1585	TYR
1	A	1589	GLU
1	A	1602	LYS
1	A	1604	VAL
1	A	1606	CYS
1	A	1607	THR
1	A	1611	LEU
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	1646	GLU
1	A	1654	CYS
1	A	1664	LEU
2	B	40	GLN
2	B	43	VAL
2	B	54	LEU
2	B	56	ILE
2	B	58	VAL
2	B	68	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	69	PHE
2	B	71	THR
2	B	73	VAL
2	B	74	ASP
2	B	82	LEU
2	B	86	THR
2	B	87	ILE
2	B	105	VAL
2	B	106	VAL
2	B	108	VAL
2	B	113	VAL
2	B	114	ARG
2	B	119	VAL
2	B	120	LEU
2	B	121	LEU
2	B	124	GLN
2	B	138	THR
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	202	LYS
2	B	206	SER
2	B	211	THR
2	B	220	VAL
2	B	221	LEU
2	B	226	VAL
2	B	257	VAL
2	B	264	LEU
2	B	274	LYS
2	B	280	LEU
2	B	285	ILE
2	B	296	ARG
2	B	306	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	317	SER
2	B	320	VAL
2	B	328	MET
2	B	337	HIS
2	B	338	ILE
2	B	341	SER
2	B	344	GLN
2	B	345	ILE
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	412	THR
2	B	422	ARG
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	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	514	LEU
2	B	518	PHE
2	B	519	ARG
2	B	521	VAL
2	B	524	TYR
2	B	525	GLN
2	B	526	VAL
2	B	528	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	531	ILE
2	B	532	VAL
2	B	543	THR
2	B	544	CYS
2	B	555	LEU
2	B	556	ILE
2	B	559	PRO
2	B	563	MET
2	B	564	LYS
2	B	567	LEU
2	B	574	ARG
2	B	578	VAL
2	B	582	LYS
2	B	584	VAL
2	B	588	ASN
2	B	593	ILE
2	B	594	SER
2	B	598	ILE
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	838	ASN
2	B	840	VAL
2	B	851	LEU
2	B	857	CYS
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	894	VAL
2	B	896	ILE
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	940	THR
2	B	944	VAL
2	B	946	LYS
2	B	948	ARG
2	B	952	ASP
2	B	954	VAL
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	1293	ASN
2	B	1298	LEU
2	B	1301	ARG
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	1330	ASN
2	B	1344	HIS
2	B	1350	GLU
2	B	1351	ASN
2	B	1353	HIS
2	B	1365	LEU
2	B	1367	ILE
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	1413	VAL
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	1448	VAL
2	B	1451	ILE
2	B	1456	VAL
2	B	1459	TYR
2	B	1464	LEU
2	B	1465	ASP
2	B	1475	ASP
2	B	1480	LEU
2	B	1481	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	1490	CYS
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	1526	THR
2	B	1529	LEU
2	B	1535	ASP
2	B	1539	ILE
2	B	1566	GLN
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	1622	GLN
2	B	1623	LYS
2	B	1631	PHE
2	B	1634	THR
1	C	20	GLU
1	C	21	GLN
1	C	22	THR
1	C	23	TYR
1	C	24	VAL
1	C	30	ILE
1	C	40	VAL
1	C	41	ILE
1	C	42	GLN
1	C	43	VAL
1	C	46	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	54	ILE
1	C	55	SER
1	C	58	SER
1	C	63	LYS
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	110	HIS
1	C	114	SER
1	C	117	MET
1	C	119	ILE
1	C	125	PHE
1	C	126	LEU
1	C	128	ILE
1	C	131	ASP
1	C	134	VAL
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	231	ILE
1	C	238	ILE
1	C	240	TYR
1	C	242	ASN
1	C	249	THR
1	C	251	LYS
1	C	255	PHE
1	C	261	THR
1	C	268	THR
1	C	276	LYS
1	C	279	GLN
1	C	287	MET
1	C	289	ASN
1	C	291	MET
1	C	292	LEU
1	C	294	ASN
1	C	296	ILE
1	C	307	VAL
1	C	310	LEU
1	C	315	LEU
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	388	VAL
1	C	389	THR
1	C	394	THR
1	C	404	LEU
1	C	413	VAL
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	437	THR
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	477	LEU
1	C	483	ASN
1	C	484	ILE
1	C	487	THR
1	C	492	TYR
1	C	493	ILE
1	C	495	LYS
1	C	496	ILE
1	C	497	THR
1	C	502	LEU
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	555	VAL
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	609	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	645	VAL
1	C	648	LEU
1	C	652	THR
1	C	654	LEU
1	C	658	ASN
1	C	663	GLN
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	754	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	756	THR
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	804	ILE
1	C	805	SER
1	C	809	ILE
1	C	811	VAL
1	C	813	ASP
1	C	824	PHE
1	C	825	LEU
1	C	833	VAL
1	C	838	GLN
1	C	839	ILE
1	C	844	THR
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	872	VAL
1	C	876	GLN
1	C	887	LYS
1	C	895	LEU
1	C	899	THR
1	C	900	VAL
1	C	901	LEU
1	C	905	ILE
1	C	915	GLU
1	C	916	THR
1	C	917	TRP
1	C	928	ARG
1	C	935	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	936	ARG
1	C	942	VAL
1	C	944	LEU
1	C	945	ASP
1	C	952	THR
1	C	953	ILE
1	C	955	ARG
1	C	965	LEU
1	C	972	GLU
1	C	973	ILE
1	C	975	ARG
1	C	977	LEU
1	C	979	VAL
1	C	980	LYS
1	C	982	LEU
1	C	983	LEU
1	C	984	VAL
1	C	988	LEU
1	C	999	ILE
1	C	1001	THR
1	C	1002	HIS
1	C	1003	LEU
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	1067	SER
1	C	1070	LYS
1	C	1079	THR
1	C	1089	VAL
1	C	1091	LYS
1	C	1098	ASN
1	C	1105	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	1107	LEU
1	C	1108	VAL
1	C	1110	ASN
1	C	1113	LEU
1	C	1125	GLN
1	C	1127	ILE
1	C	1128	LYS
1	C	1132	THR
1	C	1133	LEU
1	C	1136	GLU
1	C	1140	ASN
1	C	1142	LEU
1	C	1144	LEU
1	C	1145	THR
1	C	1150	ILE
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	1207	SER
1	C	1209	VAL
1	C	1230	ASP
1	C	1232	LEU
1	C	1246	ARG
1	C	1264	ILE
1	C	1268	ASN
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	1328	MET
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
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	1374	VAL
1	C	1376	SER
1	C	1381	ILE
1	C	1401	ARG
1	C	1402	ILE
1	C	1416	SER
1	C	1423	VAL
1	C	1426	ILE
1	C	1430	THR
1	C	1446	VAL
1	C	1455	ILE
1	C	1459	HIS
1	C	1462	LEU
1	C	1464	LEU
1	C	1470	SER
1	C	1473	LEU
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	1493	PHE
1	C	1494	THR
1	C	1495	VAL
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	1542	THR
1	C	1548	ARG
1	C	1549	LYS
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	1584	ILE
1	C	1585	TYR
1	C	1589	GLU
1	C	1602	LYS
1	C	1604	VAL
1	C	1606	CYS
1	C	1607	THR
1	C	1611	LEU
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	1646	GLU
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	73	VAL
2	D	74	ASP
2	D	82	LEU
2	D	86	THR
2	D	87	ILE
2	D	105	VAL
2	D	108	VAL
2	D	113	VAL
2	D	114	ARG
2	D	119	VAL
2	D	120	LEU
2	D	121	LEU
2	D	124	GLN
2	D	146	ARG
2	D	147	VAL
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	202	LYS
2	D	206	SER
2	D	211	THR
2	D	220	VAL
2	D	221	LEU
2	D	226	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	D	248	THR
2	D	257	VAL
2	D	264	LEU
2	D	280	LEU
2	D	285	ILE
2	D	297	ASP
2	D	306	LEU
2	D	314	LEU
2	D	317	SER
2	D	320	VAL
2	D	336	ILE
2	D	337	HIS
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	391	LEU
2	D	398	LEU
2	D	400	LEU
2	D	404	LEU
2	D	411	ILE
2	D	412	THR
2	D	422	ARG
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	476	ILE
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	D	507	ASN
2	D	511	THR
2	D	514	LEU
2	D	518	PHE
2	D	519	ARG
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	532	VAL
2	D	543	THR
2	D	544	CYS
2	D	555	LEU
2	D	556	ILE
2	D	563	MET
2	D	564	LYS
2	D	567	LEU
2	D	574	ARG
2	D	578	VAL
2	D	582	LYS
2	D	584	VAL
2	D	588	ASN
2	D	593	ILE
2	D	594	SER
2	D	598	ILE
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	811	MET
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	838	ASN
2	D	840	VAL
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
2	D	884	ILE
2	D	889	GLN
2	D	891	LEU
2	D	894	VAL
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	944	VAL
2	D	946	LYS
2	D	948	ARG
2	D	952	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	D	954	VAL
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	1301	ARG
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	1330	ASN
2	D	1344	HIS
2	D	1350	GLU
2	D	1351	ASN
2	D	1353	HIS
2	D	1365	LEU
2	D	1367	ILE
2	D	1372	LEU
2	D	1378	THR
2	D	1380	THR
2	D	1401	SER
2	D	1404	VAL
2	D	1406	ARG
2	D	1413	VAL
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	D	1448	VAL
2	D	1456	VAL
2	D	1459	TYR
2	D	1464	LEU
2	D	1465	ASP
2	D	1475	ASP
2	D	1480	LEU
2	D	1481	LEU
2	D	1490	CYS
2	D	1492	CYS
2	D	1495	GLU
2	D	1496	THR
2	D	1497	CYS
2	D	1504	GLU
2	D	1512	ILE
2	D	1526	THR
2	D	1529	LEU
2	D	1535	ASP
2	D	1539	ILE
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	1623	LYS
2	D	1632	SER
2	D	1634	THR
2	D	1638	PHE
3	X	43	ILE
3	X	46	LEU
3	X	50	TYR
3	X	51	SER
3	X	63	LYS
3	X	65	GLU
3	X	66	ASN
3	X	67	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	X	72	VAL
3	X	73	VAL
3	X	80	GLN
3	X	85	PHE
3	X	91	LYS
3	X	94	TYR
3	X	105	VAL
3	X	106	VAL
3	X	116	LEU
3	X	117	SER
3	X	119	VAL
3	X	123	THR
3	X	132	THR
3	X	136	LEU
3	X	138	VAL
3	X	146	LEU
3	X	175	ASN
3	X	185	LYS
3	X	190	ILE
3	X	191	ILE
3	X	200	GLU
3	X	209	PHE
3	X	210	GLU
3	X	225	SER
3	X	228	ILE
3	X	229	ASN
3	Y	43	ILE
3	Y	46	LEU
3	Y	51	SER
3	Y	63	LYS
3	Y	65	GLU
3	Y	66	ASN
3	Y	67	TYR
3	Y	72	VAL
3	Y	73	VAL
3	Y	80	GLN
3	Y	85	PHE
3	Y	91	LYS
3	Y	94	TYR
3	Y	105	VAL
3	Y	106	VAL
3	Y	117	SER

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Mol	Chain	Res	Type
3	Y	119	VAL
3	Y	123	THR
3	Y	132	THR
3	Y	136	LEU
3	Y	138	VAL
3	Y	146	LEU
3	Y	175	ASN
3	Y	185	LYS
3	Y	190	ILE
3	Y	191	ILE
3	Y	200	GLU
3	Y	209	PHE
3	Y	210	GLU
3	Y	225	SER
3	Y	228	ILE
3	Y	229	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (175) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	42	GLN
1	A	77	ASN
1	A	80	GLN
1	A	97	ASN
1	A	110	HIS
1	A	139	GLN
1	A	149	ASN
1	A	236	ASN
1	A	242	ASN
1	A	257	ASN
1	A	294	ASN
1	A	355	ASN
1	A	391	ASN
1	A	473	HIS
1	A	481	HIS
1	A	569	ASN
1	A	647	HIS
1	A	706	ASN
1	A	785	GLN
1	A	800	GLN
1	A	838	GLN
1	A	854	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	875	HIS
1	A	876	GLN
1	A	909	ASN
1	A	998	ASN
1	A	1023	HIS
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	1319	HIS
1	A	1360	HIS
1	A	1366	HIS
1	A	1536	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	244	HIS
2	B	333	GLN
2	B	344	GLN
2	B	407	GLN
2	B	417	HIS
2	B	446	HIS
2	B	459	ASN
2	B	469	ASN
2	B	507	ASN
2	B	525	GLN
2	B	528	ASN
2	B	615	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	819	GLN
2	B	829	GLN
2	B	889	GLN
2	B	901	GLN
2	B	921	GLN
2	B	1330	ASN
2	B	1341	ASN
2	B	1463	ASN
2	B	1473	HIS
2	B	1501	ASN
2	B	1503	GLN
2	B	1562	GLN
2	B	1622	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	320	ASN
1	C	355	ASN
1	C	391	ASN
1	C	473	HIS
1	C	481	HIS
1	C	511	HIS
1	C	527	ASN
1	C	550	GLN
1	C	569	ASN
1	C	644	ASN
1	C	647	HIS
1	C	658	ASN
1	C	706	ASN
1	C	785	GLN
1	C	838	GLN
1	C	854	GLN
1	C	875	HIS
1	C	876	GLN
1	C	909	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	998	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	1234	HIS
1	C	1241	ASN
1	C	1260	ASN
1	C	1268	ASN
1	C	1306	GLN
1	C	1319	HIS
1	C	1360	HIS
1	C	1536	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	244	HIS
2	D	333	GLN
2	D	344	GLN
2	D	417	HIS
2	D	446	HIS
2	D	459	ASN
2	D	465	ASN
2	D	469	ASN
2	D	507	ASN
2	D	525	GLN
2	D	528	ASN
2	D	615	GLN
2	D	819	GLN
2	D	829	GLN
2	D	889	GLN

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Mol	Chain	Res	Type
2	D	921	GLN
2	D	1330	ASN
2	D	1341	ASN
2	D	1473	HIS
2	D	1503	GLN
2	D	1511	GLN
2	D	1562	GLN
2	D	1630	GLN
3	X	47	HIS
3	X	59	ASN
3	X	76	ASN
3	X	80	GLN
3	X	113	ASN
3	X	139	ASN
3	X	142	ASN
3	X	197	ASN
3	X	230	GLN
3	Y	47	HIS
3	Y	59	ASN
3	Y	71	ASN
3	Y	76	ASN
3	Y	80	GLN
3	Y	113	ASN
3	Y	139	ASN
3	Y	142	ASN
3	Y	197	ASN
3	Y	230	GLN

### 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	4,2	14,14,15	1.03	1 (7%)	17,19,21	2.05	5 (29%)
4	NAG	E	2	4	14,14,15	1.04	1 (7%)	17,19,21	2.46	6 (35%)
4	NAG	F	1	4,2	14,14,15	2.08	7 (50%)	17,19,21	3.34	8 (47%)
4	NAG	F	2	4	14,14,15	1.76	2 (14%)	17,19,21	2.30	6 (35%)
4	NAG	G	1	4,2	14,14,15	0.92	1 (7%)	17,19,21	2.00	6 (35%)
4	NAG	G	2	4	14,14,15	1.12	1 (7%)	17,19,21	1.77	4 (23%)
4	NAG	H	1	4,2	14,14,15	2.02	6 (42%)	17,19,21	3.50	8 (47%)
4	NAG	H	2	4	14,14,15	1.64	1 (7%)	17,19,21	2.34	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	4,2	-	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	4,2	-	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	4,2	-	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	4,2	-	2/6/23/26	0/1/1/1
4	NAG	H	2	4	-	5/6/23/26	0/1/1/1

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	2	NAG	C1-C2	5.62	1.60	1.52
4	H	2	NAG	C1-C2	5.45	1.59	1.52
4	F	1	NAG	C1-C2	4.22	1.58	1.52
4	H	1	NAG	C1-C2	3.70	1.57	1.52
4	E	1	NAG	C1-C2	3.11	1.56	1.52
4	F	1	NAG	O5-C1	2.99	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	H	1	NAG	C4-C3	2.93	1.59	1.52
4	F	1	NAG	C4-C3	2.74	1.59	1.52
4	F	1	NAG	C4-C5	2.72	1.58	1.53
4	G	2	NAG	C1-C2	2.62	1.55	1.52
4	G	1	NAG	C1-C2	2.60	1.55	1.52
4	H	1	NAG	O5-C1	2.56	1.48	1.43
4	H	1	NAG	O4-C4	2.55	1.49	1.43
4	H	1	NAG	C4-C5	2.44	1.58	1.53
4	H	1	NAG	C3-C2	2.44	1.57	1.52
4	F	1	NAG	O4-C4	2.37	1.48	1.43
4	E	2	NAG	C3-C2	2.30	1.57	1.52
4	F	1	NAG	C2-N2	2.29	1.50	1.46
4	F	1	NAG	C3-C2	2.19	1.57	1.52
4	F	2	NAG	C2-N2	2.02	1.49	1.46

All (49) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	H	1	NAG	C1-O5-C5	10.20	125.86	112.19
4	F	1	NAG	C1-O5-C5	9.39	124.78	112.19
4	E	2	NAG	C4-C3-C2	6.58	120.66	111.02
4	H	2	NAG	C1-C2-N2	5.97	119.84	110.43
4	F	2	NAG	C1-C2-N2	5.94	119.79	110.43
4	H	1	NAG	C2-N2-C7	5.73	130.58	122.90
4	F	1	NAG	C2-N2-C7	5.73	130.58	122.90
4	H	1	NAG	C4-C3-C2	5.29	118.77	111.02
4	E	2	NAG	C1-O5-C5	4.19	117.81	112.19
4	F	1	NAG	C4-C3-C2	4.16	117.11	111.02
4	H	2	NAG	C2-N2-C7	4.10	128.40	122.90
4	E	1	NAG	O5-C1-C2	4.07	117.58	111.29
4	G	2	NAG	C4-C3-C2	3.93	116.77	111.02
4	F	2	NAG	O5-C5-C6	3.79	115.03	107.66
4	E	1	NAG	C1-O5-C5	3.71	117.16	112.19
4	G	1	NAG	C1-O5-C5	3.64	117.06	112.19
4	G	1	NAG	O5-C1-C2	3.57	116.81	111.29
4	E	1	NAG	C1-C2-N2	3.56	116.05	110.43
4	G	1	NAG	C1-C2-N2	3.53	115.99	110.43
4	G	2	NAG	C2-N2-C7	3.45	127.52	122.90
4	H	1	NAG	O4-C4-C3	3.13	117.75	110.38
4	F	1	NAG	O5-C5-C4	3.12	118.42	110.83
4	F	2	NAG	C2-N2-C7	3.10	127.06	122.90
4	H	1	NAG	O5-C5-C4	3.09	118.34	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	1	NAG	O5-C1-C2	3.09	116.07	111.29
4	E	2	NAG	C2-N2-C7	3.07	127.01	122.90
4	F	1	NAG	O7-C7-N2	3.05	127.38	121.98
4	H	2	NAG	O5-C5-C6	3.01	113.53	107.66
4	F	2	NAG	O3-C3-C2	2.91	115.45	109.40
4	F	2	NAG	O5-C1-C2	-2.89	106.82	111.29
4	H	2	NAG	O5-C1-C2	-2.79	106.97	111.29
4	G	1	NAG	O3-C3-C2	-2.79	103.61	109.40
4	H	2	NAG	O7-C7-C8	-2.56	117.50	122.05
4	H	2	NAG	O3-C3-C2	2.52	114.63	109.40
4	G	2	NAG	C1-O5-C5	2.50	115.53	112.19
4	E	2	NAG	O5-C5-C4	-2.44	104.89	110.83
4	E	2	NAG	O4-C4-C3	2.43	116.10	110.38
4	E	2	NAG	O5-C5-C6	2.38	112.30	107.66
4	E	1	NAG	O3-C3-C4	2.35	115.92	110.38
4	H	1	NAG	O3-C3-C2	-2.34	104.54	109.40
4	F	2	NAG	O7-C7-C8	-2.33	117.91	122.05
4	H	1	NAG	O5-C1-C2	2.23	114.73	111.29
4	G	2	NAG	O7-C7-N2	2.20	125.87	121.98
4	F	1	NAG	O3-C3-C4	2.19	115.53	110.38
4	F	1	NAG	C8-C7-N2	-2.18	112.50	116.12
4	G	1	NAG	C3-C4-C5	-2.12	106.39	110.23
4	G	1	NAG	C4-C3-C2	-2.11	107.92	111.02
4	E	1	NAG	O3-C3-C2	-2.09	105.05	109.40
4	H	1	NAG	O7-C7-N2	2.07	125.63	121.98

There are no chirality outliers.

All (32) 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	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

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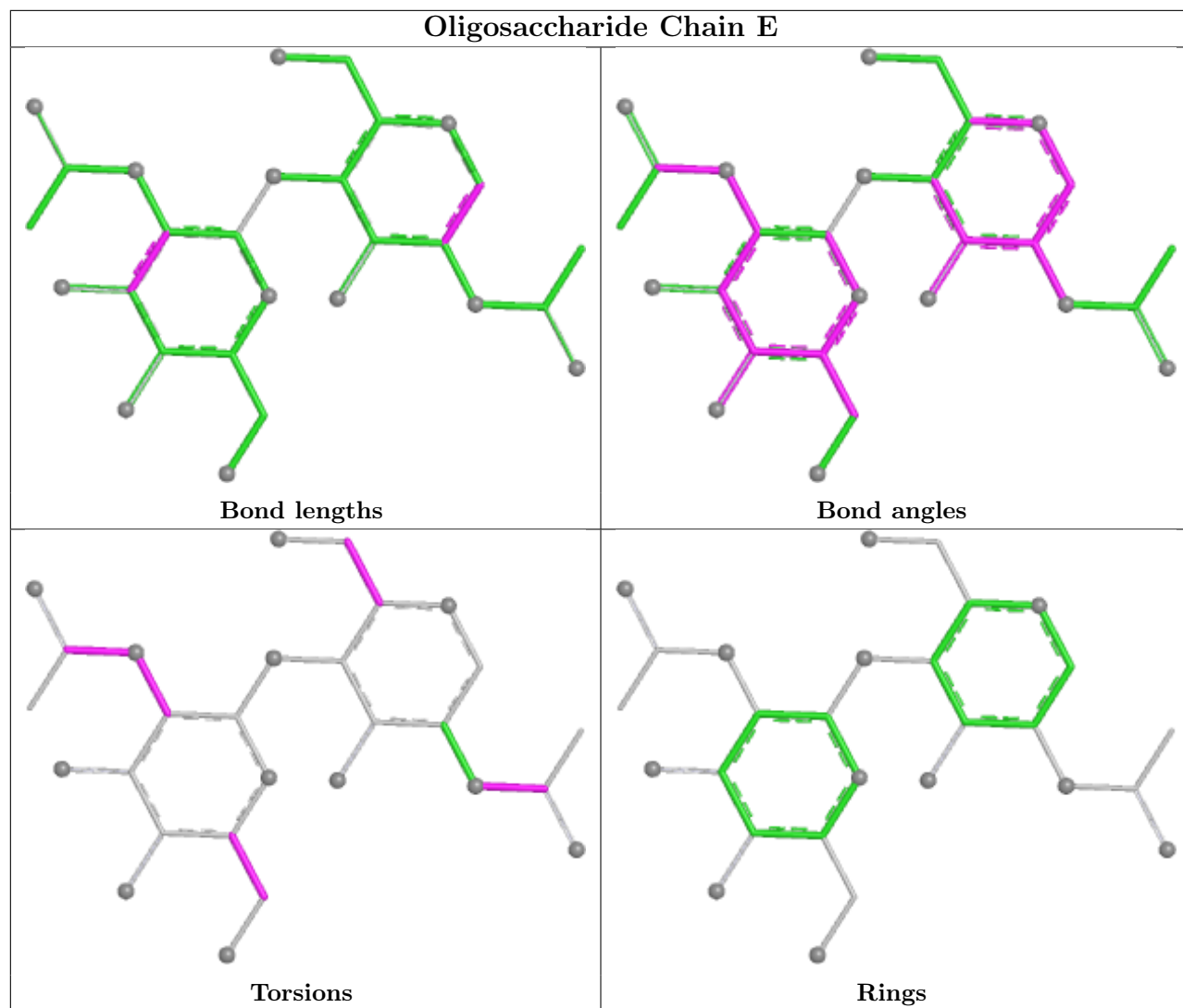
Mol	Chain	Res	Type	Atoms
4	G	2	NAG	C4-C5-C6-O6
4	E	2	NAG	C8-C7-N2-C2
4	G	2	NAG	C8-C7-N2-C2
4	G	2	NAG	O7-C7-N2-C2
4	E	2	NAG	O5-C5-C6-O6
4	G	2	NAG	O5-C5-C6-O6
4	F	1	NAG	C8-C7-N2-C2
4	H	1	NAG	C8-C7-N2-C2
4	F	1	NAG	O7-C7-N2-C2
4	H	1	NAG	O7-C7-N2-C2
4	E	1	NAG	C4-C5-C6-O6
4	H	2	NAG	O5-C5-C6-O6
4	F	2	NAG	O5-C5-C6-O6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

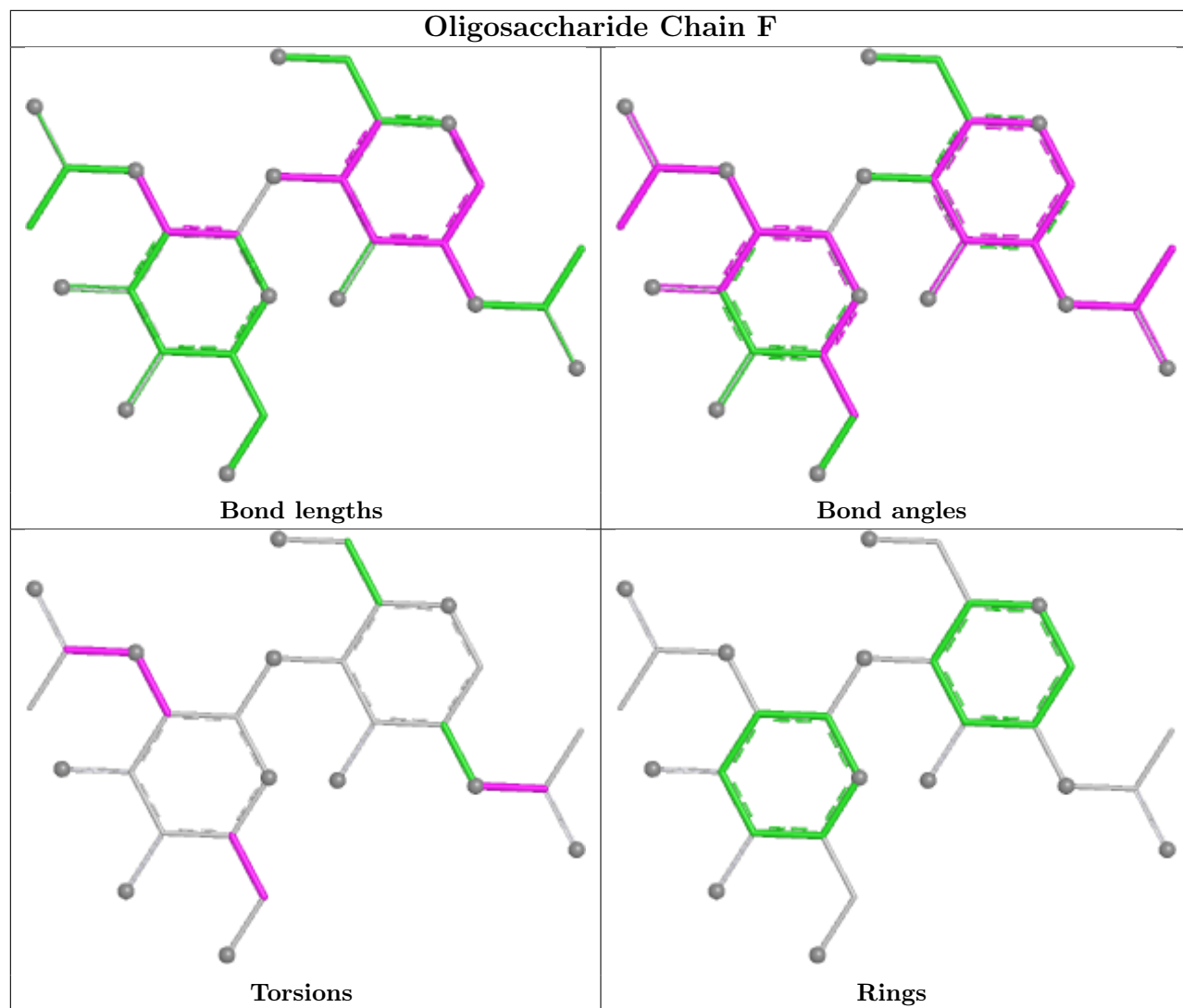
There are no ring outliers.

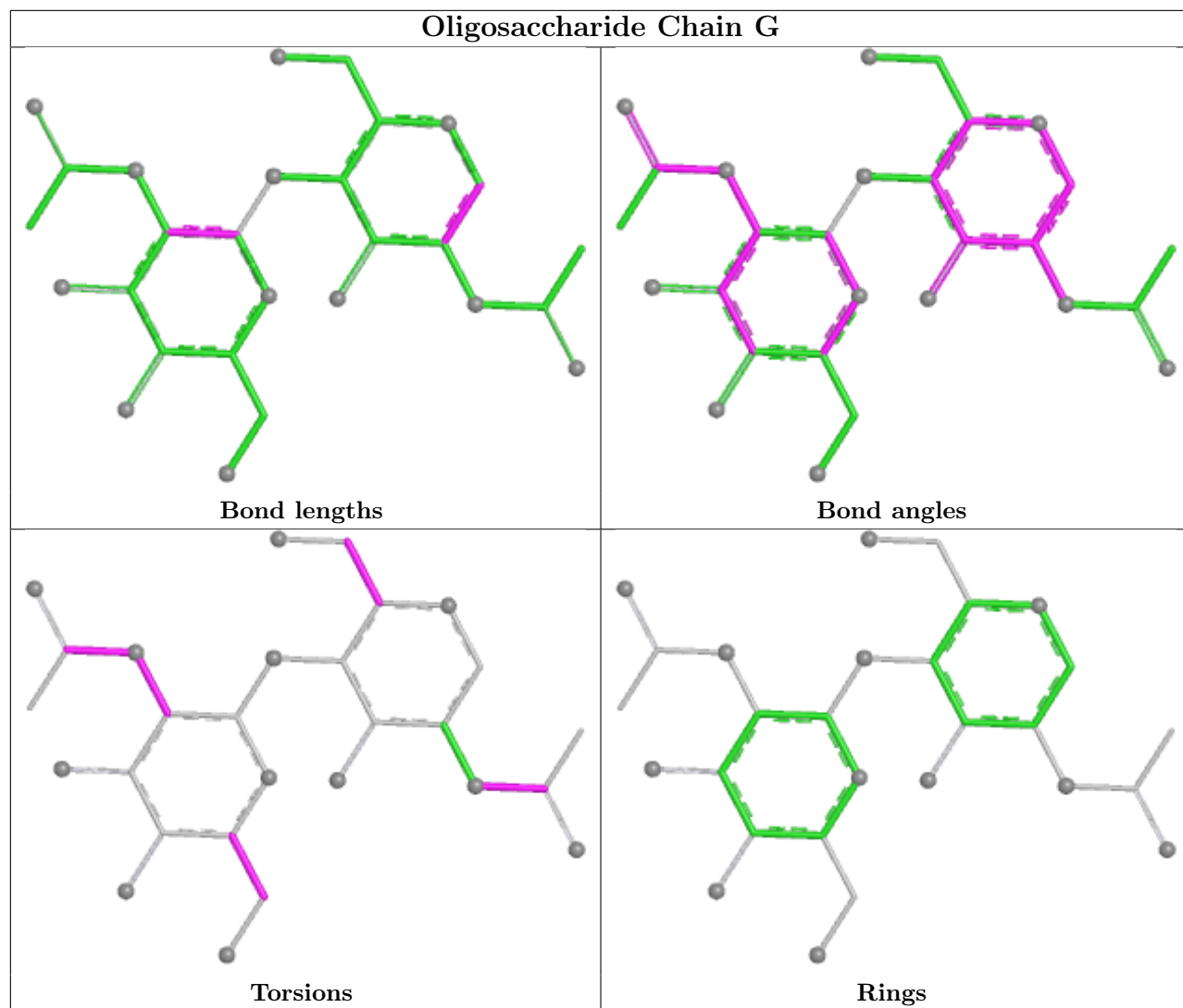
6 monomers are involved in 15 short contacts:

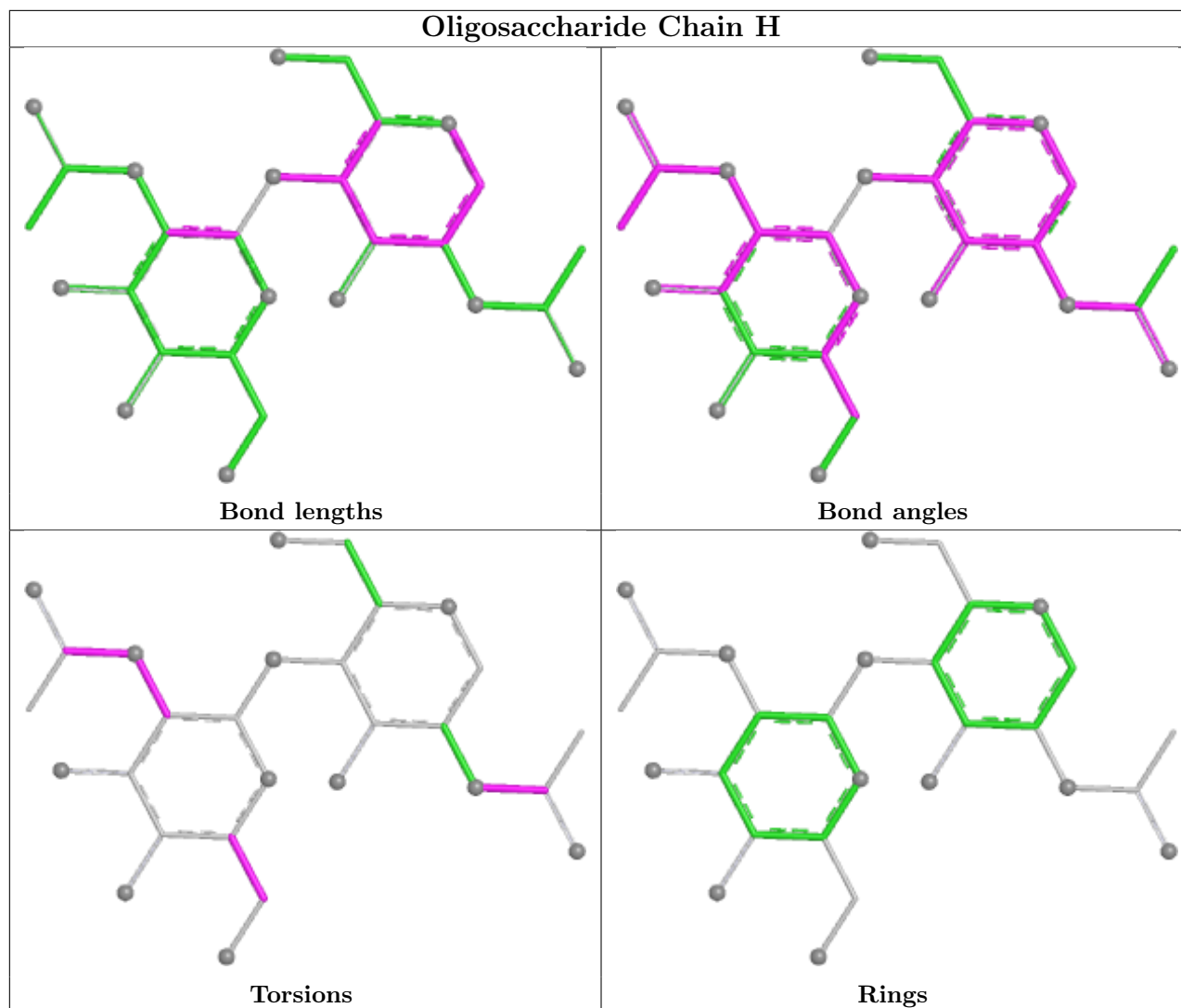
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	H	1	NAG	4	0
4	E	2	NAG	3	0
4	G	1	NAG	4	0
4	E	1	NAG	3	0
4	G	2	NAG	4	0
4	F	1	NAG	4	0

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	1.90	5 (35%)	17,19,21	3.37	12 (70%)
5	NAG	C	2003	1	14,14,15	2.10	4 (28%)	17,19,21	2.63	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	4.86	1.59	1.52
5	A	2003	NAG	C3-C2	4.43	1.61	1.52
5	C	2003	NAG	C3-C2	4.02	1.60	1.52
5	C	2003	NAG	C4-C5	3.07	1.59	1.53
5	A	2003	NAG	O4-C4	2.32	1.48	1.43
5	A	2003	NAG	O5-C5	2.22	1.47	1.43
5	A	2003	NAG	C4-C3	2.18	1.58	1.52
5	A	2003	NAG	C4-C5	2.16	1.57	1.53
5	C	2003	NAG	O4-C4	2.07	1.48	1.43

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	2003	NAG	C2-N2-C7	5.62	130.43	122.90
5	A	2003	NAG	O7-C7-C8	-5.33	112.57	122.05
5	A	2003	NAG	C4-C3-C2	4.83	118.10	111.02
5	C	2003	NAG	O3-C3-C2	4.39	118.53	109.40
5	A	2003	NAG	O4-C4-C3	4.12	120.10	110.38
5	A	2003	NAG	C1-O5-C5	4.02	117.58	112.19
5	C	2003	NAG	O7-C7-C8	-3.69	115.49	122.05
5	C	2003	NAG	O4-C4-C5	3.49	117.91	109.32
5	A	2003	NAG	C3-C4-C5	-3.45	103.97	110.23
5	A	2003	NAG	O4-C4-C5	3.37	117.64	109.32
5	C	2003	NAG	C2-N2-C7	3.37	127.41	122.90
5	A	2003	NAG	C8-C7-N2	3.33	121.64	116.12
5	A	2003	NAG	O3-C3-C2	3.13	115.91	109.40
5	A	2003	NAG	O3-C3-C4	-3.11	103.06	110.38
5	C	2003	NAG	C1-O5-C5	3.10	116.33	112.19
5	C	2003	NAG	O5-C5-C4	3.00	118.14	110.83
5	C	2003	NAG	C1-C2-N2	-2.97	105.75	110.43
5	A	2003	NAG	C1-C2-N2	-2.91	105.86	110.43
5	C	2003	NAG	O4-C4-C3	2.51	116.30	110.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C	2003	NAG	O7-C7-N2	2.44	126.30	121.98
5	C	2003	NAG	C4-C3-C2	2.30	114.38	111.02
5	A	2003	NAG	O7-C7-N2	2.16	125.79	121.98

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	1626/1676 (97%)	0.03	15 (0%) 81 66	72, 150, 260, 469	0
1	C	1626/1676 (97%)	0.03	16 (0%) 79 64	60, 153, 277, 515	0
2	B	1215/1642 (73%)	-0.03	5 (0%) 88 77	73, 160, 235, 335	0
2	D	1215/1642 (73%)	-0.01	6 (0%) 87 75	85, 155, 241, 362	0
3	X	191/231 (82%)	0.20	3 (1%) 70 55	99, 230, 333, 437	0
3	Y	191/231 (82%)	0.15	4 (2%) 63 49	95, 195, 300, 385	0
All	All	6064/7098 (85%)	0.02	49 (0%) 82 68	60, 157, 264, 515	0

All (49) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	490	SER	4.0
1	A	1585	TYR	4.0
1	A	874	ASP	3.6
1	C	1585	TYR	3.3
1	A	1279	ARG	3.2
1	C	760	VAL	3.2
2	B	1339	VAL	3.0
1	A	240	TYR	3.0
1	C	255	PHE	3.0
2	B	361	GLU	2.9
1	C	318	LEU	2.9
1	C	564	GLU	2.9
1	C	686	ILE	2.8
1	C	951	GLY	2.7
1	A	127	PHE	2.7
3	X	40	LEU	2.6
2	D	1333	LEU	2.6
1	C	851	SER	2.6
3	Y	213	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
3	Y	49	TYR	2.5
1	C	1279	ARG	2.5
1	A	1655	SER	2.5
2	D	1546	GLU	2.5
2	D	310	VAL	2.4
1	C	66	TYR	2.4
3	Y	71	ASN	2.4
1	A	59	TYR	2.3
1	A	1352	PHE	2.3
2	D	888	GLU	2.3
2	B	812	LYS	2.3
1	C	814	THR	2.3
2	D	190	ASP	2.3
1	A	1587	THR	2.2
1	A	876	GLN	2.2
2	B	1297	ALA	2.2
1	A	671	GLU	2.2
1	C	1604	VAL	2.2
1	C	507	GLY	2.2
2	D	1339	VAL	2.2
3	Y	208	GLN	2.2
2	B	969	PRO	2.1
3	X	213	GLY	2.1
1	A	691	LYS	2.1
1	C	1529	GLU	2.1
1	C	583	SER	2.1
1	C	44	TYR	2.0
3	X	49	TYR	2.0
1	A	656	ASN	2.0
1	A	1631	PHE	2.0

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

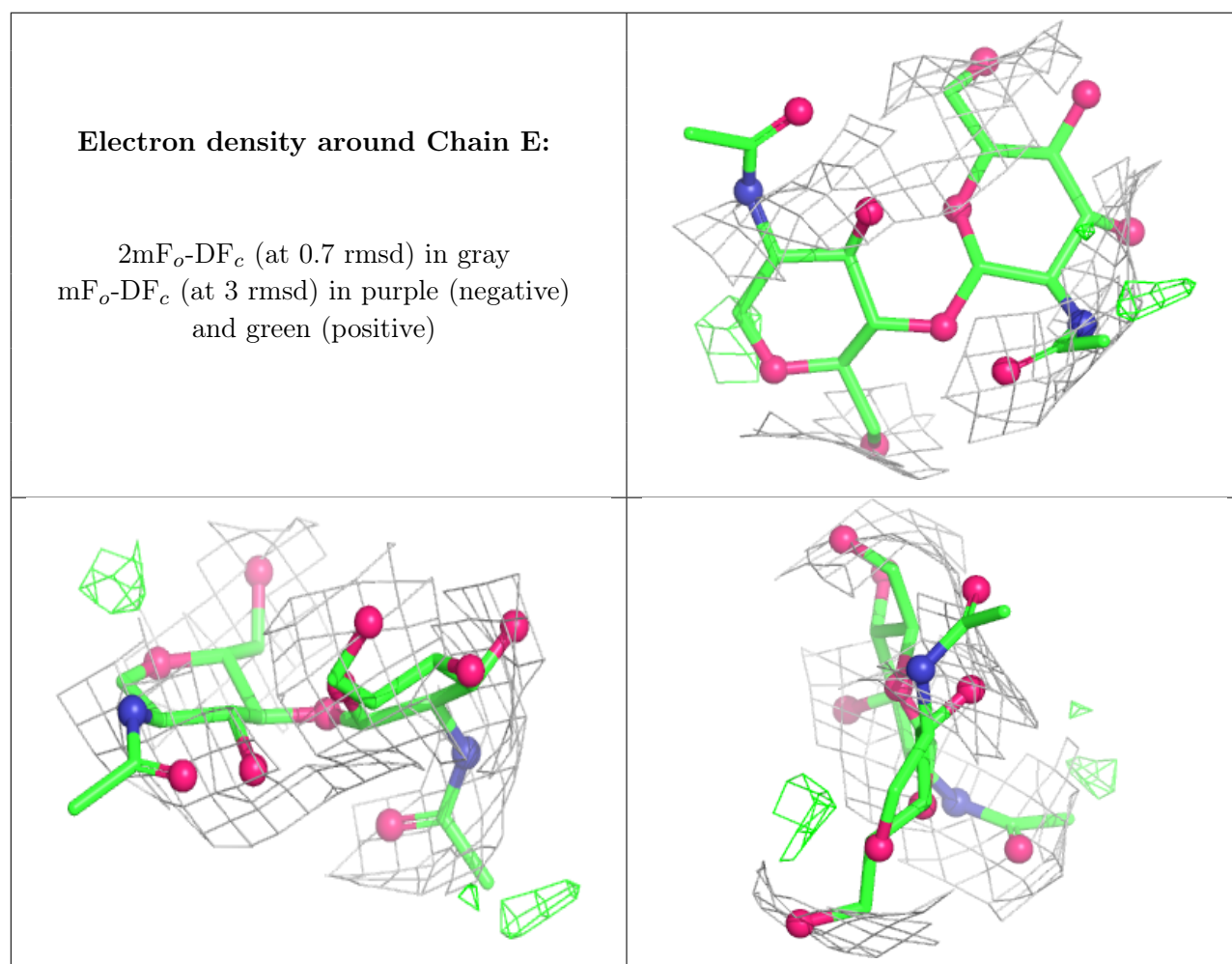
There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> 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.

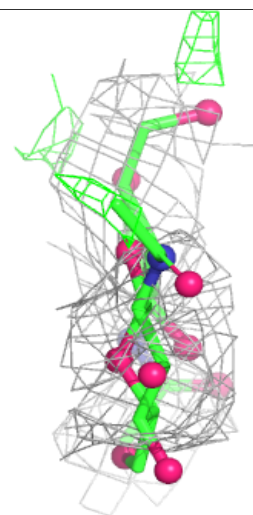
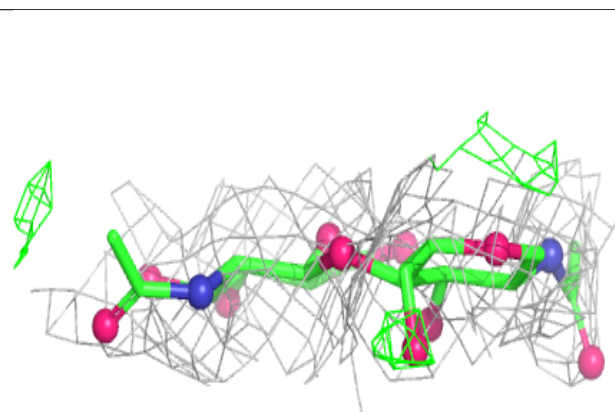
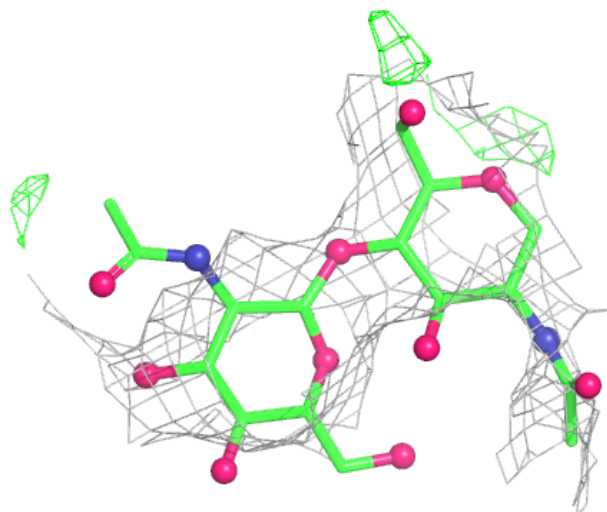
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
4	NAG	E	1	14/15	-	-	278,305,319,322	0
4	NAG	E	2	14/15	-	-	228,239,253,257	0
4	NAG	F	1	14/15	-	-	225,233,240,245	0
4	NAG	F	2	14/15	-	-	297,301,307,310	0
4	NAG	H	1	14/15	0.38	0.15	246,253,258,265	0
4	NAG	H	2	14/15	0.50	0.15	271,274,277,278	0
4	NAG	G	2	14/15	0.63	0.13	228,239,251,252	0
4	NAG	G	1	14/15	0.83	0.13	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.



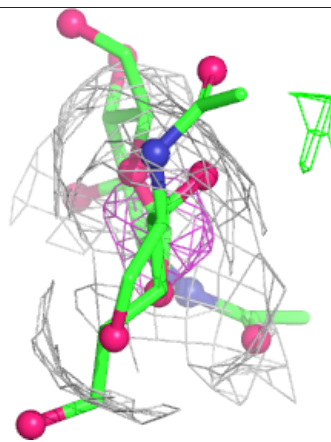
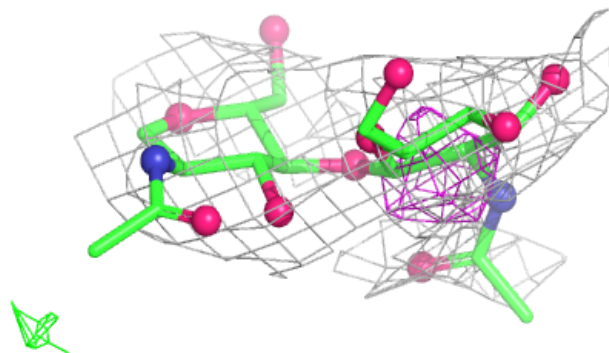
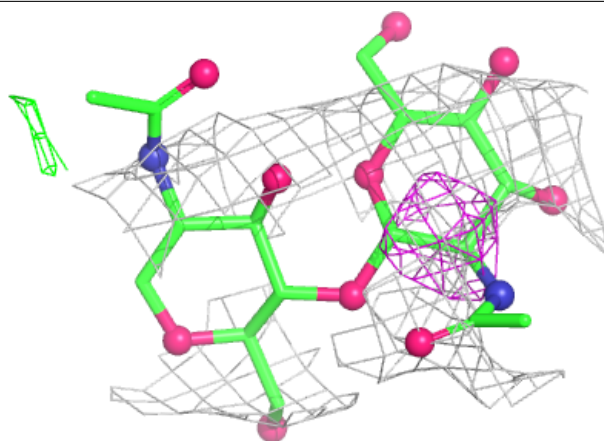
**Electron density around Chain F:**

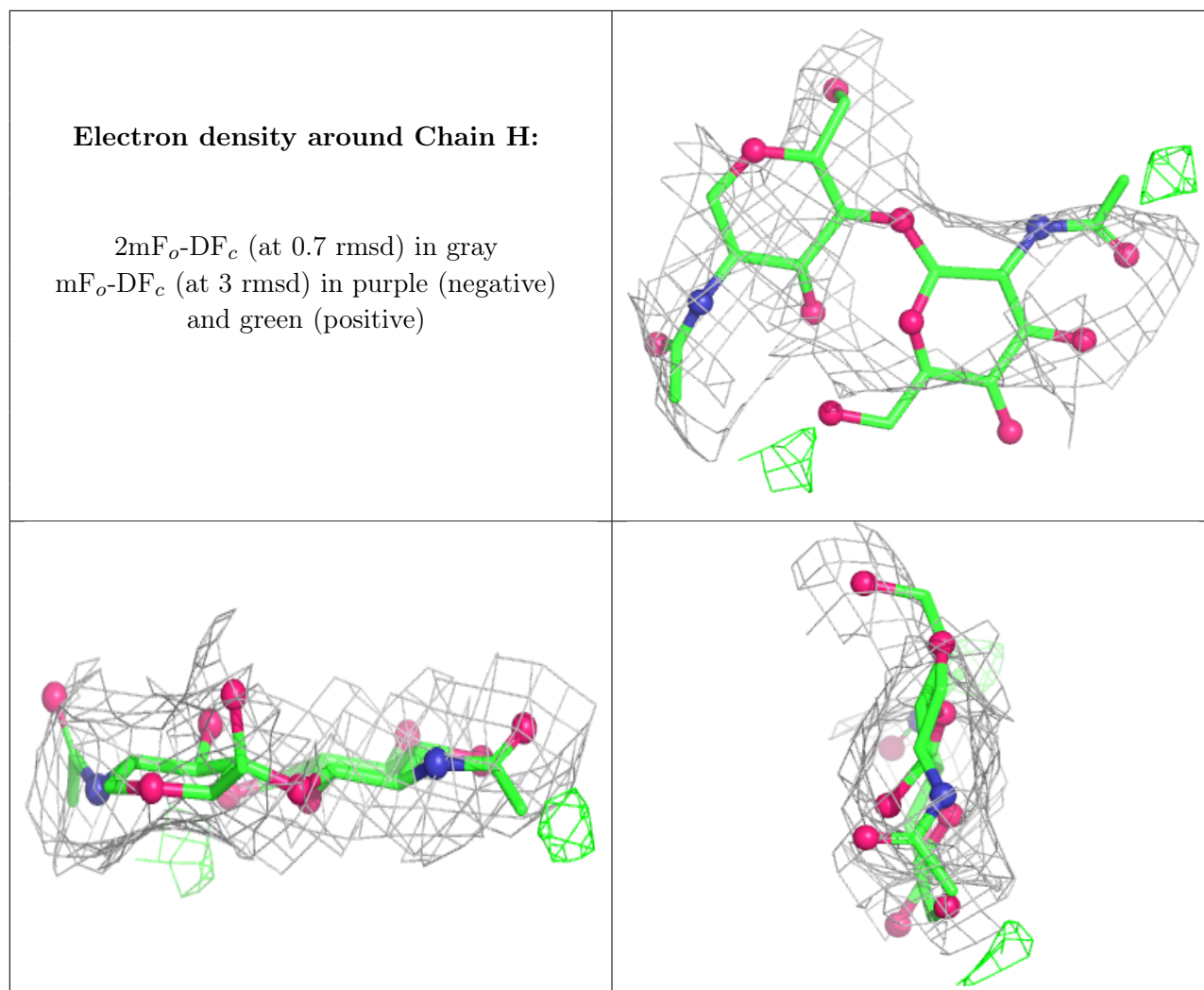
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
5	NAG	C	2003	14/15	0.77	0.13	177,180,183,183	0
5	NAG	A	2003	14/15	0.82	0.13	166,169,171,172	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.