



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 05:09 AM GMT

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

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

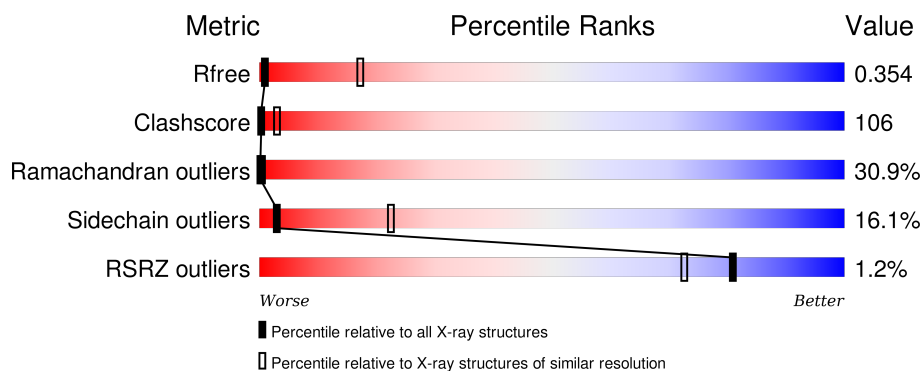
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1010 (4.42-3.56)
Clashscore	102246	1052 (4.40-3.60)
Ramachandran outliers	100387	1005 (4.40-3.60)
Sidechain outliers	100360	1013 (4.42-3.58)
RSRZ outliers	91569	1013 (4.42-3.56)

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

Mol	Chain	Length	Quality of chain
1	A	1688	<div> <div></div> <div>27% 46% 22% 5%</div> </div>
1	D	1688	<div> <div></div> <div>27% 46% 22% 5%</div> </div>
1	G	1688	<div> <div></div> <div>27% 46% 22% 5%</div> </div>
2	B	2006	<div> <div>%</div> <div>34% 54% 11% .</div> </div>
2	E	2006	<div> <div>%</div> <div>34% 54% 11% .</div> </div>

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Mol	Chain	Length	Quality of chain
2	H	2006	<div><div>%</div><div><div></div><div>34%</div><div>54%</div><div>11%</div><div></div></div></div>
3	C	65	<div><div></div><div>48%</div><div>52%</div><div></div></div>
3	F	65	<div><div></div><div>45%</div><div>55%</div><div></div></div>
3	I	65	<div><div></div><div>42%</div><div>58%</div><div></div></div>

2 Entry composition

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

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

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

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

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

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

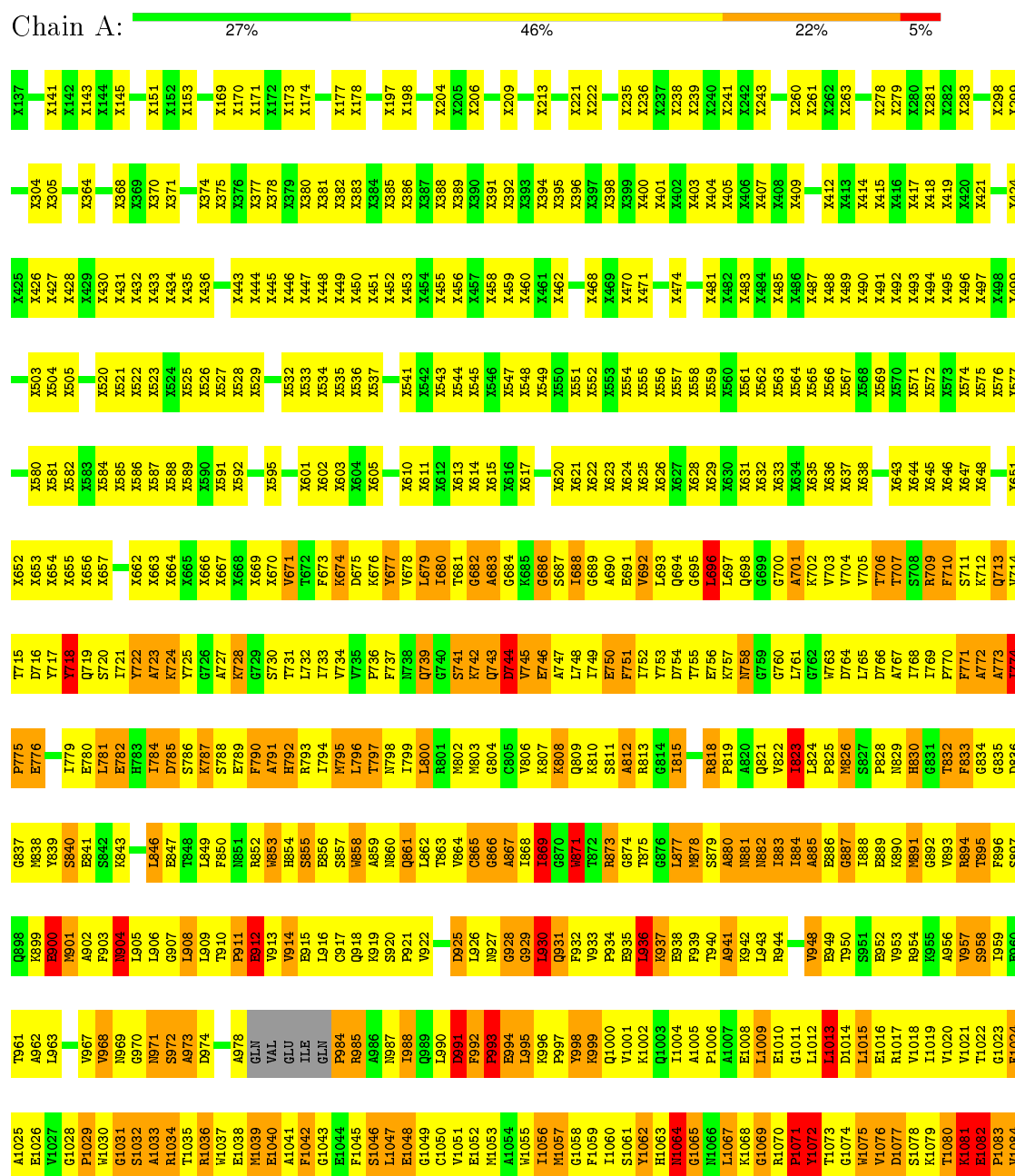
- Molecule 3 is a protein called Tail protein.

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

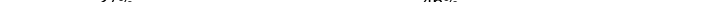
3 Residue-property plots

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

- Molecule 1: Fatty acid synthase subunit alpha



- Molecule 1: Fatty acid synthase subunit alpha

Chain D: 

X495	X496	X497	X498	X499	X500	X501	X502	X503	X504	X505	X506	X507	X508	X509	X510	X511	X512	X513	X514	X515	X516	X517	X518	X519	X520	X521	X522	X523	X524	X525	X526	X527	X528	X529	X530	X531	X532	X533	X534	X535	X536	X537	X538	X539	X540	X541	X542	X543	X544	X545	X546	X547	X548	X549	X550	X551	X552	X553	X554	X555	X556	X557	X558	X559	X560	X561	X562	X563	X564	X565	X566	X567	X568	X569	X570	X571	X572	X573	X574	X575	X576	X577	X578	X579	X580	X581	X582	X583	X584	X585	X586	X587	X588	X589	X590	X591	X592	X593	X594	X595	X596	X597	X598	X599	X600	X601	X602	X603	X604	X605	X606	X607	X608	X609	X610	X611	X612	X613	X614	X615	X616	X617	X618	X619	X620	X621	X622	X623	X624	X625	X626	X627	X628	X629	X630	X631	X632	X633	X634	X635	X636	X637	X638	X639	X640	X641	X642	X643	X644	X645	X646	X647	X648	X649	X650	X651	X652	X653	X654	X655	X656	X657	X658	X659	X660	X661	X662	X663	X664	X665	X666	X667	X668	X669	X670	X671	X672	X673	X674	X675	X676	X677	X678	X679	X680	X681	X682	X683	X684	X685	X686	X687	X688	X689	X690	X691	X692	X693	X694	X695	X696	X697	X698	X699	X700	X701	X702	X703	X704	X705	X706	X707	X708	X709	X710	X711	X712	X713	X714	X715	X716	X717	X718	X719	X720	X721	X722	X723	X724	X725	X726	X727	X728	X729	X730	X731	X732	X733	X734	X735	X736	X737	X738	X739	X740	X741	X742	X743	X744	X745	X746	X747	X748	X749	X750	X751	X752	X753	X754	X755	X756	X757	X758	X759	X760	X761	X762	X763	X764	X765	X766	X767	X768	X769	X770	X771	X772	X773	X774	X775	X776	X777	X778	X779	X780	X781	X782	X783	X784	X785	X786	X787	X788	X789	X790	X791	X792	X793	X794	X795	X796	X797	X798	X799	X800	X801	X802	X803	X804	X805	X806	X807	X808	X809	X810	X811	X812	X813	X814	X815	X816	X817	X818	X819	X820	X821	X822	X823	X824	X825	X826	X827	X828	X829	X830	X831	X832	X833	X834	X835	X836	X837	X838	X839	X840	X841	X842	X843	X844	X845	X846	X847	X848	X849	X850	X851	X852	X853	X854	X855	X856	X857	X858	X859	X860	X861	X862	X863	X864	X865	X866	X867	X868	X869	X870	X871	X872	X873	X874	X875	X876	X877	X878	X879	X880	X881	X882	X883	X884	X885	X886	X887	X888	X889	X890	X891	X892	X893	X894	X895	X896	X897	X898	X899	X900	X901	X902	X903	X904	X905	X906	X907	X908	X909	X910	X911	X912	X913	X914	X915	X916	X917	X918	X919	X920	X921	X922	X923	X924	X925	X926	X927	X928	X929	X930	X931	X932	X933	X934	X935	X936	X937	X938	X939	X940	X941	X942	X943	X944	X945	X946	X947	X948	X949	X950	X951	X952	X953	X954	X955	X956	X957	X958	X959	X960	X961	X962	X963	X964	X965	X966	X967	X968	X969	X970	X971	X972	X973	X974	X975	X976	X977	X978	X979	X980	X981	X982	X983	X984	X985	X986	X987	X988	X989	X990	X991	X992	X993	X994	X995	X996	X997	X998	X999	X1000
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T1454	R1455	R1456	A1457	Q1458	Q1459	P1460	K1461	Y1462	V1463	V1464	N1465	N1466	L1467	E1468	A1469	K1470	K1471	K1472	E1473	A1474	E1475	E1476	I1477	P1478	S1479	E1480	P1481	Q1482		F1485	L1486	L1487	E1488	R1489	T1490	R1491	E1492	I1493	H1494	N1495	E1496	A1497	E1498	S1499	Q1500	L1501	R1502	A1503	A1504	Q1505	M1506	Q1507	V1508	V1509	N1510	D1511	F1512	Y1513	K1514																																																																																																																																																																																																																																																							
D1333	D1334	P1335	Q1336	E1337	E1338	Q1339	E1340	F1341	E1342	F1343	E1344	E1345	M1346	M1347	A1348	E1349	S1350	N1351	L1352	L1353	E1354	E1355	F1356	E1357	E1358	G1359	R1360	G1361	K1362	A1363	E1364	M1365	T1366	R1367	P1368	A1369	E1370	H1371	T1372	R1373		F1376	M1377	E1378	A1379	Q1380	G1381	A1382	L1383	L1384	Q1385	L1386	L1387	M1388	Q1389	L1390	F1391	L1392	A1393																																																																																																																																																																																																																																																							
D1273	E1274	Q1275	E1276	E1277	S1278	F1279	L1280	M1281	T1282	M1283	S1284	E1285	M1286	E1287	M1288	T1289	L1290	L1291	L1292	S1293	S1294	S1295	G1296	P1297	L1298	K1299	T1300	P1301	S1302	G1303	A1304	E1305	T1306	T1307	S1308	E1309	E1310	S1311	V1312	D1313	L1314	G1315	V1316	E1317	E1318	L1319	G1320	S1321	G1322	A1323	A1324	R1325	L1326	K1327	L1328	E1329	E1330	G1331	Y1332																																																																																																																																																																																																																																																							
L1213	F1214	L1215	L1216	L1217	S1218	L1219	V1220	L1221	E1222	F1223	L1224	A1225	S1226	G1227	L1228	T1229	D1230	P1231	Y1232	E1233	M1234	Y1235	K1236	Y1237	V1238	H1239	V1240	S1241	E1242	Y1243	G1244	M1245	G1246	S1247	G1248	S1249	G1250	M1251	G1252	G1253	V1254	S1255	A1256	L1257	R1258	G1259	M1260	F1261	K1262	D1263	R1264	F1265	K1266	D1267	E1268	F1269	V1270	Q1271	M1272																																																																																																																																																																																																																																																							
D1153	L1154	E1155	E1156	L1157	P1158	E1159	L1160	L1161	E1162	S1163	S1164	V1165	K1166	L1167	L1168	K1169	G1170	A1171	L1172	L1173	L1174	L1175	P1176	K1177	A1178	L1179	R1180	K1181	L1182	L1183	L1184	V1185	A1186	G1187	Q1188	E1189	P1190	L1191	G1192	M1193	M1194	A1195	K1196	L1197	E1198	L1199	S1200	S1201	D1202	D1203	L1204	S1205	S1206	L1207	V1208	D1209	L1210	I1211	T1212																																																																																																																																																																																																																																																							
A1091	K1092	Y1093	E1094	T1095	S1096	L1097	L1098	L1099	E1099	S1100	S1101	L1102	L1103	R1104	L1105	L1106	E1107	P1108	E1109	L1110	F1111	L1112	L1113	Y1114	M1115	P1116	E1117	K1118	K1119	E1120	M1121	L1122	L1126	V1127	E1128	E1129	D1130	L1131	E1132	P1133	F1134	E1135	L1136	S1137	E1138	E1139	T1140	A1141	K1142	Q1143	F1144	K1145	L1146	Q1147	L1148	G1149	D1150	K1151	V1152																																																																																																																																																																																																																																																							
G1031	S1032	A1033	R1034	T1035	L1036	V1037	E1038	M1039	E1040	A1041	L1042	G1043	E1044	F1045	S1046	L1047	E1048	G1049	V1050	L1051	F1052	M1053	Y1054	A1055	L1056	M1057	K1058	F1059	L1060	S1061	Y1062	H1063	M1064	G1065	M1066	L1067	K1068	G1069	E1070	P1071	L1072	T1073	G1074	V1075	E1076	D1077	S1078	K1079	A1080	E1082	P1083	L1084	D1085	Q1086	K1087	L1088	K1089	K1090																																																																																																																																																																																																																																																								
N971	S972	A973	D974	A975	R976	Y977	A978	GLN	VAL	GLU	ILE	GLN	P984	R985	A986	N987	L988	Q989	L990	D991	F992	P993	E994	L995	K996	P997	A998	R999	L1000	P1001	K1002	Q1003	L1004	A1005	M1006	P1007	E1008	L1009	E1010	G1011	L1012	D1013	R951	R952	R953	R954	R955	A956	V957	E958	L959	E960	Q988	R938	E901	A902	F903	L905																																																																																																																																																																																																																																																								
L906	G907	L908	L909	T910	R911	E912	V913	R914	E915	L916	G917	Q918	R919	S920	Q921	V922	D925	L926	G928	A929	R930	L931	L932	R933	P934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	V948	E949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000	R1001	R1002	R1003	R1004	R1005	R1006	R1007	R1008	R1009	R1010	R1011	R1012	R1013	R1014	R1015	R1016	R1017	R1018	R1019	R1020	R1021	R1022	R1023	R1024	R1025	R1026	R1027	R1028	R1029	R1030																																																																																																																																																																																												
D785	S786	K787	S788	E789	F790	A791	H792	K793	L794	M795	L796	L797	M798	L799	L800	L801	L802	L803	L804	C805	V806	K807	L808	Q809	R810	S811	L812	R813	L814	L815	L816	L817	L818	P819	L820	Q821	V822	R823	L824	R825	R826	S827	R828	R829	R830	R831	R832	R833	R834	R835	D836	L837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000	R1001	R1002	R1003	R1004	R1005	R1006	R1007	R1008	R1009	R1010	R1011	R1012	R1013	R1014	R1015	R1016	R1017	R1018	R1019	R1020	R1021	R1022	R1023	R1024	R1025	R1026	R1027	R1028	R1029	R1030																																																													
L846	E847	T848	L849	F850	R851	R852	R853	R854	R855	R856	R857	R858	A859	R860	Q861	L862	T863	V864	C865	R866	A867	L868	E869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	E886	G887	L888	E889	R890	R891	R892	R893	R894	R895	F896	S897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000	R1001	R1002	R1003	R1004	R1005	R1006	R1007	R1008	R1009	R1010	R1011	R1012	R1013	R1014	R1015	R1016	R1017	R1018	R1019	R1020	R1021	R1022	R1023	R1024	R1025	R1026	R1027	R1028	R1029	R1030																																																																																																																										
K724	E725	K726	A727	K728	G729	E730	L731	L732	L733	L734	L735	L736	F737	M738	L739	G740	S741	K742	G743	D744	E745	E746	A747	L748	L749	E750	F751	L752	L753	L754	L755	E756	E757	M758	G759	G760	L761	G762	K763	D764	L765	V766	L767	R768	F769	P770	A771	A772	A773	L774	P775	E776	L777	L778	L779	L780	L781	E782	H783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	R1000	R1001	R1002	R1003	R1004	R1005	R1006	R1007	R1008	R1009	R1010	R1011	R1012	R1013	R1014	R1015	R1016	R1017	R1018	R1019	R1020	R1021	R1022	R1023	R1024	R1025	R1026	R1027	R1028	R1029	R1030
X523	X524	X525	X526	X527	X528	X529		X532	X533	X534	X535	X536	X537		X541	X542	X543	X544	X545	X546	X547	X548	X549	X550	X551	X552	X553	X554	X555	X556	X557	X558	X559	X560	X561	X562	X563	X564	X565	X566	X567	X568	X569	X570	X571	X572	X573	X574	X575	X576	X577		X580	X581	X582	X583	X584	X585	X586																																																																																																																																																																																																																																																							
X587	X588	X589	X590	X591	X592	X595		X601	X602	X603	X604	X605		X610	X611	X612	X613	X614	X615	X616	X617	X620	X621	X622	X623	X624	X625	X626	X627	X628	X629	X630	X631	X632	X633	X634	X635	X636	X637	X638	X643	X644	X645	X646	X647	X648	X651	X652	X653	X654	X655	X656	X657	X662	X663																																																																																																																																																																																																																																																											
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R1516	F1576	V1636	K1696	X1778
D1516	Q1577	R1637	L1697	X1779
P1517	K1578	A1638	F1698	X1780
R1518	F1579	V1639	V1699	X1781
L1520	L1580	S1640	S1700	X1782
A1520	T1581	I1641	K1701	X1783
P1521	G1582	T1642	E1702	X1784
L1522	H1583	S1643	H1703	
G1524	P1584	F1644	A1704	X1793
A1525	K1585	G1645	P1705	X1794
L1526	G1586	F1646	Y1706	X1795
A1527	A1587	G1647	T1707	
T1527	A1588	Q1648	D1708	X1799
T1528	G1589	K1649	E1709	
G1530	M1591	G1650	L1710	X1811
L1531	M1592	Q1652	E1711	X1812
T1532	M1593	D1713	E1712	X1813
L1533	M1594	I1654	D1714	
D1534	G1595	V1655	V1715	X1826
L1535	A1596	L1716	L1716	X1827
L1536	L1597	H1657	D1717	X1853
G1537	Q1598	P1658	P1718	
V1538	I1599	D1659	L1719	X1857
L1539	L1600	L1660	A1720	
S1540	M1601	L1661	R1721	X1860
F1541	S1602	V1662	V1722	X1861
H1542	G1603	A1664		X1862
G1543	I1604	T1666	K1727	X1868
T1544	I1605	T1666	S1728	
S1545	P1606	E1667	G1729	X1872
T1546	M1607	D1668	S1730	
K1547	R1608	R1669	L1731	
A1548	M1609	Y1670	T1732	X1881
N1549	M1610	N1671	F1733	
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K1551	D1612	S1735	S1735	X1886
N1552	M1613	E1672	K1736	X1887
E1553	V1614	Y1673		
S1554	D1615	V1674	N1737	
A1555	K1616	A1675	I1738	
T1556	L1617	V1677	Q1739	
I1557	L1618	S1678	S1740	
N1558	E1619	A1679	K1741	
E1559	Q1620	R1680	D1742	
M1560	F1621	E1681	S1743	
K1561	E1622	K1682	Y1744	
H1562	Y1623	S1683	X1745	
L1563	A1624	A1684	X1746	
L1564	T1625	Y1685	X1747	
G1565	Y1626	K1686	X1748	
R1566	P1627	F1687	X1749	
	S1628	F1688	X1750	
G1569	K1629	H1689	K1754	
N1570	T1630	M1690	X1761	
P1571	L1631	G1691	X1762	
V1572	K1632	M1692		
I1573	T1633	I1693		
G1574	D1634	Y1694	X1773	
V1575	G1635	N1695		

• Molecule 1: Fatty acid synthase subunit alpha

Chain G:  27% 46% 22% 5%

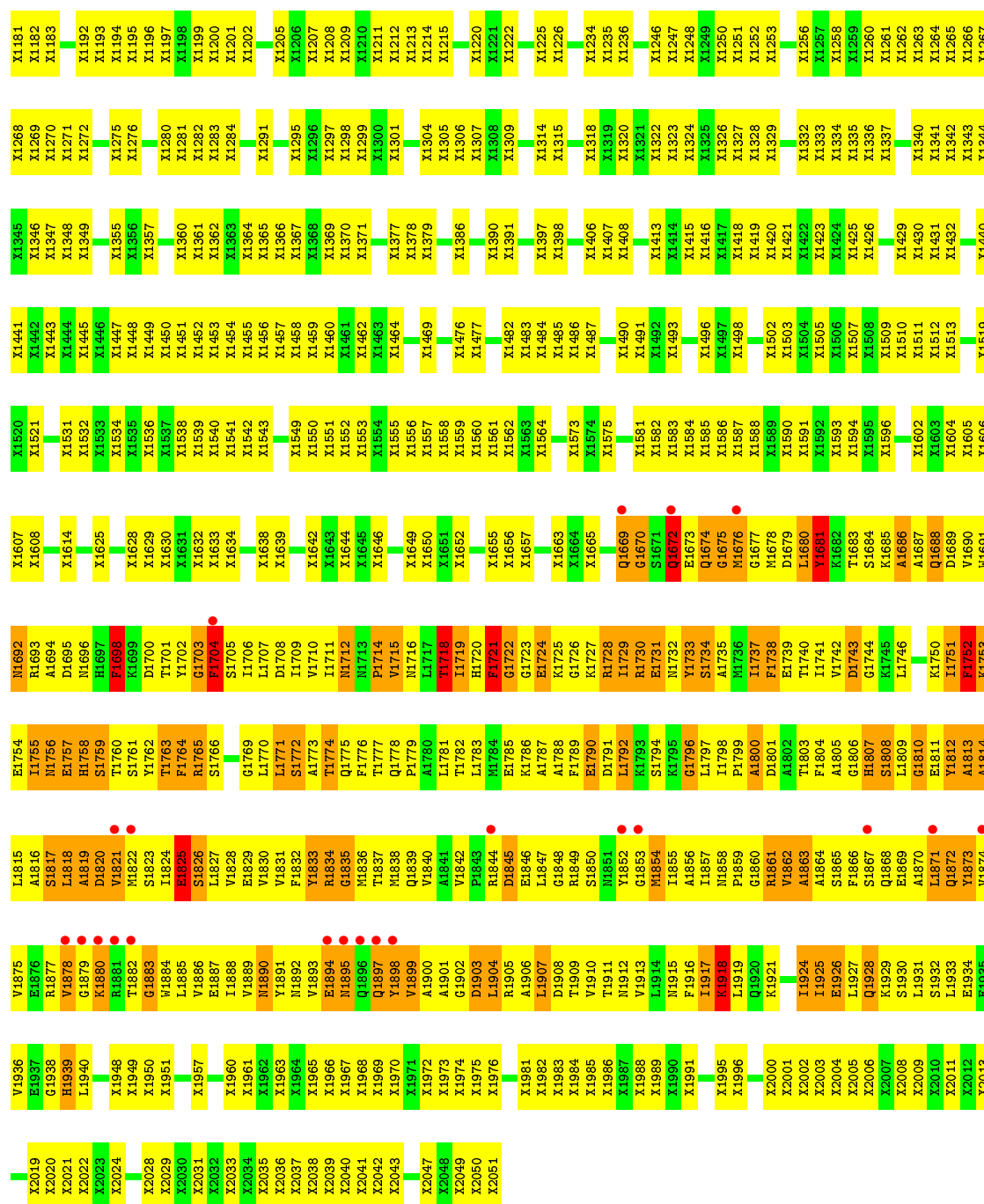
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X141	X369	X431	X505	X582	X656	S720	L781	S842	A902
X142	X370	X432	X520	X583	X657	I721	E782	K843	F903
X143	X371	X433	X521	X584	X662	Y722	H783	L844	R904
X144	X374	X434	X522	X585	X663	A723	L784	S845	L905
X145	X375	X435	X523	X586	X664	K724	D785	L846	L906
	X376	X436	X524	X587	X665	Y725	S786	E847	G907
	X377	X437	X525	X588	X666	G726	K787	T848	L908
	X378	X443	X526	X589	X667	A727	L788	L849	L909
	X379	X444	X527	X590	X668	G729	F789	P850	P911
	X380	X445	X528	X591	X669	S730	A791	R851	R912
	X381	X446	X529	X592	X670	T731	H792	L852	R913
	X382	X447	X532	X593	X671	L732	K793	H854	V914
	X383	X448	X533	X601	X672	I733	L794	S855	E915
	X384	X449	X534	X602	X673	V734	M795	E856	L916
	X385	X450	X535	X603	X674	P735	L796	S857	C917
	X386	X451	X536	X604	X675	G736	T797	M858	Q918
	X387	X452	X537	X605	X676	F737	L798	A859	K919
	X388	X453	X541	X610	X677	H738	L799	M860	S920
	X389	X454	X542	X611	X678	G740	R801	Q861	P921
	X390	X455	X543	X612	L679	S741	L802	L862	V922
	X391	X456	X544	X613	L680	K742	H803	T863	
	X392	X457	X545	X614	T681	Q743	G804	V864	
	X393	X458	X546	X615	G682	D744	C805	C865	
	X394	X459	X547	X616	A683	V745	H806	G866	
	X395	X460	X548	X617	G684	E746	K807	A867	
	X396	X461	X549	X618	G685	L747	R808	L868	
	X397	X462	X550	X620	S686	A748	D809	G870	
	X398	X463	X551	X621	L688	I749	K810	K871	
	X399	X464	X552	X622	G689	F750	S811	T872	
	X400	X465	X553	X623	A690	E751	A812	R873	
	X401	X466	X554	X624	B691	I752	L813	G874	
	X402	X467	X555	X625	V692	Y753	G814	T875	
	X403	X468	X556	X626	L693	D754	L815	G876	
	X404	X469	X557	X627	O694	T755		L877	
	X405	X470	X558	X628	G695	E756		M878	
	X406	X471	X559	X629	L696	K757	P819	S879	
	X407	X472	X560	X630		N758	A820	A880	
	X408	X473	X561	X631		G759	Q821	N881	
	X409	X474	X562	X632		L761	V822	N882	
	X410	X475	X563	X633		K762	L823	L883	
	X411	X476	X564	X634		W763	L824	I884	
	X412	X477	X565	X635		V704	P825	A885	
	X413	X478	X566	X636		L705	R826	E886	
	X414	X479	X567	X637		T706	S827	G887	
	X415	X480	X568	X638		A707	L828	L888	
	X416	X481	X569	X639		T707	N829	E889	
	X417	X482	X570	X640		S708	H830	K890	
	X418	X483	X571	X641		R709	G831	M891	
	X419	X484	X572	X642		F710	T832	G892	
	X420	X485	X573	X643		W711	R833	A893	
	X421	X486	X574	X644		K712	G834	R894	
	X422	X487	X575	X645		A713	H835	T895	
	X423	X488	X576	X646		Q714	D836	F896	
	X424	X489	X577	X647		L715	G837	S897	
	X425	X490	X578	X648		D716	P838	Q898	
	X426	X491	X579	X649		T717	L839	K899	
	X427	X492	X580	X650		Y718	S840	E900	
	X428	X493							
	X429	X494							
	X430	X495							
	X431	X496							
	X432	X497							
	X433	X498							
	X434	X499							
	X435	X500							

X1773	Ti633	F1512	A1390	G1330	P1210	D1150	D1088	G1028	V967
X1778	Di634	Y1513	Di391	G1331	I1211	K1151	V1089	P1029	V968
X1779	G1635	Y1514	L1392	Y1332	N1272	V1152	K1090	W1030	N969
X1780	V1636	R1515	A1393	D1333	D1273	D1153	A1091	G1031	N970
X1781	R1637	P1517	L1394	F1334	I1274	I1154	K1092	S1032	N971
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X1785	I1641	I1581	Y1398	E1338	S1278	P1158	S1096	R1036	A978
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X1789	P1584	Y1463	F1402	F1342	T1282	G1162	H1100	E1040	VAL
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X1797	M1592	K1471	A1410	S1350	L1290	G1170	P1108	E1048	N988
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X1799	T1533	E1473	D1412	F1352	I1292	T1172	L1110	C1050	L990
X1800	D1534	A1474	K1413	L1353	S1293	L1173	F1111	V1051	D991
X1801	D1535	A1475	E1354	E1354	S1294	Y1174	M1112	E1052	F992
X1802	L1536	E1476	I1414	E1355	S1295	L1175	G1113	M1053	P993
X1803	G1537	E1477	S1417	F1356	G1296	P1176	Y1114	A1054	E994
X1804	Y1538	P1478	V1418	E1357	P1297	K1177	W1055	L1055	L995
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X1806	S1540	E1480	A1420	G1359	K1299	L1179	E1117	M1057	P997
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X1809	G1543	F1483	K1423	P1362	V1302	D1182	E1120	Q1000	Q1000
X1810	S1545	L1486	G1424	A1363	G1303	R1183	M1121	S1061	V1001
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X1813	M1548	R1489	T1428	R1367	T1307	G1187	G1065	G1065	A1005
X1814	D1550	T1490	A1429	P1368	S1308	Q1188	R1066	L1067	P1006
X1815	K1551	R1491	R1430	A1369	E1310	P1189	D1130	K1068	E1008
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X1817	E1553	I1493	H1433	T1372	G1252	G1192	E1132	E1010	E1010
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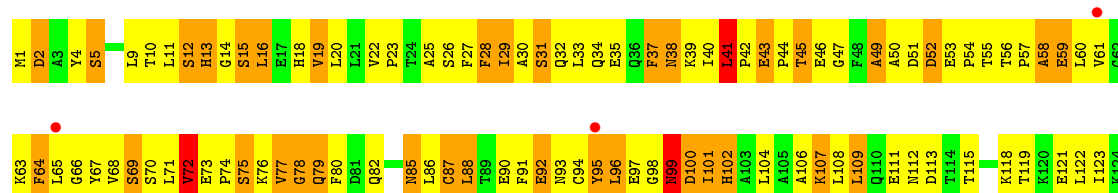
• Molecule 2: Fatty acid synthase subunit beta







• Molecule 2: Fatty acid synthase subunit beta

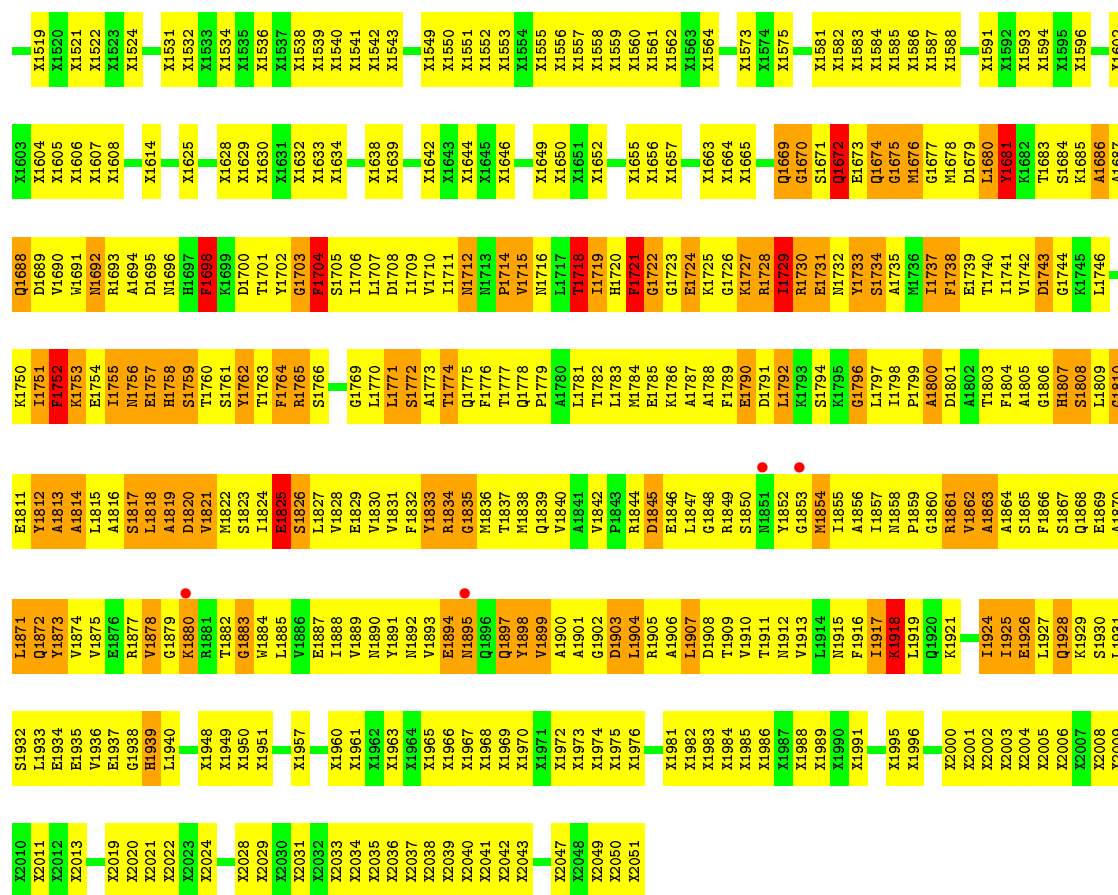


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- Molecule 2: Fatty acid synthase subunit beta

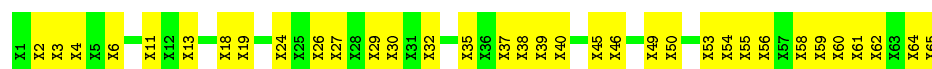
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X1496	X1408	X1334	X1243	X1111	X1045	X953	X858	X778	X709	X633	X560	K498	L438	A374	R309
X1497	X1409	X1335	X1244	X1112	X1046	X954	X859	X779	X710	X634	X561	T499	I439	K375	G310
X1498	X1410	X1336	X1245	X1113	X1047	X955	X860	X780	X711	X635	X562	V499	L440	N376	M440
X1499	X1411	X1337	X1246	X1114	X1048	X956	X861	X781	X712	X636	X563	H499	K441	L377	Y311
X1500	X1412	X1338	X1247	X1115	X1049	X957	X862	X782	X713	X637	X564	H499			
X1501	X1413	X1339	X1248	X1116	X1050	X958	X863	X783	X714	X638	X565	H499			
X1502	X1414	X1340	X1249	X1117	X1051	X959	X864	X784	X715	X639	X566	H499			
X1503	X1415	X1341	X1250	X1118	X1052	X960	X865	X785	X716	X640	X567	H499			
X1504	X1416	X1342	X1251	X1119	X1053	X961	X866	X786	X717	X641	X568	H499			
X1505	X1417	X1343	X1252	X1120	X1054	X962	X867	X787	X718	X642	X569	H499			
X1506	X1418	X1344	X1253	X1121	X1055	X963	X868	X788	X719	X643	X570	H499			
X1507	X1419	X1345	X1254	X1122	X1056	X964	X869	X789	X720	X644	X571	H499			
X1508	X1420	X1346	X1255	X1123	X1057	X965	X870	X790	X721	X645	X572	H499			
X1509	X1421	X1347	X1256	X1124	X1058	X966	X871	X791	X722	X646	X573	H499			
X1510	X1422	X1348	X1257	X1125	X1059	X967	X872	X792	X723	X647	X574	H499			
X1511	X1423	X1349	X1258	X1126	X1060	X968	X873	X793	X724	X648	X575	H499			
X1512	X1424	X1350	X1259	X1127	X1061	X969	X874	X794	X725	X649	X576	H499			
X1513	X1425	X1351	X1260	X1128	X1062	X970	X875	X795	X726	X650	X577	H499			
X1514	X1426	X1352	X1261	X1129	X1063	X971	X876	X796	X727	X651	X578	H499			
X1515	X1427	X1353	X1262	X1130	X1064	X972	X877	X797	X728	X652	X579	H499			
X1516	X1428	X1354	X1263	X1131	X1065	X973	X878	X798	X729	X653	X580	H499			
X1517	X1429	X1355	X1264	X1132	X1066	X974	X879	X799	X730	X654	X581	H499			
X1518	X1430	X1356	X1265	X1133	X1067	X975	X880	X800	X731	X655	X582	H499			
X1519	X1431	X1357	X1266	X1134	X1068	X976	X881	X801	X732	X656	X583	H499			
X1520	X1432	X1358	X1267	X1135	X1069	X977	X882	X802	X733	X657	X584	H499			
X1521	X1433	X1359	X1268	X1136	X1070	X978	X883	X803	X734	X658	X585	H499			



- Molecule 3: Tail protein

Chain C: 48% 52%



- Molecule 3: Tail protein

Chain F: 45% 55%



- Molecule 3: Tail protein

Chain I: 42% 58%



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	231.34Å 231.34Å 754.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	60.00 – 4.00 59.69 – 3.91	Depositor EDS
% Data completeness (in resolution range)	98.7 (60.00-4.00) 97.4 (59.69-3.91)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.48 (at 3.88Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.319 , 0.346 0.320 , 0.354	Depositor DCC
R_{free} test set	8382 reflections (4.91%)	DCC
Wilson B-factor (Å ²)	152.3	Xtriage
Anisotropy	0.194	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.21 , 181.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.21$	Xtriage
Outliers	0 of 180567 reflections	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	71862	wwPDB-VP
Average B, all atoms (Å ²)	151.0	wwPDB-VP

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

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

All (21) bond length outliers are listed below:

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

All (96) bond angle outliers are listed below:

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

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

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

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11319	0	8817	2535	24
1	D	11319	0	8818	2518	14
1	G	11319	0	8817	2527	24
2	B	12310	0	7819	1753	0
2	E	12310	0	7817	1770	0
2	H	12310	0	7816	1770	0
3	C	325	0	76	25	0
3	F	325	0	76	28	0
3	I	325	0	76	35	0
All	All	71862	0	50132	12923	38

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 106.

All (12923) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1223:PHE:HE2	1:A:1386:ILE:HG21	1.24	1.02
1:D:752:ILE:HA	1:D:761:LEU:HD23	1.41	1.02
1:A:1464:GLU:HA	1:A:1467:LEU:HD12	1.42	1.02
1:A:1335:PHE:HE1	1:A:1340:SER:HB2	1.21	1.02
1:A:1137:SER:OG	1:A:1168:LEU:HD12	1.59	1.02
1:G:1423:LYS:HB2	1:G:1552:ASN:HD21	1.23	1.02
1:G:1103:ILE:HA	1:G:1106:ILE:HD12	1.39	1.02
1:G:1704:ALA:HB1	1:G:1705:PRO:HD2	1.40	1.02
1:D:1423:LYS:HB2	1:D:1552:ASN:HD21	1.21	1.02
1:D:1538:VAL:HG23	1:D:1639:VAL:HA	1.36	1.02
2:E:366:VAL:HG22	2:E:381:GLY:HA3	1.41	1.02
1:A:755:THR:HG22	1:A:757:LYS:H	1.25	1.02
1:G:1063:HIS:C	1:G:1065:GLY:H	1.54	1.02
1:A:1604:ILE:HG22	1:A:1605:ILE:H	1.23	1.02
1:G:1464:GLU:HA	1:G:1467:LEU:HD12	1.40	1.02
2:B:169:TYR:HE2	2:B:237:SER:HB2	1.22	1.02
2:E:1665:UNK:HA	2:E:1805:ALA:HB3	1.42	1.02
1:A:1385:GLN:HE22	1:A:1593:MET:HG3	1.22	1.01
1:D:1403:ILE:HG23	1:D:1656:VAL:HG13	1.39	1.01
1:G:1020:VAL:HG13	1:G:1402:GLY:O	1.59	1.01
1:G:1711:GLU:HG2	1:G:1715:TYR:HE1	1.25	1.01
1:G:755:THR:HG22	1:G:757:LYS:H	1.21	1.01
2:H:56:THR:HG23	2:H:59:GLU:HG3	1.41	1.01
1:G:1099:GLU:HG2	1:G:1100:HIS:H	1.26	1.01
1:D:1076:VAL:HG11	1:D:1087:LYS:HA	1.42	1.01
2:H:455:ILE:HD12	2:H:469:ARG:HB2	1.42	1.01
1:D:1332:TYR:H	1:D:1587:ALA:HB2	1.22	1.01
1:A:1254:VAL:HA	1:A:1257:LEU:CB	1.91	1.00
2:H:1733:TYR:OH	2:H:1761:SER:HA	1.61	1.00
2:H:1:MET:HB2	2:H:11:LEU:HB2	1.43	1.00
1:G:1259:GLY:HA2	1:G:1263:ASP:HB2	1.41	1.00
1:D:1137:SER:OG	1:D:1168:LEU:HD12	1.59	1.00
1:G:1254:VAL:HA	1:G:1257:LEU:CB	1.90	1.00
1:A:1704:ALA:HB1	1:A:1705:PRO:HD2	1.41	1.00
1:A:752:ILE:HA	1:A:761:LEU:HD23	1.42	1.00
1:A:768:ILE:HG22	1:A:770:PRO:HD3	1.43	1.00
2:H:169:TYR:CE2	2:H:237:SER:HB2	1.97	1.00
2:B:56:THR:HG23	2:B:59:GLU:HG3	1.42	1.00
1:A:1110:LEU:HD13	1:A:1120:GLU:HG3	1.40	1.00
2:B:234:ILE:HG23	2:B:235:PRO:HD3	1.42	1.00
1:G:752:ILE:HA	1:G:761:LEU:HD23	1.42	1.00

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1193:TRP:CZ2	1:G:1380:GLN:HB2	2.02	0.94
1:A:1538:VAL:CG2	1:A:1639:VAL:HA	1.98	0.94
1:D:1207:GLN:NE2	1:D:1208:VAL:H	1.65	0.94
1:D:1210:PRO:HB3	1:D:1255:SER:HB3	1.47	0.94
1:A:1596:ALA:O	1:A:1599:ILE:HG12	1.67	0.94
2:H:1775:GLN:HE21	2:H:1836:MET:HG2	1.33	0.94
1:G:1108:PRO:HA	1:G:1189:ILE:O	1.67	0.93
1:G:1207:GLN:HE21	1:G:1208:VAL:H	1.12	0.93
1:A:1117:GLU:O	1:A:1119:LYS:N	2.02	0.93
1:D:1450:ARG:O	1:D:1454:THR:HG22	1.67	0.93
2:B:319:LEU:HD12	2:B:320:PRO:HD2	1.51	0.93
2:E:41:LEU:HD22	2:E:46:GLU:HA	1.50	0.93
1:G:1520:ALA:H	1:G:1521:PRO:HD3	1.32	0.93
1:A:1208:VAL:HA	1:A:1277:GLU:HG2	1.50	0.93
2:H:1784:MET:CE	3:I:21:UNK:HA	1.98	0.93
1:G:716:ASP:O	1:G:719:GLN:HB3	1.68	0.93
1:D:1303:GLY:CA	1:D:1649:LYS:HD2	1.99	0.93
2:B:46:GLU:HG3	2:B:51:ASP:HB3	1.51	0.93
1:G:1203:ASP:H	1:G:1205:ILE:HG12	1.33	0.93
2:B:1390:UNK:HA	2:B:1408:UNK:HA	1.50	0.93
1:G:1159:GLU:O	1:G:1166:LYS:HD3	1.67	0.93
1:G:1208:VAL:HA	1:G:1277:GLU:HG2	1.49	0.93
1:D:1075:TRP:O	1:D:1076:VAL:HG13	1.67	0.93
2:B:1729:ILE:HG23	2:B:1730:ARG:H	1.31	0.93
1:A:877:LEU:O	1:A:878:MET:HB2	1.65	0.93
1:A:1732:THR:HG23	1:A:1736:LYS:HB2	1.49	0.93
1:A:1189:ILE:CG2	1:A:1190:PRO:HD3	1.99	0.93
1:A:1207:GLN:HE21	1:A:1208:VAL:N	1.66	0.93
1:D:1193:TRP:CZ2	1:D:1380:GLN:HB2	2.02	0.93
1:D:1638:ALA:HB1	1:D:1654:ILE:HD11	1.48	0.93
2:E:238:CYS:O	2:E:241:ILE:HG22	1.68	0.93
1:D:1632:LYS:HD2	1:D:1632:LYS:H	1.33	0.93
1:D:1159:GLU:O	1:D:1166:LYS:HD3	1.68	0.93
1:G:1210:PRO:HB3	1:G:1255:SER:HB3	1.48	0.93
2:E:1729:ILE:HG23	2:E:1730:ARG:H	1.32	0.93
1:G:739:GLN:HB3	1:G:794:ILE:HG13	1.49	0.93
1:A:1303:GLY:HA2	1:A:1649:LYS:HD2	1.51	0.93
1:D:710:PHE:HE1	1:D:736:PRO:HD3	1.33	0.93
1:G:1175:ILE:HG22	1:G:1176:PRO:HA	0.96	0.93
1:G:1081:LYS:HG2	1:G:1083:PRO:HD3	1.49	0.93
1:A:1114:TYR:HB3	1:A:1115:ASN:ND2	1.82	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:739:GLN:HB3	1:A:794:ILE:HG13	1.48	0.93
1:A:1243:VAL:HA	1:A:1324:ALA:HB1	1.51	0.93
1:D:1114:TYR:HB3	1:D:1115:ASN:ND2	1.84	0.93
1:D:1108:PRO:HA	1:D:1189:ILE:O	1.69	0.93
1:D:1208:VAL:HA	1:D:1277:GLU:HG2	1.49	0.93
1:D:1175:ILE:HG22	1:D:1176:PRO:HA	0.96	0.92
2:E:319:LEU:HD12	2:E:320:PRO:HD2	1.50	0.92
1:D:1174:TYR:O	1:D:1175:ILE:HD12	1.69	0.92
1:G:1596:ALA:O	1:G:1599:ILE:HG12	1.67	0.92
1:G:692:VAL:O	1:G:696:LEU:HD23	1.69	0.92
1:G:1430:ARG:HG2	1:G:1431:GLU:N	1.82	0.92
1:D:1203:ASP:H	1:D:1205:ILE:HG12	1.32	0.92
1:A:1168:LEU:HD22	1:A:1169:LYS:H	1.35	0.92
1:A:1174:TYR:O	1:A:1175:ILE:HD12	1.69	0.92
1:D:1067:LEU:HD13	1:D:1068:LYS:H	1.30	0.92
2:B:2022:UNK:C	2:B:2024:UNK:H	1.82	0.92
1:G:1398:VAL:HG13	1:G:1399:PRO:CA	1.99	0.92
1:D:1596:ALA:O	1:D:1599:ILE:HG12	1.70	0.92
1:G:1450:ARG:O	1:G:1454:THR:HG22	1.69	0.92
2:B:238:CYS:O	2:B:241:ILE:HG22	1.70	0.92
2:H:35:GLU:HA	2:H:38:ASN:HD22	1.31	0.92
1:G:1207:GLN:HE21	1:G:1208:VAL:N	1.67	0.92
1:A:1203:ASP:H	1:A:1205:ILE:CG1	1.82	0.92
1:A:1430:ARG:HG2	1:A:1431:GLU:N	1.83	0.92
1:A:1520:ALA:H	1:A:1521:PRO:HD3	1.34	0.92
1:A:1638:ALA:HB1	1:A:1654:ILE:HD11	1.48	0.92
2:E:1775:GLN:HE21	2:E:1836:MET:HG2	1.33	0.92
1:G:1114:TYR:HB3	1:G:1115:ASN:ND2	1.84	0.92
1:A:1614:VAL:O	1:A:1615:ASP:HB3	1.70	0.92
1:G:1189:ILE:CG2	1:G:1190:PRO:HD3	1.99	0.92
1:G:877:LEU:O	1:G:878:MET:HB2	1.66	0.92
2:E:2022:UNK:C	2:E:2024:UNK:H	1.81	0.92
1:A:1207:GLN:NE2	1:A:1208:VAL:H	1.67	0.92
2:H:41:LEU:HD22	2:H:46:GLU:HA	1.51	0.92
2:H:1784:MET:HE3	3:I:21:UNK:HA	1.52	0.92
2:E:1939:HIS:CG	2:E:1940:LEU:H	1.86	0.92
2:E:403:ASP:OD2	2:E:412:ARG:HG3	1.68	0.92
1:A:1379:ALA:H	1:A:1583:HIS:HB3	1.35	0.92
1:D:1081:LYS:HG2	1:D:1083:PRO:HD3	1.49	0.92
1:D:1583:HIS:H	1:D:1583:HIS:CD2	1.82	0.92
2:B:41:LEU:HD22	2:B:46:GLU:HA	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1203:ASP:H	1:G:1205:ILE:CG1	1.82	0.92
1:D:1732:THR:HG23	1:D:1736:LYS:HB2	1.52	0.92
1:G:1732:THR:HG23	1:G:1736:LYS:HB2	1.51	0.92
1:G:1174:TYR:O	1:G:1175:ILE:HD12	1.70	0.91
1:G:1641:ILE:HD13	1:G:1641:ILE:H	1.33	0.91
1:A:1203:ASP:H	1:A:1205:ILE:HG12	1.31	0.91
1:A:1332:TYR:N	1:A:1587:ALA:HB2	1.84	0.91
2:E:46:GLU:HG3	2:E:51:ASP:HB3	1.52	0.91
1:G:1329:VAL:HG13	1:G:1330:GLY:H	1.36	0.91
1:G:1579:PHE:O	1:G:1580:LEU:HB3	1.70	0.91
1:A:1022:THR:HG22	1:A:1226:SER:CB	1.99	0.91
1:D:1303:GLY:HA2	1:D:1649:LYS:HD2	1.51	0.91
1:D:1168:LEU:HD22	1:D:1169:LYS:H	1.34	0.91
1:G:1332:TYR:N	1:G:1587:ALA:HB2	1.85	0.91
1:A:1207:GLN:HE21	1:A:1208:VAL:H	1.10	0.91
1:A:1398:VAL:HG13	1:A:1399:PRO:CA	2.01	0.91
1:A:1450:ARG:O	1:A:1454:THR:HG22	1.70	0.91
2:E:1390:UNK:HA	2:E:1408:UNK:HA	1.51	0.91
1:G:1243:VAL:HA	1:G:1324:ALA:HB1	1.50	0.91
1:G:1131:LEU:HB2	1:G:1133:PRO:HD3	1.51	0.91
1:A:1303:GLY:CA	1:A:1649:LYS:HD2	2.01	0.91
1:D:1404:VAL:HA	1:D:1655:VAL:HG23	1.51	0.91
2:E:145:LEU:HD13	2:E:551:UNK:HA	1.53	0.91
1:G:1714:VAL:HG11	1:G:1731:LEU:HD13	1.53	0.91
1:A:1628:SER:O	1:A:1630:THR:N	2.03	0.91
1:D:1203:ASP:H	1:D:1205:ILE:CG1	1.83	0.91
2:E:1864:ALA:C	2:E:1866:PHE:H	1.70	0.91
1:G:1303:GLY:CA	1:G:1649:LYS:HD2	2.00	0.90
1:G:1538:VAL:CG2	1:G:1639:VAL:HA	1.99	0.90
1:D:1079:LYS:HD2	1:D:1098:LEU:CD2	2.01	0.90
2:H:157:VAL:HG13	2:H:269:GLY:HA3	1.52	0.90
2:B:157:VAL:HG13	2:B:269:GLY:HA3	1.53	0.90
1:A:1022:THR:HG21	1:A:1388:MET:HE2	1.52	0.90
1:D:1369:ALA:HA	1:D:1547:LYS:HD2	1.54	0.90
2:E:404:GLN:HG3	2:E:408:PRO:HG3	1.54	0.90
1:D:1158:PRO:HG2	1:D:1159:GLU:H	1.35	0.90
1:D:1022:THR:HG21	1:D:1388:MET:HE2	1.52	0.90
1:A:1632:LYS:H	1:A:1632:LYS:HD2	1.33	0.90
1:D:1131:LEU:HB2	1:D:1133:PRO:HD3	1.53	0.90
1:G:1583:HIS:H	1:G:1583:HIS:HD2	1.17	0.90
1:A:1189:ILE:HG23	1:A:1377:MET:SD	2.12	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:692:VAL:O	1:A:696:LEU:HD23	1.71	0.90
1:G:1454:THR:HG23	1:G:1455:ARG:N	1.86	0.90
1:A:1329:VAL:HG13	1:A:1330:GLY:H	1.37	0.90
1:A:1189:ILE:HD11	1:A:1352:THR:HG23	1.54	0.90
1:D:1022:THR:HG22	1:D:1226:SER:CB	2.02	0.90
1:D:1430:ARG:HG2	1:D:1431:GLU:N	1.83	0.90
2:B:1307:UNK:CB	2:E:317:THR:HG23	2.02	0.90
2:B:1939:HIS:CG	2:B:1940:LEU:H	1.86	0.90
1:D:1398:VAL:HG13	1:D:1399:PRO:CA	2.02	0.90
2:E:1690:VAL:HG21	2:E:1787:ALA:HA	1.54	0.90
1:G:1263:ASP:O	1:G:1264:ARG:HB2	1.71	0.90
2:B:1880:LYS:HD3	2:B:1899:VAL:CG1	2.01	0.90
1:D:1614:VAL:O	1:D:1615:ASP:HB3	1.71	0.90
2:H:46:GLU:HG3	2:H:51:ASP:HB3	1.52	0.90
2:B:238:CYS:HA	2:B:275:GLN:NE2	1.87	0.90
2:B:1715:VAL:HG22	2:B:1716:ASN:H	1.37	0.90
2:H:1390:UNK:HA	2:H:1408:UNK:HA	1.50	0.90
2:H:403:ASP:OD2	2:H:412:ARG:HG3	1.69	0.90
1:A:1132:GLU:N	1:A:1133:PRO:HD3	1.86	0.89
1:G:1067:LEU:CD1	1:G:1068:LYS:H	1.85	0.89
1:A:1583:HIS:HD2	1:A:1583:HIS:H	1.18	0.89
1:A:1452:LEU:O	1:A:1456:GLU:HB2	1.72	0.89
2:H:319:LEU:HD12	2:H:320:PRO:HD2	1.51	0.89
2:E:1709:ILE:HD11	2:E:1719:ILE:HD11	1.54	0.89
2:E:29:ILE:HG13	2:E:61:VAL:HG22	1.54	0.89
2:H:1864:ALA:C	2:H:1866:PHE:H	1.70	0.89
1:A:1452:LEU:HA	1:A:1456:GLU:HG3	1.53	0.89
2:H:2022:UNK:C	2:H:2024:UNK:H	1.81	0.89
1:A:1462:TRP:HZ3	1:A:1466:GLU:HB2	1.38	0.89
1:A:1476:GLU:O	1:A:1477:ILE:HG12	1.72	0.89
1:G:1079:LYS:HD2	1:G:1098:LEU:CD2	2.02	0.89
1:A:1353:LEU:N	1:A:1356:PHE:HB2	1.87	0.89
1:D:1452:LEU:HA	1:D:1456:GLU:HG3	1.53	0.89
1:G:1207:GLN:NE2	1:G:1208:VAL:H	1.69	0.89
1:G:1303:GLY:HA2	1:G:1649:LYS:HD2	1.52	0.89
1:A:1369:ALA:HA	1:A:1547:LYS:HD2	1.52	0.89
1:D:1189:ILE:CG2	1:D:1190:PRO:HD3	2.01	0.89
1:D:1243:VAL:HA	1:D:1324:ALA:HB1	1.52	0.89
1:D:1659:ASP:HA	1:D:1662:TYR:CD2	2.07	0.89
1:D:1207:GLN:HE21	1:D:1208:VAL:H	1.08	0.89
1:D:1329:VAL:HG13	1:D:1330:GLY:H	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:720:UNK:O	2:B:722:UNK:N	2.06	0.89
1:A:1714:VAL:HG11	1:A:1731:LEU:HD13	1.53	0.89
1:D:1302:VAL:HG23	1:D:1649:LYS:HE3	1.54	0.89
1:D:716:ASP:O	1:D:719:GLN:HB3	1.72	0.89
1:A:1454:THR:HG23	1:A:1455:ARG:N	1.86	0.89
2:H:145:LEU:HD13	2:H:551:UNK:HA	1.53	0.89
2:B:145:LEU:HD13	2:B:551:UNK:HA	1.52	0.89
1:G:1628:SER:O	1:G:1630:THR:N	2.05	0.89
1:A:1579:PHE:O	1:A:1580:LEU:HB3	1.72	0.89
1:D:1353:LEU:N	1:D:1356:PHE:HB2	1.87	0.89
1:D:1422:GLY:CA	1:D:1425:ILE:HB	2.02	0.89
2:E:157:VAL:HG13	2:E:269:GLY:HA3	1.54	0.89
1:D:653:UNK:HA	1:D:656:UNK:CB	2.03	0.89
1:A:1659:ASP:HA	1:A:1662:TYR:CD2	2.07	0.89
1:G:1659:ASP:HA	1:G:1662:TYR:CD2	2.09	0.88
2:B:349:VAL:HG21	2:B:377:LEU:HD13	1.54	0.88
2:H:1690:VAL:HG21	2:H:1787:ALA:HA	1.53	0.88
1:A:586:UNK:CB	1:A:671:VAL:H	1.86	0.88
1:D:1132:GLU:N	1:D:1133:PRO:HD3	1.89	0.88
1:D:1257:LEU:O	1:D:1260:MET:HB2	1.72	0.88
1:D:1454:THR:HG23	1:D:1455:ARG:N	1.88	0.88
2:H:483:ILE:HG22	2:H:484:ILE:N	1.87	0.88
1:G:1452:LEU:HA	1:G:1456:GLU:HG3	1.54	0.88
1:D:1541:PHE:O	1:D:1542:HIS:HB3	1.73	0.88
1:D:1711:GLU:HG2	1:D:1715:TYR:CE1	2.08	0.88
2:B:1775:GLN:HE21	2:B:1836:MET:HG2	1.35	0.88
1:G:1132:GLU:N	1:G:1133:PRO:HD3	1.88	0.88
1:G:1353:LEU:N	1:G:1356:PHE:HB2	1.87	0.88
1:A:1060:ILE:HA	1:A:1079:LYS:HA	1.56	0.88
1:A:1067:LEU:CD1	1:A:1068:LYS:H	1.86	0.88
1:A:716:ASP:O	1:A:719:GLN:HB3	1.72	0.88
1:D:1628:SER:O	1:D:1630:THR:N	2.04	0.88
2:E:1715:VAL:HG22	2:E:1716:ASN:H	1.37	0.88
1:G:1665:ILE:HD12	1:G:1669:ARG:H	1.38	0.88
2:B:87:CYS:HA	2:B:90:GLU:HB3	1.53	0.88
1:G:1405:ALA:HB3	1:G:1654:ILE:O	1.72	0.88
1:D:1379:ALA:H	1:D:1583:HIS:HB3	1.37	0.88
1:D:1538:VAL:CG2	1:D:1639:VAL:HA	2.01	0.88
1:D:1476:GLU:O	1:D:1477:ILE:HG12	1.73	0.88
2:H:199:ILE:HG23	2:H:200:ARG:H	1.38	0.88
1:A:1131:LEU:HB2	1:A:1133:PRO:HD3	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1114:TYR:C	1:A:1115:ASN:HD22	1.76	0.88
1:A:1118:LYS:HE3	1:A:1120:GLU:CD	1.94	0.88
1:D:1189:ILE:HD11	1:D:1352:THR:HG23	1.54	0.88
1:G:1422:GLY:CA	1:G:1425:ILE:HB	2.03	0.88
1:D:1408:ALA:O	1:D:1409:THR:HG22	1.74	0.88
1:G:1541:PHE:O	1:G:1542:HIS:HB3	1.72	0.88
1:D:1060:ILE:HA	1:D:1079:LYS:HA	1.55	0.88
1:D:1118:LYS:HE2	1:D:1337:GLU:HA	1.56	0.88
2:H:238:CYS:O	2:H:241:ILE:HG22	1.73	0.88
2:E:242:GLY:HA2	2:E:245:GLN:HE21	1.38	0.88
2:H:1715:VAL:CB	2:H:1770:LEU:H	1.85	0.88
2:E:199:ILE:HG23	2:E:200:ARG:H	1.37	0.88
1:A:653:UNK:HA	1:A:656:UNK:CB	2.04	0.88
1:A:1158:PRO:HG2	1:A:1159:GLU:H	1.36	0.88
1:A:1167:LEU:O	1:A:1168:LEU:HB2	1.72	0.88
1:G:1117:GLU:O	1:G:1119:LYS:N	2.07	0.88
1:G:1189:ILE:HG23	1:G:1377:MET:SD	2.14	0.88
1:G:905:LEU:HD22	1:G:905:LEU:H	1.37	0.88
1:D:1452:LEU:O	1:D:1456:GLU:HB2	1.74	0.88
1:G:1452:LEU:O	1:G:1456:GLU:HB2	1.73	0.88
2:B:483:ILE:HG22	2:B:484:ILE:N	1.88	0.88
2:B:1690:VAL:HG21	2:B:1787:ALA:HA	1.55	0.88
1:D:1263:ASP:O	1:D:1264:ARG:HB2	1.72	0.88
2:B:199:ILE:HG23	2:B:200:ARG:H	1.39	0.88
1:G:1408:ALA:O	1:G:1409:THR:HG22	1.72	0.88
1:A:1211:ILE:O	1:A:1213:LEU:N	2.06	0.88
1:D:1583:HIS:HD2	1:D:1583:HIS:H	1.19	0.88
2:H:238:CYS:HA	2:H:275:GLN:NE2	1.89	0.88
2:E:238:CYS:HA	2:E:275:GLN:NE2	1.89	0.88
2:H:387:TYR:HA	2:H:390:ASN:HD22	1.39	0.88
2:E:387:TYR:HA	2:E:390:ASN:HD22	1.37	0.88
1:G:1158:PRO:HG2	1:G:1159:GLU:H	1.38	0.87
1:G:1211:ILE:O	1:G:1213:LEU:N	2.07	0.87
1:A:1541:PHE:O	1:A:1542:HIS:HB3	1.73	0.87
2:H:242:GLY:HA2	2:H:245:GLN:HE21	1.37	0.87
1:A:1302:VAL:HG23	1:A:1649:LYS:HE3	1.54	0.87
1:D:1332:TYR:N	1:D:1587:ALA:HB2	1.87	0.87
1:D:1189:ILE:HG23	1:D:1377:MET:SD	2.13	0.87
1:D:1506:GLN:HA	1:D:1510:ASN:HD22	1.40	0.87
1:G:1476:GLU:O	1:G:1477:ILE:HG12	1.74	0.87
1:G:1614:VAL:O	1:G:1615:ASP:HB3	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1254:VAL:HG22	1:D:1255:SER:H	1.40	0.87
2:B:109:LEU:HD11	2:B:533:LEU:HA	1.54	0.87
1:A:1501:LEU:HD22	1:A:1505:GLN:HE21	1.39	0.87
2:E:349:VAL:HG21	2:E:377:LEU:HD13	1.56	0.87
1:D:586:UNK:CB	1:D:671:VAL:H	1.88	0.87
1:G:556:UNK:O	1:G:558:UNK:N	2.08	0.87
2:E:483:ILE:HG22	2:E:484:ILE:N	1.88	0.87
2:E:503:ASP:O	2:E:528:ILE:HG12	1.74	0.87
2:H:29:ILE:HG13	2:H:61:VAL:HG22	1.54	0.87
1:G:1118:LYS:HE3	1:G:1120:GLU:CD	1.93	0.87
1:G:1291:LEU:H	1:G:1701:LYS:CD	1.88	0.87
1:D:1579:PHE:O	1:D:1580:LEU:HB3	1.73	0.87
2:B:503:ASP:O	2:B:528:ILE:HG12	1.73	0.87
2:E:1715:VAL:CB	2:E:1770:LEU:H	1.88	0.87
1:G:586:UNK:CB	1:G:671:VAL:H	1.88	0.87
1:A:1079:LYS:HD2	1:A:1098:LEU:CD2	2.03	0.87
1:A:1422:GLY:CA	1:A:1425:ILE:HB	2.04	0.87
1:A:1711:GLU:HG2	1:A:1715:TYR:CE1	2.08	0.87
2:H:236:ILE:O	2:H:240:LEU:HD13	1.74	0.87
2:E:344:LEU:HD13	2:E:345:THR:H	1.40	0.87
2:B:1704:PHE:HB2	2:B:1719:ILE:HD13	1.57	0.87
2:B:404:GLN:HG3	2:B:408:PRO:HG3	1.54	0.87
1:A:1280:ILE:N	1:A:1280:ILE:HD12	1.90	0.87
2:B:1864:ALA:C	2:B:1866:PHE:H	1.72	0.87
2:E:87:CYS:HA	2:E:90:GLU:HB3	1.55	0.87
1:G:1189:ILE:HD11	1:G:1352:THR:HG23	1.55	0.87
1:D:1385:GLN:NE2	1:D:1593:MET:HG3	1.90	0.87
1:D:1714:VAL:HG11	1:D:1731:LEU:HD13	1.54	0.87
2:E:241:ILE:HG21	2:E:275:GLN:NE2	1.88	0.87
2:H:87:CYS:HA	2:H:90:GLU:HB3	1.54	0.87
1:D:1063:HIS:C	1:D:1065:GLY:N	2.28	0.86
2:B:260:PRO:HG3	2:B:292:PHE:HB2	1.57	0.86
1:D:1665:ILE:HD12	1:D:1669:ARG:H	1.39	0.86
2:E:720:UNK:O	2:E:722:UNK:N	2.08	0.86
2:B:387:TYR:HA	2:B:390:ASN:HD22	1.39	0.86
1:G:1292:ILE:O	1:G:1292:ILE:HG12	1.74	0.86
1:G:1369:ALA:HA	1:G:1547:LYS:HD2	1.57	0.86
1:G:1711:GLU:HG2	1:G:1715:TYR:CE1	2.10	0.86
1:A:1299:LYS:HZ1	1:A:1323:LYS:HZ1	1.20	0.86
1:D:1583:HIS:ND1	1:D:1585:LYS:N	2.23	0.86
1:D:1406:MET:O	1:D:1653:ALA:HB1	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1462:TRP:HZ3	1:D:1466:GLU:HB2	1.39	0.86
1:A:1665:ILE:HD12	1:A:1669:ARG:H	1.38	0.86
2:E:1880:LYS:HD3	2:E:1899:VAL:CG1	2.04	0.86
1:G:1022:THR:HG22	1:G:1226:SER:CB	2.02	0.86
1:G:1208:VAL:HA	1:G:1277:GLU:CG	2.05	0.86
2:E:433:VAL:H	2:E:434:PRO:HD2	1.40	0.86
2:H:1715:VAL:HG22	2:H:1716:ASN:H	1.38	0.86
2:B:29:ILE:HG13	2:B:61:VAL:HG22	1.54	0.86
1:G:1280:ILE:N	1:G:1280:ILE:HD12	1.91	0.86
1:D:1280:ILE:N	1:D:1280:ILE:HD12	1.89	0.86
1:G:1379:ALA:H	1:G:1583:HIS:HB3	1.37	0.86
1:G:1396:MET:HA	1:G:1676:LYS:CD	2.06	0.86
1:A:1223:PHE:CE2	1:A:1386:ILE:HG21	2.08	0.86
1:D:1079:LYS:HD2	1:D:1098:LEU:HD21	1.57	0.86
2:H:433:VAL:H	2:H:434:PRO:HD2	1.39	0.86
2:B:41:LEU:HB3	2:B:46:GLU:H	1.40	0.86
2:E:109:LEU:HD11	2:E:533:LEU:HA	1.56	0.86
1:D:1067:LEU:CD1	1:D:1068:LYS:H	1.87	0.86
1:A:1506:GLN:HA	1:A:1510:ASN:HD22	1.39	0.86
1:G:653:UNK:HA	1:G:656:UNK:CB	2.05	0.86
1:A:710:PHE:HE1	1:A:736:PRO:HD3	1.39	0.86
1:D:1211:ILE:O	1:D:1213:LEU:N	2.08	0.86
2:B:1709:ILE:HD11	2:B:1719:ILE:HD11	1.56	0.86
1:A:1263:ASP:O	1:A:1264:ARG:HB2	1.74	0.86
1:G:710:PHE:HE1	1:G:736:PRO:HD3	1.36	0.86
1:A:1408:ALA:O	1:A:1409:THR:HG22	1.75	0.86
2:H:404:GLN:HG3	2:H:408:PRO:HG3	1.56	0.86
1:A:1070:ARG:HG3	1:A:1071:PRO:HD2	1.58	0.86
1:A:1257:LEU:O	1:A:1260:MET:HB2	1.74	0.86
1:D:692:VAL:O	1:D:696:LEU:HD23	1.75	0.86
1:A:556:UNK:O	1:A:558:UNK:N	2.08	0.86
1:D:700:GLY:HA2	1:D:727:ALA:HB3	1.57	0.86
1:G:1114:TYR:C	1:G:1115:ASN:HD22	1.79	0.86
1:G:1583:HIS:ND1	1:G:1585:LYS:N	2.24	0.86
1:A:1208:VAL:HA	1:A:1277:GLU:CG	2.06	0.86
2:H:109:LEU:HD11	2:H:533:LEU:HA	1.58	0.86
2:H:503:ASP:O	2:H:528:ILE:HG12	1.75	0.86
1:G:1462:TRP:HZ3	1:G:1466:GLU:HB2	1.39	0.86
1:D:1473:GLU:O	1:D:1476:GLU:HB3	1.76	0.86
2:E:1903:ASP:OD1	2:E:1907:LEU:HD21	1.76	0.86
2:B:1138:UNK:HA	2:B:1195:UNK:CB	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1880:LYS:HD3	2:H:1899:VAL:CG1	2.05	0.86
1:A:920:SER:HB2	1:A:921:PRO:HD2	1.58	0.86
1:A:1062:TYR:HE2	1:A:1693:ILE:HD12	1.40	0.85
1:D:1067:LEU:HD21	1:D:1073:THR:CA	2.06	0.85
1:G:1506:GLN:HA	1:G:1510:ASN:HD22	1.38	0.85
2:B:236:ILE:O	2:B:240:LEU:HD13	1.75	0.85
2:B:242:GLY:HA2	2:B:245:GLN:HE21	1.40	0.85
2:E:1704:PHE:HB2	2:E:1719:ILE:HD13	1.57	0.85
2:E:41:LEU:HB3	2:E:46:GLU:H	1.40	0.85
2:B:1880:LYS:HD3	2:B:1899:VAL:HG13	1.58	0.85
2:H:2047:UNK:C	2:H:2049:UNK:H	1.88	0.85
1:D:1167:LEU:O	1:D:1168:LEU:HB2	1.76	0.85
1:G:1223:PHE:CE2	1:G:1386:ILE:HG21	2.10	0.85
2:B:67:TYR:C	2:B:69:SER:H	1.77	0.85
2:B:85:ASN:HD21	2:B:134:LYS:HB2	1.41	0.85
1:G:1167:LEU:O	1:G:1168:LEU:HB2	1.73	0.85
1:G:1118:LYS:HE2	1:G:1337:GLU:HA	1.58	0.85
1:D:1201:SER:HB3	1:D:1204:ILE:CG1	2.07	0.85
1:D:1208:VAL:HA	1:D:1277:GLU:CG	2.05	0.85
2:B:344:LEU:HD13	2:B:345:THR:H	1.42	0.85
2:E:67:TYR:C	2:E:69:SER:H	1.77	0.85
2:H:1138:UNK:HA	2:H:1195:UNK:CB	2.07	0.85
1:G:1302:VAL:HG23	1:G:1649:LYS:HE3	1.57	0.85
1:G:1062:TYR:HE2	1:G:1693:ILE:HD12	1.40	0.85
1:D:1070:ARG:HG3	1:D:1071:PRO:HD2	1.58	0.85
1:A:1473:GLU:O	1:A:1476:GLU:HB3	1.75	0.85
1:D:920:SER:HB2	1:D:921:PRO:HD2	1.58	0.85
1:G:1169:LYS:HG3	1:G:1170:GLY:H	1.39	0.85
1:A:1131:LEU:N	1:A:1173:LEU:HD22	1.91	0.85
1:G:1060:ILE:HA	1:G:1079:LYS:HA	1.56	0.85
1:D:905:LEU:HD22	1:D:905:LEU:H	1.41	0.85
2:H:1812:TYR:HD2	2:H:1812:TYR:H	1.24	0.85
1:G:681:THR:HB	1:G:771:PHE:N	1.91	0.85
1:G:1151:LYS:HE3	1:G:1175:ILE:HD13	1.59	0.85
1:D:1169:LYS:HG3	1:D:1170:GLY:H	1.37	0.85
1:D:1291:LEU:H	1:D:1701:LYS:CD	1.86	0.85
1:D:681:THR:HB	1:D:771:PHE:N	1.90	0.85
2:H:720:UNK:O	2:H:722:UNK:N	2.10	0.85
1:G:1329:VAL:HG13	1:G:1330:GLY:N	1.91	0.85
1:D:869:ILE:HG23	1:D:926:LEU:HB2	1.59	0.85
2:E:236:ILE:O	2:E:240:LEU:HD13	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:556:UNK:O	1:D:558:UNK:N	2.10	0.85
1:G:1107:GLU:HB3	1:G:1108:PRO:HD3	1.59	0.85
1:A:1063:HIS:C	1:A:1065:GLY:N	2.28	0.85
1:A:1291:LEU:H	1:A:1701:LYS:CD	1.88	0.85
1:A:1406:MET:O	1:A:1653:ALA:HB1	1.76	0.85
1:A:905:LEU:HD22	1:A:905:LEU:H	1.42	0.85
1:A:1456:GLU:H	1:A:1459:ILE:CG1	1.90	0.85
2:E:260:PRO:HG3	2:E:292:PHE:HB2	1.58	0.85
1:D:1062:TYR:HE2	1:D:1693:ILE:HD12	1.40	0.85
2:B:433:VAL:H	2:B:434:PRO:HD2	1.39	0.85
1:D:1184:LEU:HD22	1:D:1341:PHE:HD2	1.42	0.85
1:G:1558:ASN:CG	1:G:1620:GLN:HB3	1.96	0.85
1:A:1396:MET:HA	1:A:1676:LYS:CD	2.07	0.85
1:A:1235:TYR:O	1:A:1721:ARG:HA	1.77	0.85
1:A:826:MET:HB2	1:A:868:ILE:HA	1.58	0.85
1:A:1329:VAL:HG13	1:A:1330:GLY:N	1.92	0.84
1:A:700:GLY:HA2	1:A:727:ALA:HB3	1.59	0.84
1:D:1117:GLU:O	1:D:1119:LYS:N	2.10	0.84
1:D:1118:LYS:HE3	1:D:1120:GLU:CD	1.96	0.84
1:G:993:PRO:HG3	1:G:1681:GLU:HB3	1.60	0.84
1:A:1107:GLU:HB3	1:A:1108:PRO:HD3	1.60	0.84
1:D:1114:TYR:C	1:D:1115:ASN:HD22	1.79	0.84
1:D:1501:LEU:HD22	1:D:1505:GLN:HE21	1.42	0.84
1:A:1178:ALA:O	1:A:1179:LEU:HD22	1.76	0.84
1:A:1302:VAL:O	1:A:1307:THR:HB	1.77	0.84
1:D:1223:PHE:CE2	1:D:1386:ILE:HG21	2.12	0.84
1:D:1639:VAL:HG22	1:D:1655:VAL:O	1.77	0.84
1:D:1235:TYR:O	1:D:1721:ARG:HA	1.77	0.84
2:H:1903:ASP:OD1	2:H:1907:LEU:HD21	1.77	0.84
2:B:241:ILE:HG21	2:B:275:GLN:NE2	1.91	0.84
1:A:1081:LYS:HD3	1:A:1081:LYS:H	1.43	0.84
1:D:1292:ILE:HG12	1:D:1292:ILE:O	1.78	0.84
1:G:1385:GLN:NE2	1:G:1593:MET:HG3	1.92	0.84
1:A:1659:ASP:HA	1:A:1662:TYR:HD2	1.43	0.84
2:H:349:VAL:HG21	2:H:377:LEU:HD13	1.57	0.84
2:B:187:LEU:HD21	2:B:296:VAL:HG21	1.59	0.84
2:H:92:GLU:HA	2:H:96:LEU:HD11	1.60	0.84
2:E:2047:UNK:C	2:E:2049:UNK:H	1.89	0.84
1:G:1070:ARG:HG3	1:G:1071:PRO:HD2	1.59	0.84
2:H:241:ILE:HG21	2:H:275:GLN:NE2	1.92	0.84
2:B:92:GLU:HA	2:B:96:LEU:HD11	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:700:GLY:HA2	1:G:727:ALA:HB3	1.59	0.84
1:G:1257:LEU:O	1:G:1260:MET:HB2	1.78	0.84
1:D:1456:GLU:H	1:D:1459:ILE:CG1	1.91	0.84
1:G:1067:LEU:HD21	1:G:1073:THR:CA	2.08	0.84
1:G:1106:ILE:O	1:G:1107:GLU:HB2	1.77	0.84
1:A:1201:SER:HB3	1:A:1204:ILE:CG1	2.08	0.84
1:D:677:TYR:CE2	1:D:702:LYS:HD2	2.12	0.84
2:H:260:PRO:HG3	2:H:292:PHE:HB2	1.58	0.84
2:E:241:ILE:CG2	2:E:275:GLN:HE21	1.89	0.84
2:B:1715:VAL:CB	2:B:1770:LEU:H	1.89	0.84
1:G:587:UNK:CB	1:G:906:LEU:HD21	2.08	0.84
1:A:1128:GLU:HB3	1:A:1177:LYS:HE3	1.59	0.83
1:G:1235:TYR:O	1:G:1721:ARG:HA	1.77	0.83
1:A:1558:ASN:CG	1:A:1620:GLN:HB3	1.99	0.83
1:A:869:ILE:HG23	1:A:926:LEU:HB2	1.60	0.83
1:D:1290:LEU:HA	1:D:1701:LYS:HZ2	1.43	0.83
1:D:1410:ALA:HB3	1:D:1426:LEU:HB2	1.60	0.83
1:D:993:PRO:HG3	1:D:1681:GLU:HB3	1.59	0.83
2:H:367:GLU:O	2:H:379:VAL:HG13	1.78	0.83
2:E:483:ILE:HG22	2:E:484:ILE:HG23	1.59	0.83
2:B:367:GLU:O	2:B:379:VAL:HG13	1.78	0.83
1:G:1473:GLU:O	1:G:1476:GLU:HB3	1.77	0.83
2:B:1899:VAL:O	2:B:1903:ASP:HB3	1.78	0.83
1:G:828:PRO:HG2	1:G:829:ASN:ND2	1.92	0.83
1:G:1535:ASP:HB2	1:G:1566:ARG:NH2	1.93	0.83
1:A:1299:LYS:NZ	1:A:1323:LYS:HZ1	1.76	0.83
1:D:1581:THR:HG22	1:D:1591:TRP:CZ3	2.13	0.83
1:G:756:GLU:HA	1:G:760:GLY:HA2	1.59	0.83
2:E:1138:UNK:HA	2:E:1195:UNK:CB	2.07	0.83
2:E:85:ASN:HD21	2:E:134:LYS:HB2	1.43	0.83
1:G:1254:VAL:HG22	1:G:1255:SER:H	1.41	0.83
1:A:1067:LEU:HD21	1:A:1073:THR:CA	2.07	0.83
1:D:1104:ARG:HA	1:D:1104:ARG:NE	1.93	0.83
1:A:828:PRO:HG2	1:A:829:ASN:ND2	1.93	0.83
1:G:1406:MET:O	1:G:1653:ALA:HB1	1.78	0.83
1:A:1246:CYS:CB	1:A:1328:ILE:HG23	2.08	0.83
1:A:1639:VAL:HG22	1:A:1655:VAL:O	1.78	0.83
1:D:826:MET:HB2	1:D:868:ILE:HA	1.61	0.83
2:B:240:LEU:O	2:B:244:ILE:HG13	1.78	0.83
2:H:1704:PHE:HB2	2:H:1719:ILE:HD13	1.57	0.83
1:D:756:GLU:HA	1:D:760:GLY:HA2	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:999:LYS:HB2	1:D:1666:THR:O	1.78	0.83
1:A:681:THR:HB	1:A:771:PHE:N	1.93	0.83
1:A:677:TYR:CE2	1:A:702:LYS:HD2	2.12	0.83
1:D:1246:CYS:CB	1:D:1328:ILE:HG23	2.08	0.83
1:G:677:TYR:CE2	1:G:702:LYS:HD2	2.13	0.83
2:H:221:ASN:HD22	2:H:221:ASN:H	1.26	0.83
1:G:907:GLY:C	1:G:909:LEU:H	1.80	0.83
1:G:1024:PHE:HB2	1:G:1385:GLN:HG2	1.60	0.83
1:G:1535:ASP:HB2	1:G:1566:ARG:CZ	2.09	0.83
1:D:1081:LYS:H	1:D:1081:LYS:HD3	1.43	0.83
1:D:1106:ILE:O	1:D:1107:GLU:HB2	1.77	0.83
2:B:234:ILE:HG23	2:B:235:PRO:CD	2.08	0.83
1:D:1151:LYS:HE3	1:D:1175:ILE:HD13	1.59	0.83
1:G:1254:VAL:O	1:G:1256:ALA:N	2.12	0.83
1:D:1236:LYS:O	1:D:1236:LYS:HG3	1.78	0.83
1:D:424:UNK:CB	1:D:786:SER:HA	2.09	0.83
2:B:241:ILE:CG2	2:B:275:GLN:HE21	1.91	0.83
2:B:1903:ASP:OD1	2:B:1907:LEU:HD21	1.79	0.83
1:A:1410:ALA:HB3	1:A:1426:LEU:HB2	1.60	0.83
2:H:483:ILE:HG22	2:H:484:ILE:HG23	1.58	0.83
1:G:1456:GLU:H	1:G:1459:ILE:CG1	1.92	0.83
2:H:85:ASN:HD21	2:H:134:LYS:HB2	1.43	0.83
1:G:1178:ALA:O	1:G:1179:LEU:HD22	1.78	0.83
1:A:1254:VAL:HG22	1:A:1255:SER:H	1.43	0.83
1:A:1024:PHE:HB2	1:A:1385:GLN:HG2	1.61	0.83
1:A:1385:GLN:NE2	1:A:1593:MET:HG3	1.94	0.83
1:A:802:MET:O	1:A:806:VAL:HG23	1.79	0.83
1:D:1118:LYS:O	1:D:1120:GLU:HG2	1.79	0.83
2:H:234:ILE:HG23	2:H:235:PRO:CD	2.07	0.83
2:H:517:HIS:HB2	2:H:526:ARG:HG3	1.61	0.83
1:G:1501:LEU:HD22	1:G:1505:GLN:HE21	1.42	0.83
1:G:920:SER:HB2	1:G:921:PRO:HD2	1.59	0.83
1:G:1079:LYS:HD2	1:G:1098:LEU:HD21	1.60	0.83
1:G:1104:ARG:HA	1:G:1104:ARG:NE	1.92	0.83
1:D:1558:ASN:CG	1:D:1620:GLN:HB3	1.98	0.83
1:A:1104:ARG:HA	1:A:1104:ARG:NE	1.93	0.82
1:A:1118:LYS:HE2	1:A:1337:GLU:HA	1.57	0.82
2:H:344:LEU:HD13	2:H:345:THR:H	1.42	0.82
1:G:1454:THR:CG2	1:G:1455:ARG:H	1.91	0.82
2:H:1709:ILE:HD11	2:H:1719:ILE:HD11	1.59	0.82
1:A:1189:ILE:HD12	1:A:1377:MET:HE2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1519:ILE:HG13	1:A:1523:ARG:HD2	1.61	0.82
1:D:1189:ILE:HD12	1:D:1377:MET:HE2	1.58	0.82
2:E:92:GLU:HA	2:E:96:LEU:HD11	1.61	0.82
1:A:1535:ASP:HB2	1:A:1566:ARG:CZ	2.08	0.82
1:A:424:UNK:CB	1:A:786:SER:HA	2.09	0.82
1:D:1535:ASP:HB2	1:D:1566:ARG:NH2	1.94	0.82
1:D:802:MET:O	1:D:806:VAL:HG23	1.78	0.82
2:E:1899:VAL:O	2:E:1903:ASP:HB3	1.79	0.82
2:B:2047:UNK:C	2:B:2049:UNK:H	1.89	0.82
1:D:1131:LEU:N	1:D:1173:LEU:HD22	1.93	0.82
1:G:1201:SER:HB3	1:G:1204:ILE:CG1	2.07	0.82
2:H:339:LEU:HB3	2:H:386:LEU:HD21	1.62	0.82
2:E:1827:LEU:O	2:E:1831:VAL:HG23	1.78	0.82
1:D:712:LYS:O	1:D:716:ASP:HB2	1.79	0.82
2:H:41:LEU:HB3	2:H:46:GLU:H	1.43	0.82
1:G:802:MET:O	1:G:806:VAL:HG23	1.80	0.82
2:E:1855:ILE:HD11	2:E:1857:ILE:HD11	1.62	0.82
1:A:999:LYS:HB2	1:A:1666:THR:O	1.79	0.82
1:G:712:LYS:O	1:G:716:ASP:HB2	1.79	0.82
1:A:1535:ASP:HB2	1:A:1566:ARG:NH2	1.93	0.82
1:D:1405:ALA:HB3	1:D:1654:ILE:O	1.79	0.82
1:G:676:LYS:O	1:G:766:ASP:HB2	1.79	0.82
2:E:221:ASN:H	2:E:221:ASN:HD22	1.28	0.82
1:A:1462:TRP:CZ3	1:A:1466:GLU:HB2	2.14	0.82
2:E:240:LEU:O	2:E:244:ILE:HG13	1.80	0.82
2:B:1715:VAL:HG22	2:B:1716:ASN:N	1.94	0.82
1:A:756:GLU:HA	1:A:760:GLY:HA2	1.61	0.82
1:G:1082:GLU:H	1:G:1083:PRO:HD3	1.45	0.82
1:G:1119:LYS:HE3	1:G:1121:MET:HB2	1.60	0.82
1:A:1082:GLU:H	1:A:1083:PRO:HD3	1.45	0.82
1:D:1107:GLU:HB3	1:D:1108:PRO:HD3	1.59	0.82
1:D:1019:ILE:HG13	1:D:1316:VAL:HG23	1.61	0.82
1:D:1535:ASP:HB2	1:D:1566:ARG:CZ	2.09	0.82
2:H:187:LEU:HD21	2:H:296:VAL:HG21	1.62	0.82
2:E:339:LEU:HB3	2:E:386:LEU:HD21	1.62	0.82
1:A:1153:ASP:OD1	1:A:1157:ILE:HG23	1.79	0.82
1:G:1022:THR:HG21	1:G:1388:MET:HE2	1.58	0.82
1:A:712:LYS:O	1:A:716:ASP:HB2	1.80	0.82
1:D:1302:VAL:O	1:D:1307:THR:HB	1.80	0.82
1:D:828:PRO:HG2	1:D:829:ASN:ND2	1.94	0.82
1:G:1246:CYS:CB	1:G:1328:ILE:HG23	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1019:ILE:HG13	1:G:1316:VAL:HG23	1.61	0.82
1:A:676:LYS:O	1:A:766:ASP:HB2	1.80	0.82
1:D:1396:MET:HA	1:D:1676:LYS:CD	2.09	0.82
2:B:483:ILE:HG22	2:B:484:ILE:HG23	1.60	0.82
1:G:999:LYS:HB2	1:G:1666:THR:O	1.80	0.82
2:B:203:LEU:O	2:B:204:ASP:HB2	1.79	0.82
2:H:1899:VAL:O	2:H:1903:ASP:HB3	1.79	0.82
1:G:1067:LEU:HD23	1:G:1074:GLY:O	1.79	0.81
2:B:166:THR:HG22	2:B:168:ASP:H	1.44	0.81
1:G:1302:VAL:O	1:G:1307:THR:HB	1.79	0.81
1:A:1079:LYS:HD2	1:A:1098:LEU:HD21	1.61	0.81
1:D:1618:LEU:HD22	1:D:1623:TYR:OH	1.80	0.81
1:D:1462:TRP:CZ3	1:D:1466:GLU:HB2	2.15	0.81
2:E:1715:VAL:HG22	2:E:1716:ASN:N	1.94	0.81
2:E:367:GLU:O	2:E:379:VAL:HG13	1.79	0.81
1:G:826:MET:HB2	1:G:868:ILE:HA	1.61	0.81
1:G:1236:LYS:O	1:G:1236:LYS:HG3	1.78	0.81
1:G:1410:ALA:HB3	1:G:1426:LEU:HB2	1.60	0.81
1:A:1119:LYS:HE3	1:A:1121:MET:HB2	1.60	0.81
1:A:1434:SER:OG	1:A:1436:VAL:HG23	1.79	0.81
1:A:1067:LEU:HD23	1:A:1074:GLY:O	1.80	0.81
1:D:1024:PHE:HB2	1:D:1385:GLN:HG2	1.62	0.81
1:D:1408:ALA:HB1	1:D:1651:GLY:C	2.01	0.81
2:B:72:VAL:HB	2:B:74:PRO:HD2	1.61	0.81
1:D:587:UNK:CB	1:D:906:LEU:HD21	2.10	0.81
1:A:1405:ALA:HB3	1:A:1654:ILE:O	1.80	0.81
1:D:1051:VAL:HA	1:D:1094:GLU:OE1	1.80	0.81
1:D:1519:ILE:HG13	1:D:1523:ARG:HD2	1.62	0.81
2:H:256:LEU:HD23	2:H:263:LEU:HD21	1.62	0.81
2:B:259:THR:HG22	2:B:260:PRO:HD2	1.62	0.81
2:H:203:LEU:O	2:H:204:ASP:HB2	1.77	0.81
2:B:1855:ILE:HD11	2:B:1857:ILE:HD11	1.63	0.81
1:G:1063:HIS:C	1:G:1065:GLY:N	2.28	0.81
1:G:1434:SER:OG	1:G:1436:VAL:HG23	1.80	0.81
1:A:993:PRO:HG3	1:A:1681:GLU:HB3	1.61	0.81
2:B:1821:VAL:HG23	2:B:1822:MET:H	1.46	0.81
2:H:1695:ASP:OD1	2:H:1705:SER:HB2	1.81	0.81
1:A:1169:LYS:HG3	1:A:1170:GLY:H	1.44	0.81
1:G:1118:LYS:O	1:G:1120:GLU:HG2	1.80	0.81
1:G:1353:LEU:O	1:G:1354:GLU:HB2	1.80	0.81
1:G:1385:GLN:HE22	1:G:1593:MET:CG	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1547:LYS:HA	1:G:1550:ASP:CB	2.11	0.81
1:D:1547:LYS:HA	1:D:1550:ASP:CB	2.09	0.81
1:D:1659:ASP:HA	1:D:1662:TYR:HD2	1.42	0.81
2:E:234:ILE:HG23	2:E:235:PRO:CD	2.08	0.81
2:E:1821:VAL:HG23	2:E:1822:MET:H	1.45	0.81
2:H:1715:VAL:HG22	2:H:1716:ASN:N	1.95	0.81
2:H:72:VAL:HB	2:H:74:PRO:HD2	1.62	0.81
1:A:1101:SER:C	1:A:1103:ILE:H	1.83	0.81
2:H:234:ILE:HG13	2:H:238:CYS:SG	2.21	0.81
2:E:1880:LYS:HD3	2:E:1899:VAL:HG13	1.61	0.81
1:A:1236:LYS:O	1:A:1236:LYS:HG3	1.80	0.81
2:H:367:GLU:HB2	2:H:430:HIS:CE1	2.16	0.81
2:E:367:GLU:HB2	2:E:430:HIS:CE1	2.15	0.81
2:B:41:LEU:HD22	2:B:46:GLU:CA	2.10	0.81
1:G:830:HIS:CD2	1:G:830:HIS:H	1.98	0.81
1:G:1081:LYS:HD3	1:G:1081:LYS:H	1.44	0.81
1:G:869:ILE:HG23	1:G:926:LEU:HB2	1.60	0.81
1:D:1107:GLU:CB	1:D:1108:PRO:HD3	2.11	0.81
1:G:1661:LEU:HD23	1:G:1661:LEU:O	1.81	0.81
1:D:1119:LYS:HE3	1:D:1121:MET:HB2	1.62	0.81
1:D:1329:VAL:HG13	1:D:1330:GLY:N	1.93	0.81
1:D:1353:LEU:O	1:D:1354:GLU:HB2	1.79	0.81
1:D:1385:GLN:HE22	1:D:1593:MET:CG	1.93	0.81
2:E:166:THR:HG22	2:E:168:ASP:H	1.46	0.81
2:H:67:TYR:C	2:H:69:SER:H	1.78	0.81
1:A:587:UNK:CB	1:A:906:LEU:HD21	2.11	0.81
1:G:1035:THR:HG21	1:G:1053:MET:SD	2.21	0.80
1:A:1254:VAL:O	1:A:1256:ALA:N	2.14	0.80
1:D:1067:LEU:HD23	1:D:1074:GLY:O	1.81	0.80
1:D:1254:VAL:C	1:D:1256:ALA:H	1.85	0.80
2:B:1812:TYR:H	2:B:1812:TYR:HD2	1.29	0.80
2:B:1924:ILE:HG22	2:B:1925:ILE:H	1.45	0.80
2:B:1379:UNK:HA	2:B:1426:UNK:HA	1.62	0.80
1:A:1107:GLU:CB	1:A:1108:PRO:HD3	2.11	0.80
1:A:1292:ILE:O	1:A:1292:ILE:HG12	1.78	0.80
1:A:1413:LYS:HB2	1:A:1425:ILE:HD12	1.62	0.80
1:A:1583:HIS:ND1	1:A:1585:LYS:N	2.27	0.80
1:G:1243:VAL:HG12	1:G:1324:ALA:HA	1.64	0.80
1:G:1423:LYS:CB	1:G:1552:ASN:HD21	1.95	0.80
1:G:1639:VAL:HG23	1:G:1640:SER:H	1.46	0.80
1:G:1659:ASP:HA	1:G:1662:TYR:HD2	1.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1661:LEU:HD23	1:A:1661:LEU:O	1.82	0.80
1:D:1082:GLU:H	1:D:1083:PRO:HD3	1.45	0.80
1:D:1434:SER:OG	1:D:1436:VAL:HG23	1.81	0.80
2:H:259:THR:HG22	2:H:260:PRO:HD2	1.61	0.80
2:H:1776:PHE:O	2:H:1779:PRO:HD2	1.80	0.80
1:G:1107:GLU:CB	1:G:1108:PRO:HD3	2.11	0.80
1:G:1313:ASP:O	1:G:1316:VAL:HG12	1.81	0.80
1:G:1398:VAL:HG22	1:G:1399:PRO:O	1.81	0.80
1:A:1226:SER:O	1:A:1228:ILE:HG23	1.81	0.80
1:D:1190:PRO:CG	1:D:1378:GLU:O	2.28	0.80
1:A:1454:THR:CG2	1:A:1455:ARG:H	1.91	0.80
2:E:1776:PHE:O	2:E:1779:PRO:HD2	1.81	0.80
1:D:1169:LYS:HG3	1:D:1170:GLY:N	1.95	0.80
1:G:1067:LEU:CG	1:G:1068:LYS:H	1.94	0.80
1:G:1211:ILE:HA	1:G:1214:PHE:CE2	2.16	0.80
1:A:1082:GLU:H	1:A:1083:PRO:CD	1.93	0.80
1:A:1106:ILE:O	1:A:1107:GLU:HB2	1.78	0.80
1:A:1353:LEU:O	1:A:1354:GLU:HB2	1.81	0.80
2:H:366:VAL:HG13	2:H:380:SER:O	1.82	0.80
2:H:1827:LEU:O	2:H:1831:VAL:HG23	1.82	0.80
2:E:203:LEU:O	2:E:204:ASP:HB2	1.78	0.80
1:D:1152:VAL:CB	1:D:1154:ILE:HG12	2.11	0.80
1:G:1101:SER:C	1:G:1103:ILE:H	1.84	0.80
1:A:1118:LYS:HE3	1:A:1120:GLU:OE1	1.82	0.80
1:A:1225:ALA:C	1:A:1227:GLY:H	1.84	0.80
2:E:1379:UNK:HA	2:E:1426:UNK:HA	1.63	0.80
1:D:1243:VAL:HG12	1:D:1324:ALA:HA	1.62	0.80
2:H:241:ILE:CG2	2:H:275:GLN:HE21	1.92	0.80
2:H:166:THR:HG22	2:H:168:ASP:H	1.44	0.80
2:E:41:LEU:HD22	2:E:46:GLU:CA	2.12	0.80
2:E:1884:TRP:HB2	2:E:1892:ASN:ND2	1.97	0.80
1:G:1168:LEU:HD13	1:G:1169:LYS:HB2	1.64	0.80
1:A:1130:ASP:HB2	1:A:1174:TYR:H	1.46	0.80
1:G:1106:ILE:O	1:G:1106:ILE:HG22	1.82	0.80
1:G:1254:VAL:C	1:G:1256:ALA:H	1.82	0.80
1:A:1118:LYS:NZ	1:A:1337:GLU:HG3	1.97	0.80
2:H:213:LEU:HD13	2:H:236:ILE:HG12	1.64	0.80
1:G:1462:TRP:CZ3	1:G:1466:GLU:HB2	2.16	0.80
2:E:517:HIS:HB2	2:E:526:ARG:HG3	1.63	0.80
2:B:221:ASN:H	2:B:221:ASN:HD22	1.28	0.80
1:G:1118:LYS:HE3	1:G:1120:GLU:OE1	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1580:LEU:O	1:G:1580:LEU:HG	1.81	0.80
1:A:1243:VAL:HG12	1:A:1324:ALA:HA	1.64	0.80
1:D:676:LYS:O	1:D:766:ASP:HB2	1.81	0.80
2:E:1778:GLN:HB2	2:E:1779:PRO:HD3	1.63	0.80
2:E:526:ARG:H	2:E:526:ARG:HD3	1.47	0.80
2:E:72:VAL:HB	2:E:74:PRO:HD2	1.62	0.80
2:E:1924:ILE:HG22	2:E:1925:ILE:H	1.47	0.80
1:G:1169:LYS:HG3	1:G:1170:GLY:N	1.97	0.80
1:D:1160:THR:HB	1:D:1166:LYS:HE3	1.64	0.80
1:G:1519:ILE:HG13	1:G:1523:ARG:HD2	1.63	0.80
1:D:907:GLY:C	1:D:909:LEU:H	1.83	0.80
2:B:256:LEU:HD23	2:B:263:LEU:HD21	1.64	0.80
2:B:1827:LEU:O	2:B:1831:VAL:HG23	1.82	0.80
1:G:1153:ASP:OD1	1:G:1157:ILE:HG23	1.82	0.79
1:G:1626:TYR:O	1:G:1628:SER:N	2.15	0.79
1:A:1190:PRO:CG	1:A:1378:GLU:O	2.28	0.79
1:A:1408:ALA:HB1	1:A:1651:GLY:C	2.03	0.79
1:D:1583:HIS:CE1	1:D:1585:LYS:H	1.98	0.79
2:H:146:PHE:CE2	2:H:256:LEU:HD21	2.17	0.79
1:G:1491:ARG:HD3	1:G:1744:TYR:O	1.83	0.79
1:G:1022:THR:HG23	1:G:1398:VAL:CG2	2.09	0.79
1:G:1033:ALA:O	1:G:1035:THR:N	2.15	0.79
1:G:1110:LEU:HD11	1:G:1188:GLN:H	1.47	0.79
1:G:1189:ILE:HD12	1:G:1377:MET:HE2	1.63	0.79
1:A:1033:ALA:O	1:A:1035:THR:N	2.15	0.79
1:D:899:LYS:C	1:D:901:MET:H	1.83	0.79
1:A:1448:ARG:HA	1:A:1451:GLN:HB3	1.65	0.79
2:H:240:LEU:O	2:H:244:ILE:HG13	1.81	0.79
2:E:256:LEU:HD23	2:E:263:LEU:HD21	1.63	0.79
2:H:1855:ILE:HD11	2:H:1857:ILE:HD11	1.64	0.79
2:H:1880:LYS:HD3	2:H:1899:VAL:HG13	1.62	0.79
1:A:1152:VAL:CB	1:A:1154:ILE:HG12	2.13	0.79
1:A:1254:VAL:C	1:A:1256:ALA:H	1.84	0.79
1:D:1254:VAL:O	1:D:1256:ALA:N	2.16	0.79
1:D:1455:ARG:HG2	1:D:1504:ALA:HB2	1.65	0.79
2:E:146:PHE:CE2	2:E:256:LEU:HD21	2.18	0.79
2:B:367:GLU:HB2	2:B:430:HIS:CE1	2.16	0.79
2:B:517:HIS:HB2	2:B:526:ARG:HG3	1.63	0.79
2:B:52:ASP:OD1	2:B:56:THR:HG21	1.83	0.79
1:G:1254:VAL:HG13	1:G:1255:SER:N	1.98	0.79
1:A:1035:THR:HG23	1:A:1045:PHE:HE1	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:LYS:CB	1:A:1552:ASN:HD21	1.93	0.79
1:D:1106:ILE:HG22	1:D:1106:ILE:O	1.83	0.79
2:B:366:VAL:HG13	2:B:380:SER:O	1.81	0.79
2:E:366:VAL:HG13	2:E:380:SER:O	1.81	0.79
1:A:907:GLY:C	1:A:909:LEU:H	1.83	0.79
1:A:1022:THR:HG23	1:A:1398:VAL:CG2	2.09	0.79
2:E:187:LEU:HD21	2:E:296:VAL:HG21	1.62	0.79
2:B:339:LEU:HB3	2:B:386:LEU:HD21	1.64	0.79
2:H:1775:GLN:NE2	2:H:1836:MET:HG2	1.97	0.79
1:A:1487:LEU:O	1:A:1490:THR:HG22	1.82	0.79
2:H:1379:UNK:HA	2:H:1426:UNK:HA	1.62	0.79
1:G:1130:ASP:HB2	1:G:1174:TYR:H	1.46	0.79
1:A:1160:THR:HB	1:A:1166:LYS:HE3	1.64	0.79
1:G:1035:THR:HG23	1:G:1045:PHE:HE1	1.46	0.79
1:G:1583:HIS:CD2	1:G:1583:HIS:N	2.51	0.79
1:A:1228:ILE:O	1:A:1228:ILE:HG13	1.81	0.79
1:D:1225:ALA:C	1:D:1227:GLY:H	1.86	0.79
1:D:1413:LYS:HB2	1:D:1425:ILE:HD12	1.63	0.79
2:H:52:ASP:OD1	2:H:56:THR:HG21	1.83	0.79
1:G:424:UNK:CB	1:G:786:SER:HA	2.11	0.79
1:G:1341:PHE:O	1:G:1342:GLU:HB2	1.83	0.79
2:B:1173:UNK:CB	2:B:1181:UNK:H	1.95	0.79
1:G:1220:VAL:O	1:G:1224:ILE:HG22	1.82	0.79
1:G:1558:ASN:OD1	1:G:1620:GLN:HB3	1.83	0.79
1:A:1392:LEU:H	1:A:1392:LEU:HD22	1.46	0.79
1:A:1448:ARG:HG2	1:A:1451:GLN:HG2	1.64	0.79
1:A:1456:GLU:H	1:A:1459:ILE:HG12	1.48	0.79
1:A:1455:ARG:HG2	1:A:1504:ALA:HB2	1.64	0.79
2:E:259:THR:HG22	2:E:260:PRO:HD2	1.62	0.79
2:E:1821:VAL:HG23	2:E:1822:MET:N	1.97	0.79
2:H:1821:VAL:HG23	2:H:1822:MET:H	1.46	0.79
1:G:1082:GLU:H	1:G:1083:PRO:CD	1.93	0.79
1:A:1019:ILE:HG13	1:A:1316:VAL:HG23	1.63	0.79
1:A:1070:ARG:CG	1:A:1071:PRO:HD2	2.13	0.79
1:A:1118:LYS:O	1:A:1120:GLU:HG2	1.82	0.79
1:A:1583:HIS:CE1	1:A:1585:LYS:H	2.01	0.79
1:A:899:LYS:C	1:A:901:MET:H	1.85	0.79
1:D:1057:MET:SD	1:D:1106:ILE:HD11	2.23	0.79
1:D:1254:VAL:HG13	1:D:1255:SER:N	1.98	0.79
1:D:1313:ASP:O	1:D:1316:VAL:HG12	1.82	0.79
1:A:1184:LEU:HD22	1:A:1341:PHE:HD2	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1173:UNK:CB	2:E:1181:UNK:H	1.96	0.79
1:G:1051:VAL:HA	1:G:1094:GLU:OE1	1.83	0.79
1:A:1370:THR:H	1:A:1547:LYS:HD2	1.48	0.79
1:D:1299:LYS:NZ	1:D:1323:LYS:NZ	2.31	0.79
1:D:1639:VAL:HG23	1:D:1640:SER:H	1.48	0.79
2:E:234:ILE:HG13	2:E:238:CYS:SG	2.22	0.79
2:B:146:PHE:CE2	2:B:256:LEU:HD21	2.17	0.79
2:E:526:ARG:HD3	2:E:526:ARG:N	1.98	0.79
2:H:1778:GLN:HB2	2:H:1779:PRO:HD3	1.63	0.79
1:D:1487:LEU:O	1:D:1490:THR:HG22	1.82	0.79
1:A:1107:GLU:CG	1:A:1108:PRO:HD3	2.13	0.79
1:D:1033:ALA:O	1:D:1035:THR:N	2.15	0.79
1:D:1082:GLU:H	1:D:1083:PRO:CD	1.94	0.79
1:D:1661:LEU:O	1:D:1661:LEU:HD23	1.82	0.79
2:H:526:ARG:HD3	2:H:526:ARG:N	1.98	0.79
2:E:52:ASP:OD1	2:E:56:THR:HG21	1.83	0.79
1:A:1583:HIS:N	1:A:1583:HIS:CD2	2.51	0.78
1:D:1110:LEU:HD11	1:D:1188:GLN:H	1.48	0.78
2:B:305:PHE:CD2	2:B:442:ASP:HB3	2.17	0.78
2:B:526:ARG:H	2:B:526:ARG:HD3	1.47	0.78
2:B:527:VAL:CG1	2:B:541:TYR:HA	2.11	0.78
2:B:1778:GLN:HB2	2:B:1779:PRO:HD3	1.63	0.78
2:H:1884:TRP:HB2	2:H:1892:ASN:ND2	1.98	0.78
2:H:1173:UNK:CB	2:H:1181:UNK:H	1.96	0.78
1:A:1364:GLU:O	1:A:1366:SER:N	2.15	0.78
1:A:1604:ILE:HD12	1:A:1630:THR:CB	2.13	0.78
2:B:526:ARG:HD3	2:B:526:ARG:N	1.98	0.78
2:E:1695:ASP:OD1	2:E:1705:SER:HB2	1.83	0.78
2:B:1695:ASP:OD1	2:B:1705:SER:HB2	1.83	0.78
1:A:1341:PHE:O	1:A:1342:GLU:HB2	1.83	0.78
1:A:1443:LEU:HD23	1:A:1443:LEU:O	1.83	0.78
1:A:1234:MET:O	1:A:1239:HIS:HD2	1.66	0.78
1:A:1626:TYR:O	1:A:1628:SER:N	2.16	0.78
1:D:1097:ILE:HG23	1:D:1098:LEU:HD22	1.65	0.78
1:D:1536:LEU:HD12	1:D:1536:LEU:H	1.47	0.78
2:H:527:VAL:CG1	2:H:541:TYR:HA	2.10	0.78
2:E:1812:TYR:H	2:E:1812:TYR:HD2	1.27	0.78
2:H:41:LEU:HD22	2:H:46:GLU:CA	2.12	0.78
1:A:1141:ALA:HA	1:A:1144:PHE:CE1	2.18	0.78
1:G:1519:ILE:CD1	1:G:1521:PRO:HD2	2.12	0.78
1:G:1639:VAL:HG22	1:G:1655:VAL:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1051:VAL:HA	1:A:1094:GLU:OE1	1.83	0.78
1:A:1099:GLU:HG2	1:A:1100:HIS:N	1.98	0.78
1:A:1581:THR:HG22	1:A:1591:TRP:CZ3	2.18	0.78
1:A:1606:PRO:HB2	1:A:1627:PRO:CA	2.02	0.78
1:D:1022:THR:HG23	1:D:1398:VAL:CG2	2.13	0.78
1:D:1377:MET:O	1:D:1377:MET:HG3	1.83	0.78
2:E:305:PHE:CD2	2:E:442:ASP:HB3	2.18	0.78
2:E:440:ASN:OD1	2:E:477:GLU:HA	1.84	0.78
2:H:390:ASN:HA	2:H:393:LEU:HB3	1.65	0.78
2:B:1888:ILE:HG23	2:B:1889:VAL:HG23	1.64	0.78
2:B:390:ASN:HA	2:B:393:LEU:HB3	1.64	0.78
1:G:1211:ILE:HA	1:G:1214:PHE:CD2	2.19	0.78
1:G:899:LYS:C	1:G:901:MET:H	1.85	0.78
1:A:1067:LEU:CG	1:A:1068:LYS:H	1.95	0.78
1:D:1035:THR:HG21	1:D:1053:MET:SD	2.23	0.78
2:H:526:ARG:HD3	2:H:526:ARG:H	1.48	0.78
2:E:1775:GLN:NE2	2:E:1836:MET:HG2	1.98	0.78
1:G:1443:LEU:HD23	1:G:1443:LEU:O	1.83	0.78
2:E:1784:MET:HE3	3:F:21:UNK:HA	1.64	0.78
2:B:339:LEU:HD12	2:B:340:SER:N	1.99	0.78
2:E:376:ASN:O	2:E:377:LEU:HG	1.84	0.78
1:A:830:HIS:CD2	1:A:830:HIS:H	1.98	0.78
1:G:1070:ARG:CG	1:G:1071:PRO:HD2	2.14	0.78
1:D:1110:LEU:CD1	1:D:1188:GLN:H	1.97	0.78
1:D:1119:LYS:HG3	1:D:1121:MET:HB2	1.66	0.78
1:D:1234:MET:O	1:D:1239:HIS:HD2	1.66	0.78
1:D:681:THR:HB	1:D:771:PHE:H	1.49	0.78
2:B:1723:GLY:HA3	2:B:1733:TYR:CZ	2.19	0.78
2:B:1776:PHE:O	2:B:1779:PRO:HD2	1.82	0.78
2:H:1821:VAL:HG23	2:H:1822:MET:N	1.98	0.78
1:A:678:VAL:HG22	1:A:767:ALA:HB3	1.65	0.78
1:A:791:ALA:HA	1:A:794:ILE:HG22	1.66	0.78
1:D:1625:LEU:HD22	1:D:1626:TYR:HB3	1.66	0.78
2:B:247:ALA:O	2:B:251:VAL:HG23	1.83	0.78
1:D:1153:ASP:OD1	1:D:1157:ILE:HG23	1.82	0.78
1:A:1618:LEU:HD22	1:A:1623:TYR:OH	1.84	0.78
2:H:247:ALA:O	2:H:250:VAL:HB	1.82	0.78
1:G:1448:ARG:HG2	1:G:1451:GLN:HG2	1.66	0.78
2:B:1740:THR:OG1	2:B:1751:ILE:HB	1.84	0.78
1:A:903:PHE:HA	1:A:906:LEU:HD23	1.64	0.78
2:B:1041:UNK:O	2:B:1043:UNK:N	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1152:VAL:CB	1:G:1154:ILE:HG12	2.10	0.78
1:D:1129:GLU:OE1	1:D:1178:ALA:HB2	1.84	0.78
1:G:1364:GLU:O	1:G:1366:SER:N	2.16	0.78
1:G:1392:LEU:HD22	1:G:1392:LEU:H	1.47	0.78
1:D:1211:ILE:HA	1:D:1214:PHE:CE2	2.19	0.78
1:D:1398:VAL:HG12	1:D:1673:TYR:HE1	1.49	0.78
1:D:797:THR:HG22	1:D:798:ASN:N	1.98	0.78
1:D:1448:ARG:HA	1:D:1451:GLN:HB3	1.66	0.78
1:G:1448:ARG:HA	1:G:1451:GLN:HB3	1.65	0.78
2:B:1672:GLN:HG3	2:B:1777:THR:HG23	1.65	0.78
2:E:31:SER:O	2:E:34:GLN:HG2	1.85	0.78
2:H:1663:UNK:O	3:I:17:UNK:HA	1.84	0.78
2:E:956:UNK:C	2:E:958:UNK:H	1.97	0.78
1:G:1128:GLU:HB3	1:G:1177:LYS:HE3	1.66	0.77
1:A:1313:ASP:O	1:A:1316:VAL:HG12	1.84	0.77
1:D:1070:ARG:CG	1:D:1071:PRO:HD2	2.14	0.77
1:D:1228:ILE:HG13	1:D:1228:ILE:O	1.81	0.77
1:D:1423:LYS:CB	1:D:1552:ASN:HD21	1.94	0.77
1:D:1580:LEU:HG	1:D:1580:LEU:O	1.84	0.77
1:D:1604:ILE:HD12	1:D:1630:THR:CB	2.14	0.77
1:A:1067:LEU:CD2	1:A:1068:LYS:N	2.48	0.77
2:H:305:PHE:CD2	2:H:442:ASP:HB3	2.19	0.77
2:H:376:ASN:O	2:H:377:LEU:HG	1.82	0.77
1:D:903:PHE:HA	1:D:906:LEU:HD23	1.66	0.77
1:G:1141:ALA:HA	1:G:1144:PHE:CE1	2.19	0.77
1:G:1581:THR:HG22	1:G:1591:TRP:CZ3	2.20	0.77
1:A:1211:ILE:HA	1:A:1214:PHE:CE2	2.19	0.77
1:A:1519:ILE:CD1	1:A:1521:PRO:HD2	2.15	0.77
1:A:1369:ALA:HA	1:A:1547:LYS:CD	2.13	0.77
1:A:1639:VAL:HG23	1:A:1640:SER:H	1.49	0.77
1:D:1035:THR:HG23	1:D:1045:PHE:HE1	1.48	0.77
1:D:1458:GLN:O	1:D:1462:TRP:HB3	1.84	0.77
2:E:213:LEU:HD13	2:E:236:ILE:HG12	1.65	0.77
2:B:1821:VAL:HG23	2:B:1822:MET:N	1.98	0.77
2:E:390:ASN:HA	2:E:393:LEU:HB3	1.65	0.77
1:G:1099:GLU:HG2	1:G:1100:HIS:N	1.99	0.77
1:G:1606:PRO:HB2	1:G:1627:PRO:CA	2.01	0.77
1:A:1115:ASN:HD22	1:A:1115:ASN:N	1.82	0.77
1:A:1307:THR:CG2	1:A:1586:GLY:HA2	2.15	0.77
1:D:1254:VAL:HG22	1:D:1255:SER:N	1.98	0.77
1:D:1520:ALA:N	1:D:1521:PRO:HD3	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1626:TYR:O	1:D:1628:SER:N	2.17	0.77
2:E:247:ALA:O	2:E:250:VAL:HB	1.84	0.77
2:B:109:LEU:HD13	2:B:534:ASP:OD1	1.84	0.77
2:B:1884:TRP:HB2	2:B:1892:ASN:ND2	1.98	0.77
1:G:1234:MET:O	1:G:1239:HIS:HD2	1.67	0.77
1:G:1190:PRO:CG	1:G:1378:GLU:O	2.27	0.77
1:G:1408:ALA:HB1	1:G:1651:GLY:C	2.04	0.77
1:D:1423:LYS:HB2	1:D:1552:ASN:ND2	1.97	0.77
2:B:35:GLU:HA	2:B:38:ASN:ND2	1.99	0.77
1:D:1168:LEU:HD13	1:D:1169:LYS:HB2	1.65	0.77
1:A:1110:LEU:HD11	1:A:1188:GLN:H	1.50	0.77
1:A:1208:VAL:O	1:A:1210:PRO:CD	2.32	0.77
1:A:1506:GLN:O	1:A:1510:ASN:HB2	1.84	0.77
2:B:1775:GLN:NE2	2:B:1836:MET:HG2	1.99	0.77
2:H:29:ILE:C	2:H:31:SER:H	1.86	0.77
2:E:29:ILE:C	2:E:31:SER:H	1.87	0.77
2:E:1888:ILE:HG23	2:E:1889:VAL:HG23	1.66	0.77
2:E:1784:MET:CE	3:F:21:UNK:HA	2.14	0.77
1:G:1077:ASP:OD2	1:G:1090:LYS:HE2	1.83	0.77
1:G:1377:MET:HG3	1:G:1377:MET:O	1.83	0.77
1:G:1604:ILE:HD12	1:G:1630:THR:CB	2.15	0.77
1:A:1290:LEU:HA	1:A:1701:LYS:HZ2	1.48	0.77
1:A:1454:THR:O	1:A:1457:ALA:HB3	1.84	0.77
1:G:1506:GLN:O	1:G:1510:ASN:HB2	1.83	0.77
2:B:376:ASN:O	2:B:377:LEU:HG	1.85	0.77
2:H:1715:VAL:HB	2:H:1770:LEU:N	1.98	0.77
2:E:109:LEU:HD13	2:E:534:ASP:OD1	1.85	0.77
1:G:1487:LEU:O	1:G:1490:THR:HG22	1.84	0.77
1:A:1168:LEU:HD13	1:A:1169:LYS:HB2	1.66	0.77
1:G:1067:LEU:CD2	1:G:1068:LYS:N	2.46	0.77
1:G:1110:LEU:CD1	1:G:1188:GLN:H	1.96	0.77
1:A:681:THR:HB	1:A:771:PHE:H	1.50	0.77
1:D:1101:SER:C	1:D:1103:ILE:H	1.84	0.77
1:D:1519:ILE:CD1	1:D:1521:PRO:HD2	2.13	0.77
1:A:1458:GLN:O	1:A:1462:TRP:HB3	1.85	0.77
2:B:247:ALA:O	2:B:250:VAL:HB	1.85	0.77
2:B:440:ASN:OD1	2:B:477:GLU:HA	1.85	0.77
1:G:797:THR:HG22	1:G:798:ASN:N	1.99	0.77
2:E:1888:ILE:HA	2:E:1891:TYR:OH	1.85	0.77
1:D:1443:LEU:O	1:D:1443:LEU:HD23	1.84	0.77
2:B:2001:UNK:O	2:B:2003:UNK:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1131:LEU:N	1:G:1173:LEU:HD22	2.00	0.77
1:G:1160:THR:HB	1:G:1166:LYS:HE3	1.67	0.77
1:G:1225:ALA:C	1:G:1227:GLY:H	1.86	0.77
1:G:1243:VAL:HG12	1:G:1325:ARG:H	1.48	0.77
1:A:1299:LYS:NZ	1:A:1323:LYS:NZ	2.33	0.77
1:D:1118:LYS:HE3	1:D:1120:GLU:OE1	1.85	0.77
1:D:1409:THR:H	1:D:1651:GLY:HA3	1.50	0.77
2:H:1672:GLN:HG3	2:H:1777:THR:HG23	1.67	0.77
1:G:1258:ARG:HH11	1:G:1258:ARG:HG2	1.50	0.77
2:E:35:GLU:HA	2:E:38:ASN:ND2	1.98	0.77
1:G:1398:VAL:HG12	1:G:1673:TYR:HE1	1.48	0.77
1:A:1254:VAL:HG13	1:A:1255:SER:N	1.99	0.77
1:D:1118:LYS:NZ	1:D:1337:GLU:HG3	2.00	0.77
1:D:1599:ILE:HD11	1:D:1639:VAL:HG12	1.66	0.77
2:H:35:GLU:HA	2:H:38:ASN:ND2	2.00	0.77
1:G:1184:LEU:HD22	1:G:1341:PHE:HD2	1.48	0.77
1:D:1128:GLU:HB3	1:D:1177:LYS:HE3	1.67	0.76
1:D:1130:ASP:HB2	1:D:1174:TYR:H	1.49	0.76
1:A:1398:VAL:HG12	1:A:1673:TYR:HE1	1.49	0.76
1:D:678:VAL:HG22	1:D:767:ALA:HB3	1.66	0.76
2:H:109:LEU:HD13	2:H:534:ASP:OD1	1.85	0.76
2:H:1834:ARG:HG3	2:H:1834:ARG:HH11	1.50	0.76
2:B:31:SER:O	2:B:34:GLN:HG2	1.84	0.76
1:A:1444:ASN:HD22	1:A:1444:ASN:N	1.83	0.76
1:G:1536:LEU:H	1:G:1536:LEU:HD12	1.50	0.76
1:D:1536:LEU:HB3	1:D:1638:ALA:HB3	1.68	0.76
1:D:791:ALA:HA	1:D:794:ILE:HG22	1.67	0.76
2:H:339:LEU:HD12	2:H:340:SER:N	2.00	0.76
2:B:234:ILE:HG13	2:B:238:CYS:SG	2.26	0.76
2:B:334:VAL:O	2:B:420:PHE:HD2	1.68	0.76
2:H:1885:LEU:H	3:I:2:UNK:CB	1.99	0.76
1:G:884:ILE:HG21	1:G:943:LEU:HD13	1.68	0.76
1:G:1404:VAL:HA	1:G:1655:VAL:CG2	2.16	0.76
1:G:1625:LEU:HD22	1:G:1626:TYR:HB3	1.68	0.76
1:D:1031:GLY:O	1:D:1035:THR:HB	1.84	0.76
1:D:1067:LEU:CG	1:D:1068:LYS:H	1.95	0.76
1:D:1243:VAL:HG12	1:D:1325:ARG:H	1.50	0.76
1:D:1456:GLU:H	1:D:1459:ILE:HG12	1.49	0.76
2:E:1041:UNK:O	2:E:1043:UNK:N	2.18	0.76
1:D:1178:ALA:O	1:D:1179:LEU:HD22	1.83	0.76
1:G:1583:HIS:CE1	1:G:1585:LYS:H	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1099:GLU:HG2	1:D:1100:HIS:N	1.99	0.76
1:D:1329:VAL:HG12	1:D:1385:GLN:H	1.50	0.76
1:G:1456:GLU:H	1:G:1459:ILE:HG12	1.50	0.76
1:A:1258:ARG:HG2	1:A:1258:ARG:HH11	1.50	0.76
1:D:830:HIS:H	1:D:830:HIS:CD2	2.00	0.76
2:H:2001:UNK:O	2:H:2003:UNK:N	2.18	0.76
1:A:1547:LYS:HA	1:A:1550:ASP:CB	2.11	0.76
2:H:437:ASP:HA	2:H:440:ASN:HD22	1.50	0.76
2:E:334:VAL:O	2:E:420:PHE:HD2	1.69	0.76
2:B:1709:ILE:HG22	2:B:1771:LEU:HD13	1.67	0.76
1:A:1491:ARG:HD3	1:A:1744:TYR:O	1.85	0.76
1:A:1119:LYS:HG3	1:A:1121:MET:HB2	1.66	0.76
2:E:247:ALA:O	2:E:251:VAL:HG23	1.85	0.76
1:G:1455:ARG:HH22	1:G:1458:GLN:HB2	1.50	0.76
1:G:681:THR:HB	1:G:771:PHE:H	1.48	0.76
2:B:1907:LEU:HD23	2:B:1907:LEU:H	1.50	0.76
2:H:1888:ILE:HA	2:H:1891:TYR:OH	1.85	0.76
2:E:2001:UNK:O	2:E:2003:UNK:N	2.18	0.76
2:B:956:UNK:C	2:B:958:UNK:H	1.99	0.76
1:D:1491:ARG:HD3	1:D:1744:TYR:O	1.86	0.76
1:A:1211:ILE:C	1:A:1213:LEU:H	1.89	0.76
1:A:1230:ASP:OD2	1:A:1232:TYR:HB2	1.86	0.76
1:A:1385:GLN:HE22	1:A:1593:MET:CG	1.96	0.76
1:D:1036:ARG:HE	1:D:1037:TRP:N	1.83	0.76
1:D:1448:ARG:HG2	1:D:1451:GLN:HG2	1.68	0.76
1:D:1506:GLN:O	1:D:1510:ASN:HB2	1.84	0.76
2:B:213:LEU:HD13	2:B:236:ILE:HG12	1.67	0.76
2:H:60:LEU:HA	2:H:63:LYS:HB3	1.68	0.76
1:G:680:ILE:HG23	1:G:769:ILE:CG2	2.15	0.76
2:E:1869:GLU:HA	2:E:1872:GLN:HB3	1.67	0.76
1:G:1299:LYS:NZ	1:G:1323:LYS:NZ	2.33	0.76
1:A:1035:THR:HG21	1:A:1053:MET:SD	2.25	0.76
1:A:1057:MET:SD	1:A:1106:ILE:HD11	2.26	0.76
1:A:1220:VAL:O	1:A:1224:ILE:HG22	1.86	0.76
1:A:714:VAL:C	1:A:716:ASP:H	1.89	0.76
1:D:1067:LEU:CD2	1:D:1068:LYS:N	2.48	0.76
1:D:1392:LEU:HD22	1:D:1392:LEU:H	1.48	0.76
1:A:1447:TYR:HE2	1:A:1450:ARG:HG3	1.50	0.76
1:G:1458:GLN:O	1:G:1462:TRP:HB3	1.86	0.76
1:G:1131:LEU:HB2	1:G:1133:PRO:CD	2.15	0.76
1:G:1118:LYS:NZ	1:G:1337:GLU:HG3	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1031:GLY:O	1:A:1035:THR:HB	1.85	0.76
1:A:1243:VAL:HG12	1:A:1325:ARG:H	1.49	0.76
1:A:1423:LYS:HB2	1:A:1552:ASN:ND2	1.98	0.76
1:A:1238:VAL:HA	1:A:1720:ALA:HB1	1.68	0.76
1:D:1191:THR:HA	1:D:1193:TRP:CH2	2.21	0.76
1:D:1369:ALA:HA	1:D:1547:LYS:CD	2.15	0.76
1:D:1606:PRO:HB2	1:D:1627:PRO:CA	2.01	0.76
1:D:678:VAL:O	1:D:703:VAL:HG22	1.85	0.76
1:G:1455:ARG:HG2	1:G:1504:ALA:HB2	1.66	0.76
1:D:1341:PHE:O	1:D:1342:GLU:HB2	1.82	0.76
1:G:792:HIS:CE1	1:G:796:LEU:HD21	2.21	0.76
1:G:468:UNK:C	1:G:470:UNK:N	2.46	0.76
1:A:1151:LYS:HE3	1:A:1175:ILE:HD13	1.67	0.76
1:A:1129:GLU:OE1	1:A:1178:ALA:HB2	1.86	0.76
1:G:1230:ASP:OD2	1:G:1232:TYR:HB2	1.86	0.76
1:D:1370:THR:H	1:D:1547:LYS:HD2	1.51	0.76
2:E:1834:ARG:HH11	2:E:1834:ARG:HG3	1.51	0.76
2:H:1883:GLY:HA2	2:H:1894:GLU:OE1	1.85	0.76
1:D:884:ILE:HG21	1:D:943:LEU:HD13	1.68	0.76
1:D:1169:LYS:NZ	1:D:1170:GLY:O	2.18	0.75
1:G:1413:LYS:HB2	1:G:1425:ILE:HD12	1.66	0.75
1:A:1254:VAL:HG22	1:A:1255:SER:N	2.01	0.75
1:D:680:ILE:HG23	1:D:769:ILE:CG2	2.16	0.75
2:E:1740:THR:OG1	2:E:1751:ILE:HB	1.86	0.75
2:H:31:SER:O	2:H:34:GLN:HG2	1.85	0.75
1:G:678:VAL:O	1:G:703:VAL:HG22	1.85	0.75
2:H:1863:ALA:HA	2:H:1866:PHE:CD1	2.21	0.75
1:A:1142:GLU:O	1:A:1145:LYS:N	2.20	0.75
1:D:1302:VAL:HG23	1:D:1303:GLY:H	1.50	0.75
1:D:1329:VAL:CG1	1:D:1385:GLN:H	1.99	0.75
1:D:1583:HIS:N	1:D:1583:HIS:CD2	2.52	0.75
1:D:1008:GLU:C	1:D:1010:GLU:H	1.89	0.75
1:D:1454:THR:O	1:D:1457:ALA:HB3	1.85	0.75
1:A:1447:TYR:C	1:A:1449:LYS:H	1.89	0.75
2:H:1723:GLY:HA3	2:H:1733:TYR:CZ	2.21	0.75
2:H:1924:ILE:HG22	2:H:1925:ILE:H	1.50	0.75
1:D:1131:LEU:HB2	1:D:1133:PRO:CD	2.16	0.75
1:G:1228:ILE:HG13	1:G:1228:ILE:O	1.85	0.75
1:G:1254:VAL:HG22	1:G:1255:SER:N	1.99	0.75
1:A:1036:ARG:HE	1:A:1037:TRP:N	1.84	0.75
1:D:1115:ASN:HD22	1:D:1115:ASN:N	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1364:GLU:O	1:D:1366:SER:N	2.19	0.75
1:D:1451:GLN:HG3	1:D:1452:LEU:N	2.01	0.75
2:H:441:LYS:HB3	2:H:445:LYS:HE3	1.66	0.75
1:G:1447:TYR:HE2	1:G:1450:ARG:HG3	1.51	0.75
2:H:1709:ILE:HG22	2:H:1771:LEU:HD13	1.69	0.75
2:H:1864:ALA:C	2:H:1866:PHE:N	2.40	0.75
2:B:91:PHE:O	2:B:96:LEU:HD21	1.86	0.75
2:B:1173:UNK:HA	2:B:1182:UNK:HA	1.69	0.75
1:A:884:ILE:HG21	1:A:943:LEU:HD13	1.67	0.75
1:G:1133:PRO:HD2	1:G:1173:LEU:CD1	2.16	0.75
1:D:1141:ALA:HA	1:D:1144:PHE:CE1	2.20	0.75
1:D:1133:PRO:HD2	1:D:1173:LEU:CD1	2.16	0.75
1:G:1031:GLY:O	1:G:1035:THR:HB	1.86	0.75
1:G:1211:ILE:C	1:G:1213:LEU:H	1.89	0.75
1:G:1189:ILE:HD12	1:G:1377:MET:CE	2.16	0.75
1:G:1540:SER:HA	1:G:1575:VAL:CB	2.16	0.75
2:E:295:SER:HA	2:E:298:LYS:HE3	1.68	0.75
2:E:1672:GLN:HG3	2:E:1777:THR:HG23	1.66	0.75
2:E:373:GLY:HA2	2:E:519:ASN:OD1	1.86	0.75
1:G:1142:GLU:O	1:G:1145:LYS:N	2.20	0.75
1:G:1067:LEU:CD2	1:G:1073:THR:HA	2.16	0.75
1:G:1423:LYS:HB2	1:G:1552:ASN:ND2	1.99	0.75
1:D:1433:HIS:CD2	1:D:1523:ARG:HE	2.05	0.75
2:H:440:ASN:OD1	2:H:477:GLU:HA	1.85	0.75
1:G:791:ALA:HA	1:G:794:ILE:HG22	1.69	0.75
2:E:1855:ILE:HG22	2:E:1951:UNK:HA	1.68	0.75
1:A:1131:LEU:HB2	1:A:1133:PRO:CD	2.15	0.75
1:G:1373:ARG:HG2	1:G:1547:LYS:CD	2.07	0.75
1:A:1239:HIS:C	1:A:1241:SER:H	1.90	0.75
1:G:1454:THR:O	1:G:1457:ALA:HB3	1.86	0.75
2:B:159:ILE:HB	2:B:503:ASP:OD1	1.87	0.75
1:G:680:ILE:HD12	1:G:680:ILE:H	1.51	0.75
2:B:1855:ILE:HG22	2:B:1951:UNK:HA	1.69	0.75
1:A:1133:PRO:HD2	1:A:1173:LEU:CD1	2.17	0.75
1:G:1107:GLU:CG	1:G:1108:PRO:HD3	2.17	0.75
1:G:1586:GLY:C	1:G:1588:ALA:H	1.89	0.75
1:G:1618:LEU:HD22	1:G:1623:TYR:OH	1.87	0.75
1:G:1290:LEU:HA	1:G:1701:LYS:HZ2	1.52	0.75
1:A:1398:VAL:HG22	1:A:1399:PRO:O	1.86	0.75
1:A:1625:LEU:HD22	1:A:1626:TYR:HB3	1.67	0.75
1:A:1409:THR:H	1:A:1651:GLY:HA3	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1299:LYS:HZ1	1:D:1323:LYS:HZ3	1.32	0.75
2:H:295:SER:HA	2:H:298:LYS:HE3	1.69	0.75
2:H:1869:GLU:HA	2:H:1872:GLN:HB3	1.68	0.75
2:E:996:UNK:C	2:E:998:UNK:N	2.46	0.75
2:H:1041:UNK:O	2:H:1043:UNK:N	2.18	0.75
1:G:1308:SER:HB2	1:G:1590:ALA:HB2	1.67	0.75
1:A:1097:ILE:HG23	1:A:1098:LEU:HD22	1.68	0.75
1:A:1107:GLU:CB	1:A:1108:PRO:CD	2.63	0.75
1:A:1110:LEU:CD1	1:A:1188:GLN:H	1.99	0.75
1:A:1362:PRO:HA	1:A:1365:MET:HE1	1.69	0.75
1:A:1586:GLY:C	1:A:1588:ALA:H	1.88	0.75
1:D:1107:GLU:CG	1:D:1108:PRO:HD3	2.16	0.75
1:D:1211:ILE:C	1:D:1213:LEU:H	1.90	0.75
1:D:1418:VAL:HA	1:D:1419:PRO:O	1.86	0.75
1:D:1455:ARG:HH22	1:D:1458:GLN:HB2	1.52	0.75
2:E:100:ASP:OD2	2:E:255:LEU:HD11	1.87	0.75
2:E:339:LEU:HD12	2:E:340:SER:N	2.02	0.75
1:A:1340:SER:O	1:A:1341:PHE:HB3	1.86	0.75
2:B:1869:GLU:HA	2:B:1872:GLN:HB3	1.67	0.75
2:B:836:UNK:HA	2:B:1028:UNK:HA	1.67	0.75
2:H:373:GLY:HA2	2:H:519:ASN:OD1	1.87	0.75
1:G:1036:ARG:HE	1:G:1037:TRP:N	1.85	0.75
1:G:1520:ALA:N	1:G:1521:PRO:HD3	2.00	0.75
1:A:1077:ASP:OD2	1:A:1090:LYS:HE2	1.87	0.75
1:A:1106:ILE:O	1:A:1106:ILE:HG22	1.86	0.75
1:A:1520:ALA:N	1:A:1521:PRO:HD3	2.01	0.75
1:A:1536:LEU:HB3	1:A:1638:ALA:HB3	1.69	0.75
1:A:1455:ARG:HH22	1:A:1458:GLN:HB2	1.51	0.75
2:B:184:VAL:HG22	2:B:188:ILE:HG12	1.68	0.75
1:D:1340:SER:O	1:D:1341:PHE:HB3	1.87	0.75
2:H:170:PHE:HB2	2:H:231:LEU:HD11	1.69	0.75
2:B:60:LEU:HA	2:B:63:LYS:HB3	1.67	0.75
2:H:91:PHE:O	2:H:96:LEU:HD21	1.85	0.75
2:E:91:PHE:O	2:E:96:LEU:HD21	1.87	0.75
1:D:1444:ASN:HD22	1:D:1444:ASN:N	1.83	0.75
2:H:1149:UNK:O	2:H:1151:UNK:N	2.20	0.75
2:B:1347:UNK:O	2:B:1349:UNK:N	2.19	0.75
1:G:1107:GLU:CB	1:G:1108:PRO:CD	2.65	0.74
1:G:1369:ALA:HA	1:G:1547:LYS:CD	2.17	0.74
1:A:1189:ILE:HD12	1:A:1377:MET:CE	2.16	0.74
1:A:1191:THR:HA	1:A:1193:TRP:CH2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:441:LYS:HB3	2:E:445:LYS:HE3	1.68	0.74
2:B:29:ILE:C	2:B:31:SER:H	1.88	0.74
2:E:1864:ALA:C	2:E:1866:PHE:N	2.40	0.74
2:H:956:UNK:C	2:H:958:UNK:H	2.00	0.74
1:A:1107:GLU:CD	1:A:1108:PRO:HD3	2.07	0.74
1:D:710:PHE:CD1	1:D:736:PRO:HB3	2.22	0.74
2:H:334:VAL:O	2:H:420:PHE:HD2	1.70	0.74
2:B:131:ILE:HD13	2:B:182:VAL:HG13	1.69	0.74
2:E:1723:GLY:HA3	2:E:1733:TYR:CZ	2.22	0.74
2:E:38:ASN:O	2:E:42:PRO:HD3	1.87	0.74
2:H:1939:HIS:CG	2:H:1940:LEU:N	2.55	0.74
2:H:163:GLN:HB3	2:H:423:VAL:HG22	1.70	0.74
1:G:1418:VAL:HA	1:G:1419:PRO:O	1.87	0.74
1:G:1378:GLU:CB	1:G:1585:LYS:HD2	2.17	0.74
1:D:1307:THR:CG2	1:D:1586:GLY:HA2	2.16	0.74
1:D:678:VAL:CG2	1:D:767:ALA:HB3	2.18	0.74
1:A:1451:GLN:HG3	1:A:1452:LEU:N	2.02	0.74
2:B:441:LYS:HB3	2:B:445:LYS:HE3	1.67	0.74
1:G:678:VAL:HG22	1:G:767:ALA:HB3	1.70	0.74
2:B:1888:ILE:HA	2:B:1891:TYR:OH	1.87	0.74
1:A:632:UNK:CB	1:A:894:ARG:HH12	2.00	0.74
1:G:1155:PHE:O	1:G:1156:GLU:HB3	1.88	0.74
1:G:1307:THR:CG2	1:G:1586:GLY:HA2	2.17	0.74
1:A:1536:LEU:H	1:A:1536:LEU:HD12	1.51	0.74
1:D:1020:VAL:HG22	1:D:1403:ILE:HA	1.69	0.74
1:D:1436:VAL:O	1:D:1437:LYS:O	2.06	0.74
2:B:215:ILE:HD13	2:B:240:LEU:HD11	1.69	0.74
1:G:680:ILE:N	1:G:680:ILE:HD12	2.01	0.74
2:H:1877:ARG:HB3	2:H:1929:LYS:NZ	2.02	0.74
2:B:221:ASN:N	2:B:221:ASN:HD22	1.83	0.74
1:G:1035:THR:HG23	1:G:1045:PHE:CE1	2.22	0.74
1:G:1109:GLU:C	1:G:1111:PHE:H	1.91	0.74
1:G:1119:LYS:HG3	1:G:1121:MET:HB2	1.68	0.74
1:G:714:VAL:C	1:G:716:ASP:H	1.87	0.74
2:B:100:ASP:OD2	2:B:255:LEU:HD11	1.88	0.74
2:B:443:LEU:HB3	2:B:449:SER:HB2	1.70	0.74
2:B:1751:ILE:HD13	2:B:1840:VAL:HG21	1.69	0.74
2:H:1907:LEU:HD23	2:H:1907:LEU:H	1.52	0.74
1:G:1191:THR:HA	1:G:1193:TRP:CH2	2.22	0.74
1:A:797:THR:HG22	1:A:798:ASN:N	2.01	0.74
1:D:1067:LEU:CD2	1:D:1073:THR:HA	2.14	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1107:GLU:CB	1:D:1108:PRO:CD	2.65	0.74
2:E:184:VAL:HG22	2:E:188:ILE:HG12	1.69	0.74
2:B:241:ILE:CG2	2:B:242:GLY:N	2.51	0.74
1:D:1342:GLU:O	1:D:1346:MET:N	2.21	0.74
1:A:1335:PHE:CE1	1:A:1340:SER:HB2	2.14	0.74
2:E:1149:UNK:O	2:E:1151:UNK:N	2.20	0.74
1:D:632:UNK:CB	1:D:894:ARG:HH12	2.01	0.74
1:A:1308:SER:HB2	1:A:1590:ALA:HB2	1.69	0.74
1:D:1586:GLY:C	1:D:1588:ALA:H	1.91	0.74
1:D:717:TYR:C	1:D:719:GLN:H	1.91	0.74
2:H:184:VAL:HG22	2:H:188:ILE:HG12	1.69	0.74
1:G:1451:GLN:HG3	1:G:1452:LEU:N	2.02	0.74
2:B:437:ASP:HA	2:B:440:ASN:HD22	1.50	0.74
2:H:1810:GLY:O	2:H:1813:ALA:HB3	1.88	0.74
1:G:968:VAL:HG13	2:H:1513:UNK:CB	2.18	0.74
2:B:373:GLY:HA2	2:B:519:ASN:OD1	1.88	0.74
1:G:1126:ILE:HG22	1:G:1127:VAL:N	2.01	0.74
1:G:1057:MET:SD	1:G:1106:ILE:HD11	2.28	0.74
1:G:1226:SER:O	1:G:1228:ILE:HG23	1.86	0.74
1:G:1424:GLY:O	1:G:1426:LEU:N	2.19	0.74
1:G:1373:ARG:HD3	1:G:1547:LYS:HB3	1.70	0.74
1:A:1540:SER:HA	1:A:1575:VAL:CB	2.16	0.74
1:D:1105:LEU:HD13	1:D:1111:PHE:HZ	1.53	0.74
1:D:714:VAL:C	1:D:716:ASP:H	1.88	0.74
2:E:437:ASP:HA	2:E:440:ASN:HD22	1.52	0.74
2:E:1709:ILE:HG22	2:E:1771:LEU:HD13	1.69	0.74
2:E:1907:LEU:H	2:E:1907:LEU:HD23	1.51	0.74
1:G:1129:GLU:OE1	1:G:1178:ALA:HB2	1.87	0.74
1:G:1022:THR:OG1	1:G:1388:MET:HG3	1.87	0.74
1:A:1377:MET:HG3	1:A:1377:MET:O	1.87	0.74
1:A:1593:MET:O	1:A:1596:ALA:HB3	1.88	0.74
1:D:1426:LEU:CD2	1:D:1650:GLY:HA3	2.18	0.74
2:E:494:THR:HB	2:E:520:LYS:NZ	2.02	0.74
2:H:1720:HIS:C	2:H:1721:PHE:HD1	1.91	0.74
2:H:1888:ILE:HG23	2:H:1889:VAL:HG23	1.67	0.74
2:E:170:PHE:HB2	2:E:231:LEU:HD11	1.69	0.74
1:G:1409:THR:H	1:G:1651:GLY:HA3	1.50	0.74
1:A:1418:VAL:HA	1:A:1419:PRO:O	1.88	0.74
1:A:1433:HIS:CD2	1:A:1523:ARG:HE	2.05	0.74
1:A:680:ILE:HG23	1:A:769:ILE:CG2	2.18	0.74
1:A:796:LEU:HG	1:A:797:THR:H	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1363:ALA:O	1:D:1364:GLU:O	2.05	0.74
1:D:1422:GLY:HA2	1:D:1425:ILE:HB	1.69	0.74
1:D:792:HIS:CE1	1:D:796:LEU:HD21	2.23	0.74
2:E:1731:GLU:O	2:E:1735:ALA:HB3	1.87	0.74
2:B:1723:GLY:HA3	2:B:1733:TYR:CE1	2.23	0.74
2:H:1809:LEU:HD11	2:H:1831:VAL:HG13	1.70	0.74
1:A:1342:GLU:O	1:A:1346:MET:N	2.21	0.74
2:B:40:ILE:C	2:B:41:LEU:HD23	2.08	0.74
1:G:1202:ASP:HA	1:G:1205:ILE:HD11	1.70	0.74
2:H:1173:UNK:HA	2:H:1182:UNK:HA	1.68	0.74
1:D:574:UNK:HA	1:D:577:UNK:CB	2.17	0.74
1:G:632:UNK:CB	1:G:894:ARG:HH12	2.01	0.74
2:H:241:ILE:CG2	2:H:242:GLY:N	2.51	0.73
2:H:494:THR:HB	2:H:520:LYS:NZ	2.03	0.73
2:E:215:ILE:HD13	2:E:240:LEU:HD11	1.70	0.73
1:G:680:ILE:HG23	1:G:769:ILE:HG23	1.70	0.73
2:E:924:UNK:C	2:E:926:UNK:N	2.49	0.73
1:A:1035:THR:HG23	1:A:1045:PHE:CE1	2.23	0.73
1:D:1211:ILE:HA	1:D:1214:PHE:CD2	2.23	0.73
1:D:1230:ASP:OD2	1:D:1232:TYR:HB2	1.87	0.73
1:D:749:ILE:HD12	1:D:806:VAL:HG22	1.68	0.73
1:D:1447:TYR:C	1:D:1449:LYS:H	1.90	0.73
2:H:303:LEU:HA	2:H:306:ILE:HD12	1.70	0.73
2:B:1770:LEU:C	2:B:1772:SER:H	1.92	0.73
2:B:1810:GLY:O	2:B:1813:ALA:HB3	1.88	0.73
2:H:1715:VAL:C	2:H:1718:THR:HG22	2.08	0.73
2:H:1770:LEU:C	2:H:1772:SER:H	1.91	0.73
2:H:40:ILE:C	2:H:41:LEU:HD23	2.08	0.73
2:E:221:ASN:N	2:E:221:ASN:HD22	1.84	0.73
1:G:1302:VAL:HG23	1:G:1303:GLY:H	1.52	0.73
1:G:1370:THR:H	1:G:1547:LYS:HD2	1.51	0.73
1:G:1436:VAL:O	1:G:1437:LYS:O	2.06	0.73
1:A:1211:ILE:HA	1:A:1214:PHE:CD2	2.22	0.73
1:D:1424:GLY:O	1:D:1426:LEU:N	2.20	0.73
2:E:131:ILE:HD13	2:E:182:VAL:HG13	1.69	0.73
2:E:209:PHE:CZ	2:E:235:PRO:HB2	2.23	0.73
2:E:286:THR:HG21	2:E:292:PHE:HD1	1.53	0.73
2:B:1809:LEU:HD11	2:B:1831:VAL:HG13	1.70	0.73
2:E:60:LEU:HA	2:E:63:LYS:HB3	1.69	0.73
2:B:1878:VAL:HG23	2:B:1879:GLY:H	1.53	0.73
1:G:903:PHE:HA	1:G:906:LEU:HD23	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1444:ASN:N	1:G:1444:ASN:HD22	1.86	0.73
2:H:836:UNK:HA	2:H:1028:UNK:HA	1.69	0.73
2:B:494:THR:HB	2:B:520:LYS:NZ	2.03	0.73
2:B:163:GLN:HB3	2:B:423:VAL:HG22	1.70	0.73
1:A:1126:ILE:HG22	1:A:1127:VAL:N	2.03	0.73
1:A:1148:HIS:O	1:A:1150:ASP:N	2.21	0.73
1:G:1067:LEU:HD13	1:G:1068:LYS:N	2.03	0.73
1:G:1239:HIS:C	1:G:1241:SER:H	1.92	0.73
1:G:1329:VAL:HG12	1:G:1385:GLN:H	1.53	0.73
1:A:997:PRO:HG2	1:A:1002:LYS:HE2	1.69	0.73
1:D:1220:VAL:O	1:D:1224:ILE:HG22	1.87	0.73
1:D:1226:SER:O	1:D:1228:ILE:HG23	1.89	0.73
2:H:286:THR:HG21	2:H:292:PHE:HD1	1.53	0.73
2:B:43:GLU:HB2	2:B:44:PRO:CD	2.16	0.73
2:B:1731:GLU:O	2:B:1735:ALA:HB3	1.87	0.73
2:B:1796:GLY:O	2:B:1797:LEU:HD23	1.88	0.73
1:D:1258:ARG:HG2	1:D:1258:ARG:HH11	1.52	0.73
2:H:170:PHE:HD2	2:H:174:ARG:HH21	1.36	0.73
2:E:40:ILE:C	2:E:41:LEU:HD23	2.08	0.73
1:G:1342:GLU:O	1:G:1346:MET:N	2.20	0.73
2:E:1194:UNK:O	2:E:1200:UNK:HA	1.89	0.73
2:B:170:PHE:HB2	2:B:231:LEU:HD11	1.70	0.73
1:G:1028:GLY:HA3	1:G:1591:TRP:CZ2	2.23	0.73
1:G:1238:VAL:HA	1:G:1720:ALA:HB1	1.69	0.73
1:A:1109:GLU:C	1:A:1111:PHE:H	1.89	0.73
1:A:1303:GLY:O	1:A:1307:THR:N	2.21	0.73
1:A:749:ILE:HD12	1:A:806:VAL:HG22	1.71	0.73
1:D:1558:ASN:OD1	1:D:1620:GLN:HB3	1.86	0.73
1:D:1409:THR:N	1:D:1651:GLY:HA3	2.03	0.73
1:A:1169:LYS:HG3	1:A:1170:GLY:N	2.02	0.73
1:G:1670:TYR:O	1:G:1673:TYR:HB3	1.88	0.73
1:A:678:VAL:O	1:A:703:VAL:HG22	1.88	0.73
1:D:1064:ASN:OD1	1:D:1069:GLY:HA3	1.89	0.73
1:D:1238:VAL:HA	1:D:1720:ALA:HB1	1.70	0.73
2:H:443:LEU:HB3	2:H:449:SER:CB	2.18	0.73
1:G:1008:GLU:C	1:G:1010:GLU:H	1.88	0.73
2:B:443:LEU:HB3	2:B:449:SER:CB	2.19	0.73
2:H:69:SER:HA	2:H:80:PHE:HB3	1.70	0.73
1:G:749:ILE:HD12	1:G:806:VAL:HG22	1.70	0.73
2:E:1877:ARG:HB3	2:E:1929:LYS:NZ	2.03	0.73
2:E:836:UNK:HA	2:E:1028:UNK:HA	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1064:ASN:OD1	1:G:1069:GLY:HA3	1.89	0.73
1:G:1240:VAL:C	1:G:1242:GLU:H	1.92	0.73
1:G:1554:SER:HB3	1:G:1623:TYR:OH	1.87	0.73
1:G:869:ILE:HG21	1:G:901:MET:SD	2.29	0.73
1:A:1670:TYR:O	1:A:1673:TYR:HB3	1.89	0.73
1:D:796:LEU:HG	1:D:797:THR:H	1.53	0.73
2:H:371:VAL:HB	2:H:489:LYS:HA	1.70	0.73
2:B:209:PHE:CZ	2:B:235:PRO:HB2	2.23	0.73
2:B:1834:ARG:HG3	2:B:1834:ARG:HH11	1.52	0.73
2:B:1742:VAL:HG22	2:B:1837:THR:HG23	1.71	0.73
2:H:1751:ILE:HD13	2:H:1840:VAL:HG21	1.71	0.73
2:H:1878:VAL:HG23	2:H:1879:GLY:H	1.54	0.73
2:H:1194:UNK:O	2:H:1200:UNK:HA	1.88	0.73
2:B:1883:GLY:HA2	2:B:1894:GLU:OE1	1.87	0.73
2:B:1536:UNK:O	2:B:1538:UNK:N	2.21	0.73
1:G:1378:GLU:HB2	1:G:1585:LYS:HD2	1.71	0.73
1:G:1433:HIS:CD2	1:G:1523:ARG:HE	2.06	0.73
1:A:1635:GLY:O	1:A:1636:VAL:C	2.27	0.73
1:A:1707:THR:O	1:A:1709:GLU:N	2.22	0.73
1:A:678:VAL:CG2	1:A:767:ALA:HB3	2.19	0.73
1:D:1558:ASN:C	1:D:1560:MET:H	1.92	0.73
1:D:680:ILE:HD12	1:D:680:ILE:N	2.04	0.73
2:E:443:LEU:HB3	2:E:449:SER:HB2	1.71	0.73
1:D:1259:GLY:HA2	1:D:1263:ASP:CB	2.17	0.73
2:B:38:ASN:O	2:B:42:PRO:HD3	1.87	0.73
2:B:1863:ALA:HA	2:B:1866:PHE:CD1	2.22	0.73
2:H:1854:MET:HB2	2:H:1893:VAL:O	1.89	0.73
1:D:468:UNK:C	1:D:470:UNK:N	2.48	0.73
1:G:1109:GLU:O	1:G:1110:LEU:HB2	1.89	0.73
1:G:717:TYR:C	1:G:719:GLN:H	1.93	0.73
1:A:1064:ASN:OD1	1:A:1069:GLY:HA3	1.88	0.73
1:A:1202:ASP:HA	1:A:1205:ILE:HD11	1.71	0.73
1:D:1447:TYR:HE2	1:D:1450:ARG:HG3	1.52	0.73
2:B:371:VAL:HB	2:B:489:LYS:HA	1.71	0.73
2:H:1880:LYS:HB3	2:H:1899:VAL:HG21	1.71	0.73
1:D:1441:PRO:O	1:D:1442:ASN:HB2	1.88	0.73
1:A:1441:PRO:O	1:A:1442:ASN:HB2	1.89	0.73
1:A:644:UNK:C	1:A:646:UNK:H	2.02	0.73
1:G:1103:ILE:CA	1:G:1106:ILE:HD12	2.17	0.73
1:G:1398:VAL:HG22	1:G:1399:PRO:C	2.07	0.73
1:G:1692:MET:HA	1:G:1697:LEU:HD11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1243:VAL:HA	1:A:1324:ALA:CB	2.19	0.73
1:A:1351:ASN:ND2	1:A:1354:GLU:HB2	2.03	0.73
1:A:1370:THR:N	1:A:1547:LYS:HD2	2.04	0.73
1:A:1401:TYR:O	1:A:1658:PRO:HB3	1.87	0.73
1:D:997:PRO:HG2	1:D:1002:LYS:HE2	1.70	0.73
1:D:1002:LYS:O	1:D:1006:PRO:HD2	1.89	0.73
2:E:1715:VAL:HB	2:E:1770:LEU:N	1.99	0.73
2:B:1715:VAL:HB	2:B:1770:LEU:N	2.01	0.73
2:H:38:ASN:O	2:H:42:PRO:HD3	1.88	0.73
2:B:67:TYR:C	2:B:69:SER:N	2.42	0.73
1:G:1795:UNK:HA	1:G:1799:UNK:CB	2.18	0.73
2:E:633:UNK:C	2:E:635:UNK:H	2.01	0.73
2:B:1148:UNK:O	2:B:1149:UNK:O	2.06	0.73
2:H:1347:UNK:O	2:H:1349:UNK:N	2.21	0.73
1:G:1211:ILE:C	1:G:1213:LEU:N	2.40	0.72
1:G:1303:GLY:O	1:G:1307:THR:N	2.22	0.72
1:A:1302:VAL:HG23	1:A:1303:GLY:H	1.52	0.72
1:A:1426:LEU:CD2	1:A:1650:GLY:HA3	2.19	0.72
1:A:1706:TYR:CD1	1:A:1706:TYR:N	2.56	0.72
1:A:710:PHE:CD1	1:A:736:PRO:HB3	2.24	0.72
1:D:1299:LYS:NZ	1:D:1323:LYS:HZ3	1.86	0.72
2:E:1751:ILE:HD13	2:E:1840:VAL:HG21	1.71	0.72
2:B:1703:GLY:O	2:B:1721:PHE:CE2	2.42	0.72
2:H:1740:THR:OG1	2:H:1751:ILE:HB	1.87	0.72
2:B:1149:UNK:O	2:B:1151:UNK:N	2.22	0.72
2:E:163:GLN:HB3	2:E:423:VAL:HG22	1.71	0.72
1:D:644:UNK:C	1:D:646:UNK:H	2.02	0.72
1:A:1795:UNK:HA	1:A:1799:UNK:CB	2.19	0.72
2:H:1536:UNK:O	2:H:1538:UNK:N	2.21	0.72
1:D:1178:ALA:O	1:D:1179:LEU:HB3	1.88	0.72
1:G:1254:VAL:HA	1:G:1257:LEU:HB2	1.70	0.72
1:G:1430:ARG:HG2	1:G:1431:GLU:H	1.52	0.72
1:G:1544:THR:OG1	1:G:1546:THR:HG22	1.89	0.72
1:A:1207:GLN:O	1:A:1209:ASP:N	2.19	0.72
1:D:1239:HIS:C	1:D:1241:SER:H	1.92	0.72
1:D:1243:VAL:HA	1:D:1324:ALA:CB	2.20	0.72
2:H:215:ILE:HD13	2:H:240:LEU:HD11	1.72	0.72
2:H:455:ILE:CD1	2:H:469:ARG:HB2	2.18	0.72
2:E:436:SER:O	2:E:439:ILE:HG12	1.89	0.72
1:G:1478:PRO:HB3	1:G:1481:ASP:HB2	1.71	0.72
2:E:1782:THR:OG1	2:E:1809:LEU:HD21	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1720:HIS:C	2:B:1721:PHE:HD1	1.91	0.72
2:H:168:ASP:HB3	2:H:171:GLU:CB	2.19	0.72
1:G:796:LEU:HG	1:G:797:THR:H	1.53	0.72
2:E:1939:HIS:CG	2:E:1940:LEU:N	2.58	0.72
2:H:1148:UNK:O	2:H:1149:UNK:O	2.07	0.72
1:D:547:UNK:C	1:D:549:UNK:N	2.50	0.72
1:G:1243:VAL:HA	1:G:1324:ALA:CB	2.18	0.72
1:G:1308:SER:O	1:G:1311:SER:HB3	1.89	0.72
1:G:1422:GLY:HA2	1:G:1425:ILE:HB	1.70	0.72
1:A:1436:VAL:O	1:A:1437:LYS:O	2.07	0.72
1:A:1409:THR:N	1:A:1651:GLY:HA3	2.04	0.72
1:A:1403:ILE:CG2	1:A:1656:VAL:HG13	2.19	0.72
1:D:1351:ASN:ND2	1:D:1354:GLU:HB2	2.03	0.72
1:D:1232:TYR:OH	1:D:1704:ALA:HA	1.89	0.72
1:D:680:ILE:H	1:D:680:ILE:HD12	1.54	0.72
2:H:247:ALA:O	2:H:251:VAL:HG23	1.89	0.72
2:H:443:LEU:HB3	2:H:449:SER:HB2	1.70	0.72
2:B:159:ILE:HG23	2:B:271:THR:O	1.90	0.72
2:B:260:PRO:HG2	2:B:287:ASP:O	1.89	0.72
2:E:1809:LEU:HD11	2:E:1831:VAL:HG13	1.70	0.72
2:H:1715:VAL:HG23	2:H:1770:LEU:HB2	1.71	0.72
2:E:1268:UNK:C	2:E:1270:UNK:H	2.00	0.72
2:B:1268:UNK:C	2:B:1270:UNK:H	1.99	0.72
2:E:1863:ALA:HA	2:E:1866:PHE:CD1	2.23	0.72
1:G:1441:PRO:O	1:G:1442:ASN:HB2	1.87	0.72
2:E:1347:UNK:O	2:E:1349:UNK:N	2.23	0.72
1:G:1115:ASN:HD22	1:G:1115:ASN:N	1.85	0.72
1:G:1020:VAL:HG22	1:G:1403:ILE:HA	1.72	0.72
1:G:1409:THR:N	1:G:1651:GLY:HA3	2.04	0.72
1:A:1599:ILE:HD11	1:A:1639:VAL:HG12	1.72	0.72
1:A:1692:MET:HA	1:A:1697:LEU:HD11	1.71	0.72
1:D:1401:TYR:O	1:D:1658:PRO:HB3	1.89	0.72
1:D:1541:PHE:HE2	1:D:1554:SER:HG	1.36	0.72
1:D:1635:GLY:O	1:D:1636:VAL:C	2.27	0.72
2:H:100:ASP:OD2	2:H:255:LEU:HD11	1.88	0.72
2:E:1885:LEU:HD22	2:E:1891:TYR:HD2	1.55	0.72
1:D:1795:UNK:HA	1:D:1799:UNK:CB	2.20	0.72
1:G:1148:HIS:O	1:G:1150:ASP:N	2.22	0.72
1:D:1155:PHE:O	1:D:1156:GLU:HB3	1.89	0.72
1:G:1329:VAL:CG1	1:G:1385:GLN:H	2.02	0.72
1:G:1410:ALA:CB	1:G:1426:LEU:HB2	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1401:TYR:O	1:G:1658:PRO:HB3	1.90	0.72
1:G:1238:VAL:CA	1:G:1720:ALA:HB1	2.20	0.72
1:G:710:PHE:O	1:G:711:SER:HB3	1.89	0.72
1:A:1096:SER:C	1:A:1098:LEU:H	1.93	0.72
1:A:1398:VAL:HG22	1:A:1399:PRO:C	2.09	0.72
1:A:1411:THR:OG1	1:A:1412:ASP:N	2.22	0.72
1:A:1430:ARG:HG2	1:A:1431:GLU:H	1.54	0.72
1:D:680:ILE:HG23	1:D:769:ILE:HG23	1.70	0.72
1:D:688:ILE:O	1:D:692:VAL:HG23	1.89	0.72
2:H:159:ILE:HG23	2:H:271:THR:O	1.89	0.72
2:B:286:THR:HG21	2:B:292:PHE:HD1	1.53	0.72
2:B:1821:VAL:HG23	2:B:1822:MET:HG3	1.70	0.72
2:B:1864:ALA:C	2:B:1866:PHE:N	2.42	0.72
1:D:775:PRO:O	1:D:776:GLU:HB2	1.89	0.72
1:G:1652:GLN:NE2	1:G:1653:ALA:O	2.23	0.72
1:A:1240:VAL:C	1:A:1242:GLU:H	1.92	0.72
1:A:1554:SER:HB3	1:A:1623:TYR:OH	1.90	0.72
1:D:1109:GLU:C	1:D:1111:PHE:H	1.91	0.72
1:D:1189:ILE:HD12	1:D:1377:MET:CE	2.19	0.72
1:D:1398:VAL:HG22	1:D:1399:PRO:C	2.10	0.72
1:D:1403:ILE:CG2	1:D:1656:VAL:HG13	2.20	0.72
1:D:904:ASN:HD22	1:D:904:ASN:N	1.87	0.72
2:E:159:ILE:HG23	2:E:271:THR:O	1.90	0.72
2:E:1173:UNK:HA	2:E:1182:UNK:HA	1.70	0.72
2:E:1536:UNK:O	2:E:1538:UNK:N	2.23	0.72
2:H:996:UNK:C	2:H:998:UNK:N	2.47	0.72
1:G:1426:LEU:CD2	1:G:1650:GLY:HA3	2.20	0.72
1:G:1232:TYR:HE1	1:G:1705:PRO:HD3	1.55	0.72
1:G:712:LYS:HG2	1:G:716:ASP:OD2	1.90	0.72
1:A:1605:ILE:HG12	1:A:1606:PRO:HA	1.72	0.72
1:D:1077:ASP:OD2	1:D:1090:LYS:HE2	1.89	0.72
1:D:1028:GLY:HA3	1:D:1591:TRP:CZ2	2.25	0.72
2:E:303:LEU:HA	2:E:306:ILE:HD12	1.72	0.72
2:B:241:ILE:HG23	2:B:242:GLY:N	2.05	0.72
2:B:295:SER:HA	2:B:298:LYS:HE3	1.70	0.72
2:H:1731:GLU:O	2:H:1735:ALA:HB3	1.88	0.72
1:D:757:LYS:C	1:D:758:ASN:HD22	1.93	0.72
1:D:674:LYS:HG2	1:D:675:ASP:OD2	1.90	0.72
2:E:1854:MET:HB2	2:E:1893:VAL:O	1.88	0.72
1:G:1604:ILE:HG22	1:G:1605:ILE:N	2.02	0.72
1:G:710:PHE:CD1	1:G:736:PRO:HB3	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1580:LEU:O	1:A:1580:LEU:HG	1.88	0.72
1:A:1232:TYR:OH	1:A:1704:ALA:HA	1.90	0.72
1:D:1593:MET:O	1:D:1596:ALA:HB3	1.90	0.72
2:H:1737:ILE:O	2:H:1738:PHE:HB3	1.90	0.72
2:B:318:SER:N	2:H:1307:UNK:CB	2.52	0.72
2:H:1268:UNK:C	2:H:1270:UNK:H	2.02	0.72
2:B:1880:LYS:HB3	2:B:1899:VAL:HG21	1.70	0.72
2:B:996:UNK:C	2:B:998:UNK:N	2.47	0.72
1:G:1133:PRO:C	1:G:1134:PHE:CD1	2.63	0.72
1:G:1128:GLU:HA	1:G:1177:LYS:HA	1.72	0.72
1:A:1105:LEU:HD13	1:A:1111:PHE:HZ	1.53	0.72
1:A:1308:SER:O	1:A:1311:SER:HB3	1.90	0.72
1:A:1604:ILE:HG22	1:A:1605:ILE:N	2.02	0.72
1:A:1714:VAL:HG11	1:A:1731:LEU:CD1	2.20	0.72
1:A:792:HIS:CE1	1:A:796:LEU:HD21	2.24	0.72
2:H:131:ILE:HD13	2:H:182:VAL:HG13	1.70	0.72
2:E:241:ILE:CG2	2:E:242:GLY:N	2.53	0.72
2:B:309:ARG:HG3	2:B:439:ILE:HG22	1.72	0.72
1:A:1478:PRO:HB3	1:A:1481:ASP:HB2	1.71	0.72
1:G:757:LYS:C	1:G:758:ASN:HD22	1.93	0.72
2:B:69:SER:HA	2:B:80:PHE:HB3	1.72	0.72
2:H:221:ASN:HD22	2:H:221:ASN:N	1.83	0.72
1:A:547:UNK:C	1:A:549:UNK:N	2.49	0.72
1:G:1178:ALA:O	1:G:1179:LEU:HB3	1.88	0.72
1:A:1133:PRO:C	1:A:1134:PHE:CD1	2.63	0.72
1:G:997:PRO:HG2	1:G:1002:LYS:HE2	1.70	0.72
1:A:1089:VAL:O	1:A:1093:TYR:HB2	1.90	0.72
1:D:1308:SER:HB2	1:D:1590:ALA:HB2	1.70	0.72
1:D:1692:MET:HA	1:D:1697:LEU:HD11	1.71	0.72
1:D:861:GLN:O	1:D:862:LEU:HD23	1.90	0.72
2:H:1855:ILE:HG22	2:H:1951:UNK:HA	1.69	0.72
2:B:87:CYS:O	2:B:90:GLU:HB3	1.90	0.72
2:B:1854:MET:HB2	2:B:1893:VAL:O	1.90	0.72
2:H:633:UNK:C	2:H:635:UNK:H	2.03	0.72
1:A:1151:LYS:HD2	1:A:1151:LYS:H	1.55	0.71
1:G:1583:HIS:CG	1:G:1584:PRO:HA	2.25	0.71
1:A:680:ILE:HD12	1:A:680:ILE:N	2.05	0.71
1:D:1022:THR:OG1	1:D:1388:MET:HG3	1.90	0.71
2:E:443:LEU:HB3	2:E:449:SER:CB	2.19	0.71
2:E:159:ILE:HB	2:E:503:ASP:OD1	1.89	0.71
1:G:1447:TYR:C	1:G:1449:LYS:H	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:478:ARG:C	2:B:480:VAL:H	1.93	0.71
2:B:529:VAL:O	2:B:542:GLY:HA2	1.90	0.71
2:B:1687:ALA:CB	2:B:1787:ALA:HB1	2.20	0.71
2:E:67:TYR:C	2:E:69:SER:N	2.42	0.71
2:E:1878:VAL:HG23	2:E:1879:GLY:H	1.53	0.71
1:A:468:UNK:C	1:A:470:UNK:N	2.46	0.71
1:G:644:UNK:C	1:G:646:UNK:H	2.02	0.71
1:D:1067:LEU:HD22	1:D:1068:LYS:H	1.55	0.71
1:D:1203:ASP:O	1:D:1206:SER:HB3	1.90	0.71
1:D:1603:GLY:C	1:D:1604:ILE:HD13	2.11	0.71
2:H:436:SER:O	2:H:439:ILE:HG12	1.90	0.71
2:H:478:ARG:C	2:H:480:VAL:H	1.90	0.71
1:D:1478:PRO:HB3	1:D:1481:ASP:HB2	1.71	0.71
2:E:1742:VAL:HG22	2:E:1837:THR:HG23	1.72	0.71
1:G:574:UNK:HA	1:G:577:UNK:CB	2.20	0.71
2:B:924:UNK:O	2:B:926:UNK:N	2.22	0.71
1:G:1232:TYR:OH	1:G:1704:ALA:HA	1.90	0.71
1:G:1593:MET:O	1:G:1596:ALA:HB3	1.90	0.71
1:A:904:ASN:N	1:A:904:ASN:HD22	1.88	0.71
1:D:1089:VAL:O	1:D:1093:TYR:HB2	1.90	0.71
1:D:1104:ARG:O	1:D:1105:LEU:HG	1.91	0.71
1:D:1373:ARG:HD3	1:D:1547:LYS:HB3	1.71	0.71
2:H:209:PHE:CZ	2:H:235:PRO:HB2	2.25	0.71
2:H:1723:GLY:HA3	2:H:1733:TYR:CE1	2.26	0.71
2:E:29:ILE:O	2:E:34:GLN:HG3	1.91	0.71
2:E:471:LEU:HG	2:E:472:SER:N	2.04	0.71
2:H:134:LYS:C	2:H:136:PRO:HD3	2.11	0.71
2:E:1883:GLY:HA2	2:E:1894:GLU:OE1	1.90	0.71
1:A:574:UNK:HA	1:A:577:UNK:CB	2.20	0.71
1:A:1178:ALA:C	1:A:1179:LEU:HD22	2.10	0.71
1:G:1097:ILE:HG23	1:G:1098:LEU:HD22	1.70	0.71
1:G:1243:VAL:HG12	1:G:1324:ALA:CA	2.20	0.71
1:G:1394:LEU:HD11	1:G:1661:LEU:HD21	1.72	0.71
1:A:1410:ALA:CB	1:A:1426:LEU:HB2	2.20	0.71
1:A:1558:ASN:OD1	1:A:1620:GLN:HB3	1.89	0.71
2:E:527:VAL:CG1	2:E:541:TYR:HA	2.13	0.71
2:E:1810:GLY:O	2:E:1813:ALA:HB3	1.90	0.71
2:B:1782:THR:OG1	2:B:1809:LEU:HD21	1.90	0.71
2:B:1874:VAL:HG22	2:B:1928:GLN:HE22	1.56	0.71
2:E:1917:ILE:HG22	2:E:1918:LYS:H	1.54	0.71
1:G:1067:LEU:CD2	1:G:1068:LYS:H	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1329:VAL:CG1	1:A:1385:GLN:H	2.03	0.71
1:A:1519:ILE:HD11	1:A:1524:GLY:N	2.05	0.71
1:A:1404:VAL:HA	1:A:1655:VAL:CG2	2.19	0.71
1:D:1035:THR:HG23	1:D:1045:PHE:CE1	2.25	0.71
1:D:1430:ARG:HG2	1:D:1431:GLU:H	1.55	0.71
1:D:1589:GLY:HA2	1:D:1592:MET:HE3	1.72	0.71
1:D:1652:GLN:NE2	1:D:1653:ALA:O	2.22	0.71
2:H:263:LEU:C	2:H:265:SER:N	2.42	0.71
2:H:309:ARG:HG3	2:H:439:ILE:HG22	1.72	0.71
2:H:504:PHE:HA	2:H:529:VAL:CG2	2.20	0.71
2:E:529:VAL:O	2:E:542:GLY:HA2	1.91	0.71
1:A:757:LYS:C	1:A:758:ASN:HD22	1.94	0.71
1:D:1670:TYR:O	1:D:1673:TYR:HB3	1.90	0.71
1:D:826:MET:HE1	1:D:847:GLU:HG3	1.72	0.71
2:E:309:ARG:HG3	2:E:439:ILE:HG22	1.72	0.71
2:E:504:PHE:HA	2:E:529:VAL:CG2	2.21	0.71
2:H:1821:VAL:HG23	2:H:1822:MET:HG3	1.73	0.71
1:G:1609:ARG:HE	1:G:1610:ASN:N	1.89	0.71
1:A:1036:ARG:HD3	1:A:1037:TRP:H	1.56	0.71
1:A:710:PHE:O	1:A:711:SER:HB3	1.89	0.71
1:D:1097:ILE:O	1:D:1098:LEU:HD22	1.91	0.71
1:D:803:MET:HE3	1:D:822:VAL:HG11	1.73	0.71
1:A:1008:GLU:C	1:A:1010:GLU:H	1.91	0.71
1:G:1203:ASP:O	1:G:1206:SER:HB3	1.90	0.71
2:B:1939:HIS:CG	2:B:1940:LEU:N	2.58	0.71
2:H:2036:UNK:HA	2:H:2039:UNK:CB	2.20	0.71
2:H:1326:UNK:C	2:H:1328:UNK:H	2.04	0.71
2:B:1917:ILE:HG22	2:B:1918:LYS:H	1.55	0.71
1:D:1142:GLU:O	1:D:1145:LYS:N	2.22	0.71
1:D:1128:GLU:HA	1:D:1177:LYS:HA	1.73	0.71
1:G:1707:THR:O	1:G:1709:GLU:N	2.24	0.71
1:A:680:ILE:HG23	1:A:769:ILE:HG23	1.73	0.71
1:D:1232:TYR:HE1	1:D:1705:PRO:HD3	1.54	0.71
1:D:1410:ALA:CB	1:D:1426:LEU:HB2	2.21	0.71
1:D:1604:ILE:HG22	1:D:1605:ILE:N	2.00	0.71
2:B:259:THR:CG2	2:B:288:SER:HA	2.21	0.71
2:E:1703:GLY:O	2:E:1721:PHE:CE2	2.43	0.71
2:H:1715:VAL:HG13	2:H:1716:ASN:N	2.06	0.71
2:H:29:ILE:O	2:H:34:GLN:HG3	1.91	0.71
1:G:1340:SER:O	1:G:1341:PHE:HB3	1.89	0.71
2:E:1878:VAL:HB	2:E:1898:TYR:HE1	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1133:PRO:HD2	1:A:1173:LEU:HD11	1.73	0.71
1:G:1573:ILE:HA	1:G:1622:GLU:OE2	1.91	0.71
1:G:904:ASN:N	1:G:904:ASN:HD22	1.87	0.71
1:A:1424:GLY:O	1:A:1426:LEU:N	2.20	0.71
1:A:1028:GLY:HA3	1:A:1591:TRP:CZ2	2.25	0.71
1:A:680:ILE:H	1:A:680:ILE:HD12	1.55	0.71
1:D:1426:LEU:HD12	1:D:1427:THR:HG23	1.73	0.71
1:D:1378:GLU:CB	1:D:1585:LYS:HD2	2.21	0.71
1:D:717:TYR:O	1:D:721:ILE:HG12	1.91	0.71
1:D:722:TYR:O	1:D:724:LYS:N	2.24	0.71
2:B:436:SER:O	2:B:439:ILE:HG12	1.90	0.71
2:E:1874:VAL:HG22	2:E:1928:GLN:HE22	1.55	0.71
2:B:96:LEU:N	2:B:96:LEU:HD23	2.06	0.71
1:G:1152:VAL:O	1:G:1155:PHE:N	2.23	0.71
1:G:1536:LEU:HB3	1:G:1638:ALA:HB3	1.72	0.71
1:A:1211:ILE:C	1:A:1213:LEU:N	2.41	0.71
1:D:1202:ASP:HA	1:D:1205:ILE:HD11	1.73	0.71
1:D:798:ASN:O	1:D:802:MET:N	2.20	0.71
2:H:259:THR:HG21	2:H:288:SER:HA	1.73	0.71
2:E:371:VAL:HB	2:E:489:LYS:HA	1.71	0.71
2:E:478:ARG:C	2:E:480:VAL:H	1.92	0.71
2:B:303:LEU:HA	2:B:306:ILE:HD12	1.72	0.71
2:B:372:ASN:O	2:B:376:ASN:HB2	1.91	0.71
2:E:1880:LYS:HB3	2:E:1899:VAL:HG21	1.72	0.71
1:G:907:GLY:C	1:G:909:LEU:N	2.45	0.71
1:G:1599:ILE:HD11	1:G:1639:VAL:HG12	1.72	0.70
1:G:722:TYR:O	1:G:724:LYS:N	2.23	0.70
1:A:1067:LEU:CD2	1:A:1073:THR:HA	2.15	0.70
1:A:1101:SER:C	1:A:1103:ILE:N	2.45	0.70
1:A:1353:LEU:CA	1:A:1356:PHE:HB2	2.20	0.70
1:A:1426:LEU:HD12	1:A:1427:THR:HG23	1.73	0.70
1:D:1067:LEU:CD2	1:D:1068:LYS:H	2.04	0.70
1:D:1308:SER:O	1:D:1311:SER:HB3	1.90	0.70
2:B:1733:TYR:HH	2:B:1761:SER:HA	1.55	0.70
2:H:1715:VAL:HG21	2:H:1766:SER:OG	1.90	0.70
2:H:49:ALA:HA	2:H:118:LYS:HZ2	1.56	0.70
2:B:1878:VAL:HB	2:B:1898:TYR:HE1	1.56	0.70
2:B:134:LYS:C	2:B:136:PRO:HD3	2.10	0.70
2:B:633:UNK:C	2:B:635:UNK:H	2.02	0.70
1:G:1558:ASN:C	1:G:1560:MET:H	1.94	0.70
1:A:1002:LYS:O	1:A:1006:PRO:HD2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1106:ILE:HA	1:A:1192:GLY:HA2	1.73	0.70
1:D:1096:SER:C	1:D:1098:LEU:H	1.94	0.70
1:D:846:LEU:O	1:D:849:LEU:HB2	1.91	0.70
1:D:1335:PHE:CE1	1:D:1340:SER:HB2	2.17	0.70
2:H:170:PHE:HB3	2:H:231:LEU:HD21	1.73	0.70
1:G:769:ILE:HG13	1:G:771:PHE:CE1	2.27	0.70
2:E:1859:PRO:HD2	2:E:1889:VAL:HA	1.72	0.70
1:D:999:LYS:HD2	1:D:1667:GLU:HG2	1.73	0.70
2:E:1148:UNK:O	2:E:1149:UNK:O	2.08	0.70
1:A:1142:GLU:O	1:A:1144:PHE:N	2.25	0.70
1:D:1142:GLU:O	1:D:1144:PHE:N	2.23	0.70
1:A:1422:GLY:HA2	1:A:1425:ILE:HB	1.71	0.70
1:A:1546:THR:HG21	1:A:1549:ASN:HB3	1.73	0.70
1:D:1243:VAL:HG12	1:D:1324:ALA:CA	2.21	0.70
2:E:1715:VAL:C	2:E:1718:THR:HG22	2.11	0.70
2:E:367:GLU:HG2	2:E:368:ILE:N	2.04	0.70
2:H:1703:GLY:O	2:H:1721:PHE:CE2	2.44	0.70
2:H:96:LEU:N	2:H:96:LEU:HD23	2.06	0.70
1:G:1104:ARG:O	1:G:1105:LEU:HG	1.92	0.70
1:G:1105:LEU:HD13	1:G:1111:PHE:HZ	1.55	0.70
1:A:1020:VAL:HG22	1:A:1403:ILE:HA	1.73	0.70
1:A:1078:SER:OG	1:A:1085:ASP:HA	1.91	0.70
1:A:1110:LEU:HG	1:A:1188:GLN:HA	1.73	0.70
1:A:1394:LEU:HD11	1:A:1661:LEU:HD21	1.73	0.70
1:A:881:ASN:O	1:A:883:ILE:N	2.24	0.70
1:D:1394:LEU:HD11	1:D:1661:LEU:HD21	1.72	0.70
1:D:1636:VAL:HG13	1:D:1657:HIS:CG	2.25	0.70
2:E:1821:VAL:HG23	2:E:1822:MET:HG3	1.73	0.70
2:E:23:PRO:HA	2:E:26:SER:HB3	1.74	0.70
2:E:134:LYS:C	2:E:136:PRO:HD3	2.11	0.70
2:E:1989:UNK:O	2:E:1991:UNK:N	2.24	0.70
2:E:1197:UNK:O	2:E:1199:UNK:N	2.25	0.70
1:A:1155:PHE:O	1:A:1156:GLU:HB3	1.89	0.70
1:G:1110:LEU:CD1	1:G:1120:GLU:HG3	2.20	0.70
1:A:1238:VAL:CA	1:A:1720:ALA:HB1	2.20	0.70
1:A:1329:VAL:HG12	1:A:1385:GLN:H	1.55	0.70
1:A:1609:ARG:HE	1:A:1610:ASN:N	1.89	0.70
1:A:1573:ILE:HA	1:A:1622:GLU:OE2	1.92	0.70
1:D:1110:LEU:HG	1:D:1188:GLN:HA	1.74	0.70
1:D:1303:GLY:O	1:D:1307:THR:N	2.24	0.70
1:D:1714:VAL:HG11	1:D:1731:LEU:CD1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1806:GLY:HA3	2:E:1811:GLU:HA	1.74	0.70
2:B:29:ILE:O	2:B:34:GLN:HG3	1.91	0.70
2:B:1194:UNK:O	2:B:1200:UNK:HA	1.90	0.70
1:G:775:PRO:O	1:G:776:GLU:HB2	1.89	0.70
1:A:1128:GLU:HA	1:A:1177:LYS:HA	1.72	0.70
1:D:1126:ILE:HG22	1:D:1127:VAL:N	2.05	0.70
1:G:1081:LYS:HD3	1:G:1081:LYS:N	2.06	0.70
1:G:1248:GLY:HA2	1:G:1330:GLY:CA	2.21	0.70
1:A:1067:LEU:HD22	1:A:1068:LYS:H	1.55	0.70
1:A:1558:ASN:C	1:A:1560:MET:H	1.95	0.70
1:A:1625:LEU:HD22	1:A:1625:LEU:C	2.10	0.70
2:H:241:ILE:HG23	2:H:242:GLY:N	2.06	0.70
2:H:372:ASN:O	2:H:376:ASN:HB2	1.92	0.70
2:B:504:PHE:HA	2:B:529:VAL:CG2	2.21	0.70
2:E:1731:GLU:C	2:E:1735:ALA:HB3	2.12	0.70
2:E:1770:LEU:C	2:E:1772:SER:H	1.93	0.70
2:B:1737:ILE:O	2:B:1738:PHE:HB3	1.91	0.70
2:B:23:PRO:HA	2:B:26:SER:HB3	1.74	0.70
2:E:69:SER:HA	2:E:80:PHE:HB3	1.71	0.70
2:H:851:UNK:O	2:H:853:UNK:N	2.21	0.70
1:D:1133:PRO:C	1:D:1134:PHE:CD1	2.65	0.70
1:G:1002:LYS:O	1:G:1006:PRO:HD2	1.90	0.70
1:G:1055:TRP:CH2	1:G:1198:TYR:HD1	2.10	0.70
1:G:1427:THR:C	1:G:1429:ALA:H	1.95	0.70
1:D:1378:GLU:HB2	1:D:1585:LYS:HD2	1.74	0.70
1:D:1520:ALA:N	1:D:1521:PRO:CD	2.55	0.70
1:D:710:PHE:O	1:D:711:SER:HB3	1.90	0.70
1:D:717:TYR:HD2	1:D:718:TYR:CE1	2.10	0.70
2:H:528:ILE:H	2:H:541:TYR:CB	2.04	0.70
2:E:1715:VAL:HG13	2:E:1716:ASN:N	2.07	0.70
2:E:1720:HIS:C	2:E:1721:PHE:HD1	1.94	0.70
2:B:1789:PHE:CE1	2:B:1798:ILE:HG13	2.27	0.70
2:H:1856:ALA:HA	2:H:1891:TYR:O	1.91	0.70
2:B:1856:ALA:HA	2:B:1891:TYR:O	1.92	0.70
2:E:924:UNK:O	2:E:926:UNK:N	2.23	0.70
1:G:1168:LEU:CD2	1:G:1169:LYS:H	2.05	0.70
1:G:1426:LEU:HD12	1:G:1427:THR:HG23	1.74	0.70
1:A:1363:ALA:O	1:A:1364:GLU:O	2.10	0.70
1:D:1352:THR:O	1:D:1353:LEU:HB3	1.90	0.70
1:D:1423:LYS:C	1:D:1425:ILE:N	2.43	0.70
1:D:1573:ILE:HA	1:D:1622:GLU:OE2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1554:SER:HB3	1:D:1623:TYR:OH	1.92	0.70
2:B:1687:ALA:HB1	2:B:1787:ALA:HB1	1.73	0.70
2:E:96:LEU:HD23	2:E:96:LEU:N	2.07	0.70
1:D:915:GLU:O	1:D:918:GLN:HB3	1.91	0.70
2:H:924:UNK:C	2:H:926:UNK:N	2.52	0.70
1:A:1150:ASP:HB3	1:A:1151:LYS:HD2	1.74	0.70
1:D:1168:LEU:HD13	1:D:1169:LYS:N	2.06	0.70
1:G:1101:SER:C	1:G:1103:ILE:N	2.45	0.70
1:G:688:ILE:O	1:G:692:VAL:HG23	1.91	0.70
1:A:712:LYS:HG2	1:A:716:ASP:OD2	1.92	0.70
1:D:1425:ILE:O	1:D:1426:LEU:HD23	1.92	0.70
2:E:263:LEU:C	2:E:265:SER:N	2.42	0.70
2:E:375:LYS:HG3	2:E:376:ASN:H	1.57	0.70
2:H:1878:VAL:HB	2:H:1898:TYR:HE1	1.56	0.70
1:G:1603:GLY:C	1:G:1604:ILE:HD13	2.12	0.70
1:A:1203:ASP:O	1:A:1206:SER:HB3	1.92	0.70
1:A:1378:GLU:HA	1:A:1583:HIS:CA	2.22	0.70
1:A:1603:GLY:C	1:A:1604:ILE:HD13	2.11	0.70
1:A:1636:VAL:HG13	1:A:1657:HIS:CG	2.27	0.70
1:A:769:ILE:HG13	1:A:771:PHE:CE1	2.25	0.70
1:D:1101:SER:C	1:D:1103:ILE:N	2.45	0.70
1:D:1707:THR:O	1:D:1709:GLU:N	2.24	0.70
1:D:679:LEU:HD21	1:D:802:MET:HE1	1.73	0.70
2:H:446:ASN:O	2:H:448:VAL:N	2.25	0.70
2:H:529:VAL:O	2:H:542:GLY:HA2	1.92	0.70
2:B:375:LYS:HG3	2:B:376:ASN:H	1.57	0.70
2:B:384:GLN:O	2:B:386:LEU:N	2.25	0.70
2:E:1812:TYR:O	2:E:1816:ALA:HB3	1.91	0.70
2:H:18:HIS:CD2	2:H:86:LEU:HD22	2.27	0.70
1:A:999:LYS:HD2	1:A:1667:GLU:HG2	1.73	0.70
2:B:1877:ARG:HB3	2:B:1929:LYS:NZ	2.06	0.70
1:G:1208:VAL:CA	1:G:1277:GLU:HG2	2.21	0.69
1:D:1207:GLN:O	1:D:1209:ASP:N	2.21	0.69
1:D:1353:LEU:CA	1:D:1356:PHE:HB2	2.21	0.69
1:D:1398:VAL:HG22	1:D:1399:PRO:O	1.92	0.69
1:D:1583:HIS:CG	1:D:1584:PRO:HA	2.26	0.69
1:D:1238:VAL:CA	1:D:1720:ALA:HB1	2.22	0.69
2:H:159:ILE:HB	2:H:503:ASP:OD1	1.91	0.69
2:E:439:ILE:HD11	2:E:480:VAL:HG13	1.73	0.69
2:B:455:ILE:CD1	2:B:469:ARG:HB2	2.20	0.69
2:B:49:ALA:HA	2:B:118:LYS:HZ2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1856:ALA:HA	2:E:1891:TYR:O	1.91	0.69
2:H:409:PHE:O	2:H:410:SER:HB2	1.91	0.69
1:D:488:UNK:O	1:D:489:UNK:O	2.10	0.69
1:A:1067:LEU:HD13	1:A:1068:LYS:N	2.04	0.69
1:A:1352:THR:O	1:A:1353:LEU:HB3	1.90	0.69
1:A:1652:GLN:NE2	1:A:1653:ALA:O	2.24	0.69
1:A:717:TYR:C	1:A:719:GLN:H	1.92	0.69
1:D:1240:VAL:C	1:D:1242:GLU:H	1.92	0.69
1:D:1404:VAL:HA	1:D:1655:VAL:CG2	2.21	0.69
2:E:259:THR:CG2	2:E:288:SER:HA	2.22	0.69
2:B:1715:VAL:HG13	2:B:1716:ASN:N	2.07	0.69
2:H:1917:ILE:HG22	2:H:1918:LYS:H	1.56	0.69
1:G:1067:LEU:HD22	1:G:1068:LYS:H	1.54	0.69
1:G:1318:THR:HG23	1:G:1323:LYS:HE2	1.74	0.69
1:G:1625:LEU:C	1:G:1625:LEU:HD22	2.12	0.69
1:A:1056:ILE:C	1:A:1058:GLY:H	1.95	0.69
1:A:1104:ARG:O	1:A:1105:LEU:HG	1.92	0.69
1:A:1425:ILE:O	1:A:1426:LEU:HD23	1.93	0.69
1:D:1078:SER:OG	1:D:1085:ASP:HA	1.91	0.69
2:E:260:PRO:HG2	2:E:287:ASP:O	1.91	0.69
2:E:371:VAL:HG12	2:E:371:VAL:O	1.93	0.69
2:E:1723:GLY:HA3	2:E:1733:TYR:CE1	2.27	0.69
2:E:1796:GLY:O	2:E:1797:LEU:HD23	1.91	0.69
1:A:1259:GLY:HA2	1:A:1263:ASP:CB	2.21	0.69
1:G:674:LYS:HG2	1:G:675:ASP:OD2	1.92	0.69
2:E:1884:TRP:H	2:E:1892:ASN:HB2	1.57	0.69
2:H:1536:UNK:C	2:H:1538:UNK:N	2.55	0.69
2:B:1557:UNK:O	2:B:1559:UNK:N	2.25	0.69
1:D:889:GLU:O	1:D:893:VAL:HG22	1.93	0.69
2:B:895:UNK:O	2:B:899:UNK:N	2.25	0.69
2:H:1989:UNK:O	2:H:1991:UNK:N	2.25	0.69
1:G:1062:TYR:CG	1:G:1063:HIS:N	2.60	0.69
1:G:1096:SER:C	1:G:1098:LEU:H	1.94	0.69
1:A:1022:THR:OG1	1:A:1388:MET:HG3	1.92	0.69
1:A:1081:LYS:HD3	1:A:1081:LYS:N	2.07	0.69
1:A:1243:VAL:HG12	1:A:1324:ALA:CA	2.23	0.69
1:A:679:LEU:HD21	1:A:802:MET:HE1	1.73	0.69
1:A:775:PRO:O	1:A:776:GLU:HB2	1.91	0.69
1:D:1248:GLY:HA2	1:D:1330:GLY:CA	2.22	0.69
1:D:1706:TYR:N	1:D:1706:TYR:CD1	2.59	0.69
2:H:367:GLU:HG2	2:H:368:ILE:N	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:263:LEU:C	2:E:265:SER:H	1.94	0.69
2:E:1715:VAL:HG23	2:E:1770:LEU:HB2	1.73	0.69
2:E:1687:ALA:CB	2:E:1787:ALA:HB1	2.21	0.69
2:H:1796:GLY:O	2:H:1797:LEU:HD23	1.92	0.69
2:H:1742:VAL:HG22	2:H:1837:THR:HG23	1.71	0.69
1:G:1342:GLU:H	1:G:1345:ASN:HB2	1.57	0.69
2:H:1859:PRO:HD2	2:H:1889:VAL:HA	1.74	0.69
2:B:1885:LEU:HD22	2:B:1891:TYR:HD2	1.57	0.69
2:H:1020:UNK:C	2:H:1022:UNK:H	2.05	0.69
2:E:851:UNK:O	2:E:853:UNK:N	2.20	0.69
1:D:1144:PHE:CG	1:D:1145:LYS:N	2.60	0.69
1:G:717:TYR:O	1:G:721:ILE:HG12	1.92	0.69
1:G:861:GLN:O	1:G:862:LEU:HD23	1.91	0.69
1:A:1232:TYR:HE1	1:A:1705:PRO:HD3	1.57	0.69
1:D:1208:VAL:O	1:D:1210:PRO:CD	2.36	0.69
1:D:1211:ILE:C	1:D:1213:LEU:N	2.41	0.69
1:D:1215:VAL:HG11	1:D:1283:MET:HG3	1.75	0.69
1:D:1625:LEU:C	1:D:1625:LEU:HD22	2.13	0.69
1:D:1014:ASP:HB2	1:D:1510:ASN:OD1	1.93	0.69
1:D:1469:ALA:O	1:D:1472:LEU:HB3	1.92	0.69
2:E:259:THR:HG21	2:E:288:SER:HA	1.74	0.69
2:B:259:THR:HG21	2:B:288:SER:HA	1.72	0.69
2:E:384:GLN:O	2:E:386:LEU:N	2.26	0.69
2:H:1687:ALA:CB	2:H:1787:ALA:HB1	2.23	0.69
2:E:168:ASP:HB3	2:E:171:GLU:CB	2.19	0.69
2:H:471:LEU:HG	2:H:472:SER:N	2.04	0.69
2:B:170:PHE:HD2	2:B:174:ARG:HH21	1.39	0.69
2:B:1197:UNK:O	2:B:1199:UNK:N	2.25	0.69
2:E:1557:UNK:O	2:E:1559:UNK:N	2.25	0.69
2:E:2036:UNK:HA	2:E:2039:UNK:CB	2.22	0.69
2:H:1557:UNK:O	2:H:1559:UNK:N	2.26	0.69
1:D:1148:HIS:O	1:D:1150:ASP:N	2.25	0.69
1:G:1078:SER:OG	1:G:1085:ASP:HA	1.92	0.69
1:G:1636:VAL:HG13	1:G:1657:HIS:CG	2.28	0.69
1:G:1714:VAL:HG11	1:G:1731:LEU:CD1	2.21	0.69
1:G:864:VAL:HG12	1:G:865:CYS:N	2.07	0.69
1:A:1056:ILE:O	1:A:1058:GLY:N	2.24	0.69
1:A:1318:THR:HG23	1:A:1323:LYS:HE2	1.74	0.69
1:A:1369:ALA:CA	1:A:1547:LYS:HD2	2.21	0.69
1:A:1378:GLU:CB	1:A:1585:LYS:HD2	2.22	0.69
1:A:861:GLN:O	1:A:862:LEU:HD23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1519:ILE:HD11	1:D:1524:GLY:N	2.08	0.69
2:H:439:ILE:HA	2:H:442:ASP:HB2	1.75	0.69
1:G:1450:ARG:HG3	1:G:1450:ARG:HH11	1.57	0.69
2:B:43:GLU:CB	2:B:44:PRO:HD3	2.16	0.69
2:H:65:LEU:O	2:H:69:SER:HB3	1.91	0.69
1:G:678:VAL:CG2	1:G:767:ALA:HB3	2.21	0.69
2:B:1536:UNK:C	2:B:1538:UNK:N	2.55	0.69
2:B:2036:UNK:HA	2:B:2039:UNK:CB	2.22	0.69
2:B:928:UNK:C	2:B:930:UNK:N	2.53	0.69
1:G:1378:GLU:HA	1:G:1583:HIS:CA	2.23	0.69
1:G:803:MET:HE3	1:G:822:VAL:HG11	1.74	0.69
1:G:873:ARG:HG3	1:G:874:GLY:H	1.58	0.69
1:A:1029:PRO:O	1:A:1106:ILE:HG23	1.91	0.69
1:A:846:LEU:O	1:A:849:LEU:HB2	1.93	0.69
1:D:1055:TRP:CH2	1:D:1198:TYR:HD1	2.10	0.69
1:D:1274:ILE:C	1:D:1276:GLN:N	2.44	0.69
1:D:899:LYS:O	1:D:901:MET:N	2.26	0.69
1:A:1450:ARG:HG3	1:A:1450:ARG:HH11	1.57	0.69
2:E:455:ILE:CD1	2:E:469:ARG:HB2	2.20	0.69
2:E:528:ILE:H	2:E:541:TYR:CB	2.05	0.69
2:B:1764:PHE:N	2:B:1764:PHE:CD2	2.59	0.69
2:B:166:THR:HG23	2:B:168:ASP:OD2	1.93	0.69
2:H:1874:VAL:O	2:H:1878:VAL:HG22	1.93	0.69
2:E:170:PHE:HD2	2:E:174:ARG:HH21	1.40	0.69
1:G:1169:LYS:HZ2	1:G:1170:GLY:H	1.41	0.69
1:G:1142:GLU:O	1:G:1144:PHE:N	2.25	0.69
1:A:1178:ALA:O	1:A:1179:LEU:HB3	1.92	0.69
1:A:1152:VAL:O	1:A:1155:PHE:N	2.26	0.69
1:G:1352:THR:O	1:G:1353:LEU:HB3	1.93	0.69
1:G:1411:THR:OG1	1:G:1412:ASP:N	2.23	0.69
1:G:1635:GLY:O	1:G:1636:VAL:C	2.30	0.69
1:G:846:LEU:O	1:G:849:LEU:HB2	1.92	0.69
1:A:1076:VAL:CG1	1:A:1087:LYS:HA	2.21	0.69
1:A:803:MET:HE3	1:A:822:VAL:HG11	1.74	0.69
1:A:1215:VAL:HG11	1:A:1283:MET:HG3	1.75	0.69
1:D:1036:ARG:HD3	1:D:1037:TRP:H	1.58	0.69
2:E:446:ASN:O	2:E:448:VAL:N	2.26	0.69
2:E:529:VAL:HG12	2:E:530:ALA:N	2.08	0.69
2:B:263:LEU:C	2:B:265:SER:H	1.95	0.69
2:B:446:ASN:O	2:B:448:VAL:N	2.26	0.69
2:E:1687:ALA:HB1	2:E:1787:ALA:HB1	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1715:VAL:HG21	2:E:1766:SER:OG	1.91	0.69
2:E:49:ALA:HA	2:E:118:LYS:HZ2	1.56	0.69
1:G:1202:ASP:HA	1:G:1205:ILE:CD1	2.23	0.69
2:B:1867:SER:HA	2:B:1870:ALA:HB3	1.74	0.69
1:A:674:LYS:HG2	1:A:675:ASP:OD2	1.91	0.69
2:H:1883:GLY:N	2:H:1894:GLU:HG2	2.08	0.69
2:B:421:LEU:HB3	2:B:422:PRO:HD2	1.75	0.69
1:A:385:UNK:O	1:A:388:UNK:CB	2.41	0.69
2:H:421:LEU:HB3	2:H:422:PRO:HD2	1.75	0.69
1:D:1133:PRO:HD2	1:D:1173:LEU:HD11	1.74	0.69
1:G:1029:PRO:O	1:G:1106:ILE:HG23	1.93	0.69
1:A:1248:GLY:HA2	1:A:1330:GLY:CA	2.22	0.69
1:A:1373:ARG:HD3	1:A:1547:LYS:HB3	1.73	0.69
1:A:1427:THR:C	1:A:1429:ALA:H	1.97	0.69
1:A:1544:THR:OG1	1:A:1546:THR:HG22	1.93	0.69
1:A:1290:LEU:HA	1:A:1701:LYS:NZ	2.06	0.69
1:A:717:TYR:O	1:A:721:ILE:HG12	1.93	0.69
1:A:864:VAL:HG12	1:A:865:CYS:N	2.08	0.69
1:D:1062:TYR:CD2	1:D:1693:ILE:HB	2.28	0.69
1:D:1215:VAL:HG12	1:D:1332:TYR:CD1	2.28	0.69
1:D:1369:ALA:CA	1:D:1547:LYS:HD2	2.23	0.69
1:D:1378:GLU:HA	1:D:1583:HIS:CA	2.22	0.69
1:D:1605:ILE:HG12	1:D:1606:PRO:HA	1.75	0.69
2:H:260:PRO:HG2	2:H:287:ASP:O	1.93	0.69
2:B:263:LEU:C	2:B:265:SER:N	2.43	0.69
2:B:1715:VAL:HG23	2:B:1770:LEU:HB2	1.75	0.69
2:H:41:LEU:H	2:H:42:PRO:HD2	1.58	0.69
1:G:798:ASN:O	1:G:802:MET:N	2.22	0.69
2:H:1197:UNK:O	2:H:1199:UNK:N	2.26	0.69
2:E:1663:UNK:O	3:F:17:UNK:HA	1.91	0.69
1:G:889:GLU:O	1:G:893:VAL:HG22	1.92	0.69
1:G:1089:VAL:O	1:G:1093:TYR:HB2	1.93	0.69
1:G:1254:VAL:HG13	1:G:1255:SER:H	1.57	0.69
1:G:1605:ILE:HG12	1:G:1606:PRO:HA	1.74	0.69
1:G:1657:HIS:ND1	1:G:1658:PRO:HD2	2.07	0.69
1:A:1119:LYS:C	1:A:1121:MET:H	1.95	0.69
1:A:1119:LYS:HE3	1:A:1121:MET:CB	2.23	0.69
1:A:1240:VAL:HG13	1:A:1242:GLU:CB	2.23	0.69
1:A:705:VAL:HG11	1:A:718:TYR:HE2	1.58	0.69
1:D:1279:PHE:O	1:D:1282:THR:HB	1.93	0.69
1:D:1450:ARG:HH11	1:D:1450:ARG:HG3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:384:GLN:O	2:H:386:LEU:N	2.26	0.69
1:G:1014:ASP:HB2	1:G:1510:ASN:OD1	1.93	0.69
2:B:367:GLU:HG2	2:B:368:ILE:N	2.07	0.69
2:B:371:VAL:O	2:B:371:VAL:HG12	1.92	0.69
2:E:1867:SER:HA	2:E:1870:ALA:HB3	1.74	0.69
2:B:104:LEU:HD12	2:B:107:LYS:HB2	1.75	0.69
2:H:895:UNK:O	2:H:899:UNK:N	2.26	0.69
1:G:1240:VAL:HG13	1:G:1242:GLU:CB	2.23	0.68
1:G:1274:ILE:C	1:G:1276:GLN:N	2.45	0.68
1:G:1519:ILE:HD11	1:G:1524:GLY:N	2.08	0.68
1:A:1109:GLU:O	1:A:1110:LEU:HB2	1.92	0.68
1:A:1115:ASN:ND2	1:A:1115:ASN:N	2.41	0.68
1:D:1275:LEU:HD22	1:D:1275:LEU:O	1.93	0.68
1:D:1318:THR:HG23	1:D:1323:LYS:HE2	1.74	0.68
2:B:528:ILE:H	2:B:541:TYR:CB	2.05	0.68
2:B:1812:TYR:O	2:B:1816:ALA:HB3	1.93	0.68
2:H:1731:GLU:C	2:H:1735:ALA:HB3	2.14	0.68
2:H:1806:GLY:HA3	2:H:1811:GLU:HA	1.74	0.68
2:H:1782:THR:OG1	2:H:1809:LEU:HD21	1.93	0.68
2:H:1812:TYR:O	2:H:1816:ALA:HB3	1.93	0.68
1:G:999:LYS:HD2	1:G:1667:GLU:HG2	1.74	0.68
2:B:1859:PRO:HD2	2:B:1889:VAL:HA	1.73	0.68
1:G:652:UNK:C	1:G:654:UNK:N	2.54	0.68
2:E:895:UNK:O	2:E:899:UNK:N	2.26	0.68
2:E:421:LEU:HB3	2:E:422:PRO:HD2	1.74	0.68
1:A:493:UNK:C	1:A:495:UNK:N	2.52	0.68
1:G:418:UNK:O	1:G:421:UNK:N	2.26	0.68
2:B:959:UNK:C	2:B:961:UNK:N	2.55	0.68
2:B:1355:UNK:O	2:B:1407:UNK:HA	1.93	0.68
1:G:1133:PRO:HD2	1:G:1173:LEU:HD11	1.75	0.68
1:D:1152:VAL:O	1:D:1155:PHE:N	2.26	0.68
1:G:1279:PHE:O	1:G:1282:THR:HB	1.92	0.68
1:G:1376:PHE:O	1:G:1377:MET:HB3	1.93	0.68
1:G:1704:ALA:HB1	1:G:1705:PRO:CD	2.20	0.68
1:A:1368:PRO:HA	1:A:1545:SER:HA	1.75	0.68
1:A:858:TRP:CE3	1:A:862:LEU:HB2	2.28	0.68
1:D:1110:LEU:CD1	1:D:1120:GLU:HG3	2.20	0.68
1:D:1119:LYS:C	1:D:1121:MET:H	1.95	0.68
2:E:1678:MET:HA	2:E:1678:MET:HE2	1.76	0.68
2:B:1731:GLU:C	2:B:1735:ALA:HB3	2.13	0.68
2:E:65:LEU:O	2:E:69:SER:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1741:LYS:HA	1:G:1741:LYS:HE2	1.75	0.68
1:G:1110:LEU:HG	1:G:1188:GLN:HA	1.74	0.68
1:G:1363:ALA:O	1:G:1364:GLU:O	2.11	0.68
1:G:1373:ARG:CG	1:G:1547:LYS:HB3	2.24	0.68
1:G:1583:HIS:CG	1:G:1585:LYS:H	2.10	0.68
1:G:1062:TYR:CD2	1:G:1693:ILE:HB	2.29	0.68
1:A:688:ILE:O	1:A:692:VAL:HG23	1.93	0.68
1:A:866:GLY:O	1:A:867:ALA:HB2	1.93	0.68
1:A:873:ARG:HG3	1:A:874:GLY:H	1.57	0.68
1:D:1085:ASP:O	1:D:1087:LYS:N	2.27	0.68
1:D:1427:THR:C	1:D:1429:ALA:H	1.96	0.68
2:H:439:ILE:HD11	2:H:480:VAL:HG13	1.75	0.68
2:B:1724:GLU:HG2	2:B:1726:GLY:N	2.07	0.68
2:H:1812:TYR:N	2:H:1812:TYR:CD2	2.61	0.68
1:G:493:UNK:C	1:G:495:UNK:N	2.53	0.68
2:H:597:UNK:HA	2:H:600:UNK:CB	2.23	0.68
2:H:616:UNK:O	2:H:618:UNK:N	2.21	0.68
1:A:915:GLU:O	1:A:918:GLN:HB3	1.93	0.68
1:D:504:UNK:CB	1:D:633:UNK:HA	2.24	0.68
1:D:418:UNK:O	1:D:421:UNK:N	2.26	0.68
1:A:889:GLU:HA	1:A:893:VAL:HA	1.76	0.68
1:G:1036:ARG:HD3	1:G:1037:TRP:H	1.57	0.68
1:G:1290:LEU:HA	1:G:1701:LYS:NZ	2.09	0.68
1:G:1706:TYR:N	1:G:1706:TYR:CD1	2.56	0.68
1:D:1111:PHE:O	1:D:1112:ASN:HB2	1.92	0.68
1:D:1546:THR:HG21	1:D:1549:ASN:HB3	1.74	0.68
1:D:1461:ASP:O	1:D:1463:VAL:N	2.27	0.68
2:H:375:LYS:HG3	2:H:376:ASN:H	1.57	0.68
2:E:1737:ILE:O	2:E:1738:PHE:HB3	1.91	0.68
2:E:1789:PHE:CE1	2:E:1798:ILE:HG13	2.29	0.68
2:E:372:ASN:O	2:E:376:ASN:HB2	1.92	0.68
2:B:1715:VAL:C	2:B:1718:THR:HG22	2.12	0.68
2:H:1687:ALA:HB1	2:H:1787:ALA:HB1	1.76	0.68
2:B:168:ASP:HB3	2:B:171:GLU:CB	2.19	0.68
2:E:1266:UNK:C	2:E:1268:UNK:N	2.56	0.68
2:H:87:CYS:O	2:H:90:GLU:HB3	1.93	0.68
1:G:652:UNK:O	1:G:654:UNK:N	2.26	0.68
2:H:1884:TRP:H	2:H:1892:ASN:HB2	1.57	0.68
1:A:889:GLU:O	1:A:893:VAL:HG22	1.94	0.68
1:G:1208:VAL:O	1:G:1210:PRO:CD	2.36	0.68
1:A:1254:VAL:HA	1:A:1257:LEU:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1208:VAL:CA	1:A:1277:GLU:HG2	2.23	0.68
1:A:1376:PHE:O	1:A:1377:MET:HB3	1.92	0.68
1:A:1657:HIS:ND1	1:A:1658:PRO:HD2	2.09	0.68
1:A:722:TYR:O	1:A:724:LYS:N	2.26	0.68
1:D:1370:THR:N	1:D:1547:LYS:HD2	2.07	0.68
2:H:371:VAL:HG12	2:H:371:VAL:O	1.94	0.68
2:B:483:ILE:HG22	2:B:484:ILE:H	1.58	0.68
2:B:529:VAL:HG12	2:B:530:ALA:N	2.08	0.68
2:E:1673:GLU:H	2:E:1676:MET:HE1	1.59	0.68
2:E:43:GLU:CB	2:E:44:PRO:HD3	2.18	0.68
2:H:1764:PHE:N	2:H:1764:PHE:CD2	2.61	0.68
1:A:1738:ILE:O	1:A:1739:GLN:HB2	1.93	0.68
2:B:1192:UNK:O	2:B:1202:UNK:HA	1.93	0.68
2:E:324:LEU:O	2:E:328:LEU:HB2	1.94	0.68
1:G:1106:ILE:HA	1:G:1192:GLY:HA2	1.76	0.68
1:G:1353:LEU:CA	1:G:1356:PHE:HB2	2.22	0.68
1:G:1423:LYS:C	1:G:1425:ILE:N	2.44	0.68
1:D:1609:ARG:HE	1:D:1610:ASN:N	1.92	0.68
2:B:1715:VAL:HG21	2:B:1766:SER:OG	1.93	0.68
2:B:1806:GLY:HA3	2:B:1811:GLU:HA	1.75	0.68
2:H:67:TYR:C	2:H:69:SER:N	2.43	0.68
1:D:380:UNK:O	1:D:381:UNK:C	2.42	0.68
1:A:418:UNK:O	1:A:421:UNK:N	2.26	0.68
1:A:1169:LYS:HZ2	1:A:1170:GLY:H	1.41	0.68
1:G:1056:ILE:C	1:G:1058:GLY:H	1.96	0.68
1:G:1376:PHE:HD1	1:G:1376:PHE:H	1.42	0.68
1:G:1370:THR:N	1:G:1547:LYS:HD2	2.08	0.68
1:A:1197:THR:HA	1:A:1200:ILE:HG22	1.75	0.68
1:A:1215:VAL:HG12	1:A:1332:TYR:CD1	2.29	0.68
2:B:246:LEU:O	2:B:250:VAL:HG23	1.94	0.68
2:B:439:ILE:HD11	2:B:480:VAL:HG13	1.74	0.68
1:D:1342:GLU:H	1:D:1345:ASN:HB2	1.57	0.68
2:H:1867:SER:HA	2:H:1870:ALA:HB3	1.75	0.68
2:H:1885:LEU:HD22	2:H:1891:TYR:HD2	1.56	0.68
2:B:1884:TRP:H	2:B:1892:ASN:HB2	1.59	0.68
1:A:1486:LEU:O	1:A:1490:THR:HB	1.94	0.68
2:B:677:UNK:O	2:B:679:UNK:N	2.26	0.68
2:B:882:UNK:O	2:B:883:UNK:C	2.42	0.68
1:D:1782:UNK:C	1:D:1784:UNK:H	2.07	0.68
1:G:1589:GLY:HA2	1:G:1592:MET:CE	2.23	0.68
1:A:1082:GLU:N	1:A:1083:PRO:CD	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1373:ARG:CG	1:A:1547:LYS:HB3	2.23	0.68
1:A:1062:TYR:CD2	1:A:1693:ILE:HB	2.28	0.68
1:D:1062:TYR:CG	1:D:1063:HIS:N	2.62	0.68
1:D:1240:VAL:HG13	1:D:1242:GLU:CB	2.24	0.68
1:D:1208:VAL:CA	1:D:1277:GLU:HG2	2.22	0.68
1:D:1531:LEU:O	1:D:1532:THR:C	2.32	0.68
2:H:483:ILE:HG22	2:H:484:ILE:H	1.57	0.68
2:E:241:ILE:HG23	2:E:242:GLY:N	2.08	0.68
2:E:286:THR:CG2	2:E:292:PHE:HA	2.24	0.68
2:E:246:LEU:HD13	2:E:296:VAL:HG13	1.76	0.68
1:G:1013:LEU:C	1:G:1013:LEU:HD23	2.15	0.68
2:E:368:ILE:HD11	2:E:377:LEU:HD22	1.75	0.68
1:G:547:UNK:C	1:G:549:UNK:N	2.48	0.68
1:G:1193:TRP:O	1:G:1194:ASN:HB2	1.93	0.68
1:G:858:TRP:CE3	1:G:862:LEU:HB2	2.28	0.68
1:A:1274:ILE:C	1:A:1276:GLN:N	2.44	0.68
1:A:1583:HIS:CG	1:A:1584:PRO:HA	2.29	0.68
1:D:1081:LYS:N	1:D:1081:LYS:HD3	2.08	0.68
1:D:881:ASN:O	1:D:883:ILE:N	2.27	0.68
2:H:1779:PRO:O	2:H:1783:LEU:HB2	1.94	0.68
2:H:23:PRO:HA	2:H:26:SER:HB3	1.75	0.68
2:E:408:PRO:HB2	2:E:412:ARG:HD2	1.76	0.68
2:E:104:LEU:HD12	2:E:107:LYS:HB2	1.76	0.68
1:G:1486:LEU:O	1:G:1490:THR:HB	1.93	0.68
1:A:944:ARG:O	1:A:948:VAL:HG23	1.94	0.68
1:A:504:UNK:CB	1:A:633:UNK:HA	2.24	0.68
2:H:1605:UNK:O	2:H:1607:UNK:N	2.25	0.68
1:G:1189:ILE:HG22	1:G:1190:PRO:N	2.08	0.68
1:G:1531:LEU:O	1:G:1532:THR:C	2.32	0.68
1:G:1369:ALA:HA	1:G:1547:LYS:HG3	1.76	0.68
1:A:1536:LEU:HA	1:A:1638:ALA:HB3	1.76	0.68
1:A:694:GLN:HB3	1:A:725:TYR:CD2	2.29	0.68
1:D:1029:PRO:O	1:D:1106:ILE:HG23	1.94	0.68
1:D:1067:LEU:HD13	1:D:1068:LYS:N	2.05	0.68
1:D:1103:ILE:CA	1:D:1106:ILE:HD12	2.21	0.68
1:D:1106:ILE:HA	1:D:1192:GLY:HA2	1.74	0.68
1:D:1107:GLU:CD	1:D:1108:PRO:HD3	2.15	0.68
1:D:1520:ALA:H	1:D:1521:PRO:CD	2.06	0.68
1:D:1009:LEU:HD12	1:D:1009:LEU:H	1.58	0.68
1:D:1013:LEU:HD23	1:D:1013:LEU:C	2.14	0.68
1:A:1461:ASP:O	1:A:1463:VAL:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:517:HIS:CG	2:H:526:ARG:HE	2.12	0.68
2:E:466:SER:C	2:E:468:LEU:H	1.97	0.68
2:E:483:ILE:HG22	2:E:484:ILE:H	1.58	0.68
2:E:1718:THR:HG23	2:E:1765:ARG:HA	1.76	0.68
2:E:75:SER:C	2:E:77:VAL:H	1.98	0.68
2:E:87:CYS:O	2:E:90:GLU:HB3	1.94	0.68
2:E:170:PHE:HB3	2:E:231:LEU:HD21	1.74	0.68
1:G:889:GLU:HA	1:G:893:VAL:HA	1.76	0.68
2:E:882:UNK:O	2:E:883:UNK:C	2.41	0.68
1:A:412:UNK:O	1:A:414:UNK:N	2.27	0.68
2:H:882:UNK:O	2:H:883:UNK:C	2.41	0.68
1:G:915:GLU:O	1:G:918:GLN:HB3	1.94	0.68
1:G:1168:LEU:HD13	1:G:1169:LYS:N	2.09	0.67
1:G:1119:LYS:C	1:G:1121:MET:H	1.96	0.67
1:G:1226:SER:HB3	1:G:1386:ILE:HD11	1.75	0.67
1:G:1351:ASN:ND2	1:G:1354:GLU:HB2	2.03	0.67
1:G:1419:PRO:HD3	1:G:1646:PHE:HD1	1.59	0.67
1:D:1042:PHE:CD1	1:D:1042:PHE:N	2.62	0.67
1:D:1583:HIS:CG	1:D:1585:LYS:H	2.12	0.67
1:D:1605:ILE:HG13	1:D:1628:SER:HB3	1.74	0.67
1:D:710:PHE:CE1	1:D:736:PRO:HD3	2.24	0.67
2:H:488:VAL:HG12	2:H:490:TRP:H	1.59	0.67
1:G:1461:ASP:O	1:G:1463:VAL:N	2.27	0.67
2:H:1724:GLU:HG2	2:H:1726:GLY:N	2.08	0.67
2:B:65:LEU:O	2:B:69:SER:HB3	1.93	0.67
1:A:907:GLY:C	1:A:909:LEU:N	2.47	0.67
1:D:1482:GLN:O	1:D:1486:LEU:HB2	1.94	0.67
2:H:324:LEU:O	2:H:328:LEU:HB2	1.94	0.67
1:G:944:ARG:O	1:G:948:VAL:HG23	1.94	0.67
1:G:1368:PRO:HA	1:G:1545:SER:HA	1.76	0.67
1:G:710:PHE:CE1	1:G:736:PRO:HD3	2.26	0.67
1:G:905:LEU:CD2	1:G:905:LEU:H	2.06	0.67
1:A:1085:ASP:O	1:A:1087:LYS:N	2.28	0.67
1:A:1426:LEU:HD22	1:A:1650:GLY:HA3	1.76	0.67
1:A:1531:LEU:O	1:A:1532:THR:C	2.32	0.67
1:A:1394:LEU:HD23	1:A:1673:TYR:CE1	2.30	0.67
1:A:869:ILE:HG21	1:A:901:MET:SD	2.33	0.67
1:D:1021:VAL:HA	1:D:1387:ILE:HG22	1.77	0.67
1:D:1423:LYS:C	1:D:1425:ILE:H	1.97	0.67
1:D:803:MET:HB3	1:D:862:LEU:CD1	2.25	0.67
2:H:466:SER:O	2:H:468:LEU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1469:ALA:O	1:G:1472:LEU:HB3	1.94	0.67
2:B:368:ILE:HD11	2:B:377:LEU:HD22	1.75	0.67
2:H:1789:PHE:CE1	2:H:1798:ILE:HG13	2.30	0.67
1:G:679:LEU:HD21	1:G:802:MET:HE1	1.76	0.67
1:D:652:UNK:C	1:D:654:UNK:N	2.55	0.67
2:B:85:ASN:ND2	2:B:134:LYS:HB2	2.09	0.67
2:B:170:PHE:HB3	2:B:231:LEU:HD21	1.76	0.67
2:H:924:UNK:O	2:H:926:UNK:N	2.27	0.67
1:A:1782:UNK:C	1:A:1784:UNK:H	2.08	0.67
2:H:959:UNK:C	2:H:961:UNK:N	2.57	0.67
2:E:1584:UNK:C	2:E:1586:UNK:N	2.53	0.67
1:G:1079:LYS:HD2	1:G:1098:LEU:HD22	1.76	0.67
1:G:1240:VAL:HG22	1:G:1240:VAL:O	1.95	0.67
1:G:881:ASN:O	1:G:883:ILE:N	2.27	0.67
1:A:1389:GLN:HB3	1:A:1392:LEU:CD2	2.24	0.67
1:D:1540:SER:HA	1:D:1575:VAL:CB	2.17	0.67
2:H:263:LEU:C	2:H:265:SER:H	1.95	0.67
2:H:368:ILE:HD11	2:H:377:LEU:HD22	1.75	0.67
2:H:466:SER:C	2:H:468:LEU:H	1.97	0.67
2:E:189:LYS:O	2:E:192:ALA:HB3	1.94	0.67
2:E:466:SER:O	2:E:468:LEU:N	2.28	0.67
2:E:1703:GLY:O	2:E:1704:PHE:HB3	1.95	0.67
2:E:1764:PHE:CD2	2:E:1764:PHE:N	2.59	0.67
2:H:43:GLU:CB	2:H:44:PRO:HD3	2.17	0.67
2:H:1678:MET:HE2	2:H:1678:MET:HA	1.75	0.67
1:A:488:UNK:O	1:A:489:UNK:O	2.11	0.67
1:D:994:GLU:N	1:D:994:GLU:OE1	2.27	0.67
2:E:1326:UNK:C	2:E:1328:UNK:H	2.06	0.67
2:E:1845:ASP:OD1	2:E:1847:LEU:HB3	1.95	0.67
1:A:1139:GLU:O	1:A:1165:VAL:HG21	1.94	0.67
1:G:1299:LYS:CE	1:G:1323:LYS:HZ1	2.08	0.67
1:G:1389:GLN:HB3	1:G:1392:LEU:CD2	2.23	0.67
1:A:1067:LEU:CD2	1:A:1068:LYS:H	2.05	0.67
1:D:712:LYS:HG2	1:D:716:ASP:OD2	1.93	0.67
1:D:869:ILE:HG21	1:D:901:MET:SD	2.34	0.67
1:A:1469:ALA:O	1:A:1472:LEU:HB3	1.95	0.67
2:H:259:THR:CG2	2:H:288:SER:HA	2.23	0.67
2:E:928:UNK:C	2:E:930:UNK:N	2.55	0.67
2:B:924:UNK:C	2:B:926:UNK:N	2.49	0.67
2:H:1009:UNK:C	2:H:1011:UNK:H	2.08	0.67
2:B:1386:UNK:HA	2:B:1413:UNK:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1111:PHE:O	1:G:1112:ASN:HB2	1.94	0.67
1:G:1406:MET:HB3	1:G:1654:ILE:H	1.58	0.67
1:D:1216:LEU:O	1:D:1219:VAL:HG12	1.95	0.67
1:D:1254:VAL:HG13	1:D:1255:SER:H	1.58	0.67
1:D:1290:LEU:HA	1:D:1701:LYS:NZ	2.08	0.67
1:D:1536:LEU:HA	1:D:1638:ALA:HB3	1.76	0.67
1:D:1704:ALA:HB1	1:D:1705:PRO:CD	2.24	0.67
2:B:189:LYS:O	2:B:192:ALA:HB3	1.93	0.67
2:B:517:HIS:CG	2:B:526:ARG:HE	2.12	0.67
1:D:1486:LEU:O	1:D:1490:THR:HB	1.95	0.67
2:B:324:LEU:O	2:B:328:LEU:HB2	1.94	0.67
2:B:1989:UNK:O	2:B:1991:UNK:N	2.27	0.67
2:H:813:UNK:O	2:H:815:UNK:N	2.28	0.67
2:E:597:UNK:HA	2:E:600:UNK:CB	2.25	0.67
1:G:1076:VAL:CG1	1:G:1087:LYS:HA	2.23	0.67
1:G:1085:ASP:O	1:G:1087:LYS:N	2.27	0.67
1:G:1426:LEU:HD22	1:G:1650:GLY:HA3	1.76	0.67
1:G:1403:ILE:CG2	1:G:1656:VAL:HG13	2.19	0.67
1:A:1063:HIS:CD2	1:A:1065:GLY:HA2	2.29	0.67
1:A:1605:ILE:HG13	1:A:1628:SER:HB3	1.75	0.67
1:D:1109:GLU:O	1:D:1110:LEU:HB2	1.95	0.67
1:D:873:ARG:HG3	1:D:874:GLY:H	1.58	0.67
2:H:345:THR:HG22	2:H:346:GLN:O	1.95	0.67
2:H:338:MET:HG3	2:H:380:SER:HB2	1.77	0.67
2:B:1266:UNK:O	2:B:1268:UNK:N	2.26	0.67
2:H:1874:VAL:HG22	2:H:1928:GLN:HE22	1.58	0.67
2:B:1884:TRP:O	2:B:1892:ASN:HB2	1.95	0.67
2:E:1884:TRP:O	2:E:1892:ASN:HB2	1.95	0.67
1:A:1741:LYS:HA	1:A:1741:LYS:HE2	1.77	0.67
1:D:145:UNK:CB	1:D:260:UNK:HA	2.24	0.67
2:B:1584:UNK:C	2:B:1586:UNK:N	2.53	0.67
2:B:670:UNK:HA	2:B:694:UNK:CB	2.25	0.67
1:G:1148:HIS:C	1:G:1150:ASP:H	1.98	0.67
1:G:1082:GLU:N	1:G:1083:PRO:CD	2.58	0.67
1:G:1089:VAL:O	1:G:1091:ALA:N	2.28	0.67
1:G:1099:GLU:O	1:G:1102:GLY:N	2.21	0.67
1:G:1580:LEU:O	1:G:1580:LEU:CG	2.43	0.67
1:A:1055:TRP:CH2	1:A:1198:TYR:HD1	2.13	0.67
1:A:747:ALA:HA	1:A:750:GLU:HB3	1.77	0.67
1:D:1618:LEU:HD13	1:D:1623:TYR:CE2	2.30	0.67
1:D:1657:HIS:ND1	1:D:1658:PRO:HD2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:858:TRP:CE3	1:D:862:LEU:HB2	2.29	0.67
2:H:75:SER:C	2:H:77:VAL:H	1.98	0.67
2:B:471:LEU:HG	2:B:472:SER:N	2.06	0.67
2:E:409:PHE:O	2:E:410:SER:HB2	1.93	0.67
2:B:1883:GLY:N	2:B:1894:GLU:HG2	2.09	0.67
2:B:1020:UNK:C	2:B:1022:UNK:H	2.06	0.67
2:H:1320:UNK:C	2:H:1322:UNK:H	2.07	0.67
2:B:1320:UNK:C	2:B:1322:UNK:H	2.08	0.67
2:E:677:UNK:O	2:E:679:UNK:N	2.27	0.67
1:A:1129:GLU:O	1:A:1175:ILE:O	2.13	0.67
1:G:1425:ILE:O	1:G:1426:LEU:HD23	1.95	0.67
1:G:803:MET:HB3	1:G:862:LEU:CD1	2.25	0.67
1:A:1406:MET:HB3	1:A:1654:ILE:H	1.58	0.67
1:A:1706:TYR:HE2	1:A:1715:TYR:CZ	2.13	0.67
1:A:803:MET:HB3	1:A:862:LEU:CD1	2.24	0.67
1:D:1076:VAL:CG1	1:D:1087:LYS:HA	2.23	0.67
1:D:1119:LYS:HG3	1:D:1122:ILE:H	1.59	0.67
1:D:1376:PHE:O	1:D:1377:MET:HB3	1.95	0.67
1:D:864:VAL:HG12	1:D:865:CYS:N	2.09	0.67
2:E:246:LEU:O	2:E:250:VAL:HG23	1.95	0.67
2:E:488:VAL:HG12	2:E:490:TRP:H	1.60	0.67
2:H:43:GLU:HB2	2:H:44:PRO:CD	2.17	0.67
2:H:1670:GLY:HA2	2:H:1672:GLN:HE22	1.59	0.67
1:G:1259:GLY:HA2	1:G:1263:ASP:CB	2.19	0.67
2:B:41:LEU:H	2:B:42:PRO:HD2	1.58	0.67
2:H:1884:TRP:O	2:H:1892:ASN:HB2	1.95	0.67
1:G:1165:VAL:HG23	1:G:1166:LYS:H	1.59	0.67
1:G:1178:ALA:C	1:G:1179:LEU:HD22	2.15	0.67
1:G:1119:LYS:HE3	1:G:1121:MET:CB	2.24	0.67
1:A:1021:VAL:HA	1:A:1387:ILE:HG22	1.76	0.67
1:D:1056:ILE:C	1:D:1058:GLY:H	1.96	0.67
1:D:1202:ASP:HA	1:D:1205:ILE:CD1	2.25	0.67
1:D:1501:LEU:O	1:D:1504:ALA:HB3	1.95	0.67
2:H:298:LYS:O	2:H:302:VAL:HG23	1.94	0.67
2:B:466:SER:C	2:B:468:LEU:H	1.98	0.67
2:E:1692:ASN:O	2:E:1696:ASN:HB2	1.95	0.67
1:A:1342:GLU:H	1:A:1345:ASN:HB2	1.59	0.67
1:G:797:THR:O	1:G:800:LEU:HB2	1.95	0.67
2:B:409:PHE:O	2:B:410:SER:HB2	1.93	0.67
2:H:408:PRO:HB2	2:H:412:ARG:HD2	1.76	0.67
1:G:488:UNK:O	1:G:489:UNK:O	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:567:UNK:HA	2:B:572:UNK:O	1.95	0.67
1:A:1148:HIS:C	1:A:1150:ASP:H	1.99	0.67
1:G:1037:TRP:CD2	1:G:1598:GLN:HG2	2.30	0.67
1:G:1039:MET:HA	1:G:1039:MET:HE3	1.77	0.67
1:G:1207:GLN:O	1:G:1209:ASP:N	2.22	0.67
1:G:1605:ILE:HG13	1:G:1628:SER:HB3	1.77	0.67
1:G:705:VAL:HG11	1:G:718:TYR:HE2	1.60	0.67
1:A:1332:TYR:H	1:A:1587:ALA:CB	2.04	0.67
1:A:1586:GLY:O	1:A:1588:ALA:N	2.28	0.67
1:A:717:TYR:HD2	1:A:718:TYR:CE1	2.13	0.67
1:D:1577:GLN:HE22	1:D:1591:TRP:C	1.98	0.67
1:D:864:VAL:HG12	1:D:865:CYS:H	1.60	0.67
2:E:439:ILE:HA	2:E:442:ASP:HB2	1.76	0.67
2:B:1692:ASN:O	2:B:1696:ASN:HB2	1.95	0.67
2:B:1733:TYR:HE1	2:B:1760:THR:HG23	1.60	0.67
2:B:851:UNK:O	2:B:853:UNK:N	2.23	0.67
2:H:1845:ASP:OD1	2:H:1847:LEU:HB3	1.94	0.67
1:G:1369:ALA:O	1:G:1370:THR:HG23	1.96	0.66
1:G:1706:TYR:HE2	1:G:1715:TYR:CZ	2.14	0.66
1:G:717:TYR:HD2	1:G:718:TYR:CE1	2.13	0.66
1:A:1062:TYR:CG	1:A:1063:HIS:N	2.62	0.66
1:A:1369:ALA:O	1:A:1370:THR:HG23	1.95	0.66
1:A:1640:SER:HB2	1:A:1654:ILE:HB	1.77	0.66
1:A:1673:TYR:O	1:A:1675:ALA:N	2.28	0.66
1:D:1406:MET:HB3	1:D:1654:ILE:H	1.58	0.66
1:D:1529:TYR:O	1:D:1530:GLY:C	2.33	0.66
1:D:1578:LYS:HE3	1:D:1584:PRO:HB3	1.77	0.66
1:D:866:GLY:O	1:D:867:ALA:HB2	1.94	0.66
1:A:1009:LEU:HD12	1:A:1009:LEU:H	1.60	0.66
2:H:366:VAL:CG2	2:H:381:GLY:HA3	2.23	0.66
2:E:1772:SER:HA	2:E:1777:THR:OG1	1.95	0.66
1:A:1264:ARG:C	1:A:1266:LYS:N	2.47	0.66
2:H:18:HIS:O	2:H:22:VAL:HG23	1.95	0.66
2:B:18:HIS:CD2	2:B:86:LEU:HD22	2.30	0.66
2:E:1266:UNK:O	2:E:1268:UNK:N	2.28	0.66
2:B:1874:VAL:O	2:B:1878:VAL:HG22	1.95	0.66
2:E:390:ASN:HA	2:E:393:LEU:HD23	1.77	0.66
2:B:390:ASN:HA	2:B:393:LEU:HD23	1.77	0.66
2:H:104:LEU:HD12	2:H:107:LYS:HB2	1.75	0.66
2:E:881:UNK:O	2:E:883:UNK:N	2.28	0.66
2:H:1192:UNK:O	2:H:1202:UNK:HA	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1845:ASP:OD1	2:B:1847:LEU:HB3	1.95	0.66
2:E:1009:UNK:C	2:E:1011:UNK:H	2.08	0.66
1:D:1168:LEU:CD2	1:D:1169:LYS:H	2.06	0.66
1:G:1107:GLU:CD	1:G:1108:PRO:HD3	2.15	0.66
1:G:1215:VAL:HG12	1:G:1332:TYR:CD1	2.29	0.66
1:G:1249:SER:HB3	1:G:1301:PRO:HD2	1.77	0.66
1:A:1079:LYS:HD2	1:A:1098:LEU:HD22	1.77	0.66
1:A:1203:ASP:N	1:A:1205:ILE:HG12	2.08	0.66
1:A:1254:VAL:HG13	1:A:1255:SER:H	1.59	0.66
1:A:1373:ARG:HG2	1:A:1547:LYS:CD	2.08	0.66
1:D:1328:ILE:O	1:D:1329:VAL:HG12	1.94	0.66
1:D:1426:LEU:HD22	1:D:1650:GLY:HA3	1.74	0.66
2:B:246:LEU:HD13	2:B:296:VAL:HG13	1.75	0.66
2:B:345:THR:HG22	2:B:346:GLN:O	1.94	0.66
2:B:528:ILE:HG23	2:B:529:VAL:N	2.08	0.66
2:E:345:THR:HG22	2:E:346:GLN:O	1.95	0.66
2:E:18:HIS:CD2	2:E:86:LEU:HD22	2.30	0.66
2:E:41:LEU:H	2:E:42:PRO:HD2	1.59	0.66
2:B:1266:UNK:C	2:B:1268:UNK:N	2.55	0.66
2:E:1903:ASP:CG	2:E:1907:LEU:HD21	2.15	0.66
2:E:1883:GLY:N	2:E:1894:GLU:HG2	2.10	0.66
2:E:1299:UNK:C	2:E:1301:UNK:N	2.56	0.66
2:E:1192:UNK:O	2:E:1202:UNK:HA	1.94	0.66
2:E:670:UNK:HA	2:E:694:UNK:CB	2.25	0.66
2:E:1355:UNK:O	2:E:1407:UNK:HA	1.95	0.66
1:G:1129:GLU:O	1:G:1175:ILE:O	2.14	0.66
1:G:1063:HIS:CD2	1:G:1065:GLY:HA2	2.30	0.66
1:G:719:GLN:HG3	1:G:720:SER:N	2.10	0.66
1:A:1279:PHE:O	1:A:1282:THR:HB	1.95	0.66
1:A:850:PHE:CD2	1:A:864:VAL:HG11	2.30	0.66
1:D:853:TRP:CZ2	1:D:859:ALA:HB1	2.31	0.66
1:A:1501:LEU:HD22	1:A:1505:GLN:NE2	2.08	0.66
2:B:1678:MET:HA	2:B:1678:MET:HE2	1.77	0.66
2:B:1779:PRO:O	2:B:1783:LEU:HB2	1.95	0.66
1:D:1343:PHE:O	1:D:1345:ASN:N	2.29	0.66
2:E:23:PRO:HA	2:E:26:SER:CB	2.26	0.66
2:B:408:PRO:HB2	2:B:412:ARG:HD2	1.76	0.66
2:B:1869:GLU:O	2:B:1873:TYR:HB2	1.96	0.66
2:E:1984:UNK:C	2:E:1986:UNK:N	2.54	0.66
2:H:670:UNK:HA	2:H:694:UNK:CB	2.25	0.66
2:H:1386:UNK:HA	2:H:1413:UNK:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:UNK:CB	1:A:260:UNK:HA	2.25	0.66
1:G:1056:ILE:O	1:G:1058:GLY:N	2.28	0.66
1:G:1520:ALA:N	1:G:1521:PRO:CD	2.58	0.66
1:A:1202:ASP:HA	1:A:1205:ILE:CD1	2.24	0.66
1:A:1224:ILE:O	1:A:1224:ILE:HG13	1.94	0.66
1:D:1189:ILE:HG22	1:D:1190:PRO:N	2.09	0.66
1:D:747:ALA:HA	1:D:750:GLU:HB3	1.78	0.66
2:H:529:VAL:HG12	2:H:530:ALA:N	2.10	0.66
2:B:439:ILE:HA	2:B:442:ASP:HB2	1.76	0.66
2:B:1009:UNK:C	2:B:1011:UNK:H	2.09	0.66
2:E:616:UNK:O	2:E:618:UNK:N	2.22	0.66
1:A:1162:GLU:OE1	1:A:1163:TYR:HE1	1.79	0.66
1:G:1212:THR:HG23	1:G:1283:MET:SD	2.34	0.66
1:A:1311:SER:O	1:A:1312:VAL:C	2.34	0.66
1:A:1369:ALA:HA	1:A:1547:LYS:HG3	1.77	0.66
1:D:1188:GLN:HG2	1:D:1352:THR:CG2	2.25	0.66
1:D:1248:GLY:HA2	1:D:1330:GLY:HA2	1.77	0.66
2:E:536:ASN:O	2:E:538:ASP:N	2.29	0.66
1:G:1259:GLY:CA	1:G:1263:ASP:HB2	2.23	0.66
2:E:18:HIS:O	2:E:22:VAL:HG23	1.96	0.66
2:E:1390:UNK:HA	2:E:1408:UNK:CA	2.25	0.66
2:E:1020:UNK:C	2:E:1022:UNK:H	2.08	0.66
1:G:1216:LEU:O	1:G:1219:VAL:HG12	1.96	0.66
1:G:1215:VAL:HG11	1:G:1283:MET:HG3	1.77	0.66
1:G:1394:LEU:HD23	1:G:1673:TYR:CE1	2.31	0.66
1:A:1244:GLY:HA3	1:A:1294:SER:OG	1.96	0.66
1:A:1394:LEU:HA	1:A:1673:TYR:CD1	2.31	0.66
1:D:769:ILE:HG13	1:D:771:PHE:CE1	2.30	0.66
2:H:302:VAL:HG12	2:H:306:ILE:HD11	1.78	0.66
2:E:528:ILE:HG23	2:E:529:VAL:N	2.10	0.66
2:B:1703:GLY:O	2:B:1704:PHE:HB3	1.95	0.66
2:H:1703:GLY:O	2:H:1704:PHE:HB3	1.96	0.66
2:B:75:SER:C	2:B:77:VAL:H	1.98	0.66
2:B:1390:UNK:HA	2:B:1408:UNK:CA	2.25	0.66
2:H:677:UNK:O	2:H:679:UNK:N	2.28	0.66
1:A:435:UNK:O	1:A:436:UNK:O	2.12	0.66
2:B:1326:UNK:C	2:B:1328:UNK:H	2.06	0.66
2:B:1984:UNK:C	2:B:1986:UNK:N	2.54	0.66
1:D:1129:GLU:O	1:D:1175:ILE:O	2.13	0.66
1:A:1042:PHE:CD1	1:A:1042:PHE:N	2.62	0.66
1:A:1577:GLN:HE22	1:A:1591:TRP:C	1.98	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:679:LEU:HD13	1:A:679:LEU:O	1.94	0.66
1:D:1197:THR:HA	1:D:1200:ILE:HG22	1.77	0.66
1:D:1271:GLN:O	1:D:1274:ILE:HB	1.96	0.66
2:H:286:THR:CG2	2:H:292:PHE:HA	2.25	0.66
2:E:517:HIS:CG	2:E:526:ARG:HE	2.13	0.66
2:B:1792:LEU:HA	2:B:1797:LEU:HD12	1.77	0.66
1:G:764:ASP:OD1	1:G:810:LYS:NZ	2.27	0.66
1:D:1738:ILE:O	1:D:1739:GLN:HB2	1.95	0.66
1:D:652:UNK:O	1:D:654:UNK:N	2.29	0.66
1:A:652:UNK:C	1:A:654:UNK:N	2.56	0.66
1:G:1268:GLU:HB3	1:G:1269:PRO:CD	2.25	0.66
1:D:1165:VAL:HG23	1:D:1166:LYS:H	1.61	0.66
1:G:1299:LYS:NZ	1:G:1323:LYS:HZ1	1.93	0.66
1:G:864:VAL:HG12	1:G:865:CYS:H	1.61	0.66
1:A:1423:LYS:C	1:A:1425:ILE:N	2.46	0.66
1:A:1030:TRP:CZ2	1:A:1580:LEU:HD11	2.30	0.66
1:A:905:LEU:CD2	1:A:905:LEU:H	2.09	0.66
1:D:1369:ALA:HA	1:D:1547:LYS:HG3	1.77	0.66
1:A:1455:ARG:HA	1:A:1459:ILE:HG23	1.78	0.66
1:A:1478:PRO:CB	1:A:1481:ASP:HB2	2.25	0.66
1:A:764:ASP:OD1	1:A:810:LYS:NZ	2.28	0.66
2:H:1871:LEU:HD23	2:H:1872:GLN:N	2.11	0.66
2:B:390:ASN:CA	2:B:393:LEU:HB3	2.26	0.66
2:B:221:ASN:ND2	2:B:221:ASN:N	2.44	0.66
2:H:1173:UNK:HA	2:H:1182:UNK:CA	2.26	0.66
2:H:851:UNK:C	2:H:853:UNK:H	2.09	0.66
1:A:398:UNK:C	1:A:400:UNK:N	2.58	0.66
1:G:1403:ILE:C	1:G:1655:VAL:HG22	2.16	0.66
1:A:1328:ILE:O	1:A:1329:VAL:HG12	1.95	0.66
1:A:1378:GLU:HB2	1:A:1585:LYS:HD2	1.77	0.66
1:A:739:GLN:HB3	1:A:794:ILE:CG1	2.25	0.66
1:D:1226:SER:HB3	1:D:1386:ILE:HD11	1.78	0.66
2:B:1718:THR:HG23	2:B:1765:ARG:HA	1.76	0.66
2:H:166:THR:HG23	2:H:168:ASP:OD2	1.96	0.66
2:H:23:PRO:HA	2:H:26:SER:CB	2.26	0.66
1:D:764:ASP:OD1	1:D:810:LYS:NZ	2.28	0.66
2:E:1869:GLU:O	2:E:1873:TYR:HB2	1.96	0.66
2:H:418:ASN:HD22	2:H:418:ASN:N	1.93	0.66
2:E:1347:UNK:C	2:E:1349:UNK:N	2.59	0.66
2:H:744:UNK:C	2:H:746:UNK:N	2.57	0.66
2:H:1584:UNK:C	2:H:1586:UNK:N	2.54	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1591:UNK:O	2:H:1593:UNK:N	2.28	0.66
1:G:145:UNK:CB	1:G:260:UNK:HA	2.25	0.66
1:G:839:TYR:HE1	1:G:843:LYS:HE2	1.60	0.66
1:D:1169:LYS:HZ2	1:D:1170:GLY:H	1.44	0.66
1:G:1079:LYS:HG2	1:G:1080:THR:OG1	1.96	0.66
1:A:1019:ILE:HD11	1:A:1319:ILE:HG21	1.78	0.66
1:A:1079:LYS:HG2	1:A:1080:THR:OG1	1.95	0.66
1:A:1586:GLY:C	1:A:1588:ALA:N	2.48	0.66
1:A:1618:LEU:HD13	1:A:1623:TYR:CE2	2.30	0.66
1:A:799:ILE:O	1:A:802:MET:HB2	1.96	0.66
1:D:1063:HIS:CD2	1:D:1065:GLY:HA2	2.30	0.66
1:D:1254:VAL:HA	1:D:1257:LEU:HB2	1.75	0.66
1:D:748:LEU:O	1:D:752:ILE:HG13	1.94	0.66
2:E:274:SER:O	2:E:483:ILE:HD11	1.96	0.66
2:B:488:VAL:HG12	2:B:490:TRP:H	1.61	0.66
2:E:1776:PHE:C	2:E:1779:PRO:HD2	2.16	0.66
1:G:681:THR:OG1	1:G:770:PRO:HA	1.95	0.66
2:H:1390:UNK:HA	2:H:1408:UNK:CA	2.25	0.66
2:H:1903:ASP:CG	2:H:1907:LEU:HD21	2.16	0.66
2:H:1984:UNK:C	2:H:1986:UNK:N	2.53	0.66
1:G:1042:PHE:CD1	1:G:1042:PHE:N	2.63	0.65
1:G:1423:LYS:C	1:G:1425:ILE:H	1.98	0.65
1:G:1546:THR:HG21	1:G:1549:ASN:HB3	1.78	0.65
1:A:1529:TYR:O	1:A:1530:GLY:C	2.34	0.65
1:D:1019:ILE:HD11	1:D:1319:ILE:HG21	1.77	0.65
1:D:1369:ALA:O	1:D:1370:THR:HG23	1.96	0.65
1:D:681:THR:OG1	1:D:770:PRO:HA	1.96	0.65
1:A:1012:LEU:O	1:A:1013:LEU:HB3	1.95	0.65
2:H:490:TRP:CZ3	2:H:512:LEU:HD13	2.31	0.65
1:G:1009:LEU:H	1:G:1009:LEU:HD12	1.60	0.65
2:B:490:TRP:CZ3	2:B:512:LEU:HD13	2.31	0.65
2:H:1732:ASN:O	2:H:1737:ILE:HG22	1.96	0.65
2:B:23:PRO:HA	2:B:26:SER:CB	2.25	0.65
1:D:889:GLU:HA	1:D:893:VAL:HA	1.76	0.65
2:H:341:ILE:HG22	2:H:341:ILE:O	1.97	0.65
1:D:1268:GLU:HB3	1:D:1269:PRO:CD	2.27	0.65
2:E:813:UNK:O	2:E:815:UNK:N	2.29	0.65
1:A:380:UNK:O	1:A:381:UNK:C	2.44	0.65
1:G:1144:PHE:CG	1:G:1145:LYS:N	2.63	0.65
1:A:1168:LEU:HD13	1:A:1169:LYS:N	2.10	0.65
1:D:1178:ALA:C	1:D:1179:LEU:HD22	2.16	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1193:TRP:O	1:A:1194:ASN:HB2	1.94	0.65
1:A:748:LEU:O	1:A:752:ILE:HG13	1.96	0.65
1:D:1082:GLU:N	1:D:1083:PRO:CD	2.58	0.65
1:D:1580:LEU:O	1:D:1580:LEU:CG	2.44	0.65
1:D:1589:GLY:HA2	1:D:1592:MET:CE	2.26	0.65
1:D:705:VAL:HG11	1:D:718:TYR:HE2	1.60	0.65
1:D:925:ASP:O	1:D:926:LEU:HD23	1.95	0.65
1:D:1012:LEU:O	1:D:1013:LEU:HB3	1.96	0.65
2:B:238:CYS:HA	2:B:275:GLN:HE22	1.61	0.65
1:D:1471:LYS:HD3	1:D:1474:ALA:HB2	1.78	0.65
2:E:1779:PRO:O	2:E:1783:LEU:HB2	1.96	0.65
2:H:85:ASN:ND2	2:H:134:LYS:HB2	2.11	0.65
2:B:881:UNK:O	2:B:883:UNK:N	2.29	0.65
1:G:552:UNK:O	1:G:554:UNK:N	2.20	0.65
1:D:1150:ASP:HB3	1:D:1151:LYS:HD2	1.78	0.65
1:G:1115:ASN:N	1:G:1115:ASN:ND2	2.44	0.65
1:A:1403:ILE:C	1:A:1655:VAL:HG22	2.17	0.65
1:A:679:LEU:HD12	1:A:679:LEU:H	1.61	0.65
1:A:899:LYS:O	1:A:901:MET:N	2.29	0.65
1:D:1095:THR:O	1:D:1096:SER:HB2	1.97	0.65
1:D:1207:GLN:O	1:D:1208:VAL:HG22	1.95	0.65
1:D:1527:ALA:O	1:D:1528:THR:C	2.32	0.65
1:D:1455:ARG:HA	1:D:1459:ILE:HG23	1.78	0.65
1:A:1013:LEU:HD23	1:A:1013:LEU:C	2.16	0.65
2:E:298:LYS:O	2:E:302:VAL:HG23	1.97	0.65
1:G:1012:LEU:O	1:G:1013:LEU:HB3	1.95	0.65
2:B:444:VAL:HA	2:B:449:SER:OG	1.97	0.65
1:D:1478:PRO:CB	1:D:1481:ASP:HB2	2.26	0.65
2:H:1692:ASN:O	2:H:1696:ASN:HB2	1.97	0.65
2:B:59:GLU:OE1	2:B:122:LEU:HA	1.97	0.65
2:E:1871:LEU:HD23	2:E:1872:GLN:N	2.12	0.65
2:H:390:ASN:HA	2:H:393:LEU:HD23	1.77	0.65
2:B:1173:UNK:HA	2:B:1182:UNK:CA	2.26	0.65
2:H:1347:UNK:C	2:H:1349:UNK:N	2.58	0.65
2:E:1386:UNK:HA	2:E:1413:UNK:HA	1.78	0.65
2:H:1299:UNK:C	2:H:1301:UNK:N	2.56	0.65
2:E:1625:UNK:HA	2:E:1642:UNK:HA	1.77	0.65
2:H:1625:UNK:HA	2:H:1642:UNK:HA	1.79	0.65
1:G:1021:VAL:HA	1:G:1387:ILE:HG22	1.77	0.65
1:G:1618:LEU:HD13	1:G:1623:TYR:CE2	2.32	0.65
1:G:1394:LEU:HA	1:G:1673:TYR:CD1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:822:VAL:HG12	1:G:824:LEU:HD23	1.78	0.65
1:A:1240:VAL:HG22	1:A:1240:VAL:O	1.94	0.65
1:A:1423:LYS:C	1:A:1425:ILE:H	2.00	0.65
1:A:1037:TRP:CD2	1:A:1598:GLN:HG2	2.31	0.65
1:A:1623:TYR:O	1:A:1624:VAL:O	2.15	0.65
1:A:826:MET:HE1	1:A:847:GLU:HG3	1.78	0.65
1:A:864:VAL:HG12	1:A:865:CYS:H	1.60	0.65
1:D:1056:ILE:O	1:D:1058:GLY:N	2.29	0.65
1:D:1189:ILE:CG2	1:D:1377:MET:SD	2.84	0.65
1:D:1389:GLN:HB3	1:D:1392:LEU:CD2	2.23	0.65
1:D:1426:LEU:O	1:D:1428:THR:N	2.29	0.65
1:D:905:LEU:H	1:D:905:LEU:CD2	2.09	0.65
2:B:238:CYS:HA	2:B:275:GLN:CD	2.17	0.65
1:A:903:PHE:HA	1:A:906:LEU:CD2	2.26	0.65
1:A:884:ILE:HG22	1:A:887:GLY:HA3	1.78	0.65
2:E:1332:UNK:C	2:E:1334:UNK:N	2.57	0.65
2:E:1541:UNK:HA	2:E:1628:UNK:CB	2.25	0.65
1:G:435:UNK:O	1:G:436:UNK:O	2.13	0.65
2:B:597:UNK:HA	2:B:600:UNK:CB	2.26	0.65
1:D:398:UNK:C	1:D:400:UNK:N	2.57	0.65
2:H:1542:UNK:N	2:H:1628:UNK:HA	2.12	0.65
1:A:1144:PHE:CG	1:A:1145:LYS:N	2.63	0.65
1:A:1155:PHE:C	1:A:1171:ALA:HB2	2.17	0.65
1:D:1151:LYS:H	1:D:1151:LYS:HD2	1.61	0.65
1:G:1527:ALA:O	1:G:1528:THR:C	2.34	0.65
1:G:1369:ALA:CA	1:G:1547:LYS:HD2	2.26	0.65
1:A:1093:TYR:O	1:A:1094:GLU:HB3	1.96	0.65
1:A:1189:ILE:CG2	1:A:1377:MET:SD	2.84	0.65
1:D:694:GLN:HB3	1:D:725:TYR:CD2	2.31	0.65
1:D:838:MET:HA	1:D:841:GLU:OE1	1.95	0.65
2:H:302:VAL:O	2:H:306:ILE:HG13	1.96	0.65
2:B:144:ALA:O	2:B:146:PHE:N	2.29	0.65
1:A:1471:LYS:HD3	1:A:1474:ALA:HB2	1.78	0.65
2:E:166:THR:HG23	2:E:168:ASP:OD2	1.97	0.65
2:E:115:THR:OG1	2:E:118:LYS:HB2	1.97	0.65
1:G:1732:THR:O	1:G:1733:PHE:O	2.14	0.65
2:E:567:UNK:HA	2:E:572:UNK:O	1.95	0.65
2:B:806:UNK:HA	2:B:1034:UNK:CB	2.26	0.65
2:E:1051:UNK:C	2:E:1053:UNK:N	2.58	0.65
1:G:1130:ASP:O	1:G:1131:LEU:O	2.13	0.65
1:G:1174:TYR:O	1:G:1175:ILE:CD1	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1174:TYR:O	1:D:1175:ILE:CD1	2.44	0.65
1:G:1373:ARG:CD	1:G:1547:LYS:HB3	2.27	0.65
1:G:1583:HIS:HB2	1:G:1585:LYS:HG2	1.77	0.65
1:G:1586:GLY:C	1:G:1588:ALA:N	2.49	0.65
1:A:1707:THR:HG23	1:A:1710:LEU:HG	1.79	0.65
1:A:839:TYR:HE1	1:A:843:LYS:HE2	1.62	0.65
1:D:1187:GLY:C	1:D:1188:GLN:NE2	2.50	0.65
1:D:1373:ARG:CG	1:D:1547:LYS:HB3	2.27	0.65
1:G:1455:ARG:O	1:G:1456:GLU:HB2	1.96	0.65
1:G:1455:ARG:HA	1:G:1459:ILE:HG23	1.79	0.65
2:B:466:SER:O	2:B:468:LEU:N	2.29	0.65
2:H:1791:ASP:O	2:H:1794:SER:HB3	1.96	0.65
2:B:494:THR:HB	2:B:520:LYS:HZ2	1.62	0.65
1:A:552:UNK:O	1:A:554:UNK:N	2.21	0.65
1:G:1311:SER:O	1:G:1312:VAL:C	2.34	0.65
1:G:1248:GLY:HA2	1:G:1330:GLY:HA2	1.78	0.65
1:G:716:ASP:C	1:G:719:GLN:HB3	2.17	0.65
1:G:925:ASP:O	1:G:926:LEU:HD23	1.97	0.65
1:A:1520:ALA:N	1:A:1521:PRO:CD	2.58	0.65
1:A:1589:GLY:HA2	1:A:1592:MET:CE	2.27	0.65
1:A:1625:LEU:HD22	1:A:1625:LEU:O	1.97	0.65
1:A:1697:LEU:O	1:A:1698:PHE:HB3	1.95	0.65
1:D:1079:LYS:HG2	1:D:1080:THR:OG1	1.96	0.65
1:D:1240:VAL:O	1:D:1240:VAL:HG22	1.97	0.65
2:E:444:VAL:HA	2:E:449:SER:OG	1.97	0.65
2:B:483:ILE:CG2	2:B:484:ILE:N	2.57	0.65
1:G:1478:PRO:CB	1:G:1481:ASP:HB2	2.26	0.65
2:E:1812:TYR:N	2:E:1812:TYR:CD2	2.63	0.65
2:B:1732:ASN:O	2:B:1737:ILE:HG22	1.97	0.65
1:G:679:LEU:HD11	1:G:768:ILE:HG12	1.79	0.65
2:H:92:GLU:HA	2:H:96:LEU:CD1	2.26	0.65
2:E:85:ASN:ND2	2:E:134:LYS:HB2	2.11	0.65
2:E:221:ASN:N	2:E:221:ASN:ND2	2.44	0.65
2:E:1320:UNK:C	2:E:1322:UNK:H	2.09	0.65
1:G:818:ARG:HG2	1:G:818:ARG:O	1.97	0.65
1:G:380:UNK:O	1:G:381:UNK:C	2.45	0.65
1:A:1174:TYR:O	1:A:1175:ILE:CD1	2.43	0.65
1:D:1130:ASP:O	1:D:1131:LEU:O	2.15	0.65
1:G:1188:GLN:HG2	1:G:1352:THR:CG2	2.23	0.65
1:A:1216:LEU:O	1:A:1219:VAL:HG12	1.95	0.65
1:A:1419:PRO:HD3	1:A:1646:PHE:HD1	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1376:PHE:H	1:D:1376:PHE:HD1	1.45	0.65
1:D:822:VAL:HG12	1:D:824:LEU:HD23	1.78	0.65
2:H:246:LEU:HD13	2:H:296:VAL:HG13	1.77	0.65
2:E:1670:GLY:HA2	2:E:1672:GLN:HE22	1.61	0.65
2:E:344:LEU:HD11	2:E:348:GLN:HB3	1.79	0.65
2:H:1673:GLU:H	2:H:1676:MET:HE1	1.60	0.65
2:H:1715:VAL:CG2	2:H:1770:LEU:H	2.10	0.65
2:H:1718:THR:HG23	2:H:1765:ARG:HA	1.77	0.65
2:H:1772:SER:HA	2:H:1777:THR:OG1	1.97	0.65
2:H:332:GLU:OE2	2:H:390:ASN:HB3	1.97	0.65
2:H:390:ASN:CA	2:H:393:LEU:HB3	2.27	0.65
2:E:1874:VAL:O	2:E:1878:VAL:HG22	1.97	0.65
2:E:92:GLU:HA	2:E:96:LEU:CD1	2.27	0.65
1:A:1482:GLN:O	1:A:1486:LEU:HB2	1.96	0.65
2:B:744:UNK:C	2:B:746:UNK:N	2.54	0.65
1:G:1782:UNK:C	1:G:1784:UNK:H	2.09	0.65
2:E:653:UNK:C	2:E:655:UNK:N	2.56	0.65
1:A:994:GLU:N	1:A:994:GLU:OE1	2.30	0.65
1:G:1142:GLU:HA	1:G:1145:LYS:HB2	1.79	0.65
1:A:1165:VAL:HG23	1:A:1166:LYS:H	1.61	0.65
1:A:1096:SER:O	1:A:1098:LEU:N	2.29	0.65
1:A:1527:ALA:O	1:A:1528:THR:C	2.35	0.65
1:A:1553:GLU:C	1:A:1555:ALA:H	2.00	0.65
1:D:1193:TRP:O	1:D:1194:ASN:HB2	1.96	0.65
1:D:1427:THR:C	1:D:1429:ALA:N	2.49	0.65
1:D:1455:ARG:O	1:D:1456:GLU:HB2	1.95	0.65
1:G:1501:LEU:O	1:G:1504:ALA:HB3	1.97	0.65
2:B:349:VAL:O	2:B:353:VAL:HG23	1.97	0.65
2:E:1732:ASN:O	2:E:1737:ILE:HG22	1.97	0.65
1:A:652:UNK:O	1:A:654:UNK:N	2.30	0.65
2:E:332:GLU:OE2	2:E:390:ASN:HB3	1.97	0.65
2:E:418:ASN:HD22	2:E:418:ASN:N	1.93	0.65
2:B:1542:UNK:N	2:B:1628:UNK:HA	2.11	0.65
2:E:806:UNK:HA	2:E:1034:UNK:CB	2.27	0.65
1:G:1376:PHE:CD2	1:G:1584:PRO:HD2	2.32	0.65
1:G:1673:TYR:O	1:G:1675:ALA:N	2.30	0.65
1:A:1095:THR:O	1:A:1096:SER:HB2	1.95	0.65
1:A:1107:GLU:HB3	1:A:1108:PRO:HD2	1.76	0.65
1:A:1189:ILE:HG22	1:A:1190:PRO:N	2.08	0.65
1:A:1326:ILE:HA	1:A:1387:ILE:O	1.96	0.65
1:D:1351:ASN:ND2	1:D:1353:LEU:O	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:850:PHE:CD2	1:D:864:VAL:HG11	2.32	0.65
2:E:250:VAL:O	2:E:253:ALA:HB3	1.97	0.65
2:E:310:CYS:HB3	2:E:432:LEU:HD11	1.79	0.65
1:G:1445:MET:O	1:G:1447:TYR:N	2.30	0.65
1:G:1335:PHE:CE1	1:G:1340:SER:HB2	2.19	0.65
2:H:1869:GLU:O	2:H:1873:TYR:HB2	1.96	0.65
1:G:1482:GLN:O	1:G:1486:LEU:HB2	1.97	0.65
2:E:1536:UNK:C	2:E:1538:UNK:N	2.58	0.65
2:H:1919:LEU:O	2:H:1919:LEU:HD23	1.97	0.65
1:D:503:UNK:C	1:D:505:UNK:H	2.09	0.65
2:E:1591:UNK:O	2:E:1593:UNK:N	2.31	0.65
1:D:1162:GLU:OE1	1:D:1163:TYR:HE1	1.80	0.64
1:G:1194:ASN:O	1:G:1195:ALA:HB2	1.97	0.64
1:G:1529:TYR:O	1:G:1530:GLY:C	2.36	0.64
1:A:1275:LEU:O	1:A:1275:LEU:HD22	1.96	0.64
1:D:1056:ILE:HG22	1:D:1057:MET:H	1.61	0.64
1:D:1623:TYR:O	1:D:1624:VAL:O	2.15	0.64
1:D:907:GLY:C	1:D:909:LEU:N	2.47	0.64
2:E:157:VAL:HG11	2:E:496:PHE:CE1	2.32	0.64
2:B:1740:THR:HB	2:B:1751:ILE:CG1	2.27	0.64
2:H:1733:TYR:HE1	2:H:1760:THR:HG23	1.61	0.64
2:B:115:THR:OG1	2:B:118:LYS:HB2	1.97	0.64
1:D:1487:LEU:HD23	1:D:1754:UNK:CB	2.27	0.64
1:D:928:GLY:C	1:D:930:LEU:H	2.01	0.64
1:G:1158:PRO:CG	1:G:1159:GLU:H	2.10	0.64
1:G:1093:TYR:O	1:G:1094:GLU:HB3	1.97	0.64
1:G:1088:ASP:OD2	1:G:1097:ILE:HD13	1.97	0.64
1:G:1197:THR:HA	1:G:1200:ILE:HG22	1.80	0.64
1:G:1286:TRP:HD1	1:G:1290:LEU:CD1	2.09	0.64
1:G:1244:GLY:HA3	1:G:1294:SER:OG	1.96	0.64
1:G:1586:GLY:O	1:G:1588:ALA:N	2.30	0.64
1:A:1110:LEU:CD1	1:A:1120:GLU:HG3	2.20	0.64
1:A:1232:TYR:O	1:A:1234:MET:N	2.29	0.64
1:A:1431:GLU:HA	1:A:1521:PRO:HB2	1.79	0.64
1:A:1704:ALA:HB1	1:A:1705:PRO:CD	2.20	0.64
1:A:822:VAL:HG12	1:A:824:LEU:HD23	1.79	0.64
1:D:1277:GLU:N	1:D:1277:GLU:OE2	2.30	0.64
1:D:1311:SER:O	1:D:1312:VAL:C	2.35	0.64
1:D:1326:ILE:HA	1:D:1387:ILE:O	1.97	0.64
1:D:1394:LEU:HD23	1:D:1673:TYR:CE1	2.31	0.64
2:H:455:ILE:HD12	2:H:469:ARG:CB	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:528:ILE:HG23	2:H:529:VAL:N	2.11	0.64
1:G:1501:LEU:HD22	1:G:1505:GLN:NE2	2.12	0.64
2:B:302:VAL:O	2:B:306:ILE:HG13	1.97	0.64
2:E:366:VAL:CG2	2:E:381:GLY:HA3	2.23	0.64
2:B:46:GLU:HG3	2:B:51:ASP:CB	2.25	0.64
1:G:747:ALA:HA	1:G:750:GLU:HB3	1.78	0.64
2:B:4:TYR:CD1	2:B:5:SER:N	2.65	0.64
2:E:752:UNK:O	2:E:753:UNK:CB	2.45	0.64
2:B:1258:UNK:O	2:B:1260:UNK:N	2.30	0.64
1:A:1178:ALA:C	1:A:1179:LEU:CD2	2.66	0.64
1:G:1275:LEU:HD22	1:G:1275:LEU:O	1.97	0.64
1:D:1326:ILE:HG13	1:D:1388:MET:CG	2.28	0.64
1:D:797:THR:O	1:D:800:LEU:HB2	1.97	0.64
1:D:1445:MET:O	1:D:1447:TYR:N	2.29	0.64
2:H:189:LYS:O	2:H:192:ALA:HB3	1.96	0.64
2:H:242:GLY:HA2	2:H:245:GLN:HG3	1.79	0.64
2:H:246:LEU:O	2:H:250:VAL:HG23	1.97	0.64
2:H:259:THR:N	2:H:262:GLU:HG3	2.12	0.64
2:H:349:VAL:O	2:H:353:VAL:HG23	1.97	0.64
2:H:511:GLY:O	2:H:513:GLY:N	2.26	0.64
2:E:490:TRP:CZ3	2:E:512:LEU:HD13	2.33	0.64
2:B:298:LYS:O	2:B:302:VAL:HG23	1.97	0.64
1:G:1471:LYS:HD3	1:G:1474:ALA:HB2	1.80	0.64
2:E:1698:PHE:HE1	2:E:1828:VAL:HG21	1.61	0.64
2:H:1830:VAL:HG13	2:H:1831:VAL:N	2.13	0.64
2:B:418:ASN:HD22	2:B:418:ASN:N	1.95	0.64
2:B:1573:UNK:O	2:B:1575:UNK:N	2.31	0.64
1:G:1536:LEU:HA	1:G:1638:ALA:HB3	1.78	0.64
1:A:1551:LYS:O	1:A:1553:GLU:N	2.30	0.64
1:A:853:TRP:CZ2	1:A:859:ALA:HB1	2.32	0.64
1:D:1114:TYR:OH	1:D:1194:ASN:HA	1.98	0.64
1:D:1352:THR:O	1:D:1353:LEU:CB	2.45	0.64
1:D:1431:GLU:HA	1:D:1521:PRO:HB2	1.79	0.64
2:H:267:LEU:CG	2:H:268:LYS:H	2.11	0.64
2:B:157:VAL:HG11	2:B:496:PHE:CE1	2.32	0.64
2:B:455:ILE:HD12	2:B:469:ARG:CB	2.24	0.64
2:B:1673:GLU:H	2:B:1676:MET:HE1	1.61	0.64
1:A:1732:THR:O	1:A:1733:PHE:O	2.14	0.64
1:D:1280:ILE:H	1:D:1280:ILE:HD12	1.61	0.64
2:B:92:GLU:HA	2:B:96:LEU:CD1	2.25	0.64
2:B:617:UNK:O	2:B:652:UNK:O	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1271:GLN:O	1:G:1274:ILE:HB	1.97	0.64
1:G:1246:CYS:CA	1:G:1328:ILE:HG23	2.28	0.64
1:G:1328:ILE:O	1:G:1329:VAL:HG12	1.96	0.64
1:A:1088:ASP:OD2	1:A:1097:ILE:HD13	1.98	0.64
1:A:1119:LYS:HG3	1:A:1122:ILE:H	1.62	0.64
1:A:1119:LYS:O	1:A:1121:MET:N	2.29	0.64
1:A:1249:SER:HB3	1:A:1301:PRO:HD2	1.80	0.64
1:A:1604:ILE:HG23	1:A:1630:THR:HB	1.79	0.64
1:A:797:THR:O	1:A:800:LEU:HB2	1.97	0.64
1:D:1090:LYS:O	1:D:1091:ALA:O	2.16	0.64
1:D:1119:LYS:HE3	1:D:1121:MET:CB	2.26	0.64
1:D:1190:PRO:CG	1:D:1379:ALA:HA	2.27	0.64
1:D:1586:GLY:C	1:D:1588:ALA:N	2.50	0.64
1:D:1697:LEU:H	1:D:1697:LEU:CD1	2.02	0.64
1:D:1706:TYR:HE2	1:D:1715:TYR:CZ	2.14	0.64
2:H:274:SER:O	2:H:483:ILE:HD11	1.98	0.64
2:E:349:VAL:O	2:E:353:VAL:HG23	1.98	0.64
2:B:1772:SER:HA	2:B:1777:THR:OG1	1.96	0.64
2:B:1776:PHE:C	2:B:1779:PRO:HD2	2.18	0.64
1:D:758:ASN:HD22	1:D:758:ASN:N	1.93	0.64
1:G:1340:SER:C	1:G:1341:PHE:O	2.32	0.64
1:G:1738:ILE:O	1:G:1739:GLN:HB2	1.96	0.64
2:H:1334:UNK:O	2:H:1335:UNK:O	2.16	0.64
1:A:389:UNK:O	1:A:392:UNK:N	2.30	0.64
2:B:1605:UNK:O	2:B:1607:UNK:N	2.25	0.64
1:G:1096:SER:O	1:G:1098:LEU:N	2.30	0.64
1:A:1271:GLN:O	1:A:1274:ILE:HB	1.97	0.64
1:D:1093:TYR:O	1:D:1094:GLU:HB3	1.97	0.64
1:D:1640:SER:HB2	1:D:1654:ILE:HB	1.78	0.64
2:B:1812:TYR:N	2:B:1812:TYR:CD2	2.65	0.64
2:H:1776:PHE:C	2:H:1779:PRO:HD2	2.18	0.64
2:H:1792:LEU:HA	2:H:1797:LEU:HD12	1.80	0.64
2:B:1880:LYS:HD3	2:B:1899:VAL:HG11	1.78	0.64
2:E:390:ASN:CA	2:E:393:LEU:HB3	2.27	0.64
1:G:927:ASN:HD21	1:G:931:GLN:H	1.46	0.64
2:H:928:UNK:C	2:H:930:UNK:N	2.56	0.64
1:G:504:UNK:CB	1:G:633:UNK:HA	2.27	0.64
1:A:503:UNK:C	1:A:505:UNK:H	2.09	0.64
2:H:843:UNK:C	2:H:845:UNK:N	2.58	0.64
1:A:374:UNK:O	1:A:375:UNK:C	2.45	0.64
1:G:1030:TRP:CZ2	1:G:1580:LEU:HD11	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1107:GLU:HB3	1:D:1108:PRO:HD2	1.80	0.64
1:D:1115:ASN:ND2	1:D:1115:ASN:N	2.43	0.64
2:H:536:ASN:O	2:H:538:ASP:N	2.31	0.64
2:E:302:VAL:O	2:E:306:ILE:HG13	1.97	0.64
2:H:115:THR:OG1	2:H:118:LYS:HB2	1.98	0.64
2:H:52:ASP:HB2	2:H:113:ASP:CG	2.18	0.64
1:A:664:UNK:C	1:A:666:UNK:N	2.59	0.64
2:H:1663:UNK:HA	2:H:1803:THR:OG1	1.98	0.64
2:E:851:UNK:C	2:E:853:UNK:H	2.10	0.64
2:H:806:UNK:HA	2:H:1034:UNK:CB	2.28	0.64
2:H:1966:UNK:HA	2:H:1970:UNK:CB	2.27	0.64
1:G:1139:GLU:O	1:G:1165:VAL:HG21	1.97	0.64
1:A:1142:GLU:HA	1:A:1145:LYS:HB2	1.78	0.64
1:G:1187:GLY:C	1:G:1188:GLN:NE2	2.51	0.64
1:G:1224:ILE:HG13	1:G:1224:ILE:O	1.98	0.64
1:G:899:LYS:O	1:G:901:MET:N	2.30	0.64
1:A:1038:GLU:OE1	1:A:1045:PHE:HA	1.98	0.64
1:A:1232:TYR:C	1:A:1234:MET:H	2.02	0.64
1:A:1246:CYS:CA	1:A:1328:ILE:HG23	2.27	0.64
1:A:1352:THR:O	1:A:1353:LEU:CB	2.46	0.64
1:D:1586:GLY:O	1:D:1588:ALA:N	2.31	0.64
1:D:1015:LEU:HD23	1:D:1018:VAL:HG12	1.80	0.64
2:B:344:LEU:HD11	2:B:348:GLN:HB3	1.79	0.64
2:B:338:MET:HG3	2:B:380:SER:HB2	1.78	0.64
2:E:43:GLU:HB2	2:E:44:PRO:CD	2.18	0.64
2:B:45:THR:HG23	2:B:46:GLU:OE1	1.98	0.64
2:E:53:GLU:HG3	2:E:54:PRO:HD2	1.80	0.64
1:G:1487:LEU:HD23	1:G:1754:UNK:CB	2.28	0.64
2:B:1347:UNK:C	2:B:1349:UNK:N	2.57	0.64
2:B:1541:UNK:HA	2:B:1628:UNK:CB	2.28	0.64
2:B:583:UNK:O	2:B:584:UNK:CB	2.46	0.64
1:G:994:GLU:OE1	1:G:994:GLU:N	2.28	0.64
2:E:1573:UNK:O	2:E:1575:UNK:N	2.31	0.64
1:D:1142:GLU:HA	1:D:1145:LYS:HB2	1.79	0.64
1:G:1426:LEU:O	1:G:1428:THR:N	2.31	0.64
1:G:1544:THR:OG1	1:G:1546:THR:CG2	2.45	0.64
1:G:1623:TYR:O	1:G:1624:VAL:O	2.15	0.64
1:A:1187:GLY:H	1:A:1188:GLN:NE2	1.96	0.64
1:A:1369:ALA:HA	1:A:1547:LYS:CG	2.28	0.64
1:A:1706:TYR:CE2	1:A:1715:TYR:CZ	2.85	0.64
1:D:1411:THR:OG1	1:D:1412:ASP:N	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:238:CYS:HA	2:H:275:GLN:CD	2.17	0.64
2:E:261:GLY:HA2	2:E:264:ARG:HG2	1.80	0.64
2:E:286:THR:HG23	2:E:292:PHE:HA	1.80	0.64
2:B:286:THR:CG2	2:B:292:PHE:HA	2.28	0.64
1:D:1340:SER:C	1:D:1341:PHE:O	2.32	0.64
2:B:18:HIS:HD2	2:B:86:LEU:HD22	1.63	0.64
2:B:39:LYS:C	2:B:42:PRO:HD2	2.19	0.64
2:H:1266:UNK:O	2:H:1268:UNK:N	2.31	0.64
2:H:417:SER:C	2:H:418:ASN:HD22	2.00	0.64
1:G:664:UNK:O	1:G:666:UNK:N	2.30	0.64
2:B:332:GLU:OE2	2:B:390:ASN:HB3	1.98	0.64
1:D:1741:LYS:HA	1:D:1741:LYS:HE2	1.78	0.64
1:A:497:UNK:C	1:A:499:UNK:N	2.61	0.64
2:B:1299:UNK:C	2:B:1301:UNK:N	2.57	0.64
1:G:412:UNK:O	1:G:414:UNK:N	2.30	0.64
1:G:1577:GLN:HE22	1:G:1591:TRP:C	2.01	0.64
1:G:1707:THR:HG23	1:G:1710:LEU:HG	1.79	0.64
1:G:866:GLY:O	1:G:867:ALA:HB2	1.97	0.64
1:A:1111:PHE:O	1:A:1112:ASN:HB2	1.96	0.64
1:A:1212:THR:HG23	1:A:1283:MET:SD	2.38	0.64
1:A:925:ASP:O	1:A:926:LEU:HD23	1.97	0.64
2:H:444:VAL:C	2:H:446:ASN:H	2.01	0.64
1:G:1462:TRP:CE3	1:G:1462:TRP:C	2.71	0.64
2:B:235:PRO:O	2:B:236:ILE:HB	1.97	0.64
2:B:241:ILE:CG2	2:B:242:GLY:H	2.10	0.64
1:A:1475:GLU:OE2	1:A:1479:SER:HA	1.98	0.64
1:D:1264:ARG:C	1:D:1266:LYS:N	2.47	0.64
1:G:739:GLN:HB3	1:G:794:ILE:CG1	2.25	0.64
2:E:59:GLU:OE1	2:E:122:LEU:HA	1.97	0.64
1:D:490:UNK:O	1:D:491:UNK:C	2.46	0.64
1:A:1162:GLU:OE1	1:A:1163:TYR:CE1	2.50	0.64
2:B:1334:UNK:O	2:B:1335:UNK:O	2.16	0.64
2:E:1258:UNK:O	2:E:1260:UNK:N	2.31	0.64
2:B:752:UNK:O	2:B:753:UNK:CB	2.46	0.64
1:D:1145:LYS:O	1:D:1148:HIS:HB3	1.97	0.63
1:A:1076:VAL:HG11	1:A:1087:LYS:CA	2.23	0.63
1:A:1248:GLY:HA2	1:A:1330:GLY:HA2	1.79	0.63
1:D:1673:TYR:O	1:D:1675:ALA:N	2.30	0.63
1:D:719:GLN:HG3	1:D:720:SER:N	2.12	0.63
1:D:679:LEU:HD11	1:D:768:ILE:HG12	1.81	0.63
1:A:1455:ARG:O	1:A:1456:GLU:HB2	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:238:CYS:HA	2:E:275:GLN:CD	2.18	0.63
2:E:514:VAL:O	2:E:517:HIS:HB3	1.98	0.63
1:D:1732:THR:O	1:D:1733:PHE:O	2.15	0.63
1:A:1487:LEU:HD23	1:A:1754:UNK:CB	2.27	0.63
2:H:881:UNK:O	2:H:883:UNK:N	2.31	0.63
2:E:995:UNK:C	2:E:997:UNK:N	2.59	0.63
2:B:843:UNK:C	2:B:845:UNK:N	2.58	0.63
1:G:1162:GLU:OE1	1:G:1163:TYR:HE1	1.81	0.63
1:A:1168:LEU:CD2	1:A:1169:LYS:H	2.09	0.63
1:G:1026:GLU:OE2	1:G:1036:ARG:HG2	1.98	0.63
1:G:1056:ILE:HG22	1:G:1057:MET:H	1.62	0.63
1:G:1090:LYS:O	1:G:1091:ALA:O	2.15	0.63
1:G:1222:ALA:O	1:G:1225:ALA:HB3	1.97	0.63
1:G:1578:LYS:HE3	1:G:1584:PRO:HB3	1.80	0.63
1:G:1706:TYR:CE2	1:G:1715:TYR:CZ	2.86	0.63
1:A:1029:PRO:HG2	1:A:1581:THR:HG23	1.81	0.63
1:A:1311:SER:O	1:A:1314:ILE:N	2.31	0.63
1:A:1373:ARG:CD	1:A:1547:LYS:HB3	2.29	0.63
1:A:1426:LEU:O	1:A:1428:THR:N	2.31	0.63
1:D:1026:GLU:OE2	1:D:1036:ARG:HG2	1.98	0.63
1:D:1232:TYR:O	1:D:1234:MET:N	2.31	0.63
1:D:1553:GLU:HB2	1:D:1644:PHE:HE2	1.63	0.63
1:D:899:LYS:C	1:D:901:MET:N	2.52	0.63
2:E:511:GLY:O	2:E:513:GLY:N	2.27	0.63
1:G:1462:TRP:HZ3	1:G:1466:GLU:CB	2.10	0.63
2:H:25:ALA:O	2:H:29:ILE:HB	1.98	0.63
1:G:903:PHE:HA	1:G:906:LEU:CD2	2.29	0.63
2:H:1883:GLY:CA	2:H:1894:GLU:HG2	2.28	0.63
2:B:1332:UNK:C	2:B:1334:UNK:N	2.57	0.63
1:D:435:UNK:O	1:D:436:UNK:O	2.15	0.63
2:B:341:ILE:O	2:B:341:ILE:HG22	1.98	0.63
2:H:1355:UNK:O	2:H:1407:UNK:HA	1.96	0.63
2:H:1485:UNK:HA	2:H:1511:UNK:O	1.98	0.63
1:G:1095:THR:O	1:G:1096:SER:HB2	1.96	0.63
1:G:1187:GLY:H	1:G:1188:GLN:NE2	1.95	0.63
1:G:1198:TYR:O	1:G:1695:ASN:HB3	1.99	0.63
1:G:1323:LYS:O	1:G:1324:ALA:HB2	1.98	0.63
1:A:1026:GLU:OE2	1:A:1036:ARG:HG2	1.97	0.63
1:A:1520:ALA:H	1:A:1521:PRO:CD	2.11	0.63
1:D:1099:GLU:O	1:D:1102:GLY:N	2.21	0.63
1:D:1583:HIS:HB2	1:D:1585:LYS:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1706:TYR:CE2	1:D:1715:TYR:CZ	2.86	0.63
1:D:1501:LEU:HD22	1:D:1505:GLN:NE2	2.13	0.63
2:H:286:THR:HG23	2:H:292:PHE:HA	1.81	0.63
2:E:238:CYS:HA	2:E:275:GLN:HE22	1.63	0.63
2:B:274:SER:O	2:B:483:ILE:HD11	1.99	0.63
2:E:1733:TYR:HE1	2:E:1760:THR:HG23	1.63	0.63
2:H:1864:ALA:O	2:H:1866:PHE:N	2.31	0.63
2:E:1883:GLY:CA	2:E:1894:GLU:HG2	2.29	0.63
2:H:2040:UNK:C	2:H:2042:UNK:N	2.60	0.63
2:H:1541:UNK:HA	2:H:1628:UNK:CB	2.28	0.63
2:H:567:UNK:HA	2:H:572:UNK:O	1.97	0.63
2:B:1966:UNK:HA	2:B:1970:UNK:CB	2.27	0.63
2:E:744:UNK:C	2:E:746:UNK:N	2.55	0.63
2:B:1485:UNK:HA	2:B:1511:UNK:O	1.98	0.63
1:G:1145:LYS:O	1:G:1148:HIS:HB3	1.99	0.63
1:G:1243:VAL:HG12	1:G:1325:ARG:N	2.13	0.63
1:G:1326:ILE:HA	1:G:1387:ILE:O	1.98	0.63
1:G:694:GLN:HB3	1:G:725:TYR:CD2	2.33	0.63
1:A:1676:LYS:O	1:A:1679:ALA:HB3	1.99	0.63
1:D:1089:VAL:O	1:D:1091:ALA:N	2.31	0.63
1:D:1232:TYR:C	1:D:1234:MET:H	2.02	0.63
1:D:1253:GLY:O	1:D:1254:VAL:O	2.16	0.63
2:H:241:ILE:CG2	2:H:242:GLY:H	2.11	0.63
2:E:1830:VAL:HG13	2:E:1831:VAL:N	2.13	0.63
2:B:1740:THR:O	2:B:1750:LYS:HA	1.99	0.63
2:E:1173:UNK:HA	2:E:1182:UNK:CA	2.27	0.63
2:H:1854:MET:HA	2:H:1895:ASN:HB2	1.81	0.63
2:H:752:UNK:O	2:H:753:UNK:CB	2.46	0.63
2:B:1591:UNK:O	2:B:1593:UNK:N	2.30	0.63
1:G:1189:ILE:CG2	1:G:1377:MET:SD	2.86	0.63
1:A:1207:GLN:CA	1:A:1207:GLN:HE21	2.11	0.63
1:D:1369:ALA:HA	1:D:1547:LYS:CG	2.29	0.63
1:D:1604:ILE:HG23	1:D:1630:THR:HB	1.81	0.63
1:D:852:ARG:O	1:D:854:HIS:N	2.32	0.63
2:E:235:PRO:O	2:E:236:ILE:HB	1.98	0.63
2:E:259:THR:N	2:E:262:GLU:HG3	2.13	0.63
2:B:350:GLN:O	2:B:353:VAL:N	2.32	0.63
1:G:1475:GLU:C	1:G:1478:PRO:HD2	2.17	0.63
2:E:338:MET:HG3	2:E:380:SER:HB2	1.79	0.63
2:H:39:LYS:C	2:H:42:PRO:HD2	2.19	0.63
2:H:45:THR:HG23	2:H:46:GLU:OE1	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1264:ARG:C	1:G:1266:LYS:N	2.50	0.63
2:B:122:LEU:HD23	2:B:123:ILE:N	2.14	0.63
2:E:45:THR:HG23	2:E:46:GLU:OE1	1.98	0.63
1:G:664:UNK:C	1:G:666:UNK:N	2.60	0.63
1:D:884:ILE:HG22	1:D:887:GLY:HA3	1.80	0.63
2:E:1542:UNK:N	2:E:1628:UNK:HA	2.14	0.63
2:E:4:TYR:CD1	2:E:5:SER:N	2.66	0.63
2:H:1258:UNK:O	2:H:1260:UNK:N	2.31	0.63
1:G:1019:ILE:HD11	1:G:1319:ILE:HG21	1.79	0.63
1:G:1107:GLU:HB3	1:G:1108:PRO:HD2	1.80	0.63
1:G:1650:GLY:O	1:G:1651:GLY:O	2.16	0.63
1:G:826:MET:HE1	1:G:847:GLU:HG3	1.78	0.63
1:A:1090:LYS:O	1:A:1091:ALA:O	2.16	0.63
1:A:1089:VAL:O	1:A:1091:ALA:N	2.32	0.63
1:A:1326:ILE:HG13	1:A:1388:MET:CG	2.28	0.63
1:A:1578:LYS:HE3	1:A:1584:PRO:HB3	1.79	0.63
1:D:1036:ARG:NE	1:D:1037:TRP:N	2.47	0.63
1:D:1198:TYR:O	1:D:1695:ASN:HB3	1.99	0.63
1:D:1302:VAL:HG23	1:D:1303:GLY:N	2.13	0.63
1:D:1368:PRO:HA	1:D:1545:SER:HA	1.79	0.63
1:D:799:ILE:O	1:D:802:MET:HB2	1.99	0.63
1:D:769:ILE:HB	1:D:823:ILE:HD11	1.79	0.63
2:H:235:PRO:O	2:H:236:ILE:HB	1.98	0.63
2:E:302:VAL:HG12	2:E:306:ILE:HD11	1.80	0.63
2:E:1740:THR:HB	2:E:1751:ILE:CG1	2.29	0.63
2:H:1821:VAL:CG2	2:H:1822:MET:H	2.12	0.63
2:H:87:CYS:CA	2:H:90:GLU:HB3	2.27	0.63
2:H:1880:LYS:HD3	2:H:1899:VAL:HG11	1.81	0.63
2:H:94:CYS:SG	2:H:95:TYR:N	2.72	0.63
2:B:1877:ARG:HB3	2:B:1929:LYS:HZ2	1.63	0.63
1:D:493:UNK:C	1:D:495:UNK:N	2.54	0.63
2:B:1585:UNK:C	2:B:1587:UNK:N	2.60	0.63
2:B:851:UNK:C	2:B:853:UNK:H	2.11	0.63
1:G:398:UNK:C	1:G:400:UNK:N	2.57	0.63
2:E:1453:UNK:C	2:E:1455:UNK:H	2.12	0.63
1:G:1168:LEU:HD22	1:G:1169:LYS:N	2.10	0.63
1:G:1169:LYS:NZ	1:G:1170:GLY:O	2.25	0.63
1:G:1110:LEU:HD11	1:G:1188:GLN:N	2.14	0.63
1:G:1408:ALA:H	1:G:1653:ALA:HB2	1.64	0.63
1:A:1188:GLN:HG2	1:A:1352:THR:CG2	2.25	0.63
1:A:1190:PRO:CG	1:A:1379:ALA:HA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1202:ASP:O	1:A:1203:ASP:HB3	1.98	0.63
1:A:901:MET:HE3	1:A:905:LEU:HD23	1.81	0.63
1:D:1207:GLN:HE21	1:D:1207:GLN:CA	2.12	0.63
1:D:1260:MET:HB3	1:D:1261:PHE:CD2	2.34	0.63
1:D:1423:LYS:HG2	1:D:1424:GLY:H	1.63	0.63
1:D:1532:THR:O	1:D:1534:ASP:N	2.32	0.63
1:D:1697:LEU:O	1:D:1698:PHE:HB3	1.98	0.63
2:B:215:ILE:CD1	2:B:240:LEU:HD11	2.27	0.63
2:E:1703:GLY:O	2:E:1704:PHE:CD1	2.51	0.63
2:H:53:GLU:HG3	2:H:54:PRO:HD2	1.80	0.63
1:G:748:LEU:O	1:G:752:ILE:HG13	1.98	0.63
2:B:1903:ASP:CG	2:B:1907:LEU:HD21	2.19	0.63
1:D:664:UNK:C	1:D:666:UNK:N	2.59	0.63
2:H:949:UNK:O	2:H:951:UNK:N	2.32	0.63
1:D:374:UNK:O	1:D:375:UNK:C	2.46	0.63
2:E:797:UNK:C	2:E:799:UNK:N	2.61	0.63
2:B:813:UNK:O	2:B:815:UNK:N	2.32	0.63
1:G:1151:LYS:H	1:G:1151:LYS:HD2	1.62	0.63
1:D:1148:HIS:C	1:D:1150:ASP:H	2.02	0.63
1:G:1369:ALA:HA	1:G:1547:LYS:CG	2.29	0.63
1:G:1553:GLU:C	1:G:1555:ALA:H	2.02	0.63
1:G:1419:PRO:HD3	1:G:1646:PHE:CD1	2.34	0.63
1:A:1207:GLN:O	1:A:1208:VAL:HG22	1.99	0.63
1:A:681:THR:OG1	1:A:770:PRO:HA	1.99	0.63
1:A:852:ARG:O	1:A:854:HIS:N	2.32	0.63
1:D:1062:TYR:CD1	1:D:1063:HIS:N	2.64	0.63
1:D:1030:TRP:CZ2	1:D:1580:LEU:HD11	2.34	0.63
1:D:1062:TYR:HD2	1:D:1693:ILE:HB	1.63	0.63
1:D:714:VAL:C	1:D:716:ASP:N	2.52	0.63
1:D:1462:TRP:C	1:D:1462:TRP:CE3	2.71	0.63
1:A:1462:TRP:O	1:A:1463:VAL:HG23	1.98	0.63
2:H:240:LEU:HD12	2:H:240:LEU:H	1.64	0.63
1:G:1475:GLU:OE2	1:G:1479:SER:HA	1.99	0.63
1:A:586:UNK:HA	1:A:671:VAL:O	1.99	0.63
2:E:1909:THR:HG21	2:E:1927:LEU:CD1	2.28	0.63
1:G:832:THR:HG22	1:G:833:PHE:N	2.13	0.63
2:E:1884:TRP:HB2	2:E:1892:ASN:HD22	1.63	0.63
1:A:927:ASN:HD21	1:A:931:GLN:H	1.46	0.63
1:D:944:ARG:O	1:D:948:VAL:HG23	1.98	0.63
1:A:1130:ASP:O	1:A:1131:LEU:O	2.16	0.63
1:G:1119:LYS:HG3	1:G:1122:ILE:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1207:GLN:O	1:G:1208:VAL:HG22	1.99	0.63
1:G:1354:GLU:C	1:G:1356:PHE:H	2.02	0.63
1:G:850:PHE:CD2	1:G:864:VAL:HG11	2.34	0.63
1:A:1039:MET:HE3	1:A:1039:MET:HA	1.79	0.63
1:D:1212:THR:HG23	1:D:1283:MET:SD	2.39	0.63
1:D:1625:LEU:O	1:D:1625:LEU:HD22	1.99	0.63
1:A:1014:ASP:HB2	1:A:1510:ASN:OD1	1.98	0.63
1:A:1445:MET:O	1:A:1447:TYR:N	2.31	0.63
1:A:1501:LEU:O	1:A:1504:ALA:HB3	1.98	0.63
1:G:1455:ARG:HG3	1:G:1455:ARG:HH11	1.62	0.63
2:B:536:ASN:O	2:B:538:ASP:N	2.31	0.63
2:B:1703:GLY:O	2:B:1704:PHE:CD1	2.52	0.63
2:B:1770:LEU:C	2:B:1770:LEU:HD23	2.19	0.63
2:E:46:GLU:HG3	2:E:51:ASP:CB	2.27	0.63
2:E:417:SER:C	2:E:418:ASN:HD22	2.02	0.63
2:E:1880:LYS:HD3	2:E:1899:VAL:HG11	1.80	0.63
2:E:1877:ARG:HB3	2:E:1929:LYS:HZ1	1.64	0.63
2:H:1008:UNK:O	2:H:1009:UNK:C	2.47	0.63
1:A:552:UNK:O	1:A:555:UNK:N	2.32	0.63
2:E:2006:UNK:C	2:E:2008:UNK:H	2.11	0.63
2:H:1573:UNK:O	2:H:1575:UNK:N	2.32	0.63
1:A:1190:PRO:O	1:A:1191:THR:HG23	1.98	0.62
1:A:1538:VAL:O	1:A:1539:ALA:HB3	1.99	0.62
1:D:1187:GLY:H	1:D:1188:GLN:NE2	1.96	0.62
1:D:1376:PHE:O	1:D:1377:MET:CB	2.47	0.62
2:H:250:VAL:O	2:H:253:ALA:HB3	1.98	0.62
2:E:144:ALA:O	2:E:146:PHE:N	2.31	0.62
2:E:215:ILE:CD1	2:E:240:LEU:HD11	2.28	0.62
1:D:1475:GLU:C	1:D:1478:PRO:HD2	2.19	0.62
1:A:1475:GLU:C	1:A:1478:PRO:HD2	2.19	0.62
2:E:319:LEU:CD2	2:E:335:PRO:HG3	2.29	0.62
2:H:40:ILE:O	2:H:41:LEU:HD23	1.99	0.62
2:B:39:LYS:O	2:B:42:PRO:HD2	1.98	0.62
2:B:52:ASP:HB2	2:B:113:ASP:CG	2.20	0.62
2:E:40:ILE:O	2:E:41:LEU:HD23	1.99	0.62
1:A:1280:ILE:H	1:A:1280:ILE:HD12	1.62	0.62
2:B:417:SER:C	2:B:418:ASN:HD22	2.03	0.62
2:E:1854:MET:HA	2:E:1895:ASN:HB2	1.81	0.62
2:H:797:UNK:C	2:H:799:UNK:N	2.61	0.62
2:H:653:UNK:C	2:H:655:UNK:N	2.55	0.62
1:A:950:THR:O	1:A:954:ARG:HG2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1131:LEU:O	1:G:1173:LEU:HB2	1.99	0.62
1:G:1097:ILE:O	1:G:1098:LEU:HD22	1.99	0.62
1:G:1332:TYR:H	1:G:1587:ALA:CB	2.06	0.62
1:G:1307:THR:HG21	1:G:1586:GLY:HA2	1.81	0.62
1:G:1676:LYS:O	1:G:1679:ALA:HB3	1.99	0.62
1:A:1060:ILE:C	1:A:1060:ILE:HD12	2.20	0.62
1:A:1114:TYR:OH	1:A:1194:ASN:HA	2.00	0.62
1:A:1376:PHE:H	1:A:1376:PHE:HD1	1.47	0.62
1:A:710:PHE:CE1	1:A:736:PRO:HD3	2.29	0.62
1:A:752:ILE:HA	1:A:761:LEU:CD2	2.24	0.62
1:D:1029:PRO:HD2	1:D:1591:TRP:CH2	2.35	0.62
1:D:739:GLN:HB3	1:D:794:ILE:CG1	2.24	0.62
1:D:839:TYR:HE1	1:D:843:LYS:HE2	1.63	0.62
1:D:1462:TRP:HZ3	1:D:1466:GLU:CB	2.09	0.62
2:H:310:CYS:HB3	2:H:432:LEU:HD11	1.80	0.62
2:E:267:LEU:O	2:E:268:LYS:HB2	1.99	0.62
2:B:240:LEU:HD12	2:B:240:LEU:H	1.64	0.62
2:B:267:LEU:O	2:B:268:LYS:HB2	1.99	0.62
2:B:349:VAL:CG2	2:B:377:LEU:HD13	2.29	0.62
2:E:1724:GLU:HG2	2:E:1726:GLY:N	2.09	0.62
2:E:1826:SER:O	2:E:1829:GLU:HB3	1.99	0.62
2:E:345:THR:O	2:E:348:GLN:HB2	1.99	0.62
2:B:1751:ILE:O	2:B:1752:PHE:O	2.17	0.62
2:H:1266:UNK:C	2:H:1268:UNK:N	2.58	0.62
1:G:1202:ASP:O	1:G:1203:ASP:HB3	1.97	0.62
1:G:1203:ASP:N	1:G:1205:ILE:HG12	2.09	0.62
2:B:1909:THR:HG21	2:B:1927:LEU:CD1	2.29	0.62
2:H:1051:UNK:C	2:H:1053:UNK:N	2.59	0.62
2:E:949:UNK:O	2:E:951:UNK:N	2.32	0.62
1:A:1680:ARG:O	1:A:1684:ALA:N	2.32	0.62
1:G:389:UNK:O	1:G:392:UNK:N	2.31	0.62
1:G:1139:GLU:CD	1:G:1139:GLU:N	2.53	0.62
1:G:1150:ASP:HB3	1:G:1151:LYS:HD2	1.81	0.62
1:G:1604:ILE:HG23	1:G:1630:THR:HB	1.81	0.62
1:A:1222:ALA:O	1:A:1225:ALA:HB3	1.99	0.62
1:A:1277:GLU:N	1:A:1277:GLU:OE2	2.32	0.62
1:A:1319:ILE:HA	1:A:1324:ALA:O	1.98	0.62
1:A:1376:PHE:O	1:A:1377:MET:CB	2.46	0.62
1:A:1591:TRP:HA	1:A:1594:ASN:HD22	1.64	0.62
1:A:681:THR:HG22	1:A:771:PHE:O	2.00	0.62
1:D:1203:ASP:C	1:D:1205:ILE:N	2.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1203:ASP:N	1:D:1205:ILE:HG12	2.09	0.62
1:D:716:ASP:C	1:D:719:GLN:HB3	2.18	0.62
1:D:873:ARG:CG	1:D:874:GLY:H	2.12	0.62
2:H:267:LEU:O	2:H:268:LYS:HB2	2.00	0.62
2:E:1751:ILE:O	2:E:1752:PHE:O	2.17	0.62
2:H:1812:TYR:C	2:H:1814:ALA:H	2.02	0.62
2:H:59:GLU:C	2:H:125:ASN:HD22	2.02	0.62
2:H:18:His:HD2	2:H:86:LEU:HD22	1.62	0.62
1:G:679:LEU:H	1:G:679:LEU:HD12	1.64	0.62
2:E:1864:ALA:O	2:E:1866:PHE:N	2.32	0.62
2:E:1885:LEU:H	3:F:2:UNK:CB	2.12	0.62
2:B:1871:LEU:HD23	2:B:1872:GLN:N	2.13	0.62
2:H:221:ASN:ND2	2:H:221:ASN:N	2.42	0.62
1:D:903:PHE:HA	1:D:906:LEU:CD2	2.27	0.62
2:B:1854:MET:HA	2:B:1895:ASN:HB2	1.82	0.62
1:A:928:GLY:C	1:A:930:LEU:H	2.00	0.62
2:E:341:ILE:O	2:E:341:ILE:HG22	1.98	0.62
2:E:843:UNK:C	2:E:845:UNK:N	2.61	0.62
1:D:1155:PHE:C	1:D:1171:ALA:HB2	2.18	0.62
1:D:1139:GLU:O	1:D:1165:VAL:HG21	1.99	0.62
1:G:1119:LYS:O	1:G:1121:MET:N	2.32	0.62
1:D:1096:SER:O	1:D:1098:LEU:N	2.32	0.62
1:D:1532:THR:OG1	1:D:1535:ASP:N	2.33	0.62
1:D:1037:TRP:CD2	1:D:1598:GLN:HG2	2.33	0.62
1:D:1394:LEU:HA	1:D:1673:TYR:CD1	2.34	0.62
1:D:1399:PRO:HG3	1:D:1681:GLU:CD	2.19	0.62
2:H:157:VAL:HG11	2:H:496:PHE:CE1	2.33	0.62
1:G:1015:LEU:HD23	1:G:1018:VAL:HG12	1.80	0.62
2:B:444:VAL:C	2:B:446:ASN:H	2.03	0.62
2:E:1733:TYR:HH	2:E:1761:SER:HA	1.60	0.62
2:B:1670:GLY:HA2	2:B:1672:GLN:HE22	1.63	0.62
2:B:1674:GLN:NE2	2:B:1712:ASN:HA	2.14	0.62
2:B:1718:THR:CG2	2:B:1765:ARG:HA	2.29	0.62
2:B:1830:VAL:HG13	2:B:1831:VAL:N	2.14	0.62
1:D:832:THR:HG22	1:D:833:PHE:N	2.14	0.62
2:B:1883:GLY:CA	2:B:1894:GLU:HG2	2.29	0.62
1:G:497:UNK:C	1:G:499:UNK:N	2.60	0.62
2:E:1329:UNK:O	2:E:1333:UNK:CB	2.48	0.62
2:B:616:UNK:O	2:B:618:UNK:N	2.23	0.62
1:A:1223:PHE:HD2	1:A:1386:ILE:HD13	1.64	0.62
1:A:1225:ALA:C	1:A:1227:GLY:N	2.52	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1062:TYR:HD2	1:A:1693:ILE:HB	1.63	0.62
1:A:714:VAL:C	1:A:716:ASP:N	2.53	0.62
1:D:1430:ARG:CG	1:D:1431:GLU:N	2.60	0.62
1:D:1688:PHE:O	1:D:1690:ASN:N	2.32	0.62
2:H:444:VAL:HA	2:H:449:SER:OG	1.98	0.62
2:H:483:ILE:CG2	2:H:484:ILE:N	2.56	0.62
2:E:273:HIS:HB2	2:E:490:TRP:HZ3	1.64	0.62
2:B:242:GLY:HA2	2:B:245:GLN:HG3	1.81	0.62
2:E:1730:ARG:O	2:E:1732:ASN:N	2.32	0.62
2:H:1770:LEU:HD23	2:H:1770:LEU:C	2.20	0.62
1:D:1259:GLY:CA	1:D:1263:ASP:HB2	2.20	0.62
2:B:87:CYS:CA	2:B:90:GLU:HB3	2.25	0.62
2:H:418:ASN:ND2	2:H:418:ASN:N	2.47	0.62
1:D:664:UNK:O	1:D:666:UNK:N	2.32	0.62
1:G:655:UNK:C	1:G:657:UNK:N	2.59	0.62
1:D:893:VAL:C	1:D:895:THR:H	2.02	0.62
1:D:389:UNK:O	1:D:392:UNK:N	2.31	0.62
1:A:968:VAL:HG13	2:B:1513:UNK:CB	2.29	0.62
1:G:1155:PHE:C	1:G:1171:ALA:HB2	2.20	0.62
1:D:1137:SER:HG	1:D:1168:LEU:HD12	1.65	0.62
1:G:1190:PRO:O	1:G:1191:THR:HG23	1.99	0.62
1:G:1431:GLU:HA	1:G:1521:PRO:HB2	1.80	0.62
1:A:1119:LYS:HE3	1:A:1121:MET:HG3	1.81	0.62
1:D:1088:ASP:OD2	1:D:1097:ILE:HD13	2.00	0.62
1:D:1202:ASP:O	1:D:1203:ASP:HB3	1.98	0.62
1:D:1249:SER:HB3	1:D:1301:PRO:HD2	1.81	0.62
2:H:215:ILE:CD1	2:H:240:LEU:HD11	2.30	0.62
2:E:483:ILE:CG2	2:E:484:ILE:N	2.57	0.62
2:B:1764:PHE:N	2:B:1764:PHE:HD2	1.97	0.62
2:B:40:ILE:O	2:B:41:LEU:HD23	1.98	0.62
2:E:25:ALA:O	2:E:29:ILE:HB	1.99	0.62
1:G:1343:PHE:O	1:G:1345:ASN:N	2.30	0.62
2:B:408:PRO:HG2	2:B:409:PHE:H	1.65	0.62
1:A:664:UNK:O	1:A:666:UNK:N	2.32	0.62
2:E:959:UNK:C	2:E:961:UNK:N	2.57	0.62
1:G:490:UNK:O	1:G:491:UNK:C	2.47	0.62
1:A:889:GLU:CA	1:A:893:VAL:HA	2.30	0.62
1:D:544:UNK:O	1:D:548:UNK:N	2.33	0.62
2:B:995:UNK:C	2:B:997:UNK:N	2.59	0.62
2:H:4:TYR:CD1	2:H:5:SER:N	2.67	0.62
1:G:1190:PRO:CG	1:G:1379:ALA:HA	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1187:GLY:C	1:A:1188:GLN:NE2	2.52	0.62
1:A:1226:SER:HB3	1:A:1386:ILE:HD11	1.81	0.62
1:A:1362:PRO:HA	1:A:1365:MET:CE	2.30	0.62
1:A:1399:PRO:HG3	1:A:1681:GLU:CD	2.20	0.62
1:A:1427:THR:C	1:A:1429:ALA:N	2.50	0.62
1:D:1208:VAL:O	1:D:1277:GLU:HG2	1.99	0.62
1:D:1243:VAL:CG1	1:D:1324:ALA:HA	2.28	0.62
1:D:1376:PHE:CD2	1:D:1584:PRO:HD2	2.35	0.62
1:D:1591:TRP:HA	1:D:1594:ASN:HD22	1.64	0.62
1:D:786:SER:O	1:D:789:GLU:N	2.33	0.62
2:H:248:HIS:HB3	2:H:529:VAL:HG11	1.82	0.62
2:E:444:VAL:C	2:E:446:ASN:H	2.01	0.62
2:B:302:VAL:HG12	2:B:306:ILE:HD11	1.80	0.62
2:E:1709:ILE:O	2:E:1771:LEU:HD13	1.99	0.62
1:G:799:ILE:O	1:G:802:MET:HB2	1.99	0.62
2:E:59:GLU:C	2:E:125:ASN:HD22	2.02	0.62
2:E:18:HIS:HD2	2:E:86:LEU:HD22	1.63	0.62
1:G:1203:ASP:C	1:G:1205:ILE:N	2.45	0.62
2:E:87:CYS:CA	2:E:90:GLU:HB3	2.28	0.62
2:H:1883:GLY:HA2	2:H:1894:GLU:CD	2.20	0.62
1:A:490:UNK:O	1:A:491:UNK:C	2.47	0.62
1:D:1268:GLU:HB3	1:D:1269:PRO:HD2	1.81	0.62
1:A:204:UNK:C	1:A:206:UNK:H	2.12	0.62
1:D:412:UNK:O	1:D:414:UNK:N	2.33	0.62
1:D:1144:PHE:O	1:D:1148:HIS:N	2.31	0.62
1:D:1158:PRO:CG	1:D:1159:GLU:H	2.07	0.62
1:G:1208:VAL:O	1:G:1277:GLU:HG2	2.00	0.62
1:G:714:VAL:C	1:G:716:ASP:N	2.51	0.62
1:A:1036:ARG:NE	1:A:1037:TRP:N	2.47	0.62
1:A:1103:ILE:CA	1:A:1106:ILE:HD12	2.26	0.62
1:A:1580:LEU:O	1:A:1580:LEU:CG	2.48	0.62
1:D:1118:LYS:HZ2	1:D:1337:GLU:HG3	1.64	0.62
1:D:1110:LEU:HD11	1:D:1188:GLN:N	2.14	0.62
1:D:1244:GLY:HA3	1:D:1294:SER:OG	1.98	0.62
1:D:1208:VAL:HG12	1:D:1286:TRP:CH2	2.35	0.62
1:D:1544:THR:OG1	1:D:1546:THR:HG22	2.00	0.62
1:D:1373:ARG:CD	1:D:1547:LYS:HB3	2.29	0.62
2:B:209:PHE:CE2	2:B:213:LEU:HD22	2.35	0.62
2:B:345:THR:O	2:B:348:GLN:HB2	1.98	0.62
1:A:1343:PHE:O	1:A:1345:ASN:N	2.32	0.62
1:A:758:ASN:HD22	1:A:758:ASN:N	1.95	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:53:GLU:HB2	2:E:108:LEU:HD21	1.81	0.62
2:E:52:ASP:HB2	2:E:113:ASP:CG	2.19	0.62
1:A:832:THR:HG22	1:A:833:PHE:N	2.14	0.62
1:D:927:ASN:HD21	1:D:931:GLN:H	1.48	0.62
2:E:1663:UNK:HA	2:E:1803:THR:OG1	1.99	0.62
1:G:893:VAL:C	1:G:895:THR:H	2.02	0.62
2:B:1625:UNK:HA	2:B:1642:UNK:HA	1.80	0.62
2:H:1585:UNK:HA	2:H:1588:UNK:CB	2.29	0.62
1:D:552:UNK:O	1:D:554:UNK:N	2.20	0.62
1:A:1268:GLU:HB3	1:A:1269:PRO:CD	2.29	0.62
2:B:1663:UNK:HA	2:B:1803:THR:OG1	2.00	0.62
1:A:1131:LEU:O	1:A:1173:LEU:HB2	2.00	0.62
1:G:1247:SER:O	1:G:1301:PRO:HD2	2.00	0.62
1:G:1277:GLU:N	1:G:1277:GLU:OE2	2.33	0.62
1:G:993:PRO:HD3	1:G:1681:GLU:CD	2.20	0.62
1:A:1323:LYS:O	1:A:1324:ALA:HB2	1.99	0.62
1:D:1079:LYS:HD2	1:D:1098:LEU:HD22	1.78	0.62
1:D:1307:THR:HG21	1:D:1586:GLY:HA2	1.81	0.62
1:D:1332:TYR:H	1:D:1587:ALA:CB	2.06	0.62
1:D:717:TYR:O	1:D:719:GLN:N	2.31	0.62
1:D:1455:ARG:HG3	1:D:1455:ARG:HH11	1.64	0.62
1:D:1462:TRP:O	1:D:1463:VAL:HG23	1.99	0.62
1:A:1462:TRP:HZ3	1:A:1466:GLU:CB	2.08	0.62
1:A:1464:GLU:CA	1:A:1467:LEU:HD12	2.25	0.62
2:H:344:LEU:HD11	2:H:348:GLN:HB3	1.81	0.62
1:G:1462:TRP:O	1:G:1463:VAL:HG23	1.99	0.62
2:B:267:LEU:CG	2:B:268:LYS:H	2.11	0.62
2:E:1674:GLN:NE2	2:E:1712:ASN:HA	2.15	0.62
2:E:1718:THR:CG2	2:E:1765:ARG:HA	2.29	0.62
2:B:1689:ASP:HA	2:B:1692:ASN:HB2	1.82	0.62
2:H:1703:GLY:O	2:H:1704:PHE:CD1	2.53	0.62
2:H:1751:ILE:O	2:H:1752:PHE:O	2.17	0.62
2:H:1698:PHE:HE1	2:H:1828:VAL:HG21	1.65	0.62
1:A:1341:PHE:O	1:A:1343:PHE:N	2.33	0.62
1:G:838:MET:HA	1:G:841:GLU:OE1	1.99	0.62
2:E:56:THR:CG2	2:E:59:GLU:HG3	2.26	0.62
2:H:1927:LEU:HA	2:H:1930:SER:HB3	1.81	0.62
1:A:525:UNK:O	1:A:527:UNK:N	2.33	0.62
1:A:571:UNK:O	1:A:575:UNK:N	2.33	0.62
1:D:889:GLU:CA	1:D:893:VAL:HA	2.30	0.62
1:G:889:GLU:CA	1:G:893:VAL:HA	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1585:UNK:HA	2:B:1588:UNK:CB	2.30	0.62
1:A:818:ARG:O	1:A:818:ARG:HG2	2.00	0.62
2:B:1024:UNK:O	2:B:1025:UNK:CB	2.47	0.62
2:H:995:UNK:C	2:H:997:UNK:N	2.61	0.62
1:D:1141:ALA:O	1:D:1143:GLN:N	2.33	0.62
1:G:1111:PHE:HB3	1:G:1114:TYR:CD1	2.35	0.62
1:G:1625:LEU:O	1:G:1625:LEU:HD22	1.99	0.62
1:A:1097:ILE:O	1:A:1098:LEU:HD22	1.99	0.62
1:A:1326:ILE:N	1:A:1326:ILE:HD12	2.14	0.62
1:A:873:ARG:CG	1:A:874:GLY:H	2.12	0.62
1:D:1223:PHE:HD2	1:D:1386:ILE:HD13	1.63	0.62
1:D:1223:PHE:CD1	1:D:1231:PRO:HB3	2.35	0.62
1:D:1286:TRP:HD1	1:D:1290:LEU:CD1	2.13	0.62
1:D:1413:LYS:HG2	1:D:1414:ILE:H	1.64	0.62
1:D:1522:LEU:O	1:D:1523:ARG:C	2.38	0.62
1:A:1462:TRP:C	1:A:1462:TRP:CE3	2.73	0.62
1:G:1459:ILE:HG13	1:G:1460:LYS:H	1.65	0.62
2:B:274:SER:C	2:B:483:ILE:HD11	2.20	0.62
2:E:1696:ASN:O	2:E:1700:ASP:HB2	2.00	0.62
2:E:1821:VAL:CG2	2:E:1822:MET:H	2.11	0.62
2:H:1730:ARG:O	2:H:1732:ASN:N	2.32	0.62
2:H:53:GLU:HB2	2:H:108:LEU:HD21	1.81	0.62
2:B:18:HIS:O	2:B:22:VAL:HG23	1.99	0.62
1:G:449:UNK:C	1:G:451:UNK:N	2.59	0.62
2:E:408:PRO:CB	2:E:412:ARG:HD2	2.30	0.62
2:H:2040:UNK:HA	2:H:2043:UNK:CB	2.30	0.62
1:G:493:UNK:O	1:G:494:UNK:C	2.48	0.62
2:B:1329:UNK:O	2:B:1333:UNK:CB	2.48	0.62
1:D:385:UNK:O	1:D:388:UNK:CB	2.48	0.62
1:D:818:ARG:O	1:D:818:ARG:HG2	2.00	0.62
1:G:1178:ALA:O	1:G:1179:LEU:CB	2.47	0.61
1:D:1178:ALA:O	1:D:1179:LEU:CB	2.48	0.61
1:G:1119:LYS:HE3	1:G:1121:MET:HG3	1.82	0.61
1:G:1376:PHE:O	1:G:1377:MET:CB	2.46	0.61
1:G:1399:PRO:HG3	1:G:1681:GLU:CD	2.19	0.61
1:G:1062:TYR:HD2	1:G:1693:ILE:HB	1.64	0.61
1:G:1701:LYS:HE3	1:G:1701:LYS:N	2.14	0.61
1:G:853:TRP:CZ2	1:G:859:ALA:HB1	2.34	0.61
1:A:719:GLN:HG3	1:A:720:SER:N	2.14	0.61
1:D:1224:ILE:HG13	1:D:1224:ILE:O	1.99	0.61
1:D:1261:PHE:N	1:D:1261:PHE:CD2	2.67	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1422:GLY:C	1:D:1425:ILE:HB	2.20	0.61
1:D:901:MET:HE3	1:D:905:LEU:HD23	1.82	0.61
2:H:238:CYS:HA	2:H:275:GLN:HE22	1.64	0.61
2:H:345:THR:O	2:H:348:GLN:HB2	1.99	0.61
2:H:504:PHE:HA	2:H:529:VAL:HG21	1.81	0.61
2:E:242:GLY:HA2	2:E:245:GLN:HG3	1.82	0.61
2:E:289:TRP:HA	2:E:292:PHE:HB3	1.82	0.61
2:E:1773:ALA:O	2:E:1775:GLN:N	2.33	0.61
1:D:1258:ARG:HG2	1:D:1263:ASP:OD2	2.00	0.61
1:G:758:ASN:N	1:G:758:ASN:HD22	1.94	0.61
2:H:39:LYS:O	2:H:42:PRO:HD2	1.99	0.61
2:B:25:ALA:HB1	2:B:65:LEU:HD11	1.82	0.61
1:G:786:SER:O	1:G:789:GLU:N	2.31	0.61
2:B:1927:LEU:HA	2:B:1930:SER:HB3	1.81	0.61
2:E:1927:LEU:HA	2:E:1930:SER:HB3	1.80	0.61
2:H:2049:UNK:O	2:H:2050:UNK:C	2.48	0.61
1:G:525:UNK:O	1:G:528:UNK:N	2.33	0.61
1:G:552:UNK:O	1:G:555:UNK:N	2.33	0.61
2:B:1370:UNK:O	2:B:1371:UNK:CB	2.48	0.61
2:E:569:UNK:CB	2:E:1074:UNK:HA	2.30	0.61
2:B:1486:UNK:O	2:B:1510:UNK:HA	2.01	0.61
1:G:1144:PHE:HA	1:G:1147:GLN:HB2	1.83	0.61
1:G:1370:THR:HG22	1:G:1613:ASN:O	2.00	0.61
1:G:858:TRP:HE3	1:G:862:LEU:HB2	1.65	0.61
1:A:1198:TYR:O	1:A:1695:ASN:HB3	2.00	0.61
1:D:1323:LYS:O	1:D:1324:ALA:HB2	1.98	0.61
1:D:1650:GLY:O	1:D:1651:GLY:O	2.18	0.61
1:D:771:PHE:CE2	1:D:825:PRO:HB3	2.35	0.61
1:D:1454:THR:CG2	1:D:1455:ARG:H	1.93	0.61
2:E:1791:ASP:O	2:E:1794:SER:HB3	2.00	0.61
2:E:39:LYS:C	2:E:42:PRO:HD2	2.21	0.61
1:D:1717:ASP:O	1:D:1719:LEU:N	2.33	0.61
2:H:1884:TRP:HB2	2:H:1892:ASN:HD22	1.65	0.61
1:D:571:UNK:O	1:D:575:UNK:N	2.33	0.61
1:D:449:UNK:C	1:D:451:UNK:N	2.60	0.61
2:E:1024:UNK:O	2:E:1025:UNK:CB	2.47	0.61
1:G:1063:HIS:O	1:G:1065:GLY:N	2.33	0.61
1:G:1413:LYS:HG2	1:G:1414:ILE:H	1.66	0.61
1:A:1000:GLN:C	1:A:1002:LYS:N	2.53	0.61
1:A:1430:ARG:CG	1:A:1431:GLU:N	2.60	0.61
1:D:1112:ASN:HA	1:D:1114:TYR:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1119:LYS:HE3	1:D:1121:MET:HG3	1.82	0.61
1:D:1408:ALA:HB2	1:D:1652:GLN:C	2.21	0.61
2:H:444:VAL:O	2:H:446:ASN:N	2.33	0.61
2:H:467:ASP:C	2:H:469:ARG:H	2.04	0.61
2:B:514:VAL:O	2:B:517:HIS:HB3	2.00	0.61
1:G:1473:GLU:O	1:G:1474:ALA:C	2.39	0.61
2:E:1792:LEU:HA	2:E:1797:LEU:HD12	1.81	0.61
2:B:1730:ARG:O	2:B:1732:ASN:N	2.33	0.61
2:H:1826:SER:O	2:H:1829:GLU:HB3	1.99	0.61
2:B:31:SER:O	2:B:33:LEU:N	2.34	0.61
2:B:53:GLU:HB2	2:B:108:LEU:HD21	1.81	0.61
1:G:1339:GLY:C	1:G:1340:SER:O	2.38	0.61
1:A:753:TYR:CD2	1:A:809:GLN:HG3	2.36	0.61
2:E:418:ASN:ND2	2:E:418:ASN:N	2.49	0.61
1:G:525:UNK:O	1:G:527:UNK:N	2.34	0.61
1:A:525:UNK:O	1:A:528:UNK:N	2.32	0.61
1:G:928:GLY:C	1:G:930:LEU:H	2.02	0.61
1:G:1268:GLU:HB3	1:G:1269:PRO:HD2	1.80	0.61
2:B:653:UNK:C	2:B:655:UNK:N	2.55	0.61
1:D:950:THR:O	1:D:954:ARG:HG2	2.00	0.61
2:E:1585:UNK:HA	2:E:1588:UNK:CB	2.30	0.61
1:G:1144:PHE:O	1:G:1148:HIS:N	2.32	0.61
1:G:1162:GLU:OE1	1:G:1163:TYR:CE1	2.53	0.61
1:G:1178:ALA:C	1:G:1179:LEU:CD2	2.69	0.61
1:G:1532:THR:O	1:G:1534:ASP:N	2.34	0.61
1:A:1041:ALA:HB1	1:A:1042:PHE:CE1	2.36	0.61
1:A:679:LEU:HD11	1:A:768:ILE:HG12	1.81	0.61
1:A:912:GLU:O	1:A:916:LEU:N	2.29	0.61
1:D:1119:LYS:O	1:D:1121:MET:N	2.31	0.61
1:D:1246:CYS:CA	1:D:1328:ILE:HG23	2.29	0.61
1:D:1243:VAL:HG12	1:D:1325:ARG:N	2.16	0.61
1:D:1538:VAL:O	1:D:1539:ALA:HB3	2.00	0.61
1:D:807:LYS:HD3	1:D:807:LYS:C	2.21	0.61
2:E:241:ILE:CG2	2:E:242:GLY:H	2.13	0.61
2:B:319:LEU:CD2	2:B:335:PRO:HG3	2.31	0.61
2:H:1734:SER:O	2:H:1737:ILE:O	2.17	0.61
2:H:1740:THR:HB	2:H:1751:ILE:CG1	2.30	0.61
2:H:59:GLU:OE1	2:H:122:LEU:HA	2.00	0.61
2:B:408:PRO:CB	2:B:412:ARG:HD2	2.31	0.61
2:E:1885:LEU:HD22	2:E:1891:TYR:CD2	2.35	0.61
1:A:999:LYS:O	1:A:1001:VAL:N	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1024:UNK:O	2:H:1025:UNK:CB	2.48	0.61
1:G:503:UNK:C	1:G:505:UNK:H	2.11	0.61
1:G:428:UNK:C	1:G:430:UNK:N	2.62	0.61
2:B:797:UNK:C	2:B:799:UNK:N	2.61	0.61
1:D:1162:GLU:OE1	1:D:1163:TYR:CE1	2.52	0.61
1:G:1697:LEU:O	1:G:1698:PHE:HB3	2.00	0.61
1:G:852:ARG:O	1:G:854:HIS:N	2.33	0.61
1:A:1056:ILE:HG22	1:A:1057:MET:H	1.64	0.61
1:A:1063:HIS:O	1:A:1065:GLY:N	2.34	0.61
1:A:1083:PRO:HG2	1:A:1084:VAL:H	1.65	0.61
1:A:1286:TRP:HD1	1:A:1290:LEU:CD1	2.13	0.61
1:D:1057:MET:CE	1:D:1106:ILE:HD11	2.31	0.61
2:H:483:ILE:CG2	2:H:484:ILE:HG23	2.30	0.61
2:E:274:SER:C	2:E:483:ILE:HD11	2.21	0.61
2:E:1764:PHE:HD2	2:E:1764:PHE:N	1.98	0.61
2:B:1696:ASN:O	2:B:1700:ASP:HB2	2.01	0.61
2:B:1724:GLU:O	2:B:1729:ILE:HB	2.01	0.61
2:B:1812:TYR:C	2:B:1814:ALA:H	2.04	0.61
2:B:1698:PHE:HE1	2:B:1828:VAL:HG21	1.63	0.61
2:H:63:LYS:HD2	2:H:125:ASN:CG	2.21	0.61
1:G:1263:ASP:O	1:G:1264:ARG:CB	2.47	0.61
2:H:408:PRO:CB	2:H:412:ARG:HD2	2.30	0.61
2:E:1334:UNK:O	2:E:1335:UNK:O	2.18	0.61
2:E:1008:UNK:O	2:E:1009:UNK:C	2.47	0.61
2:H:569:UNK:CB	2:H:1074:UNK:HA	2.31	0.61
2:H:1453:UNK:C	2:H:1455:UNK:H	2.13	0.61
2:B:1453:UNK:C	2:B:1455:UNK:H	2.12	0.61
1:A:1156:GLU:N	1:A:1171:ALA:HB2	2.16	0.61
1:G:1232:TYR:C	1:G:1234:MET:H	2.03	0.61
1:G:1326:ILE:HG13	1:G:1388:MET:CG	2.30	0.61
1:G:1352:THR:O	1:G:1353:LEU:CB	2.48	0.61
1:G:1427:THR:C	1:G:1429:ALA:N	2.48	0.61
1:A:1029:PRO:HD2	1:A:1591:TRP:CH2	2.35	0.61
1:A:1119:LYS:CG	1:A:1121:MET:HB2	2.30	0.61
1:A:1243:VAL:CG1	1:A:1324:ALA:HA	2.30	0.61
1:A:1583:HIS:HB2	1:A:1585:LYS:HG2	1.81	0.61
1:A:1583:HIS:CG	1:A:1585:LYS:H	2.15	0.61
1:A:786:SER:O	1:A:789:GLU:N	2.33	0.61
1:D:1082:GLU:HA	1:D:1085:ASP:OD1	2.00	0.61
1:D:1095:THR:HA	1:D:1099:GLU:HB2	1.83	0.61
1:D:1241:SER:C	1:D:1243:VAL:H	2.03	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1326:ILE:N	1:D:1326:ILE:HD12	2.16	0.61
1:D:1607:GLY:O	1:D:1610:ASN:ND2	2.34	0.61
1:D:1676:LYS:O	1:D:1679:ALA:HB3	2.00	0.61
1:D:993:PRO:HD3	1:D:1681:GLU:CD	2.21	0.61
2:H:144:ALA:O	2:H:146:PHE:N	2.32	0.61
2:H:273:HIS:HB2	2:H:490:TRP:HZ3	1.64	0.61
2:E:267:LEU:CG	2:E:268:LYS:H	2.13	0.61
2:B:144:ALA:C	2:B:146:PHE:H	2.04	0.61
1:D:1473:GLU:O	1:D:1474:ALA:C	2.38	0.61
2:E:1685:LYS:O	2:E:1688:GLN:HB3	2.01	0.61
2:E:1789:PHE:O	2:E:1792:LEU:N	2.33	0.61
2:E:339:LEU:O	2:E:378:VAL:HA	2.00	0.61
2:B:1791:ASP:O	2:B:1794:SER:HB3	2.00	0.61
2:H:1773:ALA:O	2:H:1775:GLN:N	2.34	0.61
2:E:1966:UNK:HA	2:E:1970:UNK:CB	2.30	0.61
2:B:1051:UNK:C	2:B:1053:UNK:N	2.58	0.61
1:D:204:UNK:C	1:D:206:UNK:H	2.13	0.61
1:A:449:UNK:C	1:A:451:UNK:N	2.62	0.61
1:G:1095:THR:HA	1:G:1099:GLU:HB2	1.82	0.61
1:G:1261:PHE:N	1:G:1261:PHE:CD2	2.68	0.61
1:G:1522:LEU:O	1:G:1523:ARG:C	2.39	0.61
1:A:1105:LEU:HD22	1:A:1111:PHE:CZ	2.35	0.61
1:A:1522:LEU:O	1:A:1523:ARG:C	2.39	0.61
1:D:1418:VAL:HG12	1:D:1419:PRO:HA	1.83	0.61
1:D:905:LEU:HA	1:D:908:LEU:HB3	1.83	0.61
2:H:274:SER:C	2:H:483:ILE:HD11	2.20	0.61
1:G:1464:GLU:CA	1:G:1467:LEU:HD12	2.25	0.61
2:B:53:GLU:HG3	2:B:54:PRO:HD2	1.81	0.61
1:G:679:LEU:HD13	1:G:679:LEU:O	2.00	0.61
2:H:1885:LEU:HD22	2:H:1891:TYR:CD2	2.36	0.61
1:A:586:UNK:CB	1:A:671:VAL:N	2.61	0.61
2:H:1877:ARG:HB3	2:H:1929:LYS:HZ3	1.62	0.61
1:G:204:UNK:C	1:G:206:UNK:H	2.12	0.61
2:H:583:UNK:O	2:H:584:UNK:CB	2.48	0.61
1:G:1680:ARG:O	1:G:1684:ALA:N	2.34	0.61
2:E:1485:UNK:HA	2:E:1511:UNK:O	2.01	0.61
2:B:1397:UNK:O	2:B:1398:UNK:C	2.48	0.61
1:A:1178:ALA:O	1:A:1179:LEU:CB	2.49	0.61
1:D:1144:PHE:CD1	1:D:1145:LYS:N	2.68	0.61
1:G:1247:SER:O	1:G:1301:PRO:CD	2.48	0.61
1:G:1615:ASP:OD2	1:G:1617:ILE:HG12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:705:VAL:HG11	1:G:718:TYR:CE2	2.36	0.61
1:A:1308:SER:CB	1:A:1590:ALA:H	2.13	0.61
1:A:993:PRO:HD3	1:A:1681:GLU:CD	2.21	0.61
1:A:838:MET:HA	1:A:841:GLU:OE1	2.01	0.61
1:D:1190:PRO:O	1:D:1191:THR:HG23	2.01	0.61
1:D:1325:ARG:HB2	1:D:1389:GLN:HB2	1.83	0.61
1:D:1062:TYR:CE2	1:D:1693:ILE:HD12	2.31	0.61
1:D:717:TYR:HD2	1:D:718:TYR:CD1	2.19	0.61
1:G:1448:ARG:CA	1:G:1451:GLN:HB3	2.31	0.61
1:G:1455:ARG:HG3	1:G:1459:ILE:CG2	2.31	0.61
2:H:1674:GLN:NE2	2:H:1712:ASN:HA	2.15	0.61
2:H:1718:THR:CG2	2:H:1765:ARG:HA	2.30	0.61
1:D:1339:GLY:O	1:D:1341:PHE:O	2.19	0.61
1:D:1263:ASP:O	1:D:1264:ARG:CB	2.49	0.61
1:G:1494:HIS:O	1:G:1497:ALA:HB3	2.01	0.61
1:G:529:UNK:O	1:G:533:UNK:N	2.34	0.61
2:H:620:UNK:C	2:H:622:UNK:N	2.63	0.61
1:G:380:UNK:O	1:G:383:UNK:N	2.34	0.61
2:H:1585:UNK:C	2:H:1587:UNK:N	2.61	0.61
1:G:1084:VAL:O	1:G:1085:ASP:C	2.39	0.61
1:G:1207:GLN:CA	1:G:1207:GLN:HE21	2.12	0.61
1:G:1640:SER:HB2	1:G:1654:ILE:HB	1.82	0.61
1:G:873:ARG:CG	1:G:874:GLY:H	2.13	0.61
1:A:1351:ASN:ND2	1:A:1353:LEU:O	2.33	0.61
1:A:1419:PRO:HD3	1:A:1646:PHE:CD1	2.36	0.61
1:A:1685:TYR:O	1:A:1685:TYR:CD1	2.54	0.61
1:D:1060:ILE:C	1:D:1060:ILE:HD12	2.21	0.61
1:D:1354:GLU:C	1:D:1356:PHE:H	2.03	0.61
1:D:1536:LEU:H	1:D:1536:LEU:CD1	2.07	0.61
2:B:98:GLY:C	2:B:100:ASP:H	2.04	0.61
2:E:1740:THR:O	2:E:1750:LYS:HA	2.01	0.61
2:B:1709:ILE:O	2:B:1771:LEU:HD13	2.00	0.61
2:B:1821:VAL:CG2	2:B:1822:MET:H	2.11	0.61
2:H:1724:GLU:O	2:H:1729:ILE:HB	2.01	0.61
1:D:1334:ASP:CG	1:D:1335:PHE:H	2.04	0.61
1:A:1334:ASP:CG	1:A:1335:PHE:H	2.04	0.61
2:B:59:GLU:C	2:B:125:ASN:HD22	2.04	0.61
2:B:63:LYS:HD2	2:B:125:ASN:ND2	2.16	0.61
2:H:408:PRO:HG2	2:H:409:PHE:H	1.65	0.61
2:B:1885:LEU:HD22	2:B:1891:TYR:CD2	2.36	0.61
1:G:884:ILE:HG22	1:G:887:GLY:HA3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:UNK:O	1:A:494:UNK:C	2.48	0.61
2:B:949:UNK:O	2:B:951:UNK:N	2.34	0.61
2:B:569:UNK:CB	2:B:1074:UNK:HA	2.31	0.61
2:B:1377:UNK:HA	2:B:1391:UNK:HA	1.83	0.61
2:B:2006:UNK:C	2:B:2008:UNK:H	2.13	0.61
1:G:1241:SER:C	1:G:1243:VAL:H	2.04	0.61
1:G:1260:MET:HB3	1:G:1261:PHE:CD2	2.36	0.61
1:G:1354:GLU:C	1:G:1356:PHE:N	2.54	0.61
1:A:1423:LYS:HG2	1:A:1424:GLY:H	1.65	0.61
1:D:1022:THR:O	1:D:1401:TYR:HE2	1.84	0.61
1:D:1118:LYS:CE	1:D:1337:GLU:HG3	2.31	0.61
1:D:1659:ASP:HA	1:D:1662:TYR:CE2	2.36	0.61
2:E:159:ILE:HD12	2:E:501:ILE:HG21	1.82	0.61
2:E:504:PHE:HA	2:E:529:VAL:HG21	1.83	0.61
2:H:1709:ILE:O	2:H:1771:LEU:HD13	2.01	0.61
1:A:1259:GLY:CA	1:A:1263:ASP:HB2	2.25	0.61
2:H:63:LYS:HD2	2:H:125:ASN:ND2	2.16	0.61
2:H:71:LEU:O	2:H:72:VAL:HG13	2.01	0.61
2:E:56:THR:N	2:E:57:PRO:CD	2.64	0.61
1:G:1342:GLU:N	1:G:1345:ASN:HB2	2.16	0.61
1:D:586:UNK:HA	1:D:671:VAL:O	2.00	0.61
1:G:468:UNK:O	1:G:470:UNK:N	2.34	0.61
1:D:380:UNK:O	1:D:383:UNK:N	2.34	0.61
2:B:1008:UNK:O	2:B:1009:UNK:C	2.48	0.61
2:B:1983:UNK:C	2:B:1985:UNK:N	2.63	0.61
2:E:1397:UNK:O	2:E:1398:UNK:C	2.49	0.61
2:B:1431:UNK:O	2:B:1432:UNK:O	2.19	0.61
1:G:374:UNK:O	1:G:375:UNK:C	2.49	0.61
2:E:1305:UNK:O	2:E:1306:UNK:C	2.49	0.61
1:A:1139:GLU:N	1:A:1139:GLU:CD	2.54	0.60
1:D:1139:GLU:CD	1:D:1139:GLU:N	2.53	0.60
1:G:1060:ILE:HD12	1:G:1060:ILE:C	2.20	0.60
1:G:1418:VAL:HG12	1:G:1419:PRO:HA	1.83	0.60
1:G:1551:LYS:O	1:G:1553:GLU:N	2.34	0.60
1:G:1591:TRP:HA	1:G:1594:ASN:HD22	1.65	0.60
1:G:1688:PHE:O	1:G:1690:ASN:N	2.34	0.60
1:A:1553:GLU:HB2	1:A:1644:PHE:HE2	1.66	0.60
1:A:1659:ASP:HA	1:A:1662:TYR:CE2	2.36	0.60
1:A:716:ASP:C	1:A:719:GLN:HB3	2.20	0.60
1:D:1194:ASN:O	1:D:1195:ALA:HB2	1.99	0.60
1:D:796:LEU:O	1:D:800:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:910:THR:OG1	1:D:911:PRO:HD2	2.01	0.60
1:A:1455:ARG:HG3	1:A:1455:ARG:HH11	1.65	0.60
2:H:209:PHE:CE2	2:H:213:LEU:HD22	2.36	0.60
2:H:351:ASP:HA	2:H:354:ASN:HD22	1.65	0.60
2:H:514:VAL:O	2:H:517:HIS:HB3	2.00	0.60
2:E:444:VAL:O	2:E:446:ASN:N	2.33	0.60
1:G:1448:ARG:HD2	1:G:1448:ARG:O	2.01	0.60
1:D:1475:GLU:OE2	1:D:1479:SER:HA	2.01	0.60
1:A:1743:SER:O	1:A:1744:TYR:CB	2.48	0.60
1:D:1494:HIS:O	1:D:1497:ALA:HB3	2.00	0.60
1:D:525:UNK:O	1:D:527:UNK:N	2.34	0.60
1:G:368:UNK:C	1:G:370:UNK:N	2.63	0.60
2:E:2040:UNK:HA	2:E:2043:UNK:CB	2.31	0.60
1:G:1133:PRO:O	1:G:1134:PHE:CD1	2.54	0.60
1:G:1240:VAL:HG13	1:G:1242:GLU:HB3	1.83	0.60
1:G:1302:VAL:HG23	1:G:1303:GLY:N	2.15	0.60
1:G:1320:LEU:HG	1:G:1321:SER:N	2.17	0.60
1:G:1351:ASN:O	1:G:1353:LEU:O	2.19	0.60
1:G:1538:VAL:O	1:G:1539:ALA:HB3	2.01	0.60
1:A:1082:GLU:HA	1:A:1085:ASP:OD1	2.01	0.60
1:A:1541:PHE:HE2	1:A:1554:SER:HG	1.47	0.60
1:A:807:LYS:C	1:A:807:LYS:HD3	2.21	0.60
2:E:209:PHE:CE2	2:E:213:LEU:HD22	2.36	0.60
2:B:144:ALA:C	2:B:146:PHE:N	2.54	0.60
2:E:1680:LEU:O	2:E:1683:THR:N	2.34	0.60
2:E:1734:SER:O	2:E:1737:ILE:O	2.19	0.60
2:B:1676:MET:O	2:B:1678:MET:N	2.34	0.60
2:B:1773:ALA:O	2:B:1775:GLN:N	2.34	0.60
2:H:46:GLU:HG3	2:H:51:ASP:CB	2.27	0.60
2:B:41:LEU:H	2:B:42:PRO:CD	2.14	0.60
2:E:63:LYS:HD2	2:E:125:ASN:CG	2.21	0.60
1:G:586:UNK:CB	1:G:671:VAL:N	2.63	0.60
1:G:950:THR:O	1:G:954:ARG:HG2	2.01	0.60
1:A:428:UNK:C	1:A:430:UNK:N	2.62	0.60
1:D:1131:LEU:O	1:D:1173:LEU:HB2	2.01	0.60
1:G:1114:TYR:OH	1:G:1194:ASN:HA	2.01	0.60
1:G:1216:LEU:O	1:G:1217:VAL:C	2.39	0.60
1:G:1020:VAL:HG11	1:G:1400:ILE:HB	1.83	0.60
1:A:1241:SER:C	1:A:1243:VAL:H	2.03	0.60
1:A:1562:LYS:C	1:A:1564:LEU:H	2.05	0.60
1:D:1038:GLU:OE1	1:D:1045:PHE:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1354:GLU:C	1:D:1356:PHE:N	2.53	0.60
1:D:1426:LEU:CD1	1:D:1650:GLY:HA3	2.31	0.60
1:D:679:LEU:HD13	1:D:679:LEU:O	2.01	0.60
1:D:905:LEU:O	1:D:908:LEU:N	2.34	0.60
1:A:1459:ILE:HG13	1:A:1460:LYS:H	1.65	0.60
2:E:310:CYS:CB	2:E:432:LEU:HD11	2.31	0.60
2:E:1703:GLY:O	2:E:1704:PHE:CB	2.49	0.60
2:E:1703:GLY:O	2:E:1704:PHE:HD1	1.85	0.60
1:A:1473:GLU:O	1:A:1474:ALA:C	2.39	0.60
2:H:25:ALA:HB1	2:H:65:LEU:HD11	1.82	0.60
2:B:25:ALA:O	2:B:29:ILE:HB	2.00	0.60
2:B:63:LYS:HD2	2:B:125:ASN:CG	2.22	0.60
1:G:752:ILE:HA	1:G:761:LEU:CD2	2.24	0.60
2:B:1864:ALA:O	2:B:1866:PHE:N	2.33	0.60
1:D:525:UNK:O	1:D:528:UNK:N	2.34	0.60
2:H:1329:UNK:O	2:H:1333:UNK:CB	2.49	0.60
2:H:617:UNK:O	2:H:652:UNK:O	2.19	0.60
1:D:552:UNK:O	1:D:555:UNK:N	2.34	0.60
2:H:1291:UNK:CB	2:H:1369:UNK:H	2.14	0.60
1:G:1041:ALA:HB1	1:G:1042:PHE:CE1	2.36	0.60
1:G:1232:TYR:O	1:G:1234:MET:N	2.33	0.60
1:G:1389:GLN:O	1:G:1390:ALA:HB3	2.01	0.60
1:G:1420:ALA:O	1:G:1421:PRO:C	2.40	0.60
1:G:807:LYS:HD3	1:G:807:LYS:C	2.21	0.60
1:A:1302:VAL:HG23	1:A:1303:GLY:N	2.16	0.60
1:A:1364:GLU:C	1:A:1366:SER:H	2.04	0.60
1:A:710:PHE:HD2	1:A:711:SER:H	1.50	0.60
1:A:678:VAL:HG13	1:A:767:ALA:O	2.01	0.60
1:A:899:LYS:C	1:A:901:MET:N	2.54	0.60
1:D:1276:GLN:O	1:D:1279:PHE:HD2	1.84	0.60
1:D:1326:ILE:HG13	1:D:1388:MET:SD	2.42	0.60
1:D:1419:PRO:HD3	1:D:1646:PHE:HD1	1.66	0.60
1:D:1697:LEU:N	1:D:1697:LEU:HD12	2.09	0.60
2:E:1676:MET:O	2:E:1678:MET:N	2.34	0.60
2:E:1770:LEU:C	2:E:1770:LEU:HD23	2.22	0.60
2:B:1789:PHE:O	2:B:1792:LEU:N	2.35	0.60
1:D:1184:LEU:HD22	1:D:1341:PHE:CD2	2.31	0.60
2:E:1173:UNK:CB	2:E:1180:UNK:HA	2.31	0.60
2:B:1883:GLY:HA2	2:B:1894:GLU:CD	2.22	0.60
2:B:1295:UNK:C	2:B:1297:UNK:N	2.63	0.60
1:A:1144:PHE:O	1:A:1148:HIS:N	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1036:ARG:NE	1:G:1037:TRP:N	2.49	0.60
1:G:1112:ASN:ND2	1:G:1117:GLU:O	2.35	0.60
1:G:1422:GLY:C	1:G:1425:ILE:HB	2.22	0.60
1:G:1589:GLY:HA2	1:G:1592:MET:HE3	1.84	0.60
1:G:899:LYS:C	1:G:901:MET:N	2.54	0.60
1:A:1111:PHE:HB3	1:A:1114:TYR:CD1	2.37	0.60
1:A:1253:GLY:O	1:A:1254:VAL:O	2.18	0.60
1:D:1299:LYS:HZ3	1:D:1323:LYS:NZ	1.99	0.60
1:D:1403:ILE:C	1:D:1655:VAL:HG22	2.21	0.60
1:D:1701:LYS:HE3	1:D:1701:LYS:N	2.17	0.60
2:E:272:GLY:HA3	2:E:276:GLY:O	2.00	0.60
2:E:1812:TYR:C	2:E:1814:ALA:H	2.04	0.60
2:E:1778:GLN:HE22	2:E:1834:ARG:HD3	1.66	0.60
2:H:1834:ARG:NH1	2:H:1834:ARG:HG3	2.16	0.60
1:A:1340:SER:C	1:A:1341:PHE:O	2.34	0.60
2:B:56:THR:N	2:B:57:PRO:CD	2.64	0.60
1:A:1717:ASP:O	1:A:1719:LEU:N	2.34	0.60
2:B:197:GLU:C	2:B:199:ILE:H	2.05	0.60
1:D:644:UNK:O	1:D:646:UNK:N	2.35	0.60
2:H:1916:PHE:O	2:H:1917:ILE:HD13	2.02	0.60
1:A:893:VAL:C	1:A:895:THR:H	2.04	0.60
2:H:1605:UNK:C	2:H:1607:UNK:H2	2.14	0.60
2:E:1377:UNK:HA	2:E:1391:UNK:HA	1.83	0.60
1:G:1029:PRO:HD2	1:G:1591:TRP:CH2	2.36	0.60
1:G:1243:VAL:CG1	1:G:1324:ALA:HA	2.29	0.60
1:G:1423:LYS:HG2	1:G:1424:GLY:H	1.65	0.60
1:A:1351:ASN:O	1:A:1353:LEU:O	2.20	0.60
1:A:705:VAL:HG11	1:A:718:TYR:CE2	2.36	0.60
1:D:1000:GLN:C	1:D:1002:LYS:N	2.54	0.60
1:D:1052:GLU:O	1:D:1056:ILE:HG13	2.02	0.60
1:D:1029:PRO:HG2	1:D:1581:THR:HG23	1.84	0.60
1:D:1448:ARG:CA	1:D:1451:GLN:HB3	2.31	0.60
1:D:1459:ILE:HG13	1:D:1460:LYS:H	1.66	0.60
2:E:467:ASP:C	2:E:469:ARG:H	2.05	0.60
2:B:259:THR:N	2:B:262:GLU:HG3	2.15	0.60
2:E:1715:VAL:CG2	2:E:1770:LEU:H	2.14	0.60
2:H:1740:THR:O	2:H:1750:LYS:HA	2.02	0.60
2:E:77:VAL:HG12	2:E:78:GLY:N	2.17	0.60
1:G:839:TYR:CE1	1:G:843:LYS:HE2	2.36	0.60
2:B:2040:UNK:HA	2:B:2043:UNK:CB	2.31	0.60
2:E:450:PHE:CD1	2:E:451:ASN:N	2.63	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:UNK:C	1:A:657:UNK:N	2.61	0.60
1:A:1208:VAL:O	1:A:1277:GLU:HG2	2.02	0.60
1:A:1573:ILE:HG23	1:A:1624:VAL:CG1	2.31	0.60
1:A:1641:ILE:CD1	1:A:1641:ILE:H	2.01	0.60
1:A:1408:ALA:H	1:A:1653:ALA:HB2	1.66	0.60
1:A:905:LEU:O	1:A:908:LEU:N	2.35	0.60
1:D:1039:MET:HE3	1:D:1039:MET:HA	1.84	0.60
1:D:1319:ILE:HA	1:D:1324:ALA:O	2.02	0.60
1:D:705:VAL:HG11	1:D:718:TYR:CE2	2.37	0.60
1:D:1455:ARG:HG3	1:D:1459:ILE:CG2	2.31	0.60
1:A:1015:LEU:HD23	1:A:1018:VAL:HG12	1.84	0.60
1:A:1456:GLU:H	1:A:1459:ILE:HG13	1.66	0.60
2:H:213:LEU:O	2:H:215:ILE:HG13	2.01	0.60
2:B:289:TRP:HA	2:B:292:PHE:HB3	1.82	0.60
2:B:1685:LYS:O	2:B:1688:GLN:HB3	2.02	0.60
2:B:1734:SER:O	2:B:1737:ILE:O	2.20	0.60
2:H:91:PHE:CZ	2:H:101:ILE:HD11	2.37	0.60
1:D:497:UNK:C	1:D:499:UNK:N	2.61	0.60
2:E:620:UNK:C	2:E:622:UNK:N	2.63	0.60
2:H:1591:UNK:C	2:H:1593:UNK:N	2.65	0.60
1:G:385:UNK:O	1:G:388:UNK:CB	2.49	0.60
1:A:1268:GLU:HB3	1:A:1269:PRO:HD2	1.84	0.60
2:E:1585:UNK:C	2:E:1587:UNK:N	2.60	0.60
1:G:544:UNK:O	1:G:548:UNK:N	2.35	0.60
2:H:2006:UNK:C	2:H:2008:UNK:H	2.14	0.60
2:E:775:UNK:O	2:E:776:UNK:O	2.20	0.60
1:D:1159:GLU:C	1:D:1166:LYS:HD3	2.21	0.60
1:G:1021:VAL:HG11	1:G:1597:LEU:CD1	2.32	0.60
1:G:1657:HIS:CG	1:G:1658:PRO:HD2	2.36	0.60
1:A:1118:LYS:CE	1:A:1337:GLU:HG3	2.32	0.60
1:A:1240:VAL:HG13	1:A:1242:GLU:HB3	1.83	0.60
1:A:1243:VAL:HG12	1:A:1325:ARG:N	2.16	0.60
1:A:1370:THR:HG22	1:A:1613:ASN:O	2.01	0.60
1:D:1083:PRO:HG2	1:D:1084:VAL:H	1.67	0.60
1:D:1197:THR:HA	1:D:1200:ILE:CG2	2.32	0.60
1:D:1362:PRO:HA	1:D:1365:MET:CE	2.32	0.60
1:D:1421:PRO:HG2	1:D:1549:ASN:HB2	1.84	0.60
1:D:712:LYS:HE2	1:D:716:ASP:OD2	2.01	0.60
1:D:752:ILE:HA	1:D:761:LEU:CD2	2.23	0.60
1:A:1448:ARG:CA	1:A:1451:GLN:HB3	2.30	0.60
2:H:310:CYS:CB	2:H:432:LEU:HD11	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:156:LEU:HD12	2:H:500:HIS:HB2	1.84	0.60
2:B:504:PHE:HA	2:B:529:VAL:HG21	1.82	0.60
2:E:350:GLN:O	2:E:353:VAL:N	2.34	0.60
2:H:1676:MET:O	2:H:1678:MET:N	2.35	0.60
2:H:1689:ASP:HA	2:H:1692:ASN:HB2	1.83	0.60
2:H:1695:ASP:CG	2:H:1705:SER:HB2	2.22	0.60
2:E:91:PHE:CZ	2:E:101:ILE:HD11	2.37	0.60
2:B:2049:UNK:O	2:B:2050:UNK:C	2.49	0.60
2:B:775:UNK:O	2:B:776:UNK:O	2.19	0.60
2:H:1346:UNK:O	2:H:1348:UNK:N	2.35	0.60
1:G:1223:PHE:CD1	1:G:1231:PRO:HB3	2.36	0.60
1:G:1364:GLU:C	1:G:1366:SER:H	2.05	0.60
1:G:1409:THR:O	1:G:1409:THR:HG23	2.02	0.60
1:G:905:LEU:HA	1:G:908:LEU:HB3	1.84	0.60
1:A:1105:LEU:HB3	1:A:1111:PHE:CE2	2.36	0.60
1:A:1191:THR:HB	1:A:1193:TRP:CZ3	2.37	0.60
1:A:1257:LEU:HD23	1:A:1257:LEU:O	2.02	0.60
1:A:1307:THR:HG21	1:A:1586:GLY:HA2	1.82	0.60
1:D:1041:ALA:HB1	1:D:1042:PHE:CE1	2.36	0.60
1:D:1067:LEU:CD2	1:D:1074:GLY:N	2.65	0.60
1:D:1020:VAL:HG11	1:D:1400:ILE:HB	1.83	0.60
1:D:1553:GLU:C	1:D:1555:ALA:H	2.05	0.60
1:D:925:ASP:C	1:D:926:LEU:HD23	2.22	0.60
1:A:1448:ARG:O	1:A:1448:ARG:HD2	2.01	0.60
2:H:159:ILE:HD12	2:H:501:ILE:HG21	1.84	0.60
2:B:1737:ILE:HD13	2:B:1738:PHE:H	1.66	0.60
2:B:1834:ARG:HG3	2:B:1834:ARG:NH1	2.17	0.60
1:D:1341:PHE:O	1:D:1343:PHE:N	2.35	0.60
2:H:33:LEU:O	2:H:37:PHE:HB2	2.02	0.60
2:H:197:GLU:C	2:H:199:ILE:H	2.05	0.60
2:B:1882:THR:HB	2:B:1885:LEU:HD21	1.84	0.60
2:E:1878:VAL:HB	2:E:1898:TYR:CE1	2.37	0.60
2:E:2049:UNK:O	2:E:2050:UNK:C	2.50	0.60
2:B:1884:TRP:HB2	2:B:1892:ASN:HD22	1.65	0.60
1:D:574:UNK:C	1:D:576:UNK:N	2.63	0.60
1:D:655:UNK:C	1:D:657:UNK:N	2.61	0.60
2:H:1377:UNK:HA	2:H:1391:UNK:HA	1.83	0.60
1:D:1168:LEU:HD22	1:D:1169:LYS:N	2.13	0.60
1:G:1038:GLU:OE1	1:G:1045:PHE:HA	2.02	0.60
1:G:1082:GLU:HA	1:G:1085:ASP:OD1	2.02	0.60
1:G:1421:PRO:HG2	1:G:1549:ASN:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1524:GLY:O	1:G:1527:ALA:HB3	2.02	0.60
1:G:1677:VAL:C	1:G:1679:ALA:H	2.05	0.60
1:G:1062:TYR:CE2	1:G:1693:ILE:HD12	2.31	0.60
1:A:1080:THR:O	1:A:1081:LYS:C	2.40	0.60
1:A:1118:LYS:HG3	1:A:1120:GLU:HG2	1.84	0.60
1:A:1194:ASN:O	1:A:1195:ALA:HB2	2.01	0.60
1:A:1208:VAL:HG12	1:A:1286:TRP:CH2	2.37	0.60
1:A:1532:THR:O	1:A:1534:ASP:N	2.34	0.60
1:A:1421:PRO:HG2	1:A:1549:ASN:HB2	1.84	0.60
1:D:1320:LEU:HG	1:D:1321:SER:N	2.17	0.60
1:D:791:ALA:O	1:D:795:MET:N	2.32	0.60
2:E:213:LEU:O	2:E:215:ILE:HG13	2.02	0.60
2:B:1720:HIS:HB3	2:B:1763:THR:HG23	1.84	0.60
2:B:1752:PHE:O	2:B:1753:LYS:O	2.20	0.60
2:B:1764:PHE:O	2:B:1765:ARG:HB3	2.02	0.60
2:H:56:THR:CG2	2:H:59:GLU:HG3	2.25	0.60
2:H:1882:THR:HB	2:H:1885:LEU:HD21	1.84	0.60
2:E:197:GLU:C	2:E:199:ILE:H	2.04	0.60
1:A:1489:ARG:O	1:A:1493:ILE:HG23	2.02	0.60
1:D:1743:SER:O	1:D:1744:TYR:CB	2.49	0.60
1:A:529:UNK:O	1:A:533:UNK:N	2.35	0.60
2:B:1305:UNK:O	2:B:1306:UNK:C	2.50	0.60
2:B:1346:UNK:O	2:B:1348:UNK:N	2.35	0.60
1:A:1144:PHE:HA	1:A:1147:GLN:HB2	1.84	0.59
1:A:1145:LYS:O	1:A:1148:HIS:HB3	2.01	0.59
1:G:1238:VAL:HA	1:G:1721:ARG:H	1.67	0.59
1:A:1067:LEU:HD22	1:A:1067:LEU:C	2.22	0.59
1:A:1705:PRO:HG2	1:A:1706:TYR:H	1.67	0.59
1:A:715:THR:HG21	1:A:1364:GLU:OE2	2.02	0.59
1:D:1222:ALA:O	1:D:1225:ALA:HB3	2.01	0.59
1:D:1370:THR:HG22	1:D:1613:ASN:O	2.02	0.59
2:E:299:ALA:O	2:E:302:VAL:HB	2.02	0.59
2:B:273:HIS:HB2	2:B:490:TRP:HZ3	1.67	0.59
2:H:1696:ASN:O	2:H:1700:ASP:HB2	2.01	0.59
2:H:49:ALA:N	2:H:118:LYS:NZ	2.50	0.59
2:E:31:SER:O	2:E:33:LEU:N	2.34	0.59
2:E:39:LYS:O	2:E:42:PRO:HD2	2.02	0.59
1:D:753:TYR:CD2	1:D:809:GLN:HG3	2.36	0.59
1:G:586:UNK:HA	1:G:671:VAL:O	2.01	0.59
2:B:418:ASN:N	2:B:418:ASN:ND2	2.50	0.59
2:H:1909:THR:HG21	2:H:1927:LEU:CD1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1743:SER:O	1:G:1744:TYR:HB3	2.02	0.59
1:G:930:LEU:O	1:G:933:VAL:HG23	2.01	0.59
2:E:1370:UNK:O	2:E:1371:UNK:CB	2.50	0.59
2:E:593:UNK:O	2:E:595:UNK:N	2.34	0.59
2:B:2011:UNK:C	2:B:2013:UNK:N	2.61	0.59
2:E:1346:UNK:O	2:E:1348:UNK:N	2.35	0.59
1:A:1132:GLU:N	1:A:1133:PRO:CD	2.64	0.59
1:G:1005:ALA:HB3	1:G:1006:PRO:CD	2.32	0.59
1:G:1223:PHE:HD2	1:G:1386:ILE:HD13	1.66	0.59
1:G:1351:ASN:ND2	1:G:1353:LEU:O	2.35	0.59
1:G:1362:PRO:O	1:G:1365:MET:HE2	2.02	0.59
1:G:905:LEU:O	1:G:908:LEU:N	2.35	0.59
1:A:1541:PHE:CG	1:A:1576:PHE:HE1	2.19	0.59
1:A:769:ILE:HB	1:A:823:ILE:HD11	1.83	0.59
1:A:910:THR:OG1	1:A:911:PRO:HD2	2.01	0.59
1:D:1119:LYS:CG	1:D:1121:MET:HB2	2.31	0.59
1:D:1236:LYS:O	1:D:1237:TYR:HD1	1.85	0.59
1:D:1362:PRO:O	1:D:1365:MET:HE2	2.02	0.59
1:D:1403:ILE:HG23	1:D:1656:VAL:O	2.02	0.59
1:D:1615:ASP:OD2	1:D:1617:ILE:HG12	2.01	0.59
1:A:1464:GLU:HA	1:A:1467:LEU:CD1	2.27	0.59
2:H:261:GLY:HA2	2:H:264:ARG:HG2	1.83	0.59
1:G:1011:GLY:O	1:G:1663:GLY:HA3	2.02	0.59
2:E:1724:GLU:O	2:E:1729:ILE:HB	2.02	0.59
2:E:349:VAL:CG2	2:E:377:LEU:HD13	2.31	0.59
2:B:1703:GLY:O	2:B:1704:PHE:HD1	1.85	0.59
2:B:1720:HIS:C	2:B:1721:PHE:CD1	2.75	0.59
1:A:1258:ARG:HG2	1:A:1263:ASP:OD2	2.02	0.59
2:B:33:LEU:O	2:B:37:PHE:HB2	2.02	0.59
2:B:71:LEU:O	2:B:72:VAL:HG13	2.02	0.59
2:E:122:LEU:HD23	2:E:123:ILE:N	2.17	0.59
2:E:34:GLN:O	2:E:38:ASN:HB3	2.01	0.59
1:A:808:LYS:HE3	1:A:808:LYS:CA	2.29	0.59
1:G:907:GLY:O	1:G:909:LEU:N	2.35	0.59
2:B:2001:UNK:C	2:B:2003:UNK:N	2.66	0.59
1:G:574:UNK:C	1:G:576:UNK:N	2.61	0.59
2:E:1916:PHE:O	2:E:1917:ILE:HD13	2.02	0.59
1:A:380:UNK:O	1:A:383:UNK:N	2.35	0.59
2:E:617:UNK:O	2:E:652:UNK:O	2.19	0.59
2:H:704:UNK:HA	2:H:707:UNK:CB	2.32	0.59
1:D:1680:ARG:O	1:D:1684:ALA:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1067:LEU:CD2	1:G:1074:GLY:N	2.64	0.59
1:A:1216:LEU:O	1:A:1217:VAL:C	2.39	0.59
1:A:1354:GLU:C	1:A:1356:PHE:N	2.55	0.59
1:A:1413:LYS:HG2	1:A:1414:ILE:H	1.66	0.59
1:A:689:GLY:HA2	1:A:692:VAL:HB	1.84	0.59
1:A:839:TYR:CE1	1:A:843:LYS:HE2	2.37	0.59
2:E:240:LEU:H	2:E:240:LEU:HD12	1.66	0.59
2:B:310:CYS:HB3	2:B:432:LEU:HD11	1.83	0.59
2:B:366:VAL:CG2	2:B:381:GLY:HA3	2.25	0.59
2:B:504:PHE:HA	2:B:529:VAL:HG23	1.85	0.59
2:B:1715:VAL:CG2	2:B:1770:LEU:H	2.14	0.59
2:B:1826:SER:O	2:B:1829:GLU:HB3	2.01	0.59
2:H:1691:TRP:O	2:H:1692:ASN:C	2.39	0.59
1:A:1340:SER:O	1:A:1341:PHE:CB	2.50	0.59
2:E:1874:VAL:HG22	2:E:1928:GLN:NE2	2.16	0.59
1:G:1319:ILE:HA	1:G:1324:ALA:O	2.02	0.59
1:G:1541:PHE:O	1:G:1542:HIS:CB	2.49	0.59
1:G:910:THR:OG1	1:G:911:PRO:HD2	2.02	0.59
1:A:1099:GLU:CG	1:A:1100:HIS:H	1.99	0.59
1:A:1112:ASN:ND2	1:A:1117:GLU:O	2.34	0.59
1:A:1197:THR:HA	1:A:1200:ILE:CG2	2.32	0.59
1:A:1223:PHE:CD1	1:A:1231:PRO:HB3	2.37	0.59
1:A:1240:VAL:O	1:A:1242:GLU:N	2.35	0.59
1:A:1348:ALA:O	1:A:1349:THR:C	2.40	0.59
1:A:1376:PHE:CD2	1:A:1584:PRO:HD2	2.36	0.59
1:D:1076:VAL:HG21	1:D:1087:LYS:HA	1.85	0.59
1:D:1286:TRP:O	1:D:1288:ASN:N	2.36	0.59
1:D:1389:GLN:O	1:D:1390:ALA:HB3	2.01	0.59
1:D:1420:ALA:O	1:D:1421:PRO:C	2.40	0.59
1:D:826:MET:HG3	1:D:867:ALA:H	1.68	0.59
2:H:267:LEU:HG	2:H:457:ILE:CD1	2.33	0.59
2:H:319:LEU:CD2	2:H:335:PRO:HG3	2.32	0.59
2:E:98:GLY:C	2:E:100:ASP:H	2.05	0.59
2:B:346:GLN:O	2:B:348:GLN:N	2.35	0.59
2:B:351:ASP:HA	2:B:354:ASN:HD22	1.67	0.59
2:B:156:LEU:HD12	2:B:500:HIS:HB2	1.84	0.59
2:B:1715:VAL:HG13	2:B:1716:ASN:H	1.67	0.59
2:H:1720:HIS:HB3	2:H:1763:THR:HG23	1.84	0.59
2:H:1778:GLN:HE22	2:H:1834:ARG:HD3	1.66	0.59
2:H:29:ILE:C	2:H:31:SER:N	2.56	0.59
1:G:769:ILE:HB	1:G:823:ILE:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:HIS:O	1:G:796:LEU:HD23	2.02	0.59
2:E:49:ALA:N	2:E:118:LYS:NZ	2.50	0.59
1:D:877:LEU:O	1:D:878:MET:CB	2.47	0.59
1:G:1280:ILE:H	1:G:1280:ILE:HD12	1.63	0.59
1:G:1743:SER:O	1:G:1744:TYR:CB	2.49	0.59
2:H:2001:UNK:C	2:H:2003:UNK:N	2.65	0.59
2:E:1418:UNK:C	2:E:1420:UNK:N	2.65	0.59
2:E:2011:UNK:C	2:E:2013:UNK:N	2.61	0.59
1:G:1105:LEU:HD22	1:G:1111:PHE:CZ	2.38	0.59
1:G:1292:ILE:CG1	1:G:1292:ILE:O	2.49	0.59
1:G:1430:ARG:CG	1:G:1431:GLU:N	2.58	0.59
1:A:1067:LEU:CD2	1:A:1074:GLY:N	2.65	0.59
1:A:1693:ILE:HG13	1:A:1694:TYR:N	2.17	0.59
1:A:733:ILE:CD1	1:A:761:LEU:HD13	2.33	0.59
1:D:1079:LYS:CD	1:D:1098:LEU:HD21	2.31	0.59
1:D:1105:LEU:HB3	1:D:1111:PHE:CE2	2.37	0.59
1:D:1240:VAL:HG13	1:D:1242:GLU:HB3	1.84	0.59
1:D:1551:LYS:O	1:D:1553:GLU:N	2.34	0.59
2:H:289:TRP:HA	2:H:292:PHE:HB3	1.84	0.59
2:E:483:ILE:CG2	2:E:484:ILE:HG23	2.32	0.59
2:E:1689:ASP:HA	2:E:1692:ASN:HB2	1.84	0.59
2:H:1680:LEU:O	2:H:1683:THR:N	2.35	0.59
2:E:29:ILE:HD13	2:E:29:ILE:O	2.03	0.59
2:E:404:GLN:HG3	2:E:408:PRO:CG	2.31	0.59
1:D:428:UNK:C	1:D:430:UNK:N	2.62	0.59
2:E:1919:LEU:O	2:E:1919:LEU:HD23	2.02	0.59
3:I:54:UNK:O	3:I:55:UNK:CB	2.50	0.59
2:B:767:UNK:C	2:B:769:UNK:N	2.65	0.59
2:H:775:UNK:O	2:H:776:UNK:O	2.21	0.59
2:H:1397:UNK:O	2:H:1398:UNK:C	2.49	0.59
3:F:54:UNK:O	3:F:55:UNK:CB	2.50	0.59
2:E:1431:UNK:O	2:E:1432:UNK:O	2.20	0.59
1:A:1141:ALA:O	1:A:1143:GLN:N	2.35	0.59
1:A:1156:GLU:CD	1:A:1156:GLU:C	2.60	0.59
1:G:1112:ASN:HA	1:G:1114:TYR:HB2	1.84	0.59
1:G:1240:VAL:O	1:G:1242:GLU:N	2.35	0.59
1:A:1236:LYS:O	1:A:1237:TYR:HD1	1.84	0.59
1:A:1247:SER:O	1:A:1301:PRO:HD2	2.02	0.59
1:A:1354:GLU:O	1:A:1358:HIS:HB2	2.01	0.59
1:A:1657:HIS:CG	1:A:1658:PRO:HD2	2.38	0.59
1:A:798:ASN:O	1:A:802:MET:N	2.23	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1294:SER:C	1:D:1296:GLY:H	2.05	0.59
1:D:1618:LEU:HB3	1:D:1623:TYR:HE2	1.67	0.59
1:D:1707:THR:HG23	1:D:1710:LEU:HG	1.85	0.59
2:H:272:GLY:HA3	2:H:276:GLY:O	2.02	0.59
2:E:144:ALA:C	2:E:146:PHE:N	2.55	0.59
2:E:455:ILE:HD12	2:E:469:ARG:CB	2.24	0.59
2:B:299:ALA:O	2:B:302:VAL:HB	2.03	0.59
2:E:1737:ILE:HD13	2:E:1738:PHE:H	1.68	0.59
2:B:1703:GLY:O	2:B:1721:PHE:HE2	1.86	0.59
2:B:1821:VAL:CG2	2:B:1822:MET:N	2.66	0.59
2:H:1703:GLY:O	2:H:1704:PHE:CB	2.51	0.59
2:H:1764:PHE:O	2:H:1765:ARG:HB3	2.03	0.59
2:H:1789:PHE:O	2:H:1790:GLU:C	2.41	0.59
2:B:29:ILE:HD13	2:B:29:ILE:O	2.02	0.59
2:E:63:LYS:HD2	2:E:125:ASN:ND2	2.17	0.59
1:A:1494:HIS:O	1:A:1497:ALA:HB3	2.02	0.59
1:D:1743:SER:O	1:D:1744:TYR:HB3	2.02	0.59
1:D:549:UNK:C	1:D:551:UNK:N	2.65	0.59
1:D:493:UNK:O	1:D:494:UNK:C	2.50	0.59
2:B:1605:UNK:C	2:B:1607:UNK:H2	2.14	0.59
2:E:1983:UNK:C	2:E:1985:UNK:N	2.64	0.59
2:H:1581:UNK:O	2:H:1582:UNK:CB	2.51	0.59
1:G:1165:VAL:HG23	1:G:1166:LYS:N	2.17	0.59
1:G:1076:VAL:HG21	1:G:1087:LYS:HA	1.84	0.59
1:G:1525:ALA:C	1:G:1527:ALA:H	2.05	0.59
1:G:1431:GLU:OE1	1:G:1564:LEU:HD13	2.03	0.59
1:A:1110:LEU:HD11	1:A:1188:GLN:N	2.16	0.59
1:A:1202:ASP:O	1:A:1203:ASP:CB	2.51	0.59
1:A:1276:GLN:O	1:A:1279:PHE:HD2	1.86	0.59
1:A:1650:GLY:O	1:A:1651:GLY:O	2.19	0.59
1:D:1191:THR:CA	1:D:1193:TRP:CH2	2.86	0.59
1:D:1311:SER:O	1:D:1314:ILE:N	2.34	0.59
1:D:1604:ILE:N	1:D:1604:ILE:HD13	2.17	0.59
1:D:689:GLY:HA2	1:D:692:VAL:HB	1.83	0.59
1:D:1009:LEU:HD12	1:D:1009:LEU:N	2.17	0.59
1:D:1456:GLU:O	1:D:1460:LYS:HB2	2.02	0.59
2:H:98:GLY:C	2:H:100:ASP:H	2.05	0.59
2:E:260:PRO:HB2	2:E:286:THR:HB	1.85	0.59
2:B:286:THR:HG23	2:B:292:PHE:HA	1.83	0.59
2:E:1752:PHE:O	2:E:1753:LYS:O	2.20	0.59
2:H:1715:VAL:HG13	2:H:1716:ASN:H	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1729:ILE:HG23	2:H:1730:ARG:N	2.11	0.59
2:H:1751:ILE:HG21	2:H:1836:MET:SD	2.43	0.59
2:B:1878:VAL:HB	2:B:1898:TYR:CE1	2.38	0.59
1:A:1743:SER:O	1:A:1744:TYR:HB3	2.01	0.59
1:D:1491:ARG:C	1:D:1493:ILE:H	2.06	0.59
1:D:1444:ASN:ND2	1:D:1444:ASN:N	2.49	0.59
1:D:468:UNK:O	1:D:470:UNK:N	2.35	0.59
1:A:468:UNK:O	1:A:470:UNK:N	2.35	0.59
1:A:928:GLY:O	1:A:930:LEU:N	2.36	0.59
1:G:549:UNK:C	1:G:551:UNK:N	2.65	0.59
1:G:1190:PRO:HG2	1:G:1379:ALA:HA	1.85	0.59
1:G:1236:LYS:O	1:G:1237:TYR:HD1	1.85	0.59
1:G:1705:PRO:HG2	1:G:1706:TYR:H	1.67	0.59
1:G:712:LYS:HE2	1:G:716:ASP:OD2	2.03	0.59
1:G:901:MET:HE3	1:G:905:LEU:HD23	1.85	0.59
1:A:1294:SER:C	1:A:1296:GLY:H	2.05	0.59
1:A:1320:LEU:HG	1:A:1321:SER:N	2.17	0.59
1:A:1188:GLN:NE2	1:A:1352:THR:OG1	2.25	0.59
1:A:858:TRP:HE3	1:A:862:LEU:HB2	1.67	0.59
1:D:1362:PRO:HA	1:D:1365:MET:HE1	1.84	0.59
2:H:346:GLN:O	2:H:348:GLN:N	2.35	0.59
2:E:1720:HIS:HB3	2:E:1763:THR:HG23	1.83	0.59
2:E:1812:TYR:O	2:E:1816:ALA:CB	2.51	0.59
2:B:1778:GLN:HE22	2:B:1834:ARG:HD3	1.66	0.59
1:D:1340:SER:O	1:D:1341:PHE:CB	2.51	0.59
2:H:1:MET:CB	2:H:11:LEU:HB2	2.28	0.59
2:H:41:LEU:H	2:H:42:PRO:CD	2.15	0.59
2:H:56:THR:N	2:H:57:PRO:CD	2.66	0.59
2:B:34:GLN:O	2:B:38:ASN:HB3	2.02	0.59
2:B:95:TYR:H	2:B:96:LEU:HD23	1.67	0.59
1:A:644:UNK:O	1:A:646:UNK:N	2.35	0.59
1:G:644:UNK:O	1:G:646:UNK:N	2.36	0.59
1:A:495:UNK:C	1:A:497:UNK:N	2.64	0.59
1:A:368:UNK:C	1:A:370:UNK:N	2.62	0.59
2:H:593:UNK:O	2:H:595:UNK:N	2.36	0.59
1:D:1165:VAL:HG23	1:D:1166:LYS:N	2.18	0.59
1:G:1022:THR:O	1:G:1401:TYR:HE2	1.86	0.59
1:G:1294:SER:C	1:G:1296:GLY:H	2.06	0.59
1:G:1592:MET:O	1:G:1596:ALA:N	2.35	0.59
1:G:1573:ILE:HG23	1:G:1624:VAL:CG1	2.33	0.59
1:G:905:LEU:N	1:G:905:LEU:HD22	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:925:ASP:C	1:G:926:LEU:HD23	2.22	0.59
1:A:1026:GLU:O	1:A:1032:SER:HA	2.03	0.59
1:A:1073:THR:CG2	1:A:1074:GLY:N	2.66	0.59
1:A:1084:VAL:O	1:A:1085:ASP:C	2.40	0.59
1:A:1095:THR:HA	1:A:1099:GLU:HB2	1.83	0.59
1:A:1121:MET:O	1:A:1183:ARG:HA	2.02	0.59
1:A:1319:ILE:HD12	1:A:1325:ARG:HA	1.85	0.59
1:A:1326:ILE:HG13	1:A:1388:MET:SD	2.42	0.59
1:A:1420:ALA:O	1:A:1421:PRO:C	2.39	0.59
1:A:1532:THR:OG1	1:A:1535:ASP:N	2.35	0.59
1:A:1697:LEU:N	1:A:1697:LEU:HD12	2.11	0.59
1:D:595:UNK:O	1:D:611:UNK:HA	2.03	0.59
1:D:910:THR:O	1:D:911:PRO:O	2.20	0.59
1:A:1456:GLU:O	1:A:1460:LYS:HB2	2.03	0.59
2:B:467:ASP:C	2:B:469:ARG:H	2.05	0.59
2:B:1703:GLY:O	2:B:1704:PHE:CB	2.51	0.59
2:H:1720:HIS:C	2:H:1721:PHE:CD1	2.75	0.59
1:D:1339:GLY:C	1:D:1340:SER:O	2.38	0.59
1:G:1258:ARG:HG2	1:G:1263:ASP:OD2	2.03	0.59
1:G:733:ILE:CD1	1:G:761:LEU:HD13	2.33	0.59
2:E:1898:TYR:O	2:E:1902:GLY:HA3	2.03	0.59
2:B:91:PHE:CZ	2:B:101:ILE:HD11	2.37	0.59
2:B:998:UNK:O	2:B:1002:UNK:N	2.35	0.59
2:E:1591:UNK:C	2:E:1593:UNK:N	2.66	0.59
2:H:862:UNK:HA	2:H:865:UNK:CB	2.33	0.59
1:A:972:SER:O	1:A:973:ALA:HB2	2.03	0.59
2:B:594:UNK:O	2:B:611:UNK:HA	2.02	0.59
1:G:1299:LYS:HZ1	1:G:1323:LYS:HZ3	1.50	0.59
1:G:1406:MET:HE3	1:G:1430:ARG:HD2	1.85	0.59
1:G:1641:ILE:HG12	1:G:1652:GLN:HE22	1.67	0.59
1:G:1693:ILE:HG13	1:G:1694:TYR:N	2.18	0.59
1:G:689:GLY:HA2	1:G:692:VAL:HB	1.83	0.59
1:G:687:SER:HB2	1:G:899:LYS:HE3	1.85	0.59
1:A:1022:THR:HG21	1:A:1388:MET:CE	2.30	0.59
1:A:1203:ASP:C	1:A:1205:ILE:N	2.44	0.59
1:A:1431:GLU:HG3	1:A:1560:MET:HG3	1.85	0.59
1:A:1688:PHE:O	1:A:1690:ASN:N	2.35	0.59
1:A:717:TYR:HD2	1:A:718:TYR:CD1	2.20	0.59
1:D:1189:ILE:HG21	1:D:1377:MET:CB	2.09	0.59
1:D:1247:SER:O	1:D:1301:PRO:HD2	2.03	0.59
1:D:752:ILE:CA	1:D:761:LEU:HD23	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1009:LEU:HD12	1:A:1009:LEU:N	2.18	0.59
1:A:1455:ARG:HG3	1:A:1459:ILE:CG2	2.33	0.59
2:H:350:GLN:O	2:H:353:VAL:N	2.35	0.59
2:E:462:THR:HB	2:E:482:CYS:HB2	1.84	0.59
2:E:248:HIS:HB3	2:E:529:VAL:HG11	1.85	0.59
2:B:213:LEU:O	2:B:215:ILE:HG13	2.02	0.59
2:B:261:GLY:HA2	2:B:264:ARG:HG2	1.84	0.59
2:H:122:LEU:HD23	2:H:123:ILE:N	2.18	0.59
1:G:1203:ASP:H	1:G:1205:ILE:HG13	1.66	0.59
2:E:199:ILE:HG23	2:E:200:ARG:N	2.15	0.59
1:A:1491:ARG:C	1:A:1493:ILE:H	2.05	0.59
2:E:998:UNK:O	2:E:1002:UNK:N	2.36	0.59
1:G:495:UNK:C	1:G:497:UNK:N	2.64	0.59
2:E:1486:UNK:O	2:E:1510:UNK:HA	2.03	0.59
3:C:54:UNK:O	3:C:55:UNK:CB	2.50	0.59
2:E:132:MET:O	2:E:133:ALA:HB3	2.03	0.59
1:D:1156:GLU:N	1:D:1171:ALA:HB2	2.18	0.58
1:G:1000:GLN:C	1:G:1002:LYS:N	2.54	0.58
1:G:1083:PRO:HG2	1:G:1084:VAL:H	1.68	0.58
1:G:1191:THR:CA	1:G:1193:TRP:CH2	2.86	0.58
1:G:1326:ILE:HD12	1:G:1326:ILE:N	2.16	0.58
1:G:443:UNK:HA	1:G:722:TYR:CE2	2.38	0.58
1:D:1408:ALA:H	1:D:1653:ALA:HB2	1.67	0.58
1:D:710:PHE:HD2	1:D:711:SER:H	1.51	0.58
1:A:1454:THR:HG21	1:A:1508:TRP:CZ3	2.38	0.58
1:G:1456:GLU:H	1:G:1459:ILE:HG13	1.68	0.58
1:G:1502:ARG:O	1:G:1505:GLN:N	2.36	0.58
2:B:511:GLY:O	2:B:513:GLY:N	2.29	0.58
2:E:319:LEU:HD21	2:E:335:PRO:HG3	1.85	0.58
2:B:1680:LEU:O	2:B:1683:THR:N	2.36	0.58
1:A:1342:GLU:N	1:A:1345:ASN:HB2	2.17	0.58
1:G:794:ILE:HA	1:G:798:ASN:ND2	2.18	0.58
1:A:930:LEU:O	1:A:933:VAL:HG23	2.03	0.58
2:E:620:UNK:O	2:E:622:UNK:N	2.36	0.58
1:A:815:ILE:O	1:A:815:ILE:HG22	2.02	0.58
2:H:1305:UNK:O	2:H:1306:UNK:C	2.51	0.58
2:B:1066:UNK:O	2:B:1067:UNK:O	2.21	0.58
1:G:1178:ALA:O	1:G:1179:LEU:CD2	2.51	0.58
1:G:1067:LEU:CG	1:G:1068:LYS:N	2.65	0.58
1:G:1286:TRP:HD1	1:G:1290:LEU:HD13	1.68	0.58
1:G:1362:PRO:HA	1:G:1365:MET:CE	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1408:ALA:HB2	1:G:1652:GLN:C	2.23	0.58
1:G:1431:GLU:HG3	1:G:1560:MET:HG3	1.84	0.58
1:A:1067:LEU:C	1:A:1069:GLY:H	2.05	0.58
1:A:1418:VAL:HG12	1:A:1419:PRO:HA	1.84	0.58
1:A:925:ASP:C	1:A:926:LEU:HD23	2.23	0.58
1:D:1191:THR:HB	1:D:1193:TRP:CZ3	2.37	0.58
1:D:1693:ILE:HG13	1:D:1694:TYR:N	2.17	0.58
1:D:749:ILE:HD11	1:D:802:MET:HE2	1.84	0.58
1:D:858:TRP:HE3	1:D:862:LEU:HB2	1.67	0.58
2:H:515:LEU:O	2:H:515:LEU:HD12	2.02	0.58
2:B:159:ILE:HD12	2:B:501:ILE:HG21	1.84	0.58
2:B:480:VAL:O	2:B:484:ILE:HG12	2.02	0.58
2:E:1720:HIS:HA	2:E:1763:THR:HA	1.85	0.58
2:H:1776:PHE:O	2:H:1779:PRO:CD	2.50	0.58
1:G:1334:ASP:CG	1:G:1335:PHE:H	2.05	0.58
2:H:2020:UNK:C	2:H:2022:UNK:N	2.64	0.58
2:E:1901:ALA:HA	2:E:1905:ARG:NH2	2.18	0.58
2:B:1173:UNK:CB	2:B:1180:UNK:HA	2.32	0.58
1:A:889:GLU:C	1:A:893:VAL:HA	2.24	0.58
2:E:1049:UNK:C	2:E:1051:UNK:N	2.65	0.58
1:G:1029:PRO:N	1:G:1193:TRP:HE1	2.00	0.58
1:G:1354:GLU:O	1:G:1358:HIS:HB2	2.03	0.58
1:D:1121:MET:O	1:D:1183:ARG:HA	2.03	0.58
2:E:144:ALA:C	2:E:146:PHE:H	2.06	0.58
2:E:503:ASP:C	2:E:505:GLY:H	2.06	0.58
1:G:1009:LEU:HD12	1:G:1009:LEU:N	2.18	0.58
2:B:272:GLY:HA3	2:B:276:GLY:O	2.02	0.58
2:B:339:LEU:O	2:B:378:VAL:HA	2.03	0.58
2:B:515:LEU:O	2:B:515:LEU:HD12	2.03	0.58
2:E:1691:TRP:O	2:E:1692:ASN:C	2.42	0.58
2:H:29:ILE:HD13	2:H:29:ILE:O	2.03	0.58
2:H:34:GLN:O	2:H:38:ASN:HB3	2.03	0.58
1:G:791:ALA:O	1:G:794:ILE:HG22	2.04	0.58
2:E:71:LEU:O	2:E:72:VAL:HG13	2.02	0.58
2:H:998:UNK:O	2:H:1002:UNK:N	2.36	0.58
2:H:594:UNK:O	2:H:611:UNK:HA	2.03	0.58
1:G:701:ALA:O	1:G:730:SER:HA	2.04	0.58
2:B:1975:UNK:O	2:B:1976:UNK:CB	2.51	0.58
2:E:583:UNK:O	2:E:584:UNK:CB	2.50	0.58
2:B:1291:UNK:CB	2:B:1369:UNK:H	2.15	0.58
1:G:1156:GLU:N	1:G:1171:ALA:HB2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1157:ILE:HG22	1:D:1158:PRO:CD	2.23	0.58
1:G:1520:ALA:H	1:G:1521:PRO:CD	2.09	0.58
1:G:1373:ARG:CG	1:G:1547:LYS:HD3	2.08	0.58
1:G:858:TRP:O	1:G:861:GLN:HG2	2.04	0.58
1:A:1544:THR:OG1	1:A:1546:THR:CG2	2.51	0.58
1:A:1021:VAL:HG11	1:A:1597:LEU:CD1	2.34	0.58
1:A:1615:ASP:OD2	1:A:1617:ILE:HG12	2.02	0.58
1:D:1084:VAL:O	1:D:1085:ASP:C	2.39	0.58
1:D:1029:PRO:N	1:D:1193:TRP:HE1	2.01	0.58
1:D:1242:GLU:O	1:D:1243:VAL:HG13	2.03	0.58
1:D:1403:ILE:HD11	1:D:1529:TYR:OH	2.03	0.58
1:D:1538:VAL:HA	1:D:1573:ILE:O	2.03	0.58
1:D:1541:PHE:O	1:D:1542:HIS:CB	2.50	0.58
1:D:733:ILE:CD1	1:D:761:LEU:HD13	2.34	0.58
1:D:761:LEU:HD11	1:D:763:TRP:CE3	2.39	0.58
1:D:858:TRP:O	1:D:861:GLN:HG2	2.03	0.58
2:E:131:ILE:HG21	2:E:182:VAL:CG2	2.34	0.58
2:E:480:VAL:O	2:E:484:ILE:HG12	2.03	0.58
2:B:310:CYS:CB	2:B:432:LEU:HD11	2.33	0.58
2:B:1691:TRP:O	2:B:1692:ASN:C	2.42	0.58
2:H:31:SER:O	2:H:33:LEU:N	2.36	0.58
1:G:681:THR:HG22	1:G:771:PHE:O	2.03	0.58
2:E:25:ALA:HB1	2:E:65:LEU:HD11	1.84	0.58
2:H:1901:ALA:HA	2:H:1905:ARG:NH2	2.19	0.58
2:E:1173:UNK:HA	2:E:1182:UNK:N	2.18	0.58
1:D:775:PRO:O	1:D:776:GLU:CB	2.51	0.58
2:H:1332:UNK:C	2:H:1334:UNK:N	2.60	0.58
2:B:1916:PHE:O	2:B:1917:ILE:HD13	2.02	0.58
2:E:2040:UNK:C	2:E:2042:UNK:N	2.64	0.58
2:B:1581:UNK:O	2:B:1582:UNK:CB	2.51	0.58
2:H:1166:UNK:C	2:H:1168:UNK:H	2.16	0.58
2:E:1581:UNK:O	2:E:1582:UNK:CB	2.52	0.58
1:G:1141:ALA:O	1:G:1143:GLN:N	2.36	0.58
1:G:1169:LYS:NZ	1:G:1170:GLY:H	2.01	0.58
1:A:1133:PRO:O	1:A:1134:PHE:CD1	2.55	0.58
1:G:1026:GLU:O	1:G:1032:SER:HA	2.03	0.58
1:G:1253:GLY:O	1:G:1254:VAL:O	2.22	0.58
1:G:1325:ARG:HB2	1:G:1389:GLN:HB2	1.84	0.58
1:G:1403:ILE:HG23	1:G:1656:VAL:O	2.04	0.58
1:G:1532:THR:OG1	1:G:1535:ASP:N	2.36	0.58
1:G:901:MET:CE	1:G:905:LEU:HD23	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1112:ASN:HA	1:A:1114:TYR:HB2	1.84	0.58
1:A:1389:GLN:O	1:A:1390:ALA:HB3	2.02	0.58
1:A:1392:LEU:H	1:A:1392:LEU:CD2	2.16	0.58
1:A:1020:VAL:HG11	1:A:1400:ILE:HB	1.84	0.58
1:A:1524:GLY:O	1:A:1527:ALA:HB3	2.04	0.58
1:A:1701:LYS:N	1:A:1701:LYS:HE3	2.18	0.58
1:A:1238:VAL:HA	1:A:1721:ARG:H	1.68	0.58
1:D:1351:ASN:O	1:D:1353:LEU:O	2.22	0.58
1:D:1364:GLU:C	1:D:1366:SER:H	2.07	0.58
1:D:1373:ARG:HG2	1:D:1547:LYS:CD	2.09	0.58
1:D:1583:HIS:CD2	1:D:1584:PRO:HA	2.39	0.58
1:D:1454:THR:HG21	1:D:1508:TRP:CZ3	2.37	0.58
2:H:426:PRO:O	2:H:429:SER:HB3	2.02	0.58
2:B:1698:PHE:CD1	2:B:1706:ILE:HD11	2.39	0.58
2:H:1789:PHE:CZ	2:H:1818:LEU:HD23	2.38	0.58
2:B:41:LEU:N	2:B:42:PRO:HD2	2.19	0.58
2:E:1882:THR:HB	2:E:1885:LEU:HD21	1.85	0.58
1:G:1491:ARG:C	1:G:1493:ILE:H	2.05	0.58
2:B:1322:UNK:C	2:B:1324:UNK:N	2.67	0.58
1:A:235:UNK:O	1:A:236:UNK:C	2.50	0.58
1:G:1607:GLY:O	1:G:1610:ASN:ND2	2.36	0.58
1:A:1592:MET:O	1:A:1596:ALA:N	2.37	0.58
1:A:858:TRP:O	1:A:861:GLN:HG2	2.04	0.58
1:A:826:MET:HG3	1:A:867:ALA:H	1.69	0.58
2:H:242:GLY:HA2	2:H:245:GLN:NE2	2.14	0.58
1:G:1008:GLU:C	1:G:1010:GLU:N	2.56	0.58
2:B:528:ILE:H	2:B:541:TYR:HB2	1.68	0.58
2:H:1752:PHE:O	2:H:1753:LYS:O	2.22	0.58
1:D:1342:GLU:N	1:D:1345:ASN:HB2	2.18	0.58
1:A:1184:LEU:HD22	1:A:1341:PHE:CD2	2.35	0.58
2:B:1874:VAL:HG22	2:B:1928:GLN:NE2	2.17	0.58
2:E:87:CYS:HA	2:E:90:GLU:CB	2.32	0.58
1:A:903:PHE:O	1:A:906:LEU:HB3	2.03	0.58
2:H:577:UNK:O	2:H:578:UNK:C	2.51	0.58
2:H:1262:UNK:O	2:H:1263:UNK:C	2.52	0.58
2:H:450:PHE:CD1	2:H:451:ASN:N	2.64	0.58
1:G:1162:GLU:OE2	1:G:1162:GLU:N	2.37	0.58
1:G:1105:LEU:HB3	1:G:1111:PHE:CE2	2.38	0.58
1:G:1308:SER:CB	1:G:1590:ALA:H	2.17	0.58
1:G:1188:GLN:NE2	1:G:1352:THR:OG1	2.26	0.58
1:G:1426:LEU:CD1	1:G:1650:GLY:HA3	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1002:LYS:HE3	1:G:1670:TYR:OH	2.03	0.58
1:A:1005:ALA:HB3	1:A:1006:PRO:CD	2.33	0.58
1:A:1242:GLU:O	1:A:1243:VAL:HG13	2.03	0.58
1:A:1362:PRO:O	1:A:1365:MET:HE2	2.03	0.58
1:A:1607:GLY:O	1:A:1610:ASN:ND2	2.36	0.58
1:A:1539:ALA:HA	1:A:1640:SER:O	2.04	0.58
1:A:1426:LEU:CD1	1:A:1650:GLY:HA3	2.33	0.58
1:A:741:SER:O	1:A:742:LYS:O	2.21	0.58
1:A:775:PRO:O	1:A:776:GLU:CB	2.52	0.58
1:D:1431:GLU:HG3	1:D:1560:MET:HG3	1.85	0.58
1:D:1685:TYR:CE2	2:E:966:UNK:CB	2.85	0.58
1:D:852:ARG:NH1	1:D:856:GLU:OE1	2.37	0.58
2:E:156:LEU:HD12	2:E:500:HIS:HB2	1.84	0.58
1:G:1459:ILE:O	1:G:1463:VAL:HG23	2.04	0.58
2:B:260:PRO:HB2	2:B:286:THR:HB	1.86	0.58
2:E:1788:ALA:O	2:E:1792:LEU:HG	2.03	0.58
2:B:1705:SER:O	2:B:1709:ILE:HG12	2.03	0.58
2:B:1776:PHE:O	2:B:1779:PRO:CD	2.52	0.58
2:H:26:SER:O	2:H:29:ILE:HG22	2.03	0.58
1:G:1202:ASP:O	1:G:1203:ASP:CB	2.51	0.58
2:B:1898:TYR:O	2:B:1902:GLY:HA3	2.03	0.58
2:H:390:ASN:OD1	2:H:393:LEU:HD23	2.04	0.58
2:H:95:TYR:H	2:H:96:LEU:HD23	1.66	0.58
2:H:1173:UNK:HA	2:H:1182:UNK:N	2.19	0.58
1:G:493:UNK:O	1:G:495:UNK:N	2.37	0.58
1:G:1853:UNK:HA	1:G:1857:UNK:CB	2.33	0.58
2:H:132:MET:O	2:H:133:ALA:HB3	2.04	0.58
2:B:704:UNK:HA	2:B:707:UNK:CB	2.34	0.58
1:D:1178:ALA:C	1:D:1179:LEU:CD2	2.72	0.58
1:G:1122:ILE:HG13	1:G:1122:ILE:O	2.04	0.58
1:G:1642:THR:HA	1:G:1652:GLN:OE1	2.03	0.58
1:G:1697:LEU:HD12	1:G:1697:LEU:N	2.09	0.58
1:A:1029:PRO:N	1:A:1193:TRP:HE1	2.01	0.58
1:A:1109:GLU:C	1:A:1111:PHE:N	2.57	0.58
1:A:1354:GLU:C	1:A:1356:PHE:H	2.05	0.58
1:A:1409:THR:HG23	1:A:1409:THR:O	2.03	0.58
1:A:1690:ASN:O	1:A:1693:ILE:HG12	2.04	0.58
1:A:1705:PRO:HG2	1:A:1706:TYR:CD1	2.39	0.58
1:A:445:UNK:O	1:A:447:UNK:N	2.37	0.58
1:A:791:ALA:CA	1:A:794:ILE:HG22	2.33	0.58
1:A:901:MET:CE	1:A:905:LEU:HD23	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1080:THR:OG1	1:D:1083:PRO:CG	2.51	0.58
1:D:1220:VAL:HG21	1:D:1698:PHE:HD1	1.69	0.58
1:D:1677:VAL:C	1:D:1679:ALA:H	2.05	0.58
1:D:1238:VAL:HA	1:D:1721:ARG:H	1.69	0.58
2:B:444:VAL:O	2:B:446:ASN:N	2.35	0.58
2:E:1715:VAL:HG13	2:E:1716:ASN:H	1.68	0.58
2:E:1764:PHE:O	2:E:1765:ARG:HB3	2.04	0.58
2:E:1776:PHE:O	2:E:1779:PRO:CD	2.50	0.58
2:E:1778:GLN:HB2	2:E:1779:PRO:CD	2.33	0.58
2:B:1695:ASP:CG	2:B:1705:SER:HB2	2.23	0.58
2:B:29:ILE:C	2:B:31:SER:N	2.57	0.58
2:B:78:GLY:O	2:B:79:GLN:C	2.42	0.58
1:G:752:ILE:CA	1:G:761:LEU:HD23	2.26	0.58
1:G:680:ILE:HA	1:G:769:ILE:HG23	1.84	0.58
2:E:408:PRO:HG2	2:E:409:PHE:H	1.67	0.58
2:E:95:TYR:H	2:E:96:LEU:HD23	1.67	0.58
1:A:493:UNK:O	1:A:495:UNK:N	2.35	0.58
2:H:620:UNK:O	2:H:622:UNK:N	2.36	0.58
1:G:972:SER:O	1:G:973:ALA:HB2	2.04	0.58
2:H:1370:UNK:O	2:H:1371:UNK:CB	2.50	0.58
1:D:1151:LYS:CE	1:D:1175:ILE:HD13	2.31	0.58
1:G:1080:THR:O	1:G:1081:LYS:C	2.42	0.58
1:G:1286:TRP:O	1:G:1288:ASN:N	2.37	0.58
1:A:1076:VAL:HG21	1:A:1087:LYS:HA	1.85	0.58
1:A:1208:VAL:HG12	1:A:1286:TRP:CZ3	2.39	0.58
1:A:1286:TRP:O	1:A:1288:ASN:N	2.37	0.58
1:A:1614:VAL:O	1:A:1615:ASP:CB	2.49	0.58
1:A:1677:VAL:C	1:A:1679:ALA:H	2.06	0.58
1:A:443:UNK:HA	1:A:722:TYR:CE2	2.38	0.58
1:A:761:LEU:HD11	1:A:763:TRP:CE3	2.39	0.58
1:A:858:TRP:HA	1:A:861:GLN:NE2	2.19	0.58
1:D:1108:PRO:O	1:D:1109:GLU:HB2	2.04	0.58
1:D:1319:ILE:HD12	1:D:1325:ARG:HA	1.84	0.58
1:D:908:LEU:O	1:D:913:VAL:HG11	2.03	0.58
1:D:1448:ARG:O	1:D:1448:ARG:HD2	2.04	0.58
2:H:528:ILE:H	2:H:541:TYR:HB2	1.68	0.58
2:H:528:ILE:H	2:H:541:TYR:HB3	1.68	0.58
1:G:1456:GLU:O	1:G:1460:LYS:HB2	2.04	0.58
2:B:184:VAL:O	2:B:188:ILE:HG12	2.04	0.58
2:B:248:HIS:HB3	2:B:529:VAL:HG11	1.84	0.58
2:H:1725:LYS:HG2	2:H:1760:THR:OG1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:170:PHE:CB	2:H:231:LEU:HD21	2.34	0.58
1:D:1665:ILE:HG22	1:D:1667:GLU:N	2.19	0.58
2:H:1898:TYR:O	2:H:1902:GLY:HA3	2.04	0.58
1:D:930:LEU:O	1:D:933:VAL:HG23	2.04	0.58
2:B:620:UNK:C	2:B:622:UNK:N	2.63	0.58
2:E:1262:UNK:O	2:E:1263:UNK:C	2.51	0.58
1:D:1853:UNK:HA	1:D:1857:UNK:CB	2.34	0.58
2:E:577:UNK:O	2:E:578:UNK:C	2.52	0.58
2:E:1193:UNK:HA	2:E:1201:UNK:O	2.03	0.58
2:E:1250:UNK:O	2:E:1251:UNK:C	2.52	0.58
1:G:1067:LEU:C	1:G:1067:LEU:HD22	2.21	0.58
1:G:1208:VAL:HG12	1:G:1286:TRP:CH2	2.38	0.58
1:G:1274:ILE:C	1:G:1276:GLN:H	2.07	0.58
1:G:1326:ILE:HG13	1:G:1388:MET:SD	2.44	0.58
1:G:717:TYR:O	1:G:719:GLN:N	2.33	0.58
1:A:1408:ALA:HB2	1:A:1652:GLN:C	2.23	0.58
1:A:1426:LEU:HD13	1:A:1651:GLY:N	2.18	0.58
1:A:717:TYR:O	1:A:719:GLN:N	2.33	0.58
1:D:1190:PRO:HG2	1:D:1379:ALA:HA	1.85	0.58
1:D:1541:PHE:CG	1:D:1576:PHE:HE1	2.21	0.58
1:D:1562:LYS:C	1:D:1564:LEU:H	2.07	0.58
1:D:1625:LEU:CD1	1:D:1626:TYR:HD1	2.17	0.58
1:D:1658:PRO:O	1:D:1660:TYR:N	2.31	0.58
2:H:299:ALA:O	2:H:302:VAL:HB	2.04	0.58
2:H:267:LEU:HG	2:H:457:ILE:HD12	1.86	0.58
2:E:528:ILE:H	2:E:541:TYR:HB3	1.69	0.58
2:B:384:GLN:O	2:B:385:SER:C	2.43	0.58
2:E:1695:ASP:CG	2:E:1705:SER:HB2	2.23	0.58
2:E:1698:PHE:HE1	2:E:1828:VAL:CG2	2.17	0.58
2:E:1821:VAL:CG2	2:E:1822:MET:N	2.66	0.58
2:E:1822:MET:CE	2:E:1827:LEU:HA	2.34	0.58
2:E:1834:ARG:HG3	2:E:1834:ARG:NH1	2.17	0.58
2:E:333:GLY:O	2:E:334:VAL:C	2.42	0.58
2:H:1737:ILE:HD13	2:H:1738:PHE:H	1.68	0.58
2:B:56:THR:CG2	2:B:59:GLU:HG3	2.25	0.58
1:G:1339:GLY:O	1:G:1341:PHE:O	2.21	0.58
1:D:495:UNK:C	1:D:497:UNK:N	2.63	0.58
1:G:497:UNK:O	1:G:499:UNK:N	2.36	0.58
2:B:1591:UNK:C	2:B:1593:UNK:N	2.65	0.58
2:H:1842:VAL:O	2:H:1842:VAL:HG12	2.04	0.58
1:G:1132:GLU:N	1:G:1133:PRO:CD	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1133:PRO:HD2	1:G:1173:LEU:HD13	1.85	0.57
1:A:1159:GLU:C	1:A:1166:LYS:HD3	2.24	0.57
1:G:1076:VAL:HG11	1:G:1087:LYS:CA	2.26	0.57
1:G:1659:ASP:HA	1:G:1662:TYR:CE2	2.39	0.57
1:G:446:UNK:O	1:G:447:UNK:CB	2.52	0.57
1:A:1260:MET:HB3	1:A:1261:PHE:CD2	2.38	0.57
1:A:866:GLY:O	1:A:867:ALA:CB	2.51	0.57
1:D:1409:THR:HG23	1:D:1409:THR:O	2.04	0.57
1:D:679:LEU:H	1:D:679:LEU:HD12	1.68	0.57
2:H:367:GLU:CG	2:H:368:ILE:N	2.67	0.57
2:E:426:PRO:O	2:E:429:SER:HB3	2.04	0.57
1:A:1471:LYS:HD3	1:A:1471:LYS:O	2.04	0.57
2:E:351:ASP:HA	2:E:354:ASN:HD22	1.68	0.57
2:B:1672:GLN:HE21	2:B:1777:THR:HG21	1.69	0.57
2:B:1725:LYS:HG2	2:B:1760:THR:OG1	2.04	0.57
2:B:1264:UNK:O	2:B:1266:UNK:N	2.38	0.57
1:D:1280:ILE:H	1:D:1280:ILE:CD1	2.15	0.57
2:B:1173:UNK:HA	2:B:1182:UNK:N	2.18	0.57
2:H:1173:UNK:CB	2:H:1180:UNK:HA	2.34	0.57
2:E:2001:UNK:C	2:E:2003:UNK:N	2.66	0.57
2:B:915:UNK:O	2:B:917:UNK:N	2.37	0.57
1:D:889:GLU:C	1:D:893:VAL:HA	2.24	0.57
2:H:678:UNK:O	2:H:682:UNK:N	2.36	0.57
2:H:1295:UNK:C	2:H:1297:UNK:N	2.65	0.57
1:D:370:UNK:O	1:D:374:UNK:N	2.37	0.57
1:A:959:ILE:O	1:A:963:LEU:HB2	2.03	0.57
1:A:890:LYS:O	1:A:892:GLY:N	2.33	0.57
2:B:1250:UNK:O	2:B:1251:UNK:C	2.52	0.57
1:A:544:UNK:O	1:A:548:UNK:N	2.36	0.57
2:H:2011:UNK:C	2:H:2013:UNK:N	2.59	0.57
1:D:1156:GLU:C	1:D:1156:GLU:CD	2.62	0.57
1:G:1240:VAL:C	1:G:1242:GLU:N	2.58	0.57
1:G:1029:PRO:HG2	1:G:1581:THR:HG23	1.84	0.57
1:G:1618:LEU:HB3	1:G:1623:TYR:HE2	1.69	0.57
1:G:1625:LEU:CD1	1:G:1626:TYR:HD1	2.17	0.57
1:G:803:MET:CE	1:G:822:VAL:HG11	2.34	0.57
1:A:1191:THR:CA	1:A:1193:TRP:CH2	2.87	0.57
1:A:1538:VAL:HA	1:A:1573:ILE:O	2.04	0.57
1:A:1624:VAL:O	1:A:1625:LEU:HB3	2.03	0.57
1:A:791:ALA:O	1:A:794:ILE:HG22	2.03	0.57
1:A:792:HIS:O	1:A:796:LEU:HD23	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1021:VAL:HG11	1:D:1597:LEU:CD1	2.34	0.57
1:D:1067:LEU:C	1:D:1069:GLY:H	2.06	0.57
1:D:1099:GLU:O	1:D:1101:SER:N	2.37	0.57
1:D:1260:MET:C	1:D:1261:PHE:HD2	2.07	0.57
1:D:1354:GLU:O	1:D:1358:HIS:HB2	2.04	0.57
1:D:1685:TYR:O	1:D:1685:TYR:CD1	2.57	0.57
1:D:446:UNK:O	1:D:447:UNK:CB	2.52	0.57
1:D:797:THR:O	1:D:800:LEU:N	2.38	0.57
2:B:1822:MET:CE	2:B:1827:LEU:HA	2.35	0.57
2:H:1685:LYS:O	2:H:1688:GLN:HB3	2.04	0.57
2:H:1789:PHE:CE1	2:H:1818:LEU:HD23	2.39	0.57
2:H:1821:VAL:CG2	2:H:1822:MET:N	2.66	0.57
2:H:1822:MET:CE	2:H:1827:LEU:HA	2.34	0.57
2:H:49:ALA:H	2:H:118:LYS:HZ1	1.52	0.57
2:E:41:LEU:H	2:E:42:PRO:CD	2.16	0.57
2:B:87:CYS:HA	2:B:90:GLU:CB	2.29	0.57
2:H:200:ARG:O	2:H:203:LEU:HG	2.05	0.57
2:H:1878:VAL:HB	2:H:1898:TYR:CE1	2.38	0.57
2:E:94:CYS:SG	2:E:95:TYR:N	2.77	0.57
1:G:889:GLU:C	1:G:893:VAL:HA	2.23	0.57
2:E:1322:UNK:C	2:E:1324:UNK:N	2.66	0.57
1:D:448:UNK:O	1:D:450:UNK:N	2.37	0.57
2:B:1919:LEU:HD23	2:B:1919:LEU:O	2.03	0.57
1:G:959:ILE:O	1:G:963:LEU:HB2	2.04	0.57
1:D:701:ALA:O	1:D:730:SER:HA	2.05	0.57
2:H:1431:UNK:O	2:H:1432:UNK:O	2.22	0.57
1:D:972:SER:O	1:D:973:ALA:HB2	2.04	0.57
1:G:1159:GLU:C	1:G:1166:LYS:HD3	2.24	0.57
1:G:1276:GLN:O	1:G:1279:PHE:HD2	1.87	0.57
1:G:1541:PHE:HE2	1:G:1554:SER:HG	1.49	0.57
1:G:1553:GLU:CA	1:G:1556:THR:HB	2.33	0.57
1:G:1583:HIS:CD2	1:G:1584:PRO:HA	2.40	0.57
1:A:1080:THR:OG1	1:A:1083:PRO:CG	2.53	0.57
1:A:1240:VAL:C	1:A:1242:GLU:N	2.58	0.57
1:A:1247:SER:O	1:A:1301:PRO:CD	2.52	0.57
1:A:1325:ARG:HB2	1:A:1389:GLN:HB2	1.84	0.57
1:A:1190:PRO:HG2	1:A:1379:ALA:HA	1.86	0.57
1:A:1542:HIS:HA	1:A:1578:LYS:HE2	1.87	0.57
1:A:1641:ILE:HG12	1:A:1652:GLN:HE22	1.68	0.57
1:D:1005:ALA:HB3	1:D:1006:PRO:CD	2.34	0.57
1:D:1110:LEU:HG	1:D:1188:GLN:CA	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1240:VAL:C	1:D:1242:GLU:N	2.58	0.57
2:H:100:ASP:OD1	2:H:102:HIS:HB2	2.05	0.57
2:H:480:VAL:O	2:H:484:ILE:HG12	2.03	0.57
1:G:1471:LYS:O	1:G:1471:LYS:HD3	2.04	0.57
1:A:1471:LYS:O	1:A:1474:ALA:HB2	2.05	0.57
2:E:367:GLU:CG	2:E:368:ILE:N	2.67	0.57
2:B:1778:GLN:HB2	2:B:1779:PRO:CD	2.32	0.57
2:B:49:ALA:N	2:B:118:LYS:NZ	2.51	0.57
2:E:59:GLU:OE1	2:E:122:LEU:HG	2.04	0.57
1:G:808:LYS:CA	1:G:808:LYS:HE3	2.29	0.57
2:B:200:ARG:O	2:B:203:LEU:HG	2.05	0.57
1:A:1665:ILE:HG22	1:A:1667:GLU:N	2.19	0.57
2:H:1874:VAL:HG22	2:H:1928:GLN:NE2	2.19	0.57
1:G:1489:ARG:O	1:G:1493:ILE:HG23	2.04	0.57
1:G:1444:ASN:N	1:G:1444:ASN:ND2	2.51	0.57
1:A:549:UNK:C	1:A:551:UNK:N	2.65	0.57
1:A:497:UNK:O	1:A:499:UNK:N	2.37	0.57
2:H:1322:UNK:C	2:H:1324:UNK:N	2.65	0.57
2:B:1281:UNK:O	2:B:1282:UNK:CB	2.51	0.57
1:G:235:UNK:O	1:G:236:UNK:C	2.52	0.57
1:D:235:UNK:O	1:D:236:UNK:C	2.52	0.57
3:C:18:UNK:O	3:C:19:UNK:CB	2.52	0.57
1:G:1156:GLU:CD	1:G:1156:GLU:C	2.62	0.57
1:A:1137:SER:HG	1:A:1168:LEU:HD12	1.68	0.57
1:D:1132:GLU:N	1:D:1133:PRO:CD	2.66	0.57
1:G:1022:THR:HG21	1:G:1388:MET:CE	2.31	0.57
1:G:1060:ILE:HD13	1:G:1077:ASP:OD1	2.04	0.57
1:G:1099:GLU:CG	1:G:1100:HIS:H	2.01	0.57
1:G:1562:LYS:C	1:G:1564:LEU:H	2.08	0.57
1:G:1705:PRO:HG2	1:G:1706:TYR:CD1	2.39	0.57
1:G:908:LEU:O	1:G:913:VAL:HG11	2.04	0.57
1:G:910:THR:O	1:G:911:PRO:O	2.22	0.57
1:D:1067:LEU:C	1:D:1067:LEU:HD22	2.23	0.57
1:D:1348:ALA:O	1:D:1349:THR:C	2.42	0.57
1:D:1419:PRO:HD3	1:D:1646:PHE:CD1	2.39	0.57
1:D:1657:HIS:CG	1:D:1658:PRO:HD2	2.39	0.57
1:A:1466:GLU:O	1:A:1467:LEU:C	2.42	0.57
2:H:144:ALA:C	2:H:146:PHE:H	2.07	0.57
2:H:260:PRO:HB2	2:H:286:THR:HB	1.85	0.57
2:H:339:LEU:O	2:H:378:VAL:HA	2.04	0.57
2:E:240:LEU:HA	2:E:243:VAL:CG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:250:VAL:O	2:B:253:ALA:HB3	2.04	0.57
1:G:678:VAL:HG13	1:G:767:ALA:O	2.03	0.57
1:G:1341:PHE:O	1:G:1343:PHE:N	2.36	0.57
2:B:1912:ASN:O	2:B:1913:VAL:HG22	2.04	0.57
1:D:1489:ARG:O	1:D:1493:ILE:HG12	2.04	0.57
1:D:456:UNK:O	1:D:460:UNK:N	2.38	0.57
1:D:471:UNK:HA	1:D:474:UNK:CB	2.35	0.57
2:H:1486:UNK:O	2:H:1510:UNK:HA	2.04	0.57
2:H:1250:UNK:O	2:H:1251:UNK:C	2.51	0.57
1:G:1188:GLN:O	1:G:1189:ILE:HD13	2.04	0.57
1:G:1722:VAL:CB	1:G:1731:LEU:HG	2.34	0.57
1:G:710:PHE:HD2	1:G:711:SER:H	1.53	0.57
1:A:1246:CYS:N	1:A:1328:ILE:HG23	2.19	0.57
1:A:1589:GLY:HA2	1:A:1592:MET:HE3	1.85	0.57
1:A:1041:ALA:O	1:A:1627:PRO:HG3	2.04	0.57
1:A:444:UNK:H	1:A:722:TYR:HE2	1.53	0.57
1:A:804:GLY:O	1:A:807:LYS:HB3	2.04	0.57
1:A:905:LEU:HD22	1:A:905:LEU:N	2.18	0.57
1:D:1073:THR:CG2	1:D:1074:GLY:N	2.67	0.57
1:D:1636:VAL:O	1:D:1637:ARG:HB2	2.05	0.57
1:D:1536:LEU:CB	1:D:1638:ALA:HB3	2.34	0.57
1:D:1426:LEU:HD13	1:D:1651:GLY:N	2.19	0.57
1:D:678:VAL:HG13	1:D:767:ALA:O	2.05	0.57
1:D:791:ALA:O	1:D:794:ILE:HG22	2.04	0.57
1:D:1455:ARG:O	1:D:1456:GLU:CB	2.52	0.57
2:B:258:PHE:CB	2:B:262:GLU:HB2	2.28	0.57
2:B:1698:PHE:HE1	2:B:1828:VAL:CG2	2.17	0.57
2:H:41:LEU:CB	2:H:46:GLU:H	2.17	0.57
2:B:69:SER:HA	2:B:80:PHE:CB	2.34	0.57
1:G:771:PHE:CE2	1:G:825:PRO:HB3	2.38	0.57
1:A:1717:ASP:C	1:A:1719:LEU:N	2.58	0.57
2:B:1049:UNK:C	2:B:1051:UNK:N	2.65	0.57
1:G:370:UNK:O	1:G:374:UNK:N	2.38	0.57
2:E:582:UNK:O	2:E:583:UNK:CB	2.52	0.57
1:A:1853:UNK:HA	1:A:1857:UNK:CB	2.34	0.57
2:E:1291:UNK:CB	2:E:1369:UNK:H	2.17	0.57
2:H:1066:UNK:O	2:H:1067:UNK:O	2.23	0.57
2:E:767:UNK:C	2:E:769:UNK:N	2.65	0.57
1:G:1144:PHE:CD1	1:G:1145:LYS:N	2.72	0.57
1:D:1144:PHE:HA	1:D:1147:GLN:HB2	1.85	0.57
1:G:1118:LYS:CE	1:G:1337:GLU:HG3	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1403:ILE:O	1:G:1655:VAL:HG22	2.03	0.57
1:G:1555:ALA:HA	1:G:1558:ASN:HB3	1.87	0.57
1:A:712:LYS:HE2	1:A:716:ASP:OD2	2.04	0.57
1:A:771:PHE:CD1	1:A:771:PHE:N	2.73	0.57
1:A:794:ILE:HA	1:A:798:ASN:ND2	2.18	0.57
1:A:910:THR:O	1:A:911:PRO:O	2.22	0.57
1:D:1080:THR:O	1:D:1081:LYS:C	2.41	0.57
1:D:1112:ASN:ND2	1:D:1117:GLU:O	2.35	0.57
1:D:1536:LEU:HB3	1:D:1638:ALA:CB	2.34	0.57
1:D:1002:LYS:HE3	1:D:1670:TYR:OH	2.04	0.57
1:D:445:UNK:O	1:D:447:UNK:N	2.38	0.57
1:D:1466:GLU:O	1:D:1467:LEU:C	2.43	0.57
2:E:527:VAL:HG22	2:E:540:ASP:O	2.05	0.57
2:B:386:LEU:O	2:B:389:LEU:HB3	2.05	0.57
1:D:1471:LYS:O	1:D:1474:ALA:HB2	2.05	0.57
2:E:1789:PHE:O	2:E:1790:GLU:C	2.42	0.57
1:G:761:LEU:HD11	1:G:763:TRP:CE3	2.39	0.57
2:E:78:GLY:O	2:E:79:GLN:C	2.43	0.57
1:G:999:LYS:O	1:G:1001:VAL:N	2.33	0.57
1:G:571:UNK:O	1:G:575:UNK:N	2.36	0.57
2:H:2040:UNK:O	2:H:2042:UNK:N	2.37	0.57
1:G:775:PRO:O	1:G:776:GLU:CB	2.51	0.57
1:D:497:UNK:O	1:D:499:UNK:N	2.38	0.57
1:A:370:UNK:O	1:A:374:UNK:N	2.36	0.57
1:D:368:UNK:C	1:D:370:UNK:N	2.63	0.57
2:E:1605:UNK:C	2:E:1607:UNK:H2	2.16	0.57
1:G:1511:ASP:O	1:G:1512:PHE:C	2.42	0.57
2:E:704:UNK:HA	2:E:707:UNK:CB	2.35	0.57
1:A:557:UNK:C	1:A:559:UNK:N	2.67	0.57
1:A:1131:LEU:CA	1:A:1173:LEU:HD22	2.35	0.57
1:D:1133:PRO:HD2	1:D:1173:LEU:HD13	1.86	0.57
1:G:1080:THR:OG1	1:G:1083:PRO:CG	2.52	0.57
1:G:1197:THR:OG1	1:G:1200:ILE:HG22	2.05	0.57
1:G:1589:GLY:HA2	1:G:1592:MET:HE2	1.86	0.57
1:G:1637:ARG:O	1:G:1656:VAL:HG23	2.04	0.57
1:G:1397:GLY:H	1:G:1676:LYS:HB3	1.70	0.57
1:G:595:UNK:O	1:G:611:UNK:HA	2.05	0.57
1:G:444:UNK:H	1:G:722:TYR:HE2	1.53	0.57
1:A:1208:VAL:HB	1:A:1212:THR:HG21	1.87	0.57
1:A:1377:MET:O	1:A:1378:GLU:O	2.23	0.57
1:A:1397:GLY:H	1:A:1676:LYS:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1553:GLU:CA	1:A:1556:THR:HB	2.35	0.57
1:A:905:LEU:HA	1:A:908:LEU:HB3	1.85	0.57
1:D:1079:LYS:HG2	1:D:1080:THR:N	2.20	0.57
1:D:1240:VAL:O	1:D:1242:GLU:N	2.37	0.57
1:D:1538:VAL:HG11	1:D:1599:ILE:HD12	1.87	0.57
1:D:771:PHE:CD1	1:D:771:PHE:N	2.73	0.57
1:D:839:TYR:CE1	1:D:843:LYS:HE2	2.39	0.57
2:H:131:ILE:HG21	2:H:182:VAL:CG2	2.34	0.57
2:B:349:VAL:HG21	2:B:377:LEU:CD1	2.31	0.57
2:E:1672:GLN:HE21	2:E:1777:THR:CG2	2.17	0.57
2:B:1709:ILE:CD1	2:B:1719:ILE:HD11	2.33	0.57
2:B:1720:HIS:HA	2:B:1763:THR:HA	1.86	0.57
2:B:1721:PHE:CD1	2:B:1721:PHE:N	2.73	0.57
2:H:1703:GLY:O	2:H:1704:PHE:HD1	1.86	0.57
2:H:1812:TYR:O	2:H:1816:ALA:CB	2.53	0.57
2:B:18:HIS:O	2:B:20:LEU:N	2.37	0.57
1:G:753:TYR:CD2	1:G:809:GLN:HG3	2.39	0.57
2:B:408:PRO:HA	2:B:412:ARG:HB2	1.87	0.57
2:B:1901:ALA:HA	2:B:1905:ARG:NH2	2.20	0.57
1:G:1665:ILE:HG22	1:G:1667:GLU:N	2.19	0.57
1:A:884:ILE:CG2	1:A:887:GLY:HA3	2.34	0.57
1:G:428:UNK:O	1:G:430:UNK:N	2.37	0.57
3:F:18:UNK:O	3:F:19:UNK:CB	2.53	0.57
2:E:1281:UNK:O	2:E:1282:UNK:CB	2.52	0.57
2:B:1166:UNK:C	2:B:1168:UNK:H	2.17	0.57
1:D:963:LEU:O	1:D:967:VAL:HG23	2.05	0.57
1:G:1067:LEU:C	1:G:1069:GLY:H	2.06	0.57
1:G:1069:GLY:O	1:G:1070:ARG:C	2.43	0.57
1:G:1208:VAL:HG12	1:G:1286:TRP:CZ3	2.40	0.57
1:G:1246:CYS:N	1:G:1328:ILE:HG23	2.20	0.57
1:G:1260:MET:C	1:G:1261:PHE:HD2	2.08	0.57
1:G:1311:SER:O	1:G:1314:ILE:N	2.36	0.57
1:G:1547:LYS:HE3	1:G:1615:ASP:HB2	1.87	0.57
1:G:1553:GLU:HB2	1:G:1644:PHE:HE2	1.69	0.57
1:A:1187:GLY:O	1:A:1189:ILE:HG12	2.05	0.57
1:A:1261:PHE:N	1:A:1261:PHE:CD2	2.70	0.57
1:A:595:UNK:O	1:A:611:UNK:HA	2.04	0.57
1:A:742:LYS:O	1:A:743:GLN:C	2.43	0.57
1:D:1406:MET:HE3	1:D:1430:ARG:HD2	1.87	0.57
1:D:1604:ILE:HG23	1:D:1630:THR:CA	2.34	0.57
1:D:741:SER:O	1:D:742:LYS:O	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:792:HIS:HD2	1:D:838:MET:SD	2.28	0.57
1:A:1459:ILE:O	1:A:1463:VAL:HG23	2.05	0.57
2:H:238:CYS:N	2:H:239:PRO:HD2	2.20	0.57
2:E:504:PHE:HA	2:E:529:VAL:HG23	1.84	0.57
1:G:1455:ARG:O	1:G:1456:GLU:CB	2.53	0.57
2:H:1678:MET:CE	2:H:1678:MET:HA	2.34	0.57
2:E:33:LEU:O	2:E:37:PHE:HB2	2.03	0.57
2:H:1859:PRO:HB3	2:H:1863:ALA:CB	2.35	0.57
2:E:390:ASN:OD1	2:E:393:LEU:HD23	2.05	0.57
1:A:998:TYR:O	1:A:999:LYS:O	2.22	0.57
1:A:1489:ARG:O	1:A:1493:ILE:HG12	2.04	0.57
2:E:170:PHE:CB	2:E:231:LEU:HD21	2.35	0.57
2:H:1418:UNK:C	2:H:1420:UNK:N	2.65	0.57
2:E:1322:UNK:O	2:E:1324:UNK:N	2.37	0.57
2:H:450:PHE:HD1	2:H:451:ASN:H	1.49	0.57
2:B:1886:VAL:O	3:C:3:UNK:CB	2.53	0.57
2:B:862:UNK:HA	2:B:865:UNK:CB	2.34	0.57
2:H:1141:UNK:O	2:H:1142:UNK:CB	2.53	0.57
1:G:1220:VAL:HG21	1:G:1698:PHE:HD1	1.69	0.57
1:G:687:SER:HB2	1:G:899:LYS:CE	2.35	0.57
1:A:1002:LYS:HE3	1:A:1670:TYR:OH	2.05	0.57
1:A:1073:THR:HG22	1:A:1074:GLY:N	2.19	0.57
1:A:1412:ASP:HB2	1:A:1425:ILE:C	2.24	0.57
1:A:1547:LYS:HE3	1:A:1615:ASP:HB2	1.87	0.57
1:D:1041:ALA:O	1:D:1627:PRO:HG3	2.04	0.57
1:D:710:PHE:HE1	1:D:736:PRO:CD	2.13	0.57
1:D:792:HIS:O	1:D:796:LEU:HD23	2.05	0.57
1:D:794:ILE:HA	1:D:798:ASN:ND2	2.20	0.57
1:A:1011:GLY:O	1:A:1663:GLY:HA3	2.04	0.57
2:H:148:ALA:HB1	2:H:154:ALA:HB3	1.87	0.57
2:H:265:SER:O	2:H:267:LEU:N	2.38	0.57
2:H:462:THR:HB	2:H:482:CYS:HB2	1.87	0.57
2:H:504:PHE:HA	2:H:529:VAL:HG23	1.84	0.57
1:G:1454:THR:HG21	1:G:1508:TRP:CZ3	2.39	0.57
2:E:515:LEU:O	2:E:515:LEU:HD12	2.04	0.57
2:B:1672:GLN:HE21	2:B:1777:THR:CG2	2.18	0.57
2:H:1764:PHE:HD2	2:H:1764:PHE:N	1.99	0.57
2:H:69:SER:HA	2:H:80:PHE:CB	2.34	0.57
2:B:61:VAL:HG12	2:B:65:LEU:HD12	1.86	0.57
1:G:742:LYS:O	1:G:743:GLN:C	2.44	0.57
2:E:49:ALA:CA	2:E:118:LYS:HZ2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:41:LEU:N	2:E:42:PRO:HD2	2.20	0.57
2:E:41:LEU:CB	2:E:46:GLU:H	2.15	0.57
1:D:586:UNK:CB	1:D:671:VAL:N	2.63	0.57
1:A:830:HIS:CD2	1:A:830:HIS:N	2.71	0.57
2:E:1883:GLY:HA2	2:E:1894:GLU:CD	2.24	0.57
1:G:928:GLY:O	1:G:930:LEU:N	2.38	0.57
2:B:1193:UNK:HA	2:B:1201:UNK:O	2.04	0.57
1:D:1138:LYS:O	1:D:1139:GLU:HB3	2.04	0.57
1:G:1119:LYS:CG	1:G:1121:MET:HB2	2.34	0.57
1:G:1288:ASN:O	1:G:1290:LEU:N	2.38	0.57
1:G:1348:ALA:O	1:G:1349:THR:C	2.42	0.57
1:G:1370:THR:O	1:G:1371:THR:HB	2.04	0.57
1:G:1028:GLY:HA3	1:G:1591:TRP:HZ2	1.67	0.57
1:A:1022:THR:O	1:A:1401:TYR:HE2	1.87	0.57
1:A:1530:GLY:O	1:A:1531:LEU:O	2.23	0.57
1:A:1378:GLU:HA	1:A:1583:HIS:CB	2.35	0.57
1:A:1625:LEU:CD1	1:A:1626:TYR:HD1	2.17	0.57
1:A:1730:SER:O	1:A:1731:LEU:C	2.43	0.57
1:A:680:ILE:HA	1:A:769:ILE:HG23	1.87	0.57
1:A:792:HIS:HD2	1:A:838:MET:SD	2.27	0.57
1:D:1274:ILE:C	1:D:1276:GLN:H	2.07	0.57
1:D:1308:SER:CB	1:D:1590:ALA:H	2.17	0.57
1:D:1413:LYS:HD2	1:D:1425:ILE:CD1	2.34	0.57
1:D:1592:MET:O	1:D:1596:ALA:N	2.38	0.57
1:D:1641:ILE:HG12	1:D:1652:GLN:HE22	1.70	0.57
1:D:1303:GLY:HA3	1:D:1649:LYS:HD2	1.84	0.57
1:D:742:LYS:O	1:D:743:GLN:C	2.43	0.57
2:H:490:TRP:CH2	2:H:512:LEU:HD13	2.40	0.57
2:E:473:GLY:O	2:E:477:GLU:HB3	2.04	0.57
1:G:1466:GLU:O	1:G:1467:LEU:C	2.42	0.57
2:B:100:ASP:OD1	2:B:102:HIS:HB2	2.05	0.57
2:E:1754:GLU:C	2:E:1756:ASN:H	2.08	0.57
2:E:1693:ARG:HD3	2:E:1825:GLU:OE2	2.05	0.57
2:E:346:GLN:O	2:E:348:GLN:N	2.36	0.57
2:H:1778:GLN:HB2	2:H:1779:PRO:CD	2.32	0.57
2:H:1804:PHE:CE2	2:H:1818:LEU:HB2	2.40	0.57
2:B:49:ALA:H	2:B:118:LYS:HZ1	1.53	0.57
1:G:741:SER:O	1:G:742:LYS:O	2.23	0.57
1:D:1717:ASP:C	1:D:1719:LEU:N	2.58	0.57
2:B:1328:UNK:O	2:B:1332:UNK:N	2.37	0.57
2:H:1049:UNK:C	2:H:1051:UNK:N	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1225:UNK:O	2:H:1226:UNK:CB	2.53	0.57
2:B:969:UNK:O	2:B:971:UNK:N	2.38	0.57
1:A:563:UNK:C	1:A:565:UNK:N	2.68	0.57
1:G:1108:PRO:O	1:G:1109:GLU:HB2	2.05	0.56
1:G:1109:GLU:O	1:G:1110:LEU:CB	2.53	0.56
1:G:1197:THR:HA	1:G:1200:ILE:CG2	2.34	0.56
1:G:1214:PHE:C	1:G:1218:SER:HG	2.07	0.56
1:G:1257:LEU:HD23	1:G:1257:LEU:O	2.04	0.56
1:G:1614:VAL:O	1:G:1614:VAL:HG12	2.05	0.56
1:G:1691:GLY:O	1:G:1695:ASN:N	2.38	0.56
1:G:1691:GLY:C	1:G:1697:LEU:HD11	2.26	0.56
1:A:1045:PHE:HB3	1:A:1050:CYS:N	2.20	0.56
1:A:1110:LEU:HG	1:A:1188:GLN:CA	2.34	0.56
1:A:1412:ASP:O	1:A:1648:GLN:OE1	2.23	0.56
1:A:1553:GLU:HA	1:A:1556:THR:HB	1.87	0.56
1:A:1604:ILE:HD13	1:A:1604:ILE:N	2.20	0.56
1:A:1408:ALA:HA	1:A:1652:GLN:O	2.05	0.56
1:D:1041:ALA:HA	1:D:1606:PRO:HG3	1.87	0.56
1:D:1076:VAL:HG11	1:D:1087:LYS:CA	2.25	0.56
1:D:1276:GLN:O	1:D:1279:PHE:CD2	2.59	0.56
1:D:677:TYR:HA	1:D:702:LYS:O	2.05	0.56
1:D:858:TRP:HA	1:D:861:GLN:NE2	2.19	0.56
1:G:1012:LEU:HD11	1:G:1015:LEU:HD12	1.86	0.56
2:B:238:CYS:N	2:B:239:PRO:HD2	2.20	0.56
2:B:339:LEU:HB2	2:B:420:PHE:CD1	2.40	0.56
1:A:1339:GLY:O	1:A:1341:PHE:O	2.22	0.56
2:B:41:LEU:HD22	2:B:47:GLY:N	2.20	0.56
2:B:1264:UNK:C	2:B:1266:UNK:N	2.68	0.56
1:G:525:UNK:O	1:G:526:UNK:C	2.53	0.56
2:H:917:UNK:C	2:H:919:UNK:N	2.67	0.56
2:B:1562:UNK:O	2:B:1564:UNK:N	2.38	0.56
1:D:928:GLY:O	1:D:930:LEU:N	2.38	0.56
1:G:547:UNK:O	1:G:549:UNK:N	2.36	0.56
2:B:1334:UNK:O	2:B:1335:UNK:C	2.52	0.56
2:H:1458:UNK:O	2:H:1460:UNK:N	2.38	0.56
2:E:1975:UNK:O	2:E:1976:UNK:CB	2.52	0.56
2:B:699:UNK:O	2:B:700:UNK:C	2.51	0.56
2:E:222:PRO:HA	2:E:225:THR:OG1	2.05	0.56
1:A:1178:ALA:O	1:A:1179:LEU:CD2	2.50	0.56
1:D:1162:GLU:OE2	1:D:1162:GLU:N	2.38	0.56
1:G:1109:GLU:C	1:G:1111:PHE:N	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1604:ILE:HD13	1:G:1604:ILE:N	2.19	0.56
1:A:1118:LYS:HG3	1:A:1118:LYS:O	2.05	0.56
1:A:1370:THR:O	1:A:1371:THR:HB	2.05	0.56
1:A:1413:LYS:HD2	1:A:1425:ILE:CD1	2.35	0.56
1:A:1618:LEU:HB3	1:A:1623:TYR:HE2	1.69	0.56
1:A:771:PHE:O	1:A:772:ALA:O	2.23	0.56
1:A:687:SER:HB2	1:A:899:LYS:HE3	1.87	0.56
1:D:1202:ASP:O	1:D:1203:ASP:CB	2.53	0.56
1:A:1447:TYR:C	1:A:1449:LYS:N	2.58	0.56
2:H:478:ARG:C	2:H:480:VAL:N	2.59	0.56
2:H:503:ASP:C	2:H:505:GLY:H	2.08	0.56
2:B:240:LEU:HA	2:B:243:VAL:CG2	2.34	0.56
2:E:384:GLN:O	2:E:385:SER:C	2.43	0.56
2:B:1789:PHE:O	2:B:1790:GLU:C	2.42	0.56
1:G:1258:ARG:NH1	1:G:1263:ASP:OD2	2.38	0.56
2:B:1:MET:CB	2:B:11:LEU:HB2	2.29	0.56
2:B:14:GLY:HA3	2:B:18:HIS:CB	2.35	0.56
2:B:2020:UNK:C	2:B:2022:UNK:N	2.66	0.56
2:E:408:PRO:HA	2:E:412:ARG:HB2	1.88	0.56
2:B:1907:LEU:HD23	2:B:1907:LEU:N	2.20	0.56
2:B:390:ASN:OD1	2:B:393:LEU:HD23	2.05	0.56
1:G:1280:ILE:H	1:G:1280:ILE:CD1	2.16	0.56
2:B:94:CYS:SG	2:B:95:TYR:N	2.79	0.56
2:B:1379:UNK:HA	2:B:1425:UNK:O	2.05	0.56
1:G:1489:ARG:O	1:G:1493:ILE:HG12	2.05	0.56
2:H:1379:UNK:HA	2:H:1425:UNK:O	2.04	0.56
2:H:1040:UNK:O	2:H:1041:UNK:CB	2.53	0.56
1:D:927:ASN:O	1:D:929:GLY:N	2.38	0.56
2:B:1418:UNK:C	2:B:1420:UNK:N	2.67	0.56
2:B:765:UNK:C	2:B:767:UNK:N	2.67	0.56
1:G:963:LEU:O	1:G:967:VAL:HG23	2.05	0.56
1:A:239:UNK:O	1:A:241:UNK:N	2.38	0.56
2:H:1975:UNK:O	2:H:1976:UNK:CB	2.53	0.56
2:B:1018:UNK:O	2:B:1019:UNK:CB	2.53	0.56
2:H:1193:UNK:HA	2:H:1201:UNK:O	2.04	0.56
1:A:1165:VAL:HG23	1:A:1166:LYS:N	2.20	0.56
1:D:1169:LYS:NZ	1:D:1170:GLY:H	2.02	0.56
1:D:1140:THR:HA	1:D:1165:VAL:HB	1.88	0.56
1:G:1032:SER:O	1:G:1033:ALA:C	2.43	0.56
1:G:1103:ILE:O	1:G:1106:ILE:HG13	2.05	0.56
1:G:1121:MET:O	1:G:1183:ARG:HA	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1303:GLY:HA3	1:G:1649:LYS:HD2	1.86	0.56
1:G:826:MET:HG3	1:G:867:ALA:H	1.68	0.56
1:G:858:TRP:HA	1:G:861:GLN:NE2	2.20	0.56
1:G:1191:THR:HB	1:G:1193:TRP:CZ3	2.39	0.56
1:G:1327:CYS:HB3	1:G:1387:ILE:HD11	1.87	0.56
1:G:1412:ASP:O	1:G:1648:GLN:OE1	2.23	0.56
1:G:1378:GLU:HA	1:G:1583:HIS:CB	2.36	0.56
1:A:1189:ILE:CD1	1:A:1352:THR:HG23	2.31	0.56
1:A:1604:ILE:HG23	1:A:1630:THR:CA	2.35	0.56
1:A:680:ILE:HD11	1:A:703:VAL:HG13	1.87	0.56
1:A:796:LEU:O	1:A:800:LEU:HD23	2.05	0.56
1:A:1122:ILE:O	1:A:1122:ILE:HG13	2.05	0.56
1:A:1637:ARG:O	1:A:1656:VAL:HG23	2.06	0.56
1:D:1026:GLU:O	1:D:1032:SER:HA	2.04	0.56
1:D:1105:LEU:HD22	1:D:1111:PHE:CZ	2.39	0.56
1:D:1111:PHE:HB3	1:D:1114:TYR:CD1	2.39	0.56
1:D:1188:GLN:O	1:D:1189:ILE:HD13	2.06	0.56
1:D:1254:VAL:CG2	1:D:1255:SER:H	2.06	0.56
1:D:1539:ALA:HA	1:D:1640:SER:O	2.05	0.56
1:D:1573:ILE:HG23	1:D:1624:VAL:CG1	2.35	0.56
1:D:771:PHE:CE1	1:D:825:PRO:HD3	2.41	0.56
1:D:1189:ILE:CD1	1:D:1352:THR:HG23	2.32	0.56
1:D:1624:VAL:O	1:D:1625:LEU:HB3	2.04	0.56
1:D:1464:GLU:CA	1:D:1467:LEU:HD12	2.26	0.56
1:D:1456:GLU:H	1:D:1459:ILE:HG13	1.67	0.56
1:A:1464:GLU:HG2	1:A:1773:UNK:N	2.20	0.56
1:A:1455:ARG:O	1:A:1456:GLU:CB	2.53	0.56
2:H:339:LEU:HB2	2:H:420:PHE:CD1	2.40	0.56
2:E:490:TRP:CH2	2:E:512:LEU:HD13	2.41	0.56
2:B:131:ILE:HG21	2:B:182:VAL:CG2	2.35	0.56
2:B:503:ASP:C	2:B:505:GLY:H	2.08	0.56
2:B:235:PRO:O	2:B:236:ILE:CB	2.53	0.56
2:B:241:ILE:HG22	2:B:242:GLY:H	1.70	0.56
2:E:1698:PHE:CD1	2:E:1706:ILE:HD11	2.40	0.56
2:H:1698:PHE:C	2:H:1700:ASP:H	2.08	0.56
2:H:1720:HIS:HA	2:H:1763:THR:HA	1.86	0.56
2:B:50:ALA:O	2:B:51:ASP:HB2	2.05	0.56
1:G:797:THR:O	1:G:800:LEU:N	2.38	0.56
1:G:796:LEU:O	1:G:800:LEU:HD23	2.05	0.56
2:H:1307:UNK:C	2:H:1309:UNK:N	2.68	0.56
1:G:1717:ASP:O	1:G:1719:LEU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1948:UNK:O	2:H:1949:UNK:CB	2.52	0.56
2:E:197:GLU:O	2:E:199:ILE:N	2.38	0.56
2:H:915:UNK:O	2:H:917:UNK:N	2.39	0.56
2:H:916:UNK:O	2:H:920:UNK:N	2.39	0.56
1:G:927:ASN:ND2	1:G:931:GLN:H	2.03	0.56
1:G:489:UNK:O	1:G:490:UNK:C	2.53	0.56
1:D:418:UNK:O	1:D:419:UNK:C	2.54	0.56
1:A:418:UNK:O	1:A:419:UNK:C	2.53	0.56
2:B:620:UNK:O	2:B:622:UNK:N	2.38	0.56
2:B:799:UNK:C	2:B:801:UNK:N	2.67	0.56
2:H:582:UNK:O	2:H:583:UNK:CB	2.53	0.56
1:A:428:UNK:O	1:A:430:UNK:N	2.37	0.56
2:B:1799:PRO:O	2:B:1801:ASP:N	2.38	0.56
1:A:701:ALA:O	1:A:730:SER:HA	2.05	0.56
2:E:1162:UNK:C	2:E:1164:UNK:H	2.19	0.56
2:H:1281:UNK:O	2:H:1282:UNK:CB	2.53	0.56
2:H:767:UNK:C	2:H:769:UNK:N	2.66	0.56
2:B:214:ASN:O	2:B:216:LEU:N	2.38	0.56
1:A:432:UNK:O	1:A:433:UNK:CB	2.54	0.56
2:H:1983:UNK:C	2:H:1985:UNK:N	2.65	0.56
1:A:456:UNK:O	1:A:460:UNK:N	2.39	0.56
2:E:214:ASN:O	2:E:216:LEU:N	2.39	0.56
1:A:1144:PHE:CD1	1:A:1145:LYS:N	2.72	0.56
1:D:1133:PRO:O	1:D:1134:PHE:CD1	2.58	0.56
1:D:1144:PHE:O	1:D:1145:LYS:C	2.44	0.56
1:G:1067:LEU:HG	1:G:1074:GLY:H	1.70	0.56
1:G:1110:LEU:HG	1:G:1188:GLN:CA	2.35	0.56
1:G:1200:ILE:HD12	1:G:1698:PHE:CE2	2.40	0.56
1:A:1099:GLU:O	1:A:1102:GLY:N	2.24	0.56
1:A:1108:PRO:O	1:A:1109:GLU:HB2	2.05	0.56
1:A:1299:LYS:O	1:A:1300:THR:HB	2.05	0.56
1:A:1422:GLY:C	1:A:1425:ILE:HB	2.24	0.56
1:A:1654:ILE:CG1	1:A:1655:VAL:N	2.69	0.56
1:D:1067:LEU:HG	1:D:1074:GLY:H	1.71	0.56
1:D:1216:LEU:O	1:D:1217:VAL:C	2.43	0.56
1:D:1257:LEU:HD23	1:D:1257:LEU:O	2.06	0.56
1:D:1549:ASN:OD1	1:D:1550:ASP:N	2.38	0.56
1:D:791:ALA:CA	1:D:794:ILE:HG22	2.34	0.56
1:D:1459:ILE:O	1:D:1463:VAL:HG23	2.04	0.56
1:A:1012:LEU:HD11	1:A:1015:LEU:HD12	1.87	0.56
2:H:335:PRO:HA	2:H:420:PHE:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:98:GLY:O	2:E:100:ASP:N	2.38	0.56
2:E:248:HIS:CE1	2:E:530:ALA:HB2	2.40	0.56
2:B:267:LEU:HG	2:B:457:ILE:CD1	2.36	0.56
2:B:462:THR:HB	2:B:482:CYS:HB2	1.87	0.56
1:D:1471:LYS:HD3	1:D:1471:LYS:O	2.05	0.56
2:B:1812:TYR:O	2:B:1816:ALA:CB	2.54	0.56
2:H:1698:PHE:C	2:H:1700:ASP:N	2.58	0.56
2:H:18:HIS:O	2:H:20:LEU:N	2.39	0.56
2:B:41:LEU:CD2	2:B:46:GLU:HA	2.31	0.56
2:E:29:ILE:C	2:E:31:SER:N	2.56	0.56
1:D:1489:ARG:O	1:D:1493:ILE:HG23	2.06	0.56
2:E:1558:UNK:O	2:E:1559:UNK:C	2.54	0.56
2:E:1299:UNK:O	2:E:1301:UNK:N	2.39	0.56
2:B:2040:UNK:C	2:B:2042:UNK:N	2.64	0.56
2:E:594:UNK:O	2:E:611:UNK:HA	2.06	0.56
1:G:1110:LEU:CD1	1:G:1188:GLN:N	2.68	0.56
1:G:1691:GLY:HA2	1:G:1696:LYS:HB2	1.88	0.56
1:A:1219:VAL:HA	1:A:1384:ILE:HG21	1.87	0.56
1:A:1260:MET:C	1:A:1261:PHE:HD2	2.09	0.56
1:A:1542:HIS:HB2	1:A:1592:MET:HE1	1.88	0.56
1:A:1636:VAL:O	1:A:1637:ARG:HB2	2.05	0.56
1:A:1656:VAL:HG22	1:A:1657:HIS:N	2.20	0.56
1:A:908:LEU:O	1:A:913:VAL:HG11	2.05	0.56
1:D:1063:HIS:O	1:D:1065:GLY:N	2.34	0.56
1:D:1290:LEU:O	1:D:1291:LEU:HB2	2.06	0.56
1:D:1028:GLY:HA3	1:D:1591:TRP:HZ2	1.71	0.56
1:D:1590:ALA:O	1:D:1593:MET:HB3	2.05	0.56
1:D:693:LEU:O	1:D:694:GLN:C	2.44	0.56
1:D:443:UNK:HA	1:D:722:TYR:CE2	2.41	0.56
1:A:1447:TYR:HE2	1:A:1450:ARG:CG	2.18	0.56
1:A:1459:ILE:HD12	1:A:1460:LYS:N	2.21	0.56
2:H:349:VAL:CG2	2:H:377:LEU:HD13	2.32	0.56
2:E:100:ASP:OD1	2:E:102:HIS:HB2	2.04	0.56
2:B:1693:ARG:HD3	2:B:1825:GLU:OE2	2.06	0.56
2:B:1762:TYR:CD1	2:B:1763:THR:N	2.72	0.56
2:H:41:LEU:N	2:H:42:PRO:HD2	2.19	0.56
2:H:63:LYS:O	2:H:66:GLY:N	2.39	0.56
2:E:26:SER:O	2:E:29:ILE:HG22	2.05	0.56
1:D:999:LYS:O	1:D:1001:VAL:N	2.33	0.56
2:H:1877:ARG:HG2	2:H:1929:LYS:CD	2.36	0.56
1:D:529:UNK:O	1:D:533:UNK:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:525:UNK:O	1:A:526:UNK:C	2.54	0.56
2:E:1842:VAL:O	2:E:1842:VAL:HG12	2.04	0.56
2:H:601:UNK:HA	2:H:604:UNK:CB	2.36	0.56
2:E:1758:HIS:CD2	2:E:1759:SER:H	2.24	0.56
2:E:862:UNK:HA	2:E:865:UNK:CB	2.35	0.56
1:G:1242:GLU:O	1:G:1243:VAL:HG13	2.05	0.56
1:G:717:TYR:HD2	1:G:718:TYR:CD1	2.23	0.56
1:A:1069:GLY:O	1:A:1070:ARG:C	2.44	0.56
1:A:1370:THR:H	1:A:1547:LYS:CD	2.17	0.56
1:A:1403:ILE:HG23	1:A:1656:VAL:CG1	2.27	0.56
1:D:1069:GLY:O	1:D:1070:ARG:C	2.44	0.56
1:D:1247:SER:O	1:D:1301:PRO:CD	2.54	0.56
1:D:1392:LEU:H	1:D:1392:LEU:CD2	2.18	0.56
1:D:1394:LEU:HD11	1:D:1661:LEU:CD2	2.36	0.56
1:D:1579:PHE:CD2	1:D:1609:ARG:O	2.59	0.56
1:D:681:THR:HG22	1:D:771:PHE:O	2.06	0.56
2:H:240:LEU:HA	2:H:243:VAL:CG2	2.36	0.56
2:H:473:GLY:O	2:H:477:GLU:HB3	2.05	0.56
2:H:527:VAL:HG22	2:H:540:ASP:O	2.06	0.56
2:B:333:GLY:O	2:B:334:VAL:C	2.43	0.56
2:E:1720:HIS:C	2:E:1721:PHE:CD1	2.78	0.56
2:B:1751:ILE:HG21	2:B:1836:MET:SD	2.46	0.56
2:B:1754:GLU:C	2:B:1756:ASN:H	2.08	0.56
2:B:1789:PHE:CZ	2:B:1818:LEU:HD23	2.40	0.56
1:G:771:PHE:O	1:G:772:ALA:O	2.23	0.56
2:E:387:TYR:O	2:E:390:ASN:HB2	2.05	0.56
2:E:1877:ARG:HG2	2:E:1929:LYS:CD	2.36	0.56
1:G:949:GLU:O	1:G:953:VAL:HG23	2.05	0.56
2:E:1328:UNK:O	2:E:1332:UNK:N	2.39	0.56
2:E:1458:UNK:O	2:E:1460:UNK:N	2.38	0.56
1:D:959:ILE:O	1:D:963:LEU:HB2	2.05	0.56
2:B:1458:UNK:O	2:B:1460:UNK:N	2.38	0.56
1:D:815:ILE:O	1:D:815:ILE:HG22	2.04	0.56
1:G:815:ILE:O	1:G:815:ILE:HG22	2.06	0.56
2:H:969:UNK:O	2:H:970:UNK:C	2.54	0.56
2:B:1602:UNK:C	2:B:1604:UNK:N	2.67	0.56
2:B:1262:UNK:O	2:B:1263:UNK:C	2.53	0.56
1:G:1126:ILE:CG2	1:G:1127:VAL:N	2.68	0.56
1:G:1158:PRO:O	1:G:1167:LEU:HB3	2.06	0.56
1:A:1173:LEU:O	1:A:1174:TYR:HB2	2.05	0.56
1:D:1131:LEU:CB	1:D:1133:PRO:HD3	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1159:GLU:O	1:D:1166:LYS:HB3	2.06	0.56
1:G:1073:THR:CG2	1:G:1074:GLY:N	2.68	0.56
1:G:1419:PRO:O	1:G:1420:ALA:HB2	2.06	0.56
1:G:1541:PHE:CG	1:G:1576:PHE:HE1	2.23	0.56
1:G:911:PRO:O	1:G:912:GLU:HB2	2.05	0.56
1:A:1067:LEU:HG	1:A:1074:GLY:H	1.71	0.56
1:A:1096:SER:C	1:A:1098:LEU:N	2.59	0.56
1:A:1105:LEU:HB3	1:A:1111:PHE:HE2	1.70	0.56
1:A:1254:VAL:C	1:A:1256:ALA:N	2.49	0.56
1:A:1691:GLY:O	1:A:1695:ASN:N	2.38	0.56
1:A:1220:VAL:HG21	1:A:1698:PHE:HD1	1.69	0.56
1:D:1119:LYS:C	1:D:1121:MET:N	2.59	0.56
1:D:1219:VAL:HG23	1:D:1328:ILE:HD11	1.88	0.56
1:D:1605:ILE:HG13	1:D:1628:SER:CB	2.36	0.56
1:D:771:PHE:O	1:D:772:ALA:O	2.24	0.56
2:H:292:PHE:O	2:H:295:SER:HB3	2.05	0.56
2:E:235:PRO:O	2:E:236:ILE:CB	2.54	0.56
2:E:267:LEU:HG	2:E:457:ILE:CD1	2.35	0.56
2:E:1729:ILE:HG23	2:E:1730:ARG:N	2.13	0.56
2:E:1751:ILE:HG21	2:E:1836:MET:SD	2.46	0.56
2:H:1672:GLN:HE21	2:H:1777:THR:HG21	1.71	0.56
2:H:1760:THR:O	2:H:1761:SER:OG	2.23	0.56
2:H:41:LEU:HD22	2:H:47:GLY:N	2.21	0.56
2:E:1859:PRO:HB3	2:E:1863:ALA:CB	2.35	0.56
2:B:1907:LEU:CD2	2:B:1907:LEU:H	2.10	0.56
2:E:1927:LEU:HA	2:E:1930:SER:CB	2.36	0.56
2:H:1908:ASP:O	2:H:1911:THR:HG22	2.06	0.56
1:D:432:UNK:O	1:D:433:UNK:CB	2.53	0.56
1:G:239:UNK:O	1:G:241:UNK:N	2.39	0.56
2:B:932:UNK:O	2:B:934:UNK:N	2.39	0.56
1:D:563:UNK:C	1:D:565:UNK:N	2.68	0.56
1:A:1140:THR:HA	1:A:1165:VAL:HB	1.86	0.56
1:G:1122:ILE:HA	1:G:1182:ASP:O	2.06	0.56
1:G:1685:TYR:CD1	1:G:1685:TYR:O	2.58	0.56
1:G:1711:GLU:CG	1:G:1715:TYR:HE1	2.10	0.56
1:A:1223:PHE:HE2	1:A:1386:ILE:CG2	2.10	0.56
1:A:1579:PHE:O	1:A:1580:LEU:CB	2.52	0.56
1:A:911:PRO:O	1:A:912:GLU:HB2	2.06	0.56
1:D:1685:TYR:HE2	2:E:966:UNK:CB	2.19	0.56
1:D:901:MET:O	1:D:901:MET:HG2	2.06	0.56
2:H:241:ILE:HG22	2:H:242:GLY:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:494:THR:HB	2:E:520:LYS:HZ2	1.68	0.56
1:A:1471:LYS:HA	1:A:1474:ALA:HB2	1.88	0.56
2:E:334:VAL:O	2:E:420:PHE:CD2	2.56	0.56
2:H:1762:TYR:CD1	2:H:1763:THR:N	2.73	0.56
2:H:1788:ALA:O	2:H:1792:LEU:HG	2.06	0.56
2:B:41:LEU:CB	2:B:46:GLU:H	2.14	0.56
2:B:16:LEU:HG	2:E:20:LEU:HD21	1.87	0.56
2:E:41:LEU:HD22	2:E:47:GLY:N	2.20	0.56
2:B:1911:THR:C	2:B:1913:VAL:H	2.09	0.56
2:E:916:UNK:O	2:E:920:UNK:N	2.39	0.56
2:B:922:UNK:C	2:B:924:UNK:N	2.68	0.56
1:D:493:UNK:O	1:D:495:UNK:N	2.39	0.56
1:G:893:VAL:O	1:G:895:THR:N	2.34	0.56
3:F:27:UNK:C	3:F:29:UNK:N	2.68	0.56
2:B:601:UNK:HA	2:B:604:UNK:CB	2.36	0.56
2:H:1664:UNK:HA	3:I:18:UNK:CB	2.34	0.56
2:B:450:PHE:CD1	2:B:451:ASN:N	2.63	0.56
2:E:1961:UNK:O	2:E:1963:UNK:N	2.39	0.56
1:G:1140:THR:HA	1:G:1165:VAL:HB	1.87	0.56
1:G:1096:SER:C	1:G:1098:LEU:N	2.59	0.56
1:G:1599:ILE:O	1:G:1600:LEU:O	2.24	0.56
1:G:1539:ALA:HA	1:G:1640:SER:O	2.05	0.56
1:G:1394:LEU:HD11	1:G:1661:LEU:CD2	2.35	0.56
1:G:445:UNK:O	1:G:447:UNK:N	2.38	0.56
1:A:1028:GLY:HA3	1:A:1591:TRP:HZ2	1.71	0.56
1:A:1031:GLY:O	1:A:1032:SER:C	2.45	0.56
1:A:1067:LEU:CG	1:A:1073:THR:HG23	2.25	0.56
1:A:1101:SER:O	1:A:1103:ILE:N	2.39	0.56
1:A:1327:CYS:HB3	1:A:1387:ILE:HD11	1.88	0.56
1:A:797:THR:O	1:A:800:LEU:N	2.39	0.56
1:D:1722:VAL:CB	1:D:1731:LEU:HG	2.35	0.56
1:D:901:MET:CE	1:D:905:LEU:HD23	2.36	0.56
1:D:1012:LEU:HD11	1:D:1015:LEU:HD12	1.88	0.56
1:D:1455:ARG:HG3	1:D:1459:ILE:HG21	1.88	0.56
1:D:1464:GLU:HG2	1:D:1773:UNK:N	2.21	0.56
1:A:1463:VAL:HG12	1:A:1464:GLU:N	2.21	0.56
2:H:347:GLU:O	2:H:351:ASP:N	2.39	0.56
2:E:528:ILE:H	2:E:541:TYR:HB2	1.69	0.56
1:G:1462:TRP:HA	1:G:1465:ASN:HB3	1.88	0.56
2:B:490:TRP:CH2	2:B:512:LEU:HD13	2.41	0.56
2:B:541:TYR:O	2:B:543:PHE:N	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1789:PHE:O	2:H:1792:LEU:N	2.36	0.56
1:G:679:LEU:HA	1:G:704:VAL:O	2.06	0.56
1:G:1340:SER:O	1:G:1341:PHE:CB	2.53	0.56
2:B:1859:PRO:HB3	2:B:1863:ALA:CB	2.36	0.56
2:H:135:ARG:N	2:H:136:PRO:HD3	2.21	0.56
2:B:1924:ILE:C	2:B:1926:GLU:H	2.08	0.56
2:E:1379:UNK:HA	2:E:1425:UNK:O	2.06	0.56
2:H:2036:UNK:C	2:H:2038:UNK:N	2.67	0.56
2:B:969:UNK:O	2:B:970:UNK:C	2.54	0.56
2:B:148:ALA:HB1	2:B:154:ALA:HB3	1.87	0.56
1:A:1126:ILE:CG2	1:A:1127:VAL:N	2.69	0.56
1:A:1138:LYS:O	1:A:1139:GLU:HB3	2.05	0.56
1:G:1057:MET:CE	1:G:1106:ILE:HD11	2.36	0.56
1:G:1068:LYS:O	1:G:1069:GLY:O	2.24	0.56
1:G:1101:SER:O	1:G:1103:ILE:N	2.39	0.56
1:G:1299:LYS:O	1:G:1300:THR:HB	2.05	0.56
1:G:1425:ILE:HG22	1:G:1425:ILE:O	2.06	0.56
1:G:1538:VAL:HA	1:G:1573:ILE:O	2.06	0.56
1:A:1188:GLN:O	1:A:1189:ILE:HD13	2.06	0.56
1:A:1274:ILE:C	1:A:1276:GLN:H	2.07	0.56
1:A:1403:ILE:O	1:A:1655:VAL:HG22	2.06	0.56
1:A:752:ILE:CA	1:A:761:LEU:HD23	2.26	0.56
1:D:1261:PHE:HD2	1:D:1261:PHE:N	2.03	0.56
1:D:1299:LYS:O	1:D:1300:THR:HB	2.06	0.56
1:D:1188:GLN:NE2	1:D:1352:THR:OG1	2.26	0.56
1:D:1378:GLU:HA	1:D:1583:HIS:CB	2.35	0.56
1:D:1553:GLU:CA	1:D:1556:THR:HB	2.36	0.56
1:D:1636:VAL:HG13	1:D:1657:HIS:CD2	2.40	0.56
1:D:680:ILE:HA	1:D:769:ILE:HG23	1.88	0.56
1:D:710:PHE:HD1	1:D:736:PRO:HB3	1.69	0.56
2:H:541:TYR:O	2:H:543:PHE:N	2.33	0.56
2:E:183:LEU:O	2:E:184:VAL:HB	2.06	0.56
1:G:1455:ARG:HG3	1:G:1459:ILE:HG21	1.88	0.56
2:B:474:SER:O	2:B:475:ILE:HB	2.06	0.56
1:G:1471:LYS:HA	1:G:1474:ALA:HB2	1.88	0.56
2:H:1770:LEU:C	2:H:1772:SER:N	2.59	0.56
2:H:56:THR:HA	2:H:59:GLU:HG2	1.88	0.56
2:B:63:LYS:O	2:B:66:GLY:N	2.39	0.56
1:G:771:PHE:CD1	1:G:771:PHE:N	2.73	0.56
1:A:907:GLY:O	1:A:909:LEU:N	2.39	0.56
2:E:915:UNK:O	2:E:917:UNK:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:418:UNK:O	1:G:419:UNK:C	2.53	0.56
1:A:412:UNK:C	1:A:414:UNK:N	2.69	0.56
2:B:582:UNK:O	2:B:583:UNK:CB	2.54	0.56
2:B:1019:UNK:C	2:B:1021:UNK:N	2.68	0.56
1:D:635:UNK:O	1:D:636:UNK:CB	2.54	0.56
2:B:577:UNK:O	2:B:578:UNK:C	2.52	0.56
2:E:1539:UNK:O	2:E:1540:UNK:C	2.53	0.56
1:D:394:UNK:O	1:D:395:UNK:C	2.54	0.56
2:B:357:ASN:HA	2:B:360:LEU:HB2	1.88	0.56
1:G:1151:LYS:HG3	1:G:1175:ILE:CD1	2.37	0.55
1:D:1151:LYS:CG	1:D:1175:ILE:HD13	2.36	0.55
1:G:1426:LEU:HD13	1:G:1651:GLY:N	2.21	0.55
1:G:1530:GLY:O	1:G:1531:LEU:O	2.24	0.55
1:G:1654:ILE:CG1	1:G:1655:VAL:N	2.69	0.55
1:G:1656:VAL:HG22	1:G:1657:HIS:N	2.20	0.55
1:A:1349:THR:HG22	1:A:1350:SER:N	2.21	0.55
1:A:1536:LEU:CD1	1:A:1536:LEU:H	2.11	0.55
1:A:1200:ILE:HD12	1:A:1698:PHE:CE2	2.41	0.55
1:D:1332:TYR:HA	1:D:1587:ALA:HB2	1.88	0.55
1:D:705:VAL:HG23	1:D:732:LEU:HD11	1.88	0.55
1:D:771:PHE:HD1	1:D:771:PHE:N	2.04	0.55
1:D:907:GLY:O	1:D:909:LEU:N	2.39	0.55
1:D:1447:TYR:C	1:D:1449:LYS:N	2.59	0.55
1:G:1464:GLU:HG2	1:G:1773:UNK:N	2.21	0.55
2:B:382:PRO:HG2	2:B:385:SER:OG	2.05	0.55
1:G:1475:GLU:O	1:G:1478:PRO:HD2	2.07	0.55
2:E:1672:GLN:HE21	2:E:1777:THR:HG21	1.69	0.55
2:B:1927:LEU:HA	2:B:1930:SER:CB	2.36	0.55
2:B:1867:SER:HA	2:B:1870:ALA:CB	2.36	0.55
2:B:1948:UNK:O	2:B:1949:UNK:CB	2.53	0.55
2:H:1328:UNK:O	2:H:1332:UNK:N	2.39	0.55
2:B:1842:VAL:O	2:B:1842:VAL:HG12	2.05	0.55
2:E:395:LYS:O	2:E:396:ALA:HB2	2.06	0.55
1:G:471:UNK:HA	1:G:474:UNK:CB	2.36	0.55
1:D:1511:ASP:O	1:D:1512:PHE:C	2.42	0.55
1:G:1036:ARG:HD3	1:G:1037:TRP:N	2.21	0.55
1:G:1332:TYR:HA	1:G:1587:ALA:HB2	1.87	0.55
1:G:1189:ILE:CD1	1:G:1352:THR:HG23	2.34	0.55
1:G:1364:GLU:OE1	1:G:1367:ARG:NH1	2.39	0.55
1:G:1398:VAL:HG12	1:G:1673:TYR:CE1	2.37	0.55
1:A:1036:ARG:HD3	1:A:1037:TRP:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1387:ILE:O	1:A:1387:ILE:HD12	2.06	0.55
1:A:1600:LEU:O	1:A:1601:ASN:C	2.44	0.55
1:A:769:ILE:HB	1:A:823:ILE:CD1	2.36	0.55
1:D:1205:ILE:O	1:D:1205:ILE:HG13	2.05	0.55
2:H:144:ALA:C	2:H:146:PHE:N	2.56	0.55
2:H:184:VAL:O	2:H:188:ILE:HG12	2.06	0.55
2:H:273:HIS:CB	2:H:512:LEU:HD11	2.36	0.55
2:H:384:GLN:O	2:H:385:SER:C	2.42	0.55
1:G:1447:TYR:C	1:G:1449:LYS:N	2.59	0.55
1:G:1463:VAL:HG12	1:G:1464:GLU:N	2.20	0.55
2:B:335:PRO:HA	2:B:420:PHE:CE2	2.40	0.55
2:E:1804:PHE:CE2	2:E:1818:LEU:HB2	2.41	0.55
2:B:1753:LYS:O	2:B:1755:ILE:HG12	2.06	0.55
2:H:1705:SER:OG	2:H:1708:ASP:HB2	2.06	0.55
1:D:755:THR:HG22	1:D:757:LYS:N	2.07	0.55
2:E:40:ILE:O	2:E:40:ILE:HG22	2.05	0.55
2:E:1912:ASN:O	2:E:1913:VAL:HG22	2.06	0.55
1:A:917:CYS:SG	1:A:922:VAL:HB	2.46	0.55
1:A:574:UNK:C	1:A:576:UNK:N	2.62	0.55
1:A:927:ASN:ND2	1:A:931:GLN:H	2.03	0.55
2:B:1483:UNK:O	2:B:1484:UNK:CB	2.55	0.55
2:H:1458:UNK:C	2:H:1460:UNK:N	2.68	0.55
2:B:214:ASN:C	2:B:216:LEU:H	2.09	0.55
2:H:1019:UNK:C	2:H:1021:UNK:N	2.69	0.55
3:I:61:UNK:O	3:I:62:UNK:CB	2.55	0.55
1:D:584:UNK:O	1:D:585:UNK:O	2.24	0.55
1:A:584:UNK:O	1:A:585:UNK:O	2.24	0.55
1:D:949:GLU:O	1:D:953:VAL:HG23	2.07	0.55
2:H:1162:UNK:C	2:H:1164:UNK:H	2.18	0.55
1:G:1052:GLU:O	1:G:1056:ILE:HG13	2.06	0.55
1:G:1119:LYS:C	1:G:1121:MET:N	2.60	0.55
1:G:1412:ASP:HB2	1:G:1425:ILE:C	2.26	0.55
1:G:1041:ALA:O	1:G:1627:PRO:HG3	2.06	0.55
1:A:1094:GLU:HG3	1:A:1095:THR:N	2.22	0.55
1:A:1099:GLU:O	1:A:1101:SER:N	2.39	0.55
1:A:1308:SER:OG	1:A:1590:ALA:N	2.34	0.55
1:A:1419:PRO:O	1:A:1420:ALA:HB2	2.06	0.55
1:A:1525:ALA:C	1:A:1527:ALA:H	2.09	0.55
1:A:1562:LYS:HZ3	1:A:1621:PHE:HZ	1.51	0.55
1:A:1583:HIS:CD2	1:A:1584:PRO:HA	2.41	0.55
1:A:1658:PRO:O	1:A:1660:TYR:N	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:679:LEU:CD1	1:A:679:LEU:O	2.54	0.55
1:A:693:LEU:O	1:A:694:GLN:C	2.45	0.55
1:D:1045:PHE:HB3	1:D:1050:CYS:N	2.21	0.55
1:D:1104:ARG:O	1:D:1105:LEU:CG	2.55	0.55
1:D:1408:ALA:HA	1:D:1652:GLN:O	2.06	0.55
1:D:1532:THR:C	1:D:1534:ASP:N	2.58	0.55
1:D:723:ALA:O	1:D:724:LYS:HB2	2.06	0.55
2:B:100:ASP:OD1	2:B:102:HIS:N	2.40	0.55
2:B:347:GLU:O	2:B:351:ASP:N	2.38	0.55
2:B:527:VAL:HG22	2:B:540:ASP:O	2.05	0.55
1:D:1471:LYS:HA	1:D:1474:ALA:HB2	1.88	0.55
2:H:1721:PHE:CD1	2:H:1721:PHE:N	2.73	0.55
2:H:1754:GLU:C	2:H:1756:ASN:H	2.09	0.55
2:H:40:ILE:O	2:H:40:ILE:HG22	2.07	0.55
2:B:26:SER:O	2:B:29:ILE:HG22	2.07	0.55
2:B:59:GLU:OE1	2:B:122:LEU:HG	2.05	0.55
2:E:1871:LEU:C	2:E:1873:TYR:H	2.10	0.55
2:E:1948:UNK:O	2:E:1949:UNK:CB	2.54	0.55
2:H:1867:SER:HA	2:H:1870:ALA:CB	2.36	0.55
2:E:1924:ILE:C	2:E:1926:GLU:H	2.10	0.55
1:A:1444:ASN:ND2	1:A:1444:ASN:N	2.49	0.55
1:G:884:ILE:CG2	1:G:887:GLY:HA3	2.36	0.55
2:H:1924:ILE:C	2:H:1926:GLU:H	2.09	0.55
2:B:170:PHE:CB	2:B:231:LEU:HD21	2.37	0.55
1:A:537:UNK:CB	1:A:585:UNK:CB	2.84	0.55
2:H:222:PRO:HA	2:H:225:THR:OG1	2.05	0.55
1:A:1511:ASP:O	1:A:1512:PHE:C	2.44	0.55
2:E:1066:UNK:O	2:E:1067:UNK:O	2.23	0.55
2:E:932:UNK:O	2:E:934:UNK:N	2.39	0.55
1:G:1127:VAL:HG21	1:G:1180:ARG:HG3	1.88	0.55
1:A:1158:PRO:O	1:A:1167:LEU:HB3	2.05	0.55
1:D:1158:PRO:O	1:D:1167:LEU:HB3	2.06	0.55
1:G:1397:GLY:H	1:G:1676:LYS:CB	2.20	0.55
1:G:1553:GLU:HA	1:G:1556:THR:HB	1.88	0.55
1:A:1068:LYS:O	1:A:1069:GLY:O	2.25	0.55
1:A:1245:ASN:ND2	1:A:1288:ASN:ND2	2.54	0.55
1:A:1403:ILE:HD11	1:A:1529:TYR:OH	2.06	0.55
1:D:1577:GLN:OE1	1:D:1592:MET:HA	2.06	0.55
1:D:1412:ASP:O	1:D:1648:GLN:OE1	2.24	0.55
1:D:866:GLY:O	1:D:867:ALA:CB	2.53	0.55
1:D:1011:GLY:O	1:D:1663:GLY:HA3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1008:GLU:C	1:A:1010:GLU:N	2.59	0.55
2:H:264:ARG:HD3	2:H:286:THR:O	2.07	0.55
2:H:333:GLY:O	2:H:334:VAL:C	2.43	0.55
2:E:238:CYS:N	2:E:239:PRO:HD2	2.22	0.55
2:E:259:THR:CG2	2:E:260:PRO:HD2	2.36	0.55
2:B:209:PHE:CD2	2:B:213:LEU:HD22	2.42	0.55
2:B:351:ASP:O	2:B:354:ASN:HB2	2.06	0.55
2:B:1714:PRO:O	2:B:1715:VAL:O	2.25	0.55
2:B:1758:HIS:CD2	2:B:1759:SER:H	2.23	0.55
2:H:1705:SER:O	2:H:1709:ILE:HG12	2.07	0.55
2:H:59:GLU:OE1	2:H:122:LEU:HG	2.06	0.55
2:E:49:ALA:N	2:E:118:LYS:HZ2	2.04	0.55
2:E:69:SER:HA	2:E:80:PHE:CB	2.35	0.55
1:G:998:TYR:O	1:G:999:LYS:O	2.24	0.55
2:B:1322:UNK:O	2:B:1324:UNK:N	2.40	0.55
2:E:678:UNK:O	2:E:682:UNK:N	2.39	0.55
2:E:1295:UNK:C	2:E:1297:UNK:N	2.65	0.55
2:E:1458:UNK:C	2:E:1460:UNK:N	2.68	0.55
2:H:1455:UNK:O	2:H:1457:UNK:N	2.39	0.55
3:F:11:UNK:C	3:F:13:UNK:N	2.69	0.55
1:D:1131:LEU:CA	1:D:1173:LEU:HD22	2.35	0.55
1:G:1208:VAL:HB	1:G:1212:THR:HG21	1.87	0.55
1:G:1542:HIS:HA	1:G:1578:LYS:HE2	1.87	0.55
1:G:1542:HIS:HB2	1:G:1592:MET:HE1	1.87	0.55
1:G:803:MET:HB3	1:G:862:LEU:HD11	1.89	0.55
1:G:871:TRP:HZ2	1:G:881:ASN:HB2	1.71	0.55
1:G:904:ASN:O	1:G:905:LEU:C	2.45	0.55
1:A:1067:LEU:CG	1:A:1068:LYS:N	2.67	0.55
1:A:1079:LYS:HG2	1:A:1080:THR:N	2.20	0.55
1:A:1546:THR:CG2	1:A:1549:ASN:HB3	2.37	0.55
1:A:1599:ILE:O	1:A:1600:LEU:O	2.24	0.55
1:A:1641:ILE:HD11	1:A:1653:ALA:O	2.07	0.55
1:A:1697:LEU:CD1	1:A:1697:LEU:H	2.03	0.55
1:A:723:ALA:O	1:A:724:LYS:HB2	2.07	0.55
1:A:774:ILE:HD13	1:A:775:PRO:HD2	1.88	0.55
1:D:1030:TRP:HB2	1:D:1036:ARG:HB3	1.89	0.55
1:D:1101:SER:O	1:D:1103:ILE:N	2.39	0.55
1:D:1118:LYS:HG3	1:D:1120:GLU:HG2	1.88	0.55
1:D:1214:PHE:C	1:D:1218:SER:HG	2.10	0.55
1:D:1208:VAL:HG12	1:D:1286:TRP:CZ3	2.41	0.55
1:D:1691:GLY:O	1:D:1695:ASN:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:350:GLN:O	2:H:351:ASP:C	2.44	0.55
1:G:1012:LEU:CD1	1:G:1015:LEU:HD12	2.36	0.55
2:B:267:LEU:HG	2:B:268:LYS:H	1.71	0.55
1:G:1471:LYS:O	1:G:1474:ALA:HB2	2.07	0.55
2:E:1685:LYS:HA	2:E:1688:GLN:HB2	1.89	0.55
1:A:1475:GLU:O	1:A:1478:PRO:HD2	2.06	0.55
2:E:350:GLN:O	2:E:351:ASP:C	2.45	0.55
2:B:1672:GLN:HB2	2:B:1676:MET:CE	2.36	0.55
2:H:1672:GLN:HB2	2:H:1676:MET:CE	2.36	0.55
1:D:1335:PHE:HE1	1:D:1340:SER:CB	2.10	0.55
2:H:60:LEU:H	2:H:60:LEU:HD12	1.72	0.55
2:E:1:MET:CB	2:E:11:LEU:HB2	2.29	0.55
2:H:1264:UNK:O	2:H:1266:UNK:N	2.40	0.55
2:E:922:UNK:C	2:E:924:UNK:N	2.67	0.55
1:A:927:ASN:O	1:A:929:GLY:N	2.35	0.55
2:H:1322:UNK:O	2:H:1324:UNK:N	2.39	0.55
2:E:1650:UNK:C	2:E:1652:UNK:N	2.69	0.55
1:D:453:UNK:C	1:D:455:UNK:N	2.68	0.55
3:I:18:UNK:O	3:I:19:UNK:CB	2.54	0.55
2:E:1141:UNK:O	2:E:1142:UNK:CB	2.54	0.55
2:E:601:UNK:HA	2:E:604:UNK:CB	2.35	0.55
2:H:1469:UNK:N	2:H:1493:UNK:O	2.38	0.55
1:G:970:GLY:O	1:G:971:ASN:HB2	2.06	0.55
1:D:1381:GLY:O	1:D:1382:ALA:HB2	2.07	0.55
3:F:61:UNK:O	3:F:62:UNK:CB	2.55	0.55
1:D:890:LYS:O	1:D:892:GLY:N	2.35	0.55
3:C:11:UNK:C	3:C:13:UNK:N	2.69	0.55
2:E:969:UNK:O	2:E:970:UNK:C	2.55	0.55
1:A:1144:PHE:O	1:A:1145:LYS:C	2.44	0.55
1:G:1187:GLY:N	1:G:1188:GLN:NE2	2.55	0.55
1:G:1187:GLY:O	1:G:1189:ILE:HG12	2.06	0.55
1:G:1198:TYR:CE2	1:G:1217:VAL:HG11	2.42	0.55
1:G:1392:LEU:H	1:G:1392:LEU:CD2	2.18	0.55
1:G:1403:ILE:HD11	1:G:1529:TYR:OH	2.06	0.55
1:G:1430:ARG:CG	1:G:1431:GLU:H	2.17	0.55
1:G:873:ARG:NH1	1:G:883:ILE:N	2.55	0.55
1:A:1084:VAL:C	1:A:1086:ASP:N	2.57	0.55
1:A:1205:ILE:HG13	1:A:1205:ILE:O	2.06	0.55
1:A:1215:VAL:HG11	1:A:1283:MET:CG	2.37	0.55
1:A:1532:THR:OG1	1:A:1535:ASP:CB	2.55	0.55
1:D:1403:ILE:CG2	1:D:1656:VAL:O	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:769:ILE:HB	1:D:823:ILE:CD1	2.36	0.55
1:D:1014:ASP:O	1:D:1015:LEU:O	2.25	0.55
1:D:1464:GLU:HA	1:D:1467:LEU:CD1	2.27	0.55
2:H:466:SER:C	2:H:468:LEU:N	2.60	0.55
2:E:242:GLY:HA2	2:E:245:GLN:NE2	2.16	0.55
1:G:1459:ILE:HD12	1:G:1460:LYS:N	2.22	0.55
2:B:273:HIS:CB	2:B:512:LEU:HD11	2.36	0.55
2:B:187:LEU:CD2	2:B:296:VAL:HG11	2.37	0.55
2:B:234:ILE:HD11	2:B:307:GLY:HA2	1.89	0.55
2:E:1714:PRO:O	2:E:1715:VAL:O	2.25	0.55
2:E:1789:PHE:CZ	2:E:1818:LEU:HD23	2.41	0.55
2:B:1705:SER:OG	2:B:1708:ASP:HB2	2.07	0.55
2:B:1788:ALA:O	2:B:1792:LEU:HG	2.07	0.55
2:H:1698:PHE:HE1	2:H:1828:VAL:CG2	2.19	0.55
2:H:1715:VAL:CG2	2:H:1716:ASN:H	2.07	0.55
2:B:13:HIS:C	2:B:15:SER:H	2.09	0.55
1:G:1717:ASP:C	1:G:1719:LEU:N	2.60	0.55
1:A:928:GLY:C	1:A:930:LEU:N	2.59	0.55
2:B:678:UNK:O	2:B:682:UNK:N	2.39	0.55
2:B:1340:UNK:O	2:B:1341:UNK:C	2.54	0.55
2:B:1485:UNK:HA	2:B:1512:UNK:HA	1.87	0.55
2:H:587:UNK:O	2:H:784:UNK:CB	2.54	0.55
2:H:932:UNK:O	2:H:934:UNK:N	2.39	0.55
2:H:699:UNK:O	2:H:700:UNK:C	2.52	0.55
2:H:1799:PRO:O	2:H:1801:ASP:N	2.40	0.55
2:B:1539:UNK:O	2:B:1540:UNK:C	2.53	0.55
1:G:1152:VAL:C	1:G:1154:ILE:N	2.60	0.55
1:G:1250:GLY:HA3	1:G:1333:ASP:OD2	2.06	0.55
1:G:1558:ASN:ND2	1:G:1620:GLN:HB3	2.22	0.55
1:G:1690:ASN:O	1:G:1693:ILE:HG12	2.07	0.55
1:A:1119:LYS:C	1:A:1121:MET:N	2.59	0.55
1:A:1057:MET:HE3	1:A:1193:TRP:O	2.07	0.55
1:A:1359:GLY:O	1:A:1360:ARG:O	2.25	0.55
1:A:1659:ASP:C	1:A:1661:LEU:H	2.09	0.55
1:A:1394:LEU:HD11	1:A:1661:LEU:CD2	2.37	0.55
1:A:771:PHE:CE1	1:A:825:PRO:HD3	2.42	0.55
1:D:1370:THR:O	1:D:1371:THR:HB	2.06	0.55
1:D:1600:LEU:O	1:D:1601:ASN:C	2.43	0.55
1:D:804:GLY:O	1:D:807:LYS:HB3	2.07	0.55
1:D:1463:VAL:HG12	1:D:1464:GLU:N	2.21	0.55
2:H:187:LEU:CD2	2:H:296:VAL:HG11	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:494:THR:HB	2:H:520:LYS:HZ1	1.72	0.55
2:H:540:ASP:HB2	2:H:544:LYS:HZ2	1.71	0.55
2:E:187:LEU:CD2	2:E:296:VAL:HG11	2.37	0.55
2:E:264:ARG:HD3	2:E:286:THR:O	2.06	0.55
2:E:474:SER:O	2:E:475:ILE:HB	2.07	0.55
2:B:273:HIS:HB3	2:B:512:LEU:HD11	1.89	0.55
2:B:292:PHE:O	2:B:295:SER:HB3	2.07	0.55
2:B:319:LEU:HD21	2:B:335:PRO:HG3	1.87	0.55
2:B:426:PRO:O	2:B:429:SER:HB3	2.06	0.55
2:B:473:GLY:O	2:B:477:GLU:HB3	2.05	0.55
2:B:483:ILE:CG2	2:B:484:ILE:HG23	2.32	0.55
2:E:382:PRO:HG2	2:E:385:SER:OG	2.06	0.55
2:B:1770:LEU:C	2:B:1772:SER:N	2.60	0.55
2:H:78:GLY:O	2:H:79:GLN:C	2.44	0.55
2:E:56:THR:HA	2:E:59:GLU:HG2	1.89	0.55
2:B:404:GLN:HG3	2:B:408:PRO:CG	2.31	0.55
2:B:1307:UNK:C	2:B:1309:UNK:N	2.70	0.55
1:G:917:CYS:SG	1:G:922:VAL:HB	2.46	0.55
1:A:547:UNK:O	1:A:549:UNK:N	2.40	0.55
2:B:916:UNK:O	2:B:920:UNK:N	2.40	0.55
2:E:2038:UNK:HA	2:E:2041:UNK:CB	2.37	0.55
1:A:949:GLU:O	1:A:953:VAL:HG23	2.06	0.55
2:H:1845:ASP:C	2:H:1847:LEU:H	2.10	0.55
2:E:1455:UNK:O	2:E:1457:UNK:N	2.39	0.55
2:B:132:MET:O	2:B:133:ALA:HB3	2.06	0.55
2:E:1469:UNK:N	2:E:1493:UNK:O	2.39	0.55
2:E:699:UNK:O	2:E:700:UNK:C	2.53	0.55
1:D:1126:ILE:CG2	1:D:1177:LYS:HB3	2.37	0.55
1:G:1600:LEU:O	1:G:1601:ASN:C	2.44	0.55
1:D:1096:SER:C	1:D:1098:LEU:N	2.61	0.55
1:D:1105:LEU:HB3	1:D:1111:PHE:HE2	1.72	0.55
1:D:1249:SER:OG	1:D:1250:GLY:N	2.39	0.55
1:D:1364:GLU:OE1	1:D:1367:ARG:NH1	2.39	0.55
1:D:1654:ILE:CG1	1:D:1655:VAL:N	2.70	0.55
1:A:1502:ARG:O	1:A:1505:GLN:N	2.40	0.55
2:H:306:ILE:O	2:H:310:CYS:SG	2.65	0.55
2:H:351:ASP:O	2:H:354:ASN:HB2	2.07	0.55
2:H:273:HIS:HB3	2:H:512:LEU:HD11	1.89	0.55
2:H:98:GLY:O	2:H:100:ASP:N	2.37	0.55
2:E:184:VAL:O	2:E:188:ILE:HG12	2.06	0.55
2:B:466:SER:C	2:B:468:LEU:N	2.61	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1762:TYR:C	2:E:1763:THR:HG1	2.09	0.55
2:E:535:ILE:HG22	2:E:536:ASN:OD1	2.07	0.55
2:B:56:THR:HA	2:B:59:GLU:HG2	1.88	0.55
2:E:1867:SER:HA	2:E:1870:ALA:CB	2.35	0.55
1:G:999:LYS:HD3	1:G:1671:ASN:HD21	1.70	0.55
2:H:1907:LEU:HD23	2:H:1907:LEU:N	2.21	0.55
1:A:489:UNK:O	1:A:490:UNK:C	2.53	0.55
2:H:1485:UNK:HA	2:H:1512:UNK:HA	1.89	0.55
2:E:799:UNK:O	2:E:800:UNK:C	2.53	0.55
2:E:1605:UNK:O	2:E:1607:UNK:N	2.29	0.55
1:A:460:UNK:C	1:A:462:UNK:N	2.68	0.55
3:I:27:UNK:C	3:I:29:UNK:N	2.68	0.55
1:A:970:GLY:O	1:A:971:ASN:HB2	2.07	0.55
2:B:1844:ARG:HG2	2:B:1850:SER:HA	1.89	0.55
2:E:755:UNK:O	2:E:756:UNK:CB	2.55	0.55
1:D:1151:LYS:HG3	1:D:1175:ILE:CD1	2.37	0.55
1:G:1332:TYR:CA	1:G:1587:ALA:HB2	2.37	0.55
1:G:1624:VAL:O	1:G:1625:LEU:HB3	2.06	0.55
1:G:856:GLU:HB2	1:G:858:TRP:HE1	1.71	0.55
1:D:1187:GLY:O	1:D:1189:ILE:HG12	2.07	0.55
1:D:1403:ILE:HG23	1:D:1656:VAL:CG1	2.27	0.55
2:H:100:ASP:OD1	2:H:102:HIS:N	2.37	0.55
2:H:234:ILE:HD11	2:H:307:GLY:HA2	1.89	0.55
2:E:234:ILE:HD11	2:E:307:GLY:HA2	1.87	0.55
2:B:251:VAL:O	2:B:255:LEU:HB3	2.06	0.55
2:B:431:LEU:N	2:B:431:LEU:HD23	2.21	0.55
2:E:1721:PHE:N	2:E:1721:PHE:CD1	2.74	0.55
2:E:335:PRO:HA	2:E:420:PHE:CE2	2.41	0.55
2:E:339:LEU:HB2	2:E:420:PHE:CD1	2.41	0.55
2:E:347:GLU:O	2:E:351:ASP:N	2.37	0.55
2:B:1789:PHE:CE1	2:B:1818:LEU:HD23	2.42	0.55
2:H:1776:PHE:O	2:H:1777:THR:C	2.45	0.55
1:G:791:ALA:CA	1:G:794:ILE:HG22	2.35	0.55
2:H:1307:UNK:O	2:H:1309:UNK:N	2.39	0.55
2:E:1869:GLU:C	2:E:1871:LEU:N	2.60	0.55
2:H:1869:GLU:C	2:H:1871:LEU:N	2.60	0.55
2:B:202:THR:O	2:B:203:LEU:C	2.46	0.55
1:D:941:ALA:O	1:D:942:LYS:C	2.44	0.55
1:G:644:UNK:C	1:G:646:UNK:N	2.68	0.55
2:E:1008:UNK:O	2:E:1011:UNK:N	2.40	0.55
2:H:1299:UNK:O	2:H:1301:UNK:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:799:UNK:C	2:E:801:UNK:N	2.66	0.55
2:E:214:ASN:C	2:E:216:LEU:H	2.11	0.55
2:E:1166:UNK:C	2:E:1168:UNK:H	2.19	0.55
2:H:1844:ARG:HG2	2:H:1850:SER:HA	1.89	0.55
2:E:1549:UNK:O	2:E:1550:UNK:C	2.54	0.55
2:B:1961:UNK:O	2:B:1963:UNK:N	2.39	0.55
2:B:1141:UNK:O	2:B:1142:UNK:CB	2.54	0.55
3:F:37:UNK:O	3:F:39:UNK:N	2.39	0.55
1:G:448:UNK:O	1:G:450:UNK:N	2.40	0.55
1:D:239:UNK:O	1:D:241:UNK:N	2.40	0.55
1:G:1174:TYR:O	1:G:1175:ILE:HB	2.06	0.55
1:A:1127:VAL:HG21	1:A:1180:ARG:HG3	1.88	0.55
1:A:1151:LYS:CD	1:A:1151:LYS:H	2.17	0.55
1:G:1041:ALA:HA	1:G:1606:PRO:HG3	1.88	0.55
1:G:1219:VAL:HA	1:G:1384:ILE:HG21	1.87	0.55
1:G:1261:PHE:N	1:G:1261:PHE:HD2	2.05	0.55
1:A:1424:GLY:C	1:A:1426:LEU:H	2.09	0.55
1:D:1103:ILE:O	1:D:1106:ILE:HG13	2.07	0.55
1:D:704:VAL:HG22	1:D:733:ILE:HB	1.89	0.55
1:D:873:ARG:NH1	1:D:883:ILE:N	2.55	0.55
1:D:687:SER:HB2	1:D:899:LYS:CE	2.37	0.55
1:D:687:SER:HB2	1:D:899:LYS:HE3	1.88	0.55
1:D:1462:TRP:HA	1:D:1465:ASN:HB3	1.89	0.55
2:E:100:ASP:OD1	2:E:102:HIS:N	2.37	0.55
2:E:241:ILE:HG22	2:E:242:GLY:H	1.71	0.55
2:E:267:LEU:HG	2:E:268:LYS:H	1.71	0.55
2:B:528:ILE:H	2:B:541:TYR:HB3	1.70	0.55
1:D:1258:ARG:NH1	1:D:1263:ASP:OD2	2.40	0.55
2:E:18:HIS:O	2:E:20:LEU:N	2.39	0.55
2:E:471:LEU:CG	2:E:472:SER:H	2.01	0.55
1:D:1735:SER:C	1:D:1737:ASN:N	2.60	0.55
1:D:999:LYS:HD3	1:D:1671:ASN:HD21	1.72	0.55
2:B:135:ARG:N	2:B:136:PRO:CD	2.70	0.55
2:H:1334:UNK:O	2:H:1335:UNK:C	2.54	0.55
2:E:1562:UNK:O	2:E:1564:UNK:N	2.40	0.55
2:E:1845:ASP:C	2:E:1847:LEU:H	2.11	0.55
2:E:1034:UNK:C	2:E:1036:UNK:H	2.20	0.55
2:B:841:UNK:C	2:B:843:UNK:N	2.69	0.55
2:H:1291:UNK:CB	2:H:1369:UNK:N	2.70	0.55
2:B:450:PHE:O	2:B:451:ASN:HB2	2.06	0.55
1:G:875:THR:OG1	1:G:879:SER:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:690:UNK:O	2:H:691:UNK:CB	2.54	0.55
2:H:357:ASN:HA	2:H:360:LEU:HB2	1.89	0.55
1:G:1413:LYS:HD2	1:G:1425:ILE:CD1	2.37	0.54
1:G:1607:GLY:O	1:G:1608:ASN:O	2.26	0.54
1:G:1636:VAL:O	1:G:1637:ARG:HB2	2.07	0.54
1:G:715:THR:HG21	1:G:1364:GLU:OE2	2.06	0.54
1:G:723:ALA:O	1:G:724:LYS:HB2	2.05	0.54
1:A:1041:ALA:HA	1:A:1606:PRO:HG3	1.88	0.54
1:A:1079:LYS:CD	1:A:1098:LEU:HD21	2.34	0.54
1:A:1198:TYR:CE2	1:A:1217:VAL:HG11	2.41	0.54
1:A:1577:GLN:OE1	1:A:1592:MET:HA	2.06	0.54
1:A:791:ALA:HA	1:A:794:ILE:CG2	2.36	0.54
1:A:852:ARG:NH1	1:A:856:GLU:OE1	2.41	0.54
1:A:856:GLU:HB2	1:A:858:TRP:HE1	1.72	0.54
1:D:1286:TRP:HD1	1:D:1290:LEU:HD13	1.71	0.54
1:D:1286:TRP:HA	1:D:1289:MET:CG	2.37	0.54
1:D:1290:LEU:HA	1:D:1701:LYS:HD2	1.89	0.54
1:D:1387:ILE:HD12	1:D:1387:ILE:O	2.06	0.54
1:D:1524:GLY:O	1:D:1527:ALA:HB3	2.06	0.54
1:D:1691:GLY:C	1:D:1697:LEU:HD11	2.28	0.54
1:D:856:GLU:HB2	1:D:858:TRP:HE1	1.72	0.54
1:D:910:THR:C	1:D:911:PRO:O	2.43	0.54
1:D:1502:ARG:O	1:D:1505:GLN:N	2.40	0.54
2:E:251:VAL:O	2:E:255:LEU:HB3	2.07	0.54
2:E:304:PHE:CE2	2:E:308:VAL:HG21	2.42	0.54
2:E:466:SER:C	2:E:468:LEU:N	2.60	0.54
2:E:1705:SER:OG	2:E:1708:ASP:HB2	2.06	0.54
2:E:1729:ILE:HG12	2:E:1730:ARG:N	2.22	0.54
2:H:1693:ARG:HD3	2:H:1825:GLU:OE2	2.07	0.54
1:A:755:THR:HG22	1:A:757:LYS:N	2.09	0.54
1:D:884:ILE:CG2	1:D:887:GLY:HA3	2.37	0.54
2:H:1340:UNK:O	2:H:1341:UNK:C	2.56	0.54
2:B:1877:ARG:HG2	2:B:1929:LYS:CD	2.37	0.54
2:B:1877:ARG:HG2	2:B:1929:LYS:HD2	1.89	0.54
2:H:1558:UNK:O	2:H:1559:UNK:C	2.54	0.54
1:G:412:UNK:C	1:G:414:UNK:N	2.70	0.54
2:B:1455:UNK:O	2:B:1457:UNK:N	2.40	0.54
2:E:1664:UNK:HA	3:F:18:UNK:CB	2.38	0.54
2:E:1170:UNK:O	2:E:1171:UNK:C	2.55	0.54
3:I:37:UNK:O	3:I:39:UNK:N	2.40	0.54
2:E:68:VAL:O	2:E:68:VAL:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:222:PRO:HA	2:B:225:THR:OG1	2.07	0.54
1:A:364:UNK:O	1:D:365:UNK:CB	2.55	0.54
1:D:875:THR:OG1	1:D:879:SER:HB2	2.07	0.54
1:G:557:UNK:C	1:G:559:UNK:N	2.68	0.54
2:H:1549:UNK:O	2:H:1550:UNK:C	2.55	0.54
1:D:1158:PRO:HG2	1:D:1159:GLU:N	2.14	0.54
1:D:1174:TYR:O	1:D:1175:ILE:HB	2.07	0.54
1:G:1030:TRP:HB2	1:G:1036:ARG:HB3	1.90	0.54
1:G:1642:THR:N	1:G:1652:GLN:OE1	2.41	0.54
1:G:1688:PHE:O	1:G:1689:HIS:C	2.45	0.54
1:A:1364:GLU:OE1	1:A:1367:ARG:NH1	2.40	0.54
1:A:1433:HIS:CE1	1:A:1518:ARG:HH21	2.24	0.54
1:A:443:UNK:CB	1:A:731:THR:HA	2.37	0.54
1:A:771:PHE:CE2	1:A:825:PRO:HB3	2.41	0.54
1:A:787:LYS:O	1:A:790:PHE:HB3	2.07	0.54
1:A:836:ASP:OD1	1:A:839:TYR:N	2.40	0.54
1:A:912:GLU:O	1:A:913:VAL:C	2.46	0.54
1:A:993:PRO:HD3	1:A:1681:GLU:OE2	2.08	0.54
1:D:1187:GLY:N	1:D:1188:GLN:NE2	2.54	0.54
1:D:715:THR:HG21	1:D:1364:GLU:OE2	2.07	0.54
1:A:1012:LEU:CD1	1:A:1015:LEU:HD12	2.37	0.54
2:H:535:ILE:HG22	2:H:536:ASN:OD1	2.07	0.54
2:E:265:SER:O	2:E:267:LEU:N	2.40	0.54
2:B:535:ILE:HG22	2:B:536:ASN:OD1	2.06	0.54
2:E:1705:SER:O	2:E:1709:ILE:HG12	2.07	0.54
1:A:1471:LYS:C	1:A:1474:ALA:H	2.11	0.54
2:B:1698:PHE:C	2:B:1700:ASP:N	2.60	0.54
1:G:755:THR:HG22	1:G:757:LYS:N	2.04	0.54
1:G:1184:LEU:HD22	1:G:1341:PHE:CD2	2.37	0.54
2:H:408:PRO:HA	2:H:412:ARG:HB2	1.87	0.54
2:B:199:ILE:HG23	2:B:200:ARG:N	2.17	0.54
2:H:1927:LEU:HA	2:H:1930:SER:CB	2.37	0.54
1:G:903:PHE:O	1:G:906:LEU:HB3	2.06	0.54
2:E:135:ARG:N	2:E:136:PRO:CD	2.70	0.54
1:D:1741:LYS:C	1:D:1743:SER:H	2.11	0.54
2:E:917:UNK:C	2:E:919:UNK:N	2.68	0.54
1:D:428:UNK:O	1:D:430:UNK:N	2.40	0.54
1:A:957:VAL:HG12	1:A:961:THR:OG1	2.07	0.54
2:E:148:ALA:HB1	2:E:154:ALA:HB3	1.89	0.54
2:H:304:PHE:CE2	2:H:308:VAL:HG21	2.42	0.54
2:B:1225:UNK:O	2:B:1226:UNK:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:395:LYS:O	2:H:396:ALA:HB2	2.08	0.54
2:H:1170:UNK:O	2:H:1171:UNK:C	2.54	0.54
1:A:453:UNK:C	1:A:455:UNK:N	2.69	0.54
1:G:1174:TYR:O	1:G:1175:ILE:CB	2.54	0.54
1:G:1073:THR:HG22	1:G:1074:GLY:N	2.22	0.54
1:G:1055:TRP:HH2	1:G:1198:TYR:HD1	1.55	0.54
1:G:1668:ASP:O	1:G:1670:TYR:N	2.33	0.54
1:G:901:MET:HG2	1:G:901:MET:O	2.06	0.54
1:A:1110:LEU:CD1	1:A:1188:GLN:N	2.70	0.54
1:A:1286:TRP:HD1	1:A:1290:LEU:HD13	1.71	0.54
1:A:1532:THR:C	1:A:1534:ASP:N	2.60	0.54
1:A:771:PHE:N	1:A:771:PHE:HD1	2.05	0.54
1:D:1110:LEU:CD1	1:D:1188:GLN:N	2.69	0.54
1:D:1118:LYS:HE2	1:D:1337:GLU:CA	2.34	0.54
1:D:1208:VAL:CG2	1:D:1209:ASP:N	2.69	0.54
1:D:1525:ALA:C	1:D:1527:ALA:H	2.11	0.54
1:D:1555:ALA:HA	1:D:1558:ASN:HB3	1.88	0.54
1:D:1431:GLU:OE1	1:D:1564:LEU:HD13	2.06	0.54
1:D:1607:GLY:O	1:D:1608:ASN:O	2.24	0.54
1:D:1397:GLY:H	1:D:1676:LYS:HB3	1.72	0.54
1:D:1690:ASN:O	1:D:1693:ILE:HG12	2.08	0.54
2:H:184:VAL:C	2:H:186:ASP:N	2.59	0.54
2:H:267:LEU:HG	2:H:268:LYS:H	1.70	0.54
2:E:1672:GLN:HB2	2:E:1676:MET:CE	2.36	0.54
2:E:1770:LEU:C	2:E:1772:SER:N	2.61	0.54
2:B:1672:GLN:HB3	2:B:1781:LEU:CG	2.38	0.54
2:H:1685:LYS:HA	2:H:1688:GLN:HB2	1.90	0.54
1:A:1334:ASP:CG	1:A:1335:PHE:N	2.61	0.54
2:H:60:LEU:O	2:H:64:PHE:N	2.39	0.54
2:H:1887:GLU:CD	2:H:1888:ILE:H	2.11	0.54
1:G:1666:THR:O	1:G:1667:GLU:HG3	2.08	0.54
1:G:998:TYR:HD1	1:G:999:LYS:HG2	1.72	0.54
2:B:1558:UNK:O	2:B:1559:UNK:C	2.55	0.54
2:E:676:UNK:O	2:E:677:UNK:C	2.55	0.54
2:B:1845:ASP:C	2:B:1847:LEU:H	2.10	0.54
1:G:836:ASP:OD1	1:G:839:TYR:N	2.41	0.54
2:E:1799:PRO:O	2:E:1801:ASP:N	2.41	0.54
1:G:1284:SER:CB	1:G:1298:ILE:HD11	2.38	0.54
2:B:1549:UNK:O	2:B:1550:UNK:C	2.54	0.54
1:G:1157:ILE:CG2	1:G:1158:PRO:HD2	2.21	0.54
1:A:1174:TYR:O	1:A:1175:ILE:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1126:ILE:CG2	1:D:1127:VAL:N	2.70	0.54
1:G:1079:LYS:HG2	1:G:1080:THR:N	2.21	0.54
1:G:1079:LYS:CD	1:G:1098:LEU:HD21	2.32	0.54
1:G:1433:HIS:CE1	1:G:1518:ARG:HH21	2.25	0.54
1:G:1659:ASP:C	1:G:1661:LEU:H	2.09	0.54
1:G:1692:MET:CA	1:G:1697:LEU:HD11	2.37	0.54
1:G:696:LEU:HD23	1:G:696:LEU:H	1.73	0.54
1:A:1332:TYR:HA	1:A:1587:ALA:HB2	1.88	0.54
1:A:1431:GLU:OE1	1:A:1564:LEU:HD13	2.08	0.54
1:A:1536:LEU:CB	1:A:1638:ALA:HB3	2.36	0.54
1:A:741:SER:O	1:A:742:LYS:C	2.45	0.54
1:A:873:ARG:NH1	1:A:883:ILE:N	2.55	0.54
1:D:1412:ASP:HB2	1:D:1425:ILE:C	2.27	0.54
1:D:1553:GLU:HA	1:D:1556:THR:HB	1.90	0.54
1:D:1730:SER:O	1:D:1731:LEU:C	2.45	0.54
2:H:334:VAL:O	2:H:420:PHE:CD2	2.58	0.54
2:H:382:PRO:HG2	2:H:385:SER:OG	2.07	0.54
2:E:258:PHE:CB	2:E:262:GLU:HB2	2.29	0.54
2:E:267:LEU:HG	2:E:457:ILE:HD12	1.88	0.54
2:E:478:ARG:C	2:E:480:VAL:N	2.61	0.54
2:E:541:TYR:O	2:E:543:PHE:N	2.33	0.54
1:G:1447:TYR:HE2	1:G:1450:ARG:CG	2.18	0.54
2:B:98:GLY:O	2:B:100:ASP:N	2.38	0.54
2:B:158:ALA:H	2:B:270:ALA:H	1.55	0.54
2:B:259:THR:CG2	2:B:260:PRO:HD2	2.34	0.54
2:E:1732:ASN:O	2:E:1734:SER:N	2.36	0.54
2:E:1773:ALA:C	2:E:1775:GLN:H	2.11	0.54
2:H:1672:GLN:HE21	2:H:1777:THR:CG2	2.19	0.54
2:H:1828:VAL:HG13	2:H:1829:GLU:N	2.20	0.54
2:E:122:LEU:HD23	2:E:122:LEU:C	2.28	0.54
1:G:808:LYS:O	1:G:809:GLN:C	2.46	0.54
2:B:408:PRO:HB2	2:B:412:ARG:CD	2.38	0.54
2:H:203:LEU:HD23	2:H:206:GLU:OE2	2.07	0.54
2:E:200:ARG:O	2:E:203:LEU:HG	2.07	0.54
1:A:651:UNK:O	1:A:653:UNK:N	2.40	0.54
2:H:387:TYR:O	2:H:390:ASN:HB2	2.08	0.54
1:A:999:LYS:HD3	1:A:1671:ASN:HD21	1.73	0.54
2:H:2038:UNK:HA	2:H:2041:UNK:CB	2.38	0.54
1:D:927:ASN:ND2	1:D:931:GLN:H	2.04	0.54
2:E:450:PHE:O	2:E:451:ASN:HB2	2.06	0.54
2:H:450:PHE:O	2:H:451:ASN:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1469:UNK:N	2:B:1493:UNK:O	2.41	0.54
2:E:357:ASN:HA	2:E:360:LEU:HB2	1.89	0.54
1:A:448:UNK:O	1:A:450:UNK:N	2.40	0.54
2:E:762:UNK:O	2:E:763:UNK:CB	2.55	0.54
2:E:1429:UNK:O	2:E:1430:UNK:C	2.55	0.54
2:E:1307:UNK:C	2:E:1309:UNK:N	2.70	0.54
1:G:1158:PRO:HG2	1:G:1159:GLU:N	2.17	0.54
1:G:1019:ILE:HG13	1:G:1316:VAL:CG2	2.37	0.54
1:G:1084:VAL:C	1:G:1086:ASP:N	2.56	0.54
1:G:1105:LEU:HB3	1:G:1111:PHE:HE2	1.72	0.54
1:G:1518:ARG:O	1:G:1519:ILE:HB	2.08	0.54
1:G:1604:ILE:HG23	1:G:1630:THR:CA	2.38	0.54
1:A:1249:SER:OG	1:A:1250:GLY:N	2.40	0.54
1:A:1248:GLY:O	1:A:1300:THR:HG23	2.06	0.54
1:A:1425:ILE:O	1:A:1425:ILE:HG22	2.08	0.54
1:A:1691:GLY:C	1:A:1697:LEU:HD11	2.28	0.54
1:A:1722:VAL:CB	1:A:1731:LEU:HG	2.38	0.54
1:A:742:LYS:HB2	1:A:746:GLU:HG3	1.90	0.54
1:A:774:ILE:CD1	1:A:775:PRO:HD2	2.38	0.54
1:A:791:ALA:O	1:A:795:MET:N	2.32	0.54
1:A:687:SER:HB2	1:A:899:LYS:CE	2.37	0.54
1:D:1073:THR:HG22	1:D:1074:GLY:N	2.20	0.54
1:D:1705:PRO:HG2	1:D:1706:TYR:H	1.71	0.54
1:D:741:SER:O	1:D:742:LYS:C	2.45	0.54
1:D:871:TRP:HZ2	1:D:881:ASN:HB2	1.72	0.54
1:D:912:GLU:O	1:D:916:LEU:N	2.31	0.54
1:A:1462:TRP:HA	1:A:1465:ASN:HB3	1.89	0.54
1:G:1464:GLU:HA	1:G:1467:LEU:CD1	2.26	0.54
2:E:1698:PHE:C	2:E:1700:ASP:N	2.61	0.54
2:E:1703:GLY:O	2:E:1721:PHE:HE2	1.88	0.54
2:E:1770:LEU:O	2:E:1772:SER:N	2.37	0.54
2:H:1732:ASN:O	2:H:1734:SER:N	2.37	0.54
2:H:1785:GLU:OE1	2:H:1813:ALA:HB1	2.07	0.54
2:H:214:ASN:O	2:H:216:LEU:N	2.40	0.54
1:G:771:PHE:CE1	1:G:825:PRO:HD3	2.43	0.54
2:E:63:LYS:O	2:E:66:GLY:N	2.40	0.54
2:E:1040:UNK:O	2:E:1041:UNK:CB	2.55	0.54
2:B:799:UNK:O	2:B:800:UNK:C	2.55	0.54
2:B:593:UNK:O	2:B:595:UNK:N	2.40	0.54
1:G:432:UNK:O	1:G:433:UNK:CB	2.56	0.54
2:H:1602:UNK:C	2:H:1604:UNK:N	2.67	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1019:UNK:C	2:E:1021:UNK:N	2.69	0.54
2:H:1539:UNK:O	2:H:1540:UNK:C	2.55	0.54
1:A:1158:PRO:HG2	1:A:1159:GLU:N	2.15	0.54
1:A:1174:TYR:O	1:A:1175:ILE:HB	2.07	0.54
1:G:1036:ARG:CD	1:G:1037:TRP:N	2.71	0.54
1:G:1074:GLY:O	1:G:1075:TRP:HB3	2.08	0.54
1:G:1099:GLU:O	1:G:1101:SER:N	2.40	0.54
1:G:1118:LYS:HG3	1:G:1120:GLU:HG2	1.90	0.54
1:G:1532:THR:C	1:G:1534:ASP:N	2.60	0.54
1:G:1659:ASP:C	1:G:1661:LEU:N	2.60	0.54
1:G:717:TYR:C	1:G:719:GLN:N	2.60	0.54
1:G:910:THR:C	1:G:911:PRO:O	2.46	0.54
1:A:1056:ILE:C	1:A:1058:GLY:N	2.61	0.54
1:A:1119:LYS:O	1:A:1119:LYS:HD2	2.08	0.54
1:A:1122:ILE:HA	1:A:1182:ASP:O	2.08	0.54
1:A:1243:VAL:HG11	1:A:1325:ARG:HD3	1.90	0.54
1:A:1403:ILE:HG23	1:A:1656:VAL:O	2.07	0.54
1:A:1642:THR:HA	1:A:1652:GLN:OE1	2.08	0.54
1:A:710:PHE:HD1	1:A:736:PRO:HB3	1.73	0.54
1:D:1542:HIS:HA	1:D:1578:LYS:HE2	1.90	0.54
1:D:679:LEU:HD21	1:D:802:MET:CE	2.37	0.54
1:D:873:ARG:HG3	1:D:882:ASN:OD1	2.08	0.54
1:D:905:LEU:HD22	1:D:905:LEU:N	2.18	0.54
1:D:1459:ILE:HD12	1:D:1460:LYS:N	2.22	0.54
1:A:1453:VAL:O	1:A:1454:THR:C	2.45	0.54
2:H:248:HIS:CE1	2:H:530:ALA:HB2	2.43	0.54
2:H:319:LEU:HD21	2:H:335:PRO:HG3	1.89	0.54
2:E:273:HIS:CB	2:E:512:LEU:HD11	2.37	0.54
2:B:1732:ASN:O	2:B:1734:SER:N	2.37	0.54
2:B:40:ILE:O	2:B:40:ILE:HG22	2.08	0.54
2:B:77:VAL:HG12	2:B:78:GLY:N	2.22	0.54
1:G:741:SER:O	1:G:742:LYS:C	2.44	0.54
2:E:1869:GLU:HA	2:E:1872:GLN:CB	2.37	0.54
2:B:1307:UNK:O	2:B:1309:UNK:N	2.41	0.54
1:G:651:UNK:O	1:G:653:UNK:N	2.40	0.54
2:H:1877:ARG:HG2	2:H:1929:LYS:HD2	1.89	0.54
2:H:1897:GLN:C	2:H:1899:VAL:H	2.09	0.54
2:H:1884:TRP:N	2:H:1892:ASN:HB2	2.23	0.54
2:E:135:ARG:N	2:E:136:PRO:HD3	2.21	0.54
2:H:1413:UNK:C	2:H:1415:UNK:N	2.69	0.54
1:G:552:UNK:C	1:G:554:UNK:H	2.17	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1307:UNK:O	2:E:1309:UNK:N	2.41	0.54
1:A:635:UNK:O	1:A:636:UNK:CB	2.55	0.54
2:B:1170:UNK:O	2:B:1171:UNK:C	2.55	0.54
1:G:1151:LYS:CE	1:G:1175:ILE:HD13	2.33	0.54
1:A:1131:LEU:CB	1:A:1133:PRO:HD3	2.32	0.54
1:A:1156:GLU:HG2	1:A:1169:LYS:HA	1.89	0.54
1:G:1070:ARG:O	1:G:1071:PRO:C	2.46	0.54
1:G:1307:THR:OG1	1:G:1308:SER:N	2.40	0.54
1:G:1243:VAL:HG11	1:G:1325:ARG:HD3	1.90	0.54
1:G:1580:LEU:C	1:G:1581:THR:OG1	2.46	0.54
1:A:1032:SER:O	1:A:1033:ALA:C	2.44	0.54
1:A:1193:TRP:O	1:A:1194:ASN:CB	2.56	0.54
1:A:1219:VAL:HG23	1:A:1328:ILE:HD11	1.90	0.54
1:A:1286:TRP:HA	1:A:1289:MET:CG	2.37	0.54
1:A:1546:THR:O	1:A:1548:ALA:N	2.41	0.54
1:A:910:THR:CG2	1:A:913:VAL:HG23	2.38	0.54
1:D:1068:LYS:O	1:D:1069:GLY:O	2.24	0.54
1:D:1292:ILE:CG1	1:D:1292:ILE:O	2.53	0.54
1:D:1418:VAL:HA	1:D:1419:PRO:C	2.27	0.54
1:D:1430:ARG:CG	1:D:1431:GLU:H	2.20	0.54
1:D:1534:ASP:C	1:D:1566:ARG:HH21	2.11	0.54
1:D:1599:ILE:O	1:D:1600:LEU:O	2.26	0.54
1:D:803:MET:CE	1:D:822:VAL:HG11	2.38	0.54
1:A:1455:ARG:HG3	1:A:1459:ILE:HG21	1.89	0.54
1:G:1455:ARG:HG3	1:G:1455:ARG:NH1	2.21	0.54
2:B:367:GLU:CG	2:B:368:ILE:N	2.70	0.54
2:B:248:HIS:CE1	2:B:530:ALA:HB2	2.42	0.54
2:E:1737:ILE:HD12	2:E:1755:ILE:HD12	1.88	0.54
2:E:1776:PHE:O	2:E:1777:THR:C	2.45	0.54
2:H:1729:ILE:HG12	2:H:1730:ARG:N	2.23	0.54
2:H:25:ALA:CB	2:H:65:LEU:HD21	2.38	0.54
2:H:52:ASP:CG	2:H:53:GLU:H	2.11	0.54
1:G:1334:ASP:CG	1:G:1335:PHE:N	2.61	0.54
1:G:456:UNK:O	1:G:460:UNK:N	2.40	0.54
1:G:1205:ILE:O	1:G:1205:ILE:HG13	2.06	0.54
1:D:1736:LYS:O	1:D:1737:ASN:HB2	2.08	0.54
2:B:197:GLU:O	2:B:199:ILE:N	2.41	0.54
2:H:87:CYS:HA	2:H:90:GLU:CB	2.31	0.54
2:H:1912:ASN:O	2:H:1913:VAL:HG22	2.08	0.54
2:B:91:PHE:C	2:B:93:ASN:H	2.11	0.54
2:H:135:ARG:N	2:H:136:PRO:CD	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:941:ALA:O	1:G:942:LYS:C	2.45	0.54
2:E:174:ARG:C	2:E:176:LEU:H	2.11	0.54
1:D:525:UNK:O	1:D:526:UNK:C	2.55	0.54
1:D:957:VAL:HG12	1:D:961:THR:OG1	2.07	0.54
2:H:969:UNK:O	2:H:971:UNK:N	2.41	0.54
2:E:1208:UNK:O	2:E:1209:UNK:CB	2.55	0.54
1:D:970:GLY:O	1:D:971:ASN:HB2	2.06	0.54
1:A:471:UNK:HA	1:A:474:UNK:CB	2.37	0.54
1:G:1031:GLY:O	1:G:1032:SER:C	2.46	0.54
1:G:1036:ARG:NH2	1:G:1040:GLU:OE1	2.40	0.54
1:G:1045:PHE:HB3	1:G:1050:CYS:CA	2.37	0.54
1:G:1538:VAL:HG11	1:G:1599:ILE:HD12	1.90	0.54
1:G:1730:SER:O	1:G:1731:LEU:C	2.45	0.54
1:G:696:LEU:CD2	1:G:696:LEU:H	2.21	0.54
1:A:1261:PHE:N	1:A:1261:PHE:HD2	2.06	0.54
1:A:1276:GLN:O	1:A:1279:PHE:CD2	2.61	0.54
1:A:1549:ASN:OD1	1:A:1550:ASP:N	2.41	0.54
1:A:1534:ASP:C	1:A:1566:ARG:HH21	2.10	0.54
1:D:1254:VAL:CG1	1:D:1255:SER:H	2.19	0.54
1:D:854:HIS:O	1:D:855:SER:OG	2.24	0.54
2:H:235:PRO:O	2:H:236:ILE:CB	2.55	0.54
2:H:251:VAL:O	2:H:255:LEU:HB3	2.08	0.54
2:H:260:PRO:HG3	2:H:292:PHE:CB	2.34	0.54
2:B:145:LEU:HD21	2:B:544:LYS:HG2	1.90	0.54
2:B:270:ALA:O	2:B:459:VAL:HG13	2.08	0.54
2:E:1725:LYS:HG2	2:E:1760:THR:OG1	2.07	0.54
2:E:1828:VAL:HG13	2:E:1829:GLU:N	2.22	0.54
2:B:1740:THR:HB	2:B:1751:ILE:HG13	1.89	0.54
2:B:1776:PHE:O	2:B:1777:THR:C	2.46	0.54
2:B:1804:PHE:CE2	2:B:1818:LEU:HB2	2.42	0.54
2:E:1264:UNK:O	2:E:1266:UNK:N	2.40	0.54
2:E:60:LEU:HD12	2:E:60:LEU:H	1.72	0.54
2:E:2020:UNK:C	2:E:2022:UNK:N	2.65	0.54
2:B:1869:GLU:HA	2:B:1872:GLN:CB	2.37	0.54
2:E:1911:THR:C	2:E:1913:VAL:H	2.11	0.54
2:H:1911:THR:C	2:H:1913:VAL:H	2.11	0.54
1:A:941:ALA:O	1:A:942:LYS:C	2.45	0.54
2:B:1008:UNK:O	2:B:1011:UNK:N	2.40	0.54
2:B:1291:UNK:CB	2:B:1369:UNK:N	2.70	0.54
2:B:68:VAL:O	2:B:68:VAL:HG12	2.07	0.54
2:E:1275:UNK:O	2:E:1276:UNK:C	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:887:UNK:O	2:H:888:UNK:CB	2.55	0.54
3:I:11:UNK:C	3:I:13:UNK:N	2.70	0.54
1:D:984:PRO:O	1:D:985:ARG:O	2.26	0.54
1:G:1362:PRO:HA	1:G:1365:MET:HE1	1.89	0.54
1:G:693:LEU:O	1:G:694:GLN:C	2.44	0.54
1:A:1536:LEU:HB3	1:A:1638:ALA:CB	2.36	0.54
1:A:1558:ASN:ND2	1:A:1620:GLN:HB3	2.23	0.54
1:D:1036:ARG:HD3	1:D:1037:TRP:N	2.22	0.54
1:D:1067:LEU:CG	1:D:1068:LYS:N	2.67	0.54
1:D:1219:VAL:HA	1:D:1384:ILE:HG21	1.89	0.54
1:D:1425:ILE:HG22	1:D:1425:ILE:O	2.08	0.54
1:D:1008:GLU:C	1:D:1010:GLU:N	2.57	0.54
2:B:1729:ILE:HG12	2:B:1730:ARG:N	2.22	0.54
2:H:13:HIS:C	2:H:15:SER:H	2.11	0.54
2:H:77:VAL:HG12	2:H:78:GLY:N	2.22	0.54
1:G:1341:PHE:O	1:G:1342:GLU:CB	2.54	0.54
1:D:651:UNK:O	1:D:653:UNK:N	2.41	0.54
2:B:387:TYR:O	2:B:390:ASN:HB2	2.06	0.54
1:D:547:UNK:O	1:D:549:UNK:N	2.40	0.54
1:A:572:UNK:C	1:A:574:UNK:N	2.69	0.54
1:D:487:UNK:O	1:D:489:UNK:N	2.41	0.54
1:G:487:UNK:O	1:G:489:UNK:N	2.40	0.54
1:G:944:ARG:O	1:G:948:VAL:N	2.39	0.54
1:A:1162:GLU:N	1:A:1162:GLU:OE2	2.41	0.54
2:B:1986:UNK:C	2:B:1988:UNK:H	2.21	0.54
2:B:1034:UNK:C	2:B:1036:UNK:H	2.21	0.54
2:H:1483:UNK:O	2:H:1484:UNK:CB	2.55	0.54
1:G:961:THR:C	1:G:963:LEU:H	2.11	0.54
1:D:1826:UNK:O	1:D:1827:UNK:CB	2.55	0.54
1:G:890:LYS:O	1:G:892:GLY:N	2.32	0.54
2:E:690:UNK:O	2:E:691:UNK:CB	2.55	0.54
1:G:1142:GLU:N	1:G:1144:PHE:CE1	2.76	0.54
1:D:1142:GLU:N	1:D:1144:PHE:CE1	2.76	0.54
1:G:1319:ILE:HD12	1:G:1325:ARG:HA	1.89	0.54
1:G:1370:THR:O	1:G:1371:THR:CB	2.56	0.54
1:G:912:GLU:O	1:G:916:LEU:N	2.31	0.54
1:A:1036:ARG:CD	1:A:1037:TRP:N	2.71	0.54
1:A:1079:LYS:CG	1:A:1080:THR:N	2.71	0.54
1:A:1398:VAL:HG12	1:A:1673:TYR:CE1	2.38	0.54
1:A:1707:THR:OG1	1:A:1707:THR:O	2.24	0.54
1:A:446:UNK:O	1:A:447:UNK:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:880:ALA:O	1:A:882:ASN:N	2.41	0.54
1:D:1208:VAL:HB	1:D:1212:THR:HG21	1.89	0.54
1:D:1225:ALA:C	1:D:1227:GLY:N	2.55	0.54
1:D:1614:VAL:HG12	1:D:1614:VAL:O	2.07	0.54
2:H:249:TYR:CE2	2:H:283:ILE:HG23	2.43	0.54
2:E:273:HIS:HB3	2:E:512:LEU:HD11	1.89	0.54
2:E:145:LEU:HD21	2:E:544:LYS:HG2	1.89	0.54
2:B:213:LEU:HD11	2:B:215:ILE:HD11	1.89	0.54
2:B:304:PHE:CE2	2:B:308:VAL:HG21	2.43	0.54
2:B:334:VAL:O	2:B:420:PHE:CD2	2.56	0.54
2:B:350:GLN:O	2:B:351:ASP:C	2.46	0.54
2:B:440:ASN:O	2:B:443:LEU:HB2	2.08	0.54
2:E:1754:GLU:C	2:E:1756:ASN:N	2.62	0.54
2:E:351:ASP:O	2:E:354:ASN:HB2	2.08	0.54
2:B:1685:LYS:HA	2:B:1688:GLN:HB2	1.88	0.54
2:B:1706:ILE:HD13	2:B:1783:LEU:HD12	1.90	0.54
2:H:1703:GLY:O	2:H:1721:PHE:HE2	1.87	0.54
2:H:1785:GLU:O	2:H:1788:ALA:HB3	2.08	0.54
1:D:1334:ASP:CG	1:D:1335:PHE:N	2.62	0.54
1:A:1339:GLY:C	1:A:1340:SER:O	2.39	0.54
2:B:60:LEU:O	2:B:64:PHE:N	2.39	0.54
1:G:747:ALA:O	1:G:750:GLU:HB3	2.07	0.54
2:E:25:ALA:CB	2:E:65:LEU:HD21	2.38	0.54
1:G:460:UNK:C	1:G:462:UNK:N	2.70	0.54
2:H:404:GLN:HG3	2:H:408:PRO:CG	2.33	0.54
2:H:1871:LEU:C	2:H:1873:TYR:H	2.10	0.54
2:B:1857:ILE:HG12	2:B:1949:UNK:CB	2.38	0.54
2:E:1877:ARG:HG2	2:E:1929:LYS:HD2	1.89	0.54
1:A:1741:LYS:C	1:A:1743:SER:H	2.12	0.54
1:D:644:UNK:C	1:D:646:UNK:N	2.67	0.54
1:D:489:UNK:O	1:D:490:UNK:C	2.56	0.54
1:G:415:UNK:C	1:G:417:UNK:N	2.68	0.54
1:A:394:UNK:O	1:A:395:UNK:C	2.55	0.54
2:H:68:VAL:HG12	2:H:68:VAL:O	2.08	0.54
3:C:45:UNK:O	3:C:46:UNK:CB	2.56	0.54
1:A:1826:UNK:O	1:A:1827:UNK:CB	2.56	0.54
2:E:1225:UNK:O	2:E:1226:UNK:CB	2.55	0.54
1:G:1075:TRP:CE3	1:G:1076:VAL:N	2.77	0.53
1:G:719:GLN:CG	1:G:720:SER:N	2.69	0.53
1:G:807:LYS:HG2	1:G:861:GLN:HG3	1.90	0.53
1:A:1203:ASP:H	1:A:1205:ILE:HG13	1.68	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1596:ALA:O	1:A:1597:LEU:C	2.46	0.53
1:A:1604:ILE:HG23	1:A:1630:THR:CB	2.38	0.53
1:A:904:ASN:O	1:A:905:LEU:C	2.46	0.53
1:D:1060:ILE:HD13	1:D:1077:ASP:OD1	2.08	0.53
1:D:1067:LEU:HD11	1:D:1073:THR:OG1	2.08	0.53
1:D:1208:VAL:HA	1:D:1277:GLU:CD	2.28	0.53
1:D:1419:PRO:O	1:D:1420:ALA:HB2	2.08	0.53
1:D:1711:GLU:CG	1:D:1715:TYR:HE1	2.09	0.53
1:D:689:GLY:HA2	1:D:692:VAL:CG2	2.38	0.53
1:D:910:THR:CG2	1:D:913:VAL:HG23	2.38	0.53
2:H:474:SER:O	2:H:475:ILE:HB	2.07	0.53
2:E:213:LEU:HD13	2:E:236:ILE:CG1	2.37	0.53
2:B:267:LEU:HG	2:B:457:ILE:HD12	1.89	0.53
2:E:1753:LYS:O	2:E:1755:ILE:HG12	2.08	0.53
2:E:1760:THR:O	2:E:1761:SER:OG	2.22	0.53
2:E:1762:TYR:CD1	2:E:1763:THR:N	2.74	0.53
2:E:525:VAL:HG12	2:E:525:VAL:O	2.08	0.53
2:B:1830:VAL:O	2:B:1833:TYR:N	2.42	0.53
2:H:1739:GLU:O	2:H:1741:ILE:HG13	2.08	0.53
2:H:1672:GLN:HB3	2:H:1781:LEU:CG	2.38	0.53
2:H:50:ALA:O	2:H:51:ASP:HB2	2.08	0.53
1:G:704:VAL:HG22	1:G:733:ILE:HB	1.89	0.53
2:E:79:GLN:HB3	2:E:80:PHE:HD1	1.73	0.53
2:E:408:PRO:HB2	2:E:412:ARG:CD	2.37	0.53
1:G:1736:LYS:O	1:G:1737:ASN:HB2	2.08	0.53
2:E:203:LEU:HD23	2:E:206:GLU:OE2	2.09	0.53
1:D:998:TYR:O	1:D:999:LYS:O	2.25	0.53
1:D:830:HIS:N	1:D:830:HIS:CD2	2.72	0.53
1:D:774:ILE:HD13	1:D:775:PRO:HD2	1.89	0.53
2:B:917:UNK:C	2:B:919:UNK:N	2.67	0.53
2:B:1917:ILE:HG22	2:B:1918:LYS:N	2.22	0.53
1:G:774:ILE:CD1	1:G:775:PRO:HD2	2.39	0.53
1:A:487:UNK:O	1:A:489:UNK:N	2.41	0.53
2:E:1483:UNK:O	2:E:1484:UNK:CB	2.55	0.53
2:E:1519:UNK:C	2:E:1521:UNK:N	2.71	0.53
3:C:61:UNK:O	3:C:62:UNK:CB	2.56	0.53
2:B:690:UNK:O	2:B:691:UNK:CB	2.56	0.53
1:G:1377:MET:O	1:G:1378:GLU:O	2.25	0.53
1:G:1599:ILE:HG13	1:G:1600:LEU:N	2.23	0.53
1:G:880:ALA:O	1:G:882:ASN:N	2.41	0.53
1:G:910:THR:CG2	1:G:913:VAL:HG23	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1057:MET:CE	1:A:1106:ILE:HD11	2.38	0.53
1:A:1239:HIS:O	1:A:1241:SER:N	2.39	0.53
1:A:717:TYR:C	1:A:719:GLN:N	2.60	0.53
1:D:1036:ARG:CD	1:D:1037:TRP:N	2.71	0.53
1:D:1075:TRP:CE3	1:D:1076:VAL:N	2.76	0.53
1:D:1246:CYS:N	1:D:1328:ILE:HG23	2.23	0.53
1:D:1616:LYS:O	1:D:1618:LEU:N	2.42	0.53
1:D:1639:VAL:HG23	1:D:1655:VAL:H	1.74	0.53
1:D:1642:THR:HA	1:D:1652:GLN:OE1	2.08	0.53
1:D:880:ALA:O	1:D:882:ASN:N	2.41	0.53
2:B:1698:PHE:C	2:B:1700:ASP:H	2.11	0.53
2:H:1714:PRO:O	2:H:1715:VAL:O	2.25	0.53
2:H:1737:ILE:HD12	2:H:1755:ILE:HD12	1.90	0.53
2:H:61:VAL:HG12	2:H:65:LEU:HD12	1.90	0.53
2:B:122:LEU:C	2:B:122:LEU:HD23	2.27	0.53
2:B:41:LEU:O	2:B:45:THR:HA	2.07	0.53
1:G:771:PHE:HD1	1:G:771:PHE:N	2.05	0.53
2:E:50:ALA:O	2:E:51:ASP:HB2	2.07	0.53
2:E:61:VAL:HG12	2:E:65:LEU:HD12	1.89	0.53
2:B:1885:LEU:C	3:C:2:UNK:CB	2.76	0.53
1:D:1666:THR:O	1:D:1667:GLU:HG3	2.09	0.53
2:E:1897:GLN:C	2:E:1899:VAL:H	2.10	0.53
2:E:1917:ILE:HG22	2:E:1918:LYS:N	2.20	0.53
2:E:2036:UNK:C	2:E:2038:UNK:N	2.70	0.53
1:G:927:ASN:O	1:G:929:GLY:N	2.35	0.53
1:A:552:UNK:C	1:A:554:UNK:H	2.17	0.53
1:A:963:LEU:O	1:A:967:VAL:HG23	2.08	0.53
1:A:561:UNK:O	1:A:564:UNK:N	2.42	0.53
2:E:1844:ARG:HG2	2:E:1850:SER:HA	1.90	0.53
2:B:1275:UNK:O	2:B:1276:UNK:C	2.57	0.53
1:G:1138:LYS:O	1:G:1139:GLU:HB3	2.07	0.53
1:G:1144:PHE:O	1:G:1145:LYS:C	2.45	0.53
1:A:1153:ASP:CG	1:A:1157:ILE:HG23	2.29	0.53
1:G:1316:VAL:HG13	1:G:1317:GLU:OE2	2.09	0.53
1:G:1381:GLY:O	1:G:1382:ALA:HB2	2.09	0.53
1:G:1549:ASN:OD1	1:G:1550:ASP:N	2.41	0.53
1:G:1704:ALA:CB	1:G:1705:PRO:HD2	2.27	0.53
1:A:1100:HIS:O	1:A:1103:ILE:N	2.41	0.53
1:A:1195:ALA:O	1:A:1196:LYS:NZ	2.42	0.53
1:A:1208:VAL:CG2	1:A:1209:ASP:N	2.70	0.53
1:A:1302:VAL:O	1:A:1307:THR:CB	2.53	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1326:ILE:N	1:A:1326:ILE:CD1	2.70	0.53
1:A:1430:ARG:CG	1:A:1431:GLU:H	2.20	0.53
1:A:1332:TYR:CA	1:A:1587:ALA:HB2	2.38	0.53
1:A:1021:VAL:HG11	1:A:1597:LEU:HD11	1.91	0.53
1:A:1607:GLY:O	1:A:1608:ASN:O	2.27	0.53
1:D:1070:ARG:O	1:D:1071:PRO:C	2.47	0.53
1:D:1074:GLY:O	1:D:1075:TRP:HB3	2.08	0.53
1:D:1418:VAL:CA	1:D:1419:PRO:O	2.55	0.53
1:D:1532:THR:O	1:D:1533:ILE:C	2.47	0.53
1:D:1541:PHE:HE2	1:D:1554:SER:OG	1.90	0.53
1:D:873:ARG:HH12	1:D:883:ILE:C	2.11	0.53
2:H:213:LEU:HD13	2:H:236:ILE:CG1	2.36	0.53
2:H:209:PHE:CD2	2:H:213:LEU:HD22	2.44	0.53
2:H:275:GLN:HG3	2:H:303:LEU:HD22	1.90	0.53
2:H:431:LEU:HD23	2:H:431:LEU:N	2.23	0.53
2:H:270:ALA:O	2:H:459:VAL:HG13	2.09	0.53
2:E:209:PHE:CD2	2:E:213:LEU:HD22	2.43	0.53
2:B:187:LEU:HD22	2:B:296:VAL:HG11	1.90	0.53
2:B:478:ARG:C	2:B:480:VAL:N	2.62	0.53
2:B:1720:HIS:HB2	2:B:1762:TYR:O	2.08	0.53
2:B:1809:LEU:O	2:B:1811:GLU:N	2.41	0.53
2:H:1753:LYS:O	2:H:1755:ILE:HG12	2.08	0.53
1:G:1339:GLY:O	1:G:1340:SER:O	2.26	0.53
2:E:1859:PRO:HB3	2:E:1863:ALA:HB2	1.90	0.53
2:H:1859:PRO:HB3	2:H:1863:ALA:HB2	1.90	0.53
2:H:1869:GLU:HA	2:H:1872:GLN:CB	2.38	0.53
1:D:903:PHE:O	1:D:906:LEU:HB3	2.08	0.53
1:G:572:UNK:C	1:G:574:UNK:N	2.70	0.53
2:H:2033:UNK:O	2:H:2036:UNK:N	2.40	0.53
2:B:2036:UNK:C	2:B:2038:UNK:N	2.69	0.53
2:B:678:UNK:O	2:B:679:UNK:C	2.55	0.53
2:H:678:UNK:O	2:H:679:UNK:C	2.56	0.53
1:A:961:THR:C	1:A:963:LEU:H	2.12	0.53
1:D:961:THR:C	1:D:963:LEU:H	2.12	0.53
2:E:208:VAL:HG12	2:E:208:VAL:O	2.08	0.53
2:H:1531:UNK:O	2:H:1532:UNK:CB	2.56	0.53
1:D:415:UNK:C	1:D:417:UNK:N	2.70	0.53
1:A:1158:PRO:CG	1:A:1159:GLU:H	2.09	0.53
1:A:1133:PRO:HD2	1:A:1173:LEU:HD13	1.87	0.53
1:D:1127:VAL:HG21	1:D:1180:ARG:HG3	1.90	0.53
1:G:1067:LEU:CG	1:G:1073:THR:HG23	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1657:HIS:NE2	1:G:1659:ASP:OD2	2.36	0.53
1:G:1681:GLU:O	1:G:1682:LYS:HB2	2.09	0.53
1:A:1070:ARG:O	1:A:1071:PRO:C	2.47	0.53
1:A:1109:GLU:O	1:A:1110:LEU:CB	2.56	0.53
1:A:1208:VAL:HA	1:A:1277:GLU:CD	2.29	0.53
1:A:1532:THR:OG1	1:A:1535:ASP:HB3	2.08	0.53
1:A:1373:ARG:CG	1:A:1547:LYS:HD3	2.09	0.53
1:A:871:TRP:HZ2	1:A:881:ASN:HB2	1.73	0.53
1:D:1079:LYS:CG	1:D:1080:THR:N	2.71	0.53
1:D:1099:GLU:CG	1:D:1100:HIS:N	2.66	0.53
1:D:1558:ASN:C	1:D:1560:MET:N	2.62	0.53
1:D:1610:ASN:O	1:D:1611:ALA:O	2.27	0.53
1:D:1656:VAL:HG22	1:D:1657:HIS:N	2.22	0.53
2:E:440:ASN:O	2:E:443:LEU:HB2	2.07	0.53
2:E:1720:HIS:HB2	2:E:1762:TYR:O	2.07	0.53
2:E:1789:PHE:CE1	2:E:1818:LEU:HD23	2.43	0.53
2:B:1673:GLU:N	2:B:1676:MET:HE1	2.23	0.53
2:H:1698:PHE:CD1	2:H:1706:ILE:HD11	2.43	0.53
2:B:52:ASP:CG	2:B:53:GLU:H	2.12	0.53
1:G:1735:SER:C	1:G:1737:ASN:N	2.61	0.53
2:H:408:PRO:HB2	2:H:412:ARG:CD	2.37	0.53
2:H:390:ASN:HA	2:H:393:LEU:CD2	2.39	0.53
2:E:1907:LEU:N	2:E:1907:LEU:HD23	2.21	0.53
2:H:922:UNK:C	2:H:924:UNK:N	2.69	0.53
2:B:2033:UNK:O	2:B:2036:UNK:N	2.41	0.53
2:B:2038:UNK:HA	2:B:2041:UNK:CB	2.38	0.53
2:H:1034:UNK:C	2:H:1036:UNK:H	2.21	0.53
1:D:281:UNK:C	1:D:283:UNK:N	2.71	0.53
2:B:1496:UNK:C	2:B:1498:UNK:N	2.72	0.53
1:G:635:UNK:O	1:G:636:UNK:CB	2.56	0.53
2:E:1496:UNK:C	2:E:1498:UNK:N	2.70	0.53
1:G:1156:GLU:HG2	1:G:1169:LYS:HA	1.88	0.53
1:G:1161:GLY:O	1:G:1164:SER:HB3	2.09	0.53
1:A:1142:GLU:N	1:A:1144:PHE:CE1	2.77	0.53
1:G:1413:LYS:HG2	1:G:1414:ILE:N	2.23	0.53
1:G:1655:VAL:HG13	1:G:1656:VAL:N	2.23	0.53
1:G:1403:ILE:CG2	1:G:1656:VAL:O	2.57	0.53
1:G:993:PRO:HD3	1:G:1681:GLU:OE2	2.07	0.53
1:G:1700:SER:C	1:G:1701:LYS:HD3	2.29	0.53
1:G:912:GLU:O	1:G:913:VAL:C	2.47	0.53
1:A:1052:GLU:O	1:A:1056:ILE:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:689:GLY:HA2	1:A:692:VAL:CG2	2.39	0.53
1:A:695:GLY:O	1:A:697:LEU:N	2.42	0.53
1:D:1109:GLU:C	1:D:1111:PHE:N	2.59	0.53
1:D:1248:GLY:O	1:D:1300:THR:HG23	2.09	0.53
1:D:1349:THR:HG22	1:D:1350:SER:N	2.23	0.53
1:D:1536:LEU:CA	1:D:1638:ALA:HB3	2.39	0.53
1:D:1544:THR:OG1	1:D:1546:THR:CG2	2.56	0.53
1:D:1546:THR:O	1:D:1548:ALA:N	2.41	0.53
1:D:1547:LYS:HE3	1:D:1615:ASP:HB2	1.89	0.53
1:D:1691:GLY:HA2	1:D:1696:LYS:HB2	1.90	0.53
1:D:717:TYR:C	1:D:719:GLN:N	2.59	0.53
1:D:796:LEU:HG	1:D:797:THR:N	2.23	0.53
2:H:370:LEU:HB3	2:H:372:ASN:OD1	2.08	0.53
1:G:1453:VAL:O	1:G:1454:THR:C	2.47	0.53
2:B:1715:VAL:CG2	2:B:1716:ASN:H	2.05	0.53
2:B:402:LEU:HD22	2:B:405:SER:OG	2.08	0.53
1:G:877:LEU:O	1:G:878:MET:CB	2.48	0.53
2:H:197:GLU:O	2:H:199:ILE:N	2.41	0.53
2:H:202:THR:O	2:H:203:LEU:C	2.46	0.53
2:H:390:ASN:HA	2:H:393:LEU:CB	2.37	0.53
1:A:1665:ILE:HG22	1:A:1666:THR:N	2.23	0.53
1:G:655:UNK:O	1:G:657:UNK:N	2.41	0.53
2:B:2047:UNK:O	2:B:2049:UNK:N	2.42	0.53
1:D:673:PHE:O	1:D:674:LYS:C	2.45	0.53
2:H:1614:UNK:CB	2:H:1650:UNK:HA	2.39	0.53
2:H:1562:UNK:O	2:H:1564:UNK:N	2.42	0.53
2:E:1531:UNK:O	2:E:1532:UNK:CB	2.56	0.53
1:A:875:THR:OG1	1:A:879:SER:HB2	2.09	0.53
2:H:755:UNK:O	2:H:756:UNK:CB	2.56	0.53
2:B:755:UNK:O	2:B:756:UNK:CB	2.56	0.53
2:H:1823:SER:O	2:H:1824:ILE:C	2.47	0.53
1:G:1168:LEU:HD13	1:G:1169:LYS:CB	2.37	0.53
1:D:1161:GLY:H	1:D:1166:LYS:HA	1.73	0.53
1:G:1219:VAL:HG23	1:G:1328:ILE:HD11	1.89	0.53
1:G:1239:HIS:C	1:G:1241:SER:N	2.60	0.53
1:G:1562:LYS:NZ	1:G:1621:PHE:CZ	2.75	0.53
1:G:1692:MET:N	1:G:1697:LEU:HD11	2.24	0.53
1:G:443:UNK:CB	1:G:731:THR:HA	2.39	0.53
1:A:1045:PHE:HB3	1:A:1050:CYS:CA	2.38	0.53
1:A:1260:MET:SD	1:A:1275:LEU:HD23	2.49	0.53
1:A:1413:LYS:HG2	1:A:1414:ILE:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1062:TYR:CE2	1:A:1693:ILE:HD12	2.31	0.53
1:D:1022:THR:HG21	1:D:1388:MET:CE	2.32	0.53
1:D:1032:SER:O	1:D:1033:ALA:C	2.46	0.53
1:D:1245:ASN:ND2	1:D:1288:ASN:ND2	2.57	0.53
1:D:1413:LYS:HG2	1:D:1414:ILE:N	2.23	0.53
1:D:1424:GLY:C	1:D:1426:LEU:H	2.10	0.53
1:D:1558:ASN:ND2	1:D:1620:GLN:HB3	2.24	0.53
1:D:1688:PHE:O	1:D:1689:HIS:C	2.46	0.53
1:D:680:ILE:HD11	1:D:703:VAL:HG13	1.89	0.53
2:H:239:PRO:HG2	2:H:240:LEU:H	1.74	0.53
2:E:241:ILE:HG21	2:E:275:GLN:HG2	1.90	0.53
2:E:306:ILE:O	2:E:310:CYS:SG	2.67	0.53
2:B:265:SER:O	2:B:267:LEU:N	2.40	0.53
2:E:526:ARG:CD	2:E:526:ARG:N	2.70	0.53
2:B:1678:MET:HA	2:B:1678:MET:CE	2.36	0.53
2:H:174:ARG:C	2:H:176:LEU:H	2.12	0.53
2:B:19:VAL:HG12	2:B:19:VAL:O	2.08	0.53
2:E:14:GLY:HA3	2:E:18:HIS:CB	2.39	0.53
1:D:1717:ASP:C	1:D:1719:LEU:H	2.11	0.53
2:E:1908:ASP:O	2:E:1911:THR:HG22	2.07	0.53
2:H:1874:VAL:HG12	2:H:1878:VAL:CG2	2.39	0.53
1:A:917:CYS:SG	1:A:922:VAL:CG2	2.97	0.53
1:G:928:GLY:C	1:G:930:LEU:N	2.60	0.53
1:A:490:UNK:O	1:A:493:UNK:N	2.42	0.53
2:B:676:UNK:O	2:B:677:UNK:C	2.56	0.53
1:G:388:UNK:O	1:G:389:UNK:C	2.57	0.53
1:A:1561:MET:HA	1:A:1561:MET:CE	2.38	0.53
1:G:1151:LYS:CG	1:G:1175:ILE:HD13	2.38	0.53
1:A:1161:GLY:H	1:A:1166:LYS:HA	1.74	0.53
1:D:1142:GLU:O	1:D:1143:GLN:C	2.46	0.53
1:D:1153:ASP:C	1:D:1155:PHE:H	2.12	0.53
1:G:1100:HIS:O	1:G:1103:ILE:N	2.41	0.53
1:G:1376:PHE:O	1:G:1377:MET:HG2	2.08	0.53
1:G:1387:ILE:O	1:G:1387:ILE:HD12	2.08	0.53
1:A:1117:GLU:HG3	1:A:1118:LYS:N	2.24	0.53
1:A:1187:GLY:N	1:A:1188:GLN:NE2	2.56	0.53
1:A:1189:ILE:CG2	1:A:1190:PRO:CD	2.72	0.53
1:A:796:LEU:HG	1:A:797:THR:N	2.22	0.53
1:D:1045:PHE:HB3	1:D:1050:CYS:CA	2.38	0.53
1:D:1371:THR:O	1:D:1373:ARG:HG3	2.09	0.53
1:D:1687:PHE:O	1:D:1690:ASN:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1014:ASP:O	1:A:1015:LEU:O	2.26	0.53
1:A:1455:ARG:NH2	1:A:1458:GLN:HB2	2.24	0.53
2:B:480:VAL:HG13	2:B:484:ILE:HD11	1.90	0.53
2:H:1738:PHE:HB3	2:H:1739:GLU:OE2	2.09	0.53
2:H:214:ASN:C	2:H:216:LEU:H	2.12	0.53
1:G:453:UNK:C	1:G:455:UNK:N	2.68	0.53
2:B:1908:ASP:O	2:B:1911:THR:HG22	2.08	0.53
1:G:917:CYS:HA	1:G:920:SER:O	2.09	0.53
1:A:1172:THR:HG22	1:A:1172:THR:O	2.09	0.53
1:G:1146:HIS:O	1:G:1148:HIS:N	2.41	0.53
1:G:1208:VAL:CG2	1:G:1209:ASP:N	2.71	0.53
1:G:1208:VAL:HA	1:G:1277:GLU:CD	2.29	0.53
1:G:1210:PRO:HB3	1:G:1255:SER:CB	2.30	0.53
1:G:1241:SER:HB3	1:G:1295:SER:H	1.73	0.53
1:G:1326:ILE:N	1:G:1326:ILE:CD1	2.72	0.53
1:G:1418:VAL:CA	1:G:1419:PRO:O	2.57	0.53
1:G:1590:ALA:O	1:G:1593:MET:HB3	2.08	0.53
1:G:866:GLY:O	1:G:867:ALA:CB	2.56	0.53
1:G:869:ILE:CG2	1:G:901:MET:SD	2.96	0.53
1:G:911:PRO:O	1:G:912:GLU:CB	2.56	0.53
1:A:1082:GLU:CA	1:A:1085:ASP:OD1	2.57	0.53
1:A:1197:THR:CA	1:A:1200:ILE:HG22	2.37	0.53
1:A:1639:VAL:HG23	1:A:1655:VAL:H	1.73	0.53
1:A:705:VAL:HG23	1:A:732:LEU:HD11	1.91	0.53
1:D:1207:GLN:HE21	1:D:1207:GLN:C	2.12	0.53
1:D:1307:THR:OG1	1:D:1308:SER:N	2.41	0.53
1:D:1637:ARG:O	1:D:1657:HIS:N	2.37	0.53
1:D:993:PRO:HD3	1:D:1681:GLU:OE2	2.09	0.53
1:D:1447:TYR:HE2	1:D:1450:ARG:CG	2.19	0.53
1:D:1453:VAL:O	1:D:1454:THR:C	2.46	0.53
2:H:99:ASN:O	2:H:100:ASP:HB3	2.09	0.53
2:H:147:ARG:O	2:H:148:ALA:C	2.47	0.53
2:E:275:GLN:HG3	2:E:303:LEU:HD22	1.91	0.53
2:E:431:LEU:HD23	2:E:431:LEU:N	2.23	0.53
2:E:270:ALA:O	2:E:459:VAL:HG13	2.09	0.53
1:G:1014:ASP:O	1:G:1015:LEU:O	2.26	0.53
2:B:489:LYS:O	2:B:491:GLU:N	2.41	0.53
2:H:1758:HIS:CD2	2:H:1759:SER:H	2.25	0.53
2:H:14:GLY:HA3	2:H:18:HIS:CB	2.38	0.53
2:H:19:VAL:O	2:H:19:VAL:HG12	2.09	0.53
2:B:25:ALA:CB	2:B:65:LEU:HD21	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:HIS:HD2	1:G:838:MET:SD	2.32	0.53
2:E:41:LEU:CD2	2:E:46:GLU:HA	2.32	0.53
2:E:70:SER:HB2	2:E:72:VAL:O	2.09	0.53
1:A:1666:THR:O	1:A:1667:GLU:HG3	2.09	0.53
1:G:673:PHE:O	1:G:674:LYS:C	2.47	0.53
2:B:895:UNK:O	2:B:896:UNK:C	2.57	0.53
1:G:490:UNK:O	1:G:493:UNK:N	2.42	0.53
2:H:799:UNK:O	2:H:800:UNK:C	2.56	0.53
2:H:1018:UNK:O	2:H:1019:UNK:CB	2.55	0.53
2:E:969:UNK:O	2:E:971:UNK:N	2.42	0.53
1:D:1561:MET:HA	1:D:1561:MET:CE	2.39	0.53
2:H:1429:UNK:O	2:H:1430:UNK:C	2.56	0.53
2:E:612:UNK:O	2:E:613:UNK:CB	2.56	0.53
1:A:1157:ILE:HG22	1:A:1158:PRO:CD	2.23	0.53
1:G:1056:ILE:C	1:G:1058:GLY:N	2.62	0.53
1:G:1104:ARG:O	1:G:1105:LEU:CG	2.56	0.53
1:G:1286:TRP:HA	1:G:1289:MET:CG	2.38	0.53
1:G:1408:ALA:HA	1:G:1652:GLN:O	2.09	0.53
1:A:1637:ARG:O	1:A:1657:HIS:N	2.38	0.53
1:A:680:ILE:HD11	1:A:703:VAL:CG1	2.39	0.53
1:A:704:VAL:HG22	1:A:733:ILE:HB	1.91	0.53
1:A:873:ARG:HG3	1:A:882:ASN:OD1	2.07	0.53
1:A:901:MET:O	1:A:904:ASN:N	2.33	0.53
1:D:1398:VAL:HG12	1:D:1673:TYR:CE1	2.38	0.53
1:D:1433:HIS:CE1	1:D:1518:ARG:HH21	2.27	0.53
1:D:1681:GLU:O	1:D:1682:LYS:HB2	2.09	0.53
1:D:610:UNK:CB	1:D:873:ARG:HE	2.21	0.53
1:D:1012:LEU:CD1	1:D:1015:LEU:HD12	2.38	0.53
2:H:525:VAL:O	2:H:525:VAL:HG12	2.09	0.53
2:E:490:TRP:O	2:E:493:THR:N	2.41	0.53
2:B:275:GLN:HG3	2:B:303:LEU:HD22	1.91	0.53
2:B:1709:ILE:HG22	2:B:1771:LEU:CD1	2.36	0.53
2:B:1753:LYS:C	2:B:1755:ILE:H	2.12	0.53
2:E:13:HIS:C	2:E:15:SER:H	2.10	0.53
2:E:52:ASP:CG	2:E:53:GLU:H	2.12	0.53
1:G:810:LYS:O	1:G:812:ALA:N	2.41	0.53
2:B:1931:LEU:HA	2:B:1934:GLU:HB3	1.90	0.53
1:A:666:UNK:O	1:A:667:UNK:C	2.57	0.53
1:A:1280:ILE:H	1:A:1280:ILE:CD1	2.16	0.53
2:B:1859:PRO:HB3	2:B:1863:ALA:HB2	1.91	0.53
1:A:998:TYR:HD1	1:A:999:LYS:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:673:PHE:O	1:A:674:LYS:C	2.48	0.53
2:E:1181:UNK:O	2:E:1182:UNK:CB	2.57	0.53
2:H:1181:UNK:O	2:H:1182:UNK:CB	2.57	0.53
2:H:1149:UNK:C	2:H:1151:UNK:N	2.72	0.53
2:H:895:UNK:O	2:H:896:UNK:C	2.57	0.53
2:E:1334:UNK:O	2:E:1335:UNK:C	2.55	0.53
2:E:2040:UNK:O	2:E:2042:UNK:N	2.42	0.53
2:E:887:UNK:O	2:E:888:UNK:CB	2.57	0.53
2:H:1496:UNK:C	2:H:1498:UNK:N	2.70	0.53
2:H:402:LEU:HD22	2:H:405:SER:OG	2.09	0.53
1:G:584:UNK:O	1:G:585:UNK:O	2.26	0.53
2:H:1519:UNK:C	2:H:1521:UNK:N	2.68	0.53
2:B:1519:UNK:C	2:B:1521:UNK:N	2.71	0.53
2:B:395:LYS:O	2:B:396:ALA:HB2	2.07	0.53
1:G:563:UNK:C	1:G:565:UNK:N	2.67	0.53
2:B:1823:SER:O	2:B:1824:ILE:C	2.47	0.53
1:A:1139:GLU:CG	1:A:1140:THR:N	2.71	0.53
1:A:1131:LEU:O	1:A:1173:LEU:HD13	2.09	0.53
1:A:1151:LYS:CG	1:A:1175:ILE:HD13	2.39	0.53
1:A:1126:ILE:CG2	1:A:1177:LYS:HB3	2.39	0.53
1:D:1161:GLY:O	1:D:1164:SER:HB3	2.09	0.53
1:D:1178:ALA:O	1:D:1179:LEU:CD2	2.56	0.53
1:G:1045:PHE:HB3	1:G:1050:CYS:N	2.23	0.53
1:G:1094:GLU:HG3	1:G:1095:THR:N	2.24	0.53
1:G:1276:GLN:O	1:G:1279:PHE:CD2	2.61	0.53
1:G:1371:THR:C	1:G:1373:ARG:H	2.10	0.53
1:G:1022:THR:O	1:G:1401:TYR:CE2	2.62	0.53
1:G:1424:GLY:C	1:G:1426:LEU:H	2.10	0.53
1:G:873:ARG:HH12	1:G:883:ILE:C	2.13	0.53
1:A:1654:ILE:HG12	1:A:1655:VAL:N	2.23	0.53
1:A:803:MET:HB3	1:A:862:LEU:HD11	1.90	0.53
1:D:1187:GLY:C	1:D:1188:GLN:CD	2.68	0.53
1:D:1197:THR:CA	1:D:1200:ILE:HG22	2.38	0.53
1:D:1243:VAL:HG11	1:D:1325:ARG:HD3	1.89	0.53
1:D:1376:PHE:O	1:D:1377:MET:HG2	2.09	0.53
1:D:1546:THR:CG2	1:D:1549:ASN:HB3	2.38	0.53
1:D:1599:ILE:HG13	1:D:1600:LEU:N	2.24	0.53
1:D:1638:ALA:O	1:D:1639:VAL:HG13	2.09	0.53
1:D:444:UNK:H	1:D:722:TYR:HE2	1.54	0.53
1:D:787:LYS:O	1:D:790:PHE:HB3	2.09	0.53
1:D:911:PRO:O	1:D:912:GLU:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:158:ALA:H	2:H:270:ALA:H	1.56	0.53
2:H:490:TRP:O	2:H:493:THR:N	2.41	0.53
2:B:375:LYS:CG	2:B:376:ASN:H	2.22	0.53
1:G:1471:LYS:C	1:G:1474:ALA:H	2.13	0.53
1:D:1471:LYS:C	1:D:1474:ALA:H	2.12	0.53
2:B:1675:GLY:O	2:B:1678:MET:HG2	2.09	0.53
2:H:1770:LEU:O	2:H:1772:SER:N	2.35	0.53
1:D:1339:GLY:O	1:D:1340:SER:O	2.27	0.53
2:H:70:SER:HB2	2:H:72:VAL:O	2.08	0.53
2:H:79:GLN:HB3	2:H:80:PHE:HD1	1.73	0.53
1:G:791:ALA:O	1:G:795:MET:N	2.32	0.53
2:E:49:ALA:H	2:E:118:LYS:NZ	2.07	0.53
2:B:1878:VAL:CB	2:B:1898:TYR:HE1	2.22	0.53
1:G:1665:ILE:HG22	1:G:1666:THR:N	2.24	0.53
2:B:203:LEU:HD23	2:B:206:GLU:OE2	2.08	0.53
2:H:1877:ARG:HB3	2:H:1929:LYS:HZ2	1.73	0.53
2:B:135:ARG:N	2:B:136:PRO:HD3	2.22	0.53
2:B:1040:UNK:O	2:B:1041:UNK:CB	2.56	0.53
2:H:1341:UNK:O	2:H:1342:UNK:CB	2.57	0.53
2:B:1413:UNK:C	2:B:1415:UNK:N	2.71	0.53
2:B:1299:UNK:O	2:B:1301:UNK:N	2.41	0.53
2:H:799:UNK:C	2:H:801:UNK:N	2.70	0.53
2:E:1291:UNK:CB	2:E:1369:UNK:N	2.72	0.53
2:E:1018:UNK:O	2:E:1019:UNK:CB	2.56	0.53
1:G:890:LYS:C	1:G:892:GLY:H	2.13	0.53
1:G:537:UNK:CB	1:G:585:UNK:CB	2.86	0.53
2:B:762:UNK:O	2:B:763:UNK:CB	2.57	0.53
2:B:218:TRP:CZ2	2:B:226:PRO:HG2	2.44	0.53
2:E:1823:SER:O	2:E:1824:ILE:C	2.47	0.53
2:H:1441:UNK:C	2:H:1443:UNK:N	2.71	0.53
1:G:1169:LYS:CG	1:G:1170:GLY:H	2.18	0.52
1:D:1174:TYR:O	1:D:1175:ILE:CB	2.56	0.52
1:G:1254:VAL:CG1	1:G:1255:SER:H	2.18	0.52
1:G:1390:ALA:O	1:G:1393:ALA:HB3	2.09	0.52
1:G:1519:ILE:HD11	1:G:1521:PRO:HD2	1.90	0.52
1:G:1546:THR:O	1:G:1548:ALA:N	2.42	0.52
1:G:1579:PHE:CD2	1:G:1609:ARG:O	2.62	0.52
1:A:1119:LYS:HE3	1:A:1121:MET:CG	2.39	0.52
1:A:1292:ILE:O	1:A:1292:ILE:CG1	2.53	0.52
1:A:1655:VAL:HG13	1:A:1656:VAL:N	2.24	0.52
1:A:910:THR:HG23	1:A:913:VAL:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1082:GLU:CA	1:D:1085:ASP:OD1	2.57	0.52
1:D:1117:GLU:HG3	1:D:1118:LYS:N	2.23	0.52
1:D:1659:ASP:C	1:D:1661:LEU:H	2.12	0.52
1:D:742:LYS:O	1:D:744:ASP:N	2.42	0.52
1:D:874:GLY:HA3	1:D:899:LYS:HD2	1.91	0.52
2:H:258:PHE:CB	2:H:262:GLU:HB2	2.28	0.52
2:H:437:ASP:O	2:H:440:ASN:HB2	2.09	0.52
2:E:184:VAL:C	2:E:186:ASP:N	2.58	0.52
2:B:213:LEU:HD13	2:B:236:ILE:CG1	2.38	0.52
2:E:1773:ALA:C	2:E:1775:GLN:N	2.63	0.52
2:B:1785:GLU:O	2:B:1788:ALA:HB3	2.09	0.52
2:H:1678:MET:CA	2:H:1678:MET:HE2	2.39	0.52
2:B:73:GLU:N	2:B:74:PRO:CD	2.72	0.52
1:G:749:ILE:HD11	1:G:802:MET:HE2	1.91	0.52
1:G:769:ILE:HB	1:G:823:ILE:CD1	2.38	0.52
2:E:60:LEU:O	2:E:64:PHE:N	2.39	0.52
1:G:808:LYS:HA	1:G:808:LYS:CE	2.28	0.52
1:A:1736:LYS:O	1:A:1737:ASN:HB2	2.09	0.52
2:E:1868:GLN:O	2:E:1872:GLN:HB2	2.09	0.52
2:B:87:CYS:C	2:B:90:GLU:HB3	2.29	0.52
2:E:390:ASN:HA	2:E:393:LEU:CD2	2.39	0.52
1:D:998:TYR:HD1	1:D:999:LYS:HG2	1.74	0.52
1:A:917:CYS:HA	1:A:920:SER:O	2.09	0.52
2:B:1884:TRP:N	2:B:1892:ASN:HB2	2.24	0.52
2:E:1038:UNK:O	2:E:1040:UNK:N	2.42	0.52
2:H:1008:UNK:O	2:H:1011:UNK:N	2.42	0.52
2:H:1642:UNK:O	2:H:1650:UNK:O	2.28	0.52
2:E:615:UNK:O	2:E:617:UNK:N	2.42	0.52
2:E:647:UNK:HA	2:E:650:UNK:CB	2.39	0.52
1:D:412:UNK:C	1:D:414:UNK:N	2.72	0.52
2:B:1650:UNK:C	2:B:1652:UNK:N	2.70	0.52
2:E:1207:UNK:O	2:E:1208:UNK:CB	2.57	0.52
1:G:1359:GLY:O	1:G:1360:ARG:O	2.27	0.52
1:D:1157:ILE:CG2	1:D:1158:PRO:HD2	2.23	0.52
1:D:1168:LEU:HD13	1:D:1169:LYS:CB	2.37	0.52
1:G:1079:LYS:CG	1:G:1080:THR:N	2.71	0.52
1:G:1522:LEU:HB3	1:G:1526:LEU:HD23	1.91	0.52
1:G:852:ARG:NH1	1:G:856:GLU:OE1	2.42	0.52
1:G:873:ARG:HG3	1:G:882:ASN:OD1	2.09	0.52
1:A:1288:ASN:O	1:A:1290:LEU:N	2.42	0.52
1:A:1371:THR:C	1:A:1373:ARG:H	2.11	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1406:MET:HE3	1:A:1430:ARG:HD2	1.91	0.52
1:A:1638:ALA:O	1:A:1639:VAL:HG13	2.08	0.52
1:A:610:UNK:CB	1:A:873:ARG:HE	2.23	0.52
1:D:1056:ILE:C	1:D:1058:GLY:N	2.62	0.52
1:D:1122:ILE:HA	1:D:1182:ASP:O	2.10	0.52
1:D:1210:PRO:HB3	1:D:1255:SER:CB	2.30	0.52
1:D:1224:ILE:HD13	1:D:1687:PHE:CD2	2.45	0.52
1:D:1519:ILE:HG12	1:D:1521:PRO:HD2	1.91	0.52
1:D:1532:THR:OG1	1:D:1535:ASP:CB	2.57	0.52
1:D:679:LEU:HA	1:D:704:VAL:O	2.09	0.52
1:D:696:LEU:H	1:D:696:LEU:HD23	1.74	0.52
1:D:696:LEU:H	1:D:696:LEU:CD2	2.22	0.52
2:H:494:THR:HB	2:H:520:LYS:HZ2	1.73	0.52
2:E:292:PHE:O	2:E:295:SER:HB3	2.08	0.52
2:E:1672:GLN:HB3	2:E:1781:LEU:CG	2.39	0.52
2:E:522:GLY:HA2	2:E:555:UNK:O	2.08	0.52
2:B:1770:LEU:O	2:B:1770:LEU:HD23	2.09	0.52
2:H:1720:HIS:HB2	2:H:1762:TYR:O	2.09	0.52
2:B:1871:LEU:C	2:B:1873:TYR:H	2.11	0.52
2:E:719:UNK:O	2:E:720:UNK:CB	2.58	0.52
1:G:832:THR:O	1:G:833:PHE:O	2.27	0.52
1:D:940:THR:O	1:D:943:LEU:HB2	2.09	0.52
2:E:2033:UNK:O	2:E:2036:UNK:N	2.42	0.52
1:A:929:GLY:O	1:A:930:LEU:C	2.48	0.52
2:E:1333:UNK:O	2:E:1337:UNK:CB	2.57	0.52
2:B:1542:UNK:O	2:B:1543:UNK:CB	2.57	0.52
2:E:1485:UNK:HA	2:E:1512:UNK:HA	1.90	0.52
2:B:450:PHE:HD1	2:B:451:ASN:H	1.49	0.52
3:I:24:UNK:C	3:I:26:UNK:N	2.72	0.52
2:B:1169:UNK:C	2:B:1171:UNK:N	2.70	0.52
2:B:208:VAL:HG12	2:B:208:VAL:O	2.08	0.52
2:H:762:UNK:O	2:H:763:UNK:CB	2.57	0.52
1:D:1284:SER:CB	1:D:1298:ILE:HD11	2.39	0.52
2:B:1162:UNK:C	2:B:1164:UNK:H	2.20	0.52
3:F:49:UNK:O	3:F:50:UNK:CB	2.57	0.52
1:G:1142:GLU:O	1:G:1143:GLN:C	2.48	0.52
1:G:1117:GLU:HG3	1:G:1118:LYS:N	2.23	0.52
1:G:1616:LYS:O	1:G:1618:LEU:N	2.41	0.52
1:A:1030:TRP:CE2	1:A:1580:LEU:HD11	2.44	0.52
1:A:1104:ARG:O	1:A:1105:LEU:CG	2.56	0.52
1:A:1397:GLY:H	1:A:1676:LYS:CB	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1538:VAL:HG11	1:A:1599:ILE:HD12	1.91	0.52
1:A:1579:PHE:CD2	1:A:1609:ARG:O	2.62	0.52
1:A:1636:VAL:HG13	1:A:1657:HIS:CD2	2.44	0.52
1:A:786:SER:O	1:A:787:LYS:C	2.47	0.52
1:D:1459:ILE:HG13	1:D:1460:LYS:N	2.25	0.52
1:G:1478:PRO:O	1:G:1479:SER:CB	2.58	0.52
2:E:386:LEU:O	2:E:389:LEU:HB3	2.08	0.52
2:B:1828:VAL:HG13	2:B:1829:GLU:N	2.24	0.52
2:H:41:LEU:O	2:H:45:THR:HA	2.10	0.52
1:D:808:LYS:O	1:D:809:GLN:C	2.47	0.52
1:G:1342:GLU:O	1:G:1346:MET:HB2	2.09	0.52
2:B:1874:VAL:HG12	2:B:1878:VAL:CG2	2.40	0.52
2:B:1897:GLN:C	2:B:1899:VAL:H	2.11	0.52
2:H:2020:UNK:O	2:H:2021:UNK:C	2.56	0.52
2:H:199:ILE:HG23	2:H:200:ARG:N	2.17	0.52
2:E:202:THR:O	2:E:203:LEU:C	2.47	0.52
2:H:1917:ILE:HG22	2:H:1918:LYS:N	2.22	0.52
2:E:1047:UNK:C	2:E:1049:UNK:N	2.71	0.52
1:G:381:UNK:O	1:G:382:UNK:C	2.57	0.52
1:D:561:UNK:O	1:D:564:UNK:N	2.43	0.52
2:E:147:ARG:O	2:E:148:ALA:C	2.48	0.52
3:I:45:UNK:O	3:I:46:UNK:CB	2.56	0.52
2:B:612:UNK:O	2:B:613:UNK:CB	2.57	0.52
1:A:1128:GLU:CB	1:A:1177:LYS:HG2	2.40	0.52
1:A:1146:HIS:O	1:A:1148:HIS:N	2.43	0.52
1:D:1151:LYS:O	1:D:1152:VAL:C	2.48	0.52
1:G:1240:VAL:HG13	1:G:1242:GLU:HB2	1.92	0.52
1:A:1207:GLN:C	1:A:1207:GLN:HE21	2.12	0.52
1:A:1691:GLY:HA2	1:A:1696:LYS:HB2	1.90	0.52
1:A:910:THR:C	1:A:911:PRO:O	2.45	0.52
1:D:1119:LYS:HG2	1:D:1122:ILE:HG12	1.92	0.52
1:D:1425:ILE:O	1:D:1426:LEU:CB	2.57	0.52
1:D:1528:THR:O	1:D:1530:GLY:N	2.42	0.52
1:D:1599:ILE:HD11	1:D:1639:VAL:CG1	2.37	0.52
1:D:836:ASP:OD1	1:D:839:TYR:N	2.41	0.52
1:A:1455:ARG:NH1	1:A:1455:ARG:HG3	2.24	0.52
2:H:241:ILE:HG21	2:H:275:GLN:HG2	1.92	0.52
2:E:1675:GLY:O	2:E:1678:MET:HG2	2.09	0.52
2:B:1827:LEU:O	2:B:1830:VAL:HG12	2.09	0.52
2:B:14:GLY:HA3	2:B:18:HIS:HB2	1.91	0.52
1:G:703:VAL:HG13	1:G:704:VAL:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:55:THR:O	2:E:55:THR:HG22	2.09	0.52
2:H:1784:MET:HE1	3:I:21:UNK:HA	1.88	0.52
2:E:404:GLN:HA	2:E:408:PRO:HB3	1.91	0.52
2:B:1924:ILE:C	2:B:1926:GLU:N	2.63	0.52
1:G:1491:ARG:C	1:G:1493:ILE:N	2.63	0.52
2:B:217:GLU:O	2:B:219:LEU:N	2.42	0.52
1:A:520:UNK:C	1:A:522:UNK:H2	2.21	0.52
1:A:929:GLY:O	1:A:931:GLN:N	2.42	0.52
2:H:647:UNK:HA	2:H:650:UNK:CB	2.40	0.52
2:E:1551:UNK:O	2:E:1552:UNK:C	2.57	0.52
2:E:1169:UNK:C	2:E:1171:UNK:N	2.70	0.52
1:D:557:UNK:C	1:D:559:UNK:N	2.69	0.52
1:G:1153:ASP:C	1:G:1155:PHE:H	2.13	0.52
1:A:1142:GLU:O	1:A:1143:GLN:C	2.46	0.52
1:A:1168:LEU:HD22	1:A:1169:LYS:N	2.15	0.52
1:G:1089:VAL:C	1:G:1091:ALA:N	2.62	0.52
1:G:1313:ASP:OD2	1:G:1407:ALA:O	2.26	0.52
1:G:826:MET:HE3	1:G:826:MET:HA	1.90	0.52
1:A:1254:VAL:CG1	1:A:1255:SER:H	2.19	0.52
1:A:1541:PHE:HE2	1:A:1554:SER:OG	1.92	0.52
1:A:1659:ASP:C	1:A:1661:LEU:N	2.60	0.52
1:A:719:GLN:CG	1:A:720:SER:N	2.72	0.52
1:A:873:ARG:HH12	1:A:883:ILE:C	2.13	0.52
1:D:1530:GLY:O	1:D:1531:LEU:O	2.26	0.52
1:D:1009:LEU:CD1	1:D:1009:LEU:H	2.23	0.52
2:H:375:LYS:O	2:H:377:LEU:HD12	2.10	0.52
2:E:1673:GLU:N	2:E:1676:MET:HE1	2.23	0.52
2:B:1737:ILE:HG23	2:B:1755:ILE:HG21	1.92	0.52
2:B:1773:ALA:C	2:B:1775:GLN:H	2.13	0.52
2:H:1706:ILE:HD13	2:H:1783:LEU:HD12	1.90	0.52
2:B:49:ALA:CA	2:B:118:LYS:HZ2	2.23	0.52
2:B:53:GLU:HB3	2:B:56:THR:OG1	2.09	0.52
2:B:57:PRO:C	2:B:59:GLU:N	2.63	0.52
2:E:53:GLU:HB3	2:E:56:THR:OG1	2.09	0.52
2:B:404:GLN:HA	2:B:408:PRO:HB3	1.90	0.52
2:H:1868:GLN:O	2:H:1872:GLN:HB2	2.09	0.52
2:H:1888:ILE:HA	2:H:1891:TYR:CZ	2.45	0.52
2:E:393:LEU:HD21	2:E:418:ASN:HB3	1.92	0.52
2:E:924:UNK:O	2:E:925:UNK:C	2.56	0.52
2:H:1333:UNK:O	2:H:1337:UNK:CB	2.57	0.52
1:G:386:UNK:C	1:G:388:UNK:N	2.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:UNK:C	1:A:417:UNK:N	2.69	0.52
2:E:218:TRP:CZ2	2:E:226:PRO:HG2	2.44	0.52
1:G:1099:GLU:CG	1:G:1100:HIS:N	2.66	0.52
1:G:1426:LEU:CD1	1:G:1427:THR:HG23	2.39	0.52
1:G:1707:THR:O	1:G:1707:THR:OG1	2.25	0.52
1:A:1075:TRP:CE3	1:A:1076:VAL:N	2.77	0.52
1:A:1241:SER:HB3	1:A:1295:SER:H	1.74	0.52
1:A:1555:ALA:HA	1:A:1558:ASN:HB3	1.91	0.52
1:A:826:MET:HA	1:A:826:MET:HE3	1.91	0.52
1:A:874:GLY:HA3	1:A:899:LYS:HD2	1.92	0.52
1:D:1203:ASP:H	1:D:1205:ILE:HG13	1.67	0.52
1:D:1288:ASN:O	1:D:1290:LEU:N	2.42	0.52
1:D:679:LEU:CD1	1:D:679:LEU:O	2.58	0.52
2:H:339:LEU:HB2	2:H:420:PHE:CE1	2.45	0.52
2:H:349:VAL:HG21	2:H:377:LEU:CD1	2.35	0.52
1:G:1459:ILE:HG13	1:G:1460:LYS:N	2.24	0.52
1:G:1459:ILE:CG1	1:G:1460:LYS:N	2.73	0.52
2:B:184:VAL:O	2:B:184:VAL:HG22	2.10	0.52
2:E:1709:ILE:HG22	2:E:1771:LEU:CD1	2.38	0.52
2:H:1809:LEU:O	2:H:1811:GLU:N	2.43	0.52
2:H:1830:VAL:O	2:H:1833:TYR:N	2.42	0.52
2:H:173:LEU:O	2:H:176:LEU:HB3	2.09	0.52
1:A:808:LYS:O	1:A:809:GLN:C	2.48	0.52
1:G:458:UNK:HA	1:G:1631:LEU:HD21	1.92	0.52
1:A:1717:ASP:C	1:A:1719:LEU:H	2.12	0.52
2:B:390:ASN:HA	2:B:393:LEU:CD2	2.38	0.52
2:H:1878:VAL:CB	2:H:1898:TYR:HE1	2.23	0.52
1:D:917:CYS:SG	1:D:922:VAL:HB	2.50	0.52
2:E:1378:UNK:O	2:E:1379:UNK:CB	2.58	0.52
1:G:1741:LYS:HA	1:G:1741:LYS:CE	2.39	0.52
2:E:1149:UNK:C	2:E:1151:UNK:N	2.73	0.52
2:B:423:VAL:HG12	2:B:425:SER:O	2.09	0.52
1:A:529:UNK:HA	1:A:532:UNK:CB	2.40	0.52
2:B:1333:UNK:O	2:B:1337:UNK:CB	2.58	0.52
2:H:843:UNK:O	2:H:845:UNK:N	2.43	0.52
1:D:388:UNK:O	1:D:389:UNK:C	2.57	0.52
2:H:612:UNK:O	2:H:613:UNK:CB	2.58	0.52
2:E:587:UNK:O	2:E:784:UNK:CB	2.58	0.52
1:G:1119:LYS:O	1:G:1119:LYS:HD2	2.08	0.52
1:G:1349:THR:HG22	1:G:1350:SER:N	2.23	0.52
1:G:1532:THR:OG1	1:G:1535:ASP:CB	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1067:LEU:HD11	1:A:1073:THR:OG1	2.09	0.52
1:A:1370:THR:O	1:A:1371:THR:CB	2.58	0.52
1:A:1381:GLY:O	1:A:1382:ALA:HB2	2.09	0.52
1:A:1657:HIS:NE2	1:A:1659:ASP:OD2	2.40	0.52
1:A:677:TYR:HA	1:A:702:LYS:O	2.10	0.52
1:A:696:LEU:CD2	1:A:696:LEU:H	2.23	0.52
1:D:1084:VAL:C	1:D:1086:ASP:N	2.56	0.52
1:D:1122:ILE:O	1:D:1122:ILE:HG13	2.09	0.52
1:D:1253:GLY:O	1:D:1254:VAL:C	2.48	0.52
1:D:1326:ILE:CD1	1:D:1326:ILE:N	2.72	0.52
1:D:1659:ASP:C	1:D:1661:LEU:N	2.61	0.52
1:D:443:UNK:CB	1:D:731:THR:HA	2.40	0.52
1:D:1455:ARG:C	1:D:1457:ALA:H	2.13	0.52
1:A:1455:ARG:C	1:A:1457:ALA:H	2.13	0.52
2:B:260:PRO:HG3	2:B:292:PHE:CB	2.35	0.52
2:E:1738:PHE:HB3	2:E:1739:GLU:OE2	2.09	0.52
2:E:1785:GLU:O	2:E:1788:ALA:HB3	2.08	0.52
2:B:1737:ILE:HD12	2:B:1755:ILE:HD12	1.91	0.52
2:H:1753:LYS:C	2:H:1755:ILE:H	2.12	0.52
2:H:53:GLU:HB3	2:H:56:THR:OG1	2.10	0.52
2:H:1264:UNK:C	2:H:1266:UNK:N	2.69	0.52
2:B:390:ASN:C	2:B:393:LEU:HB3	2.30	0.52
2:H:1931:LEU:HA	2:H:1934:GLU:HB3	1.90	0.52
1:G:917:CYS:SG	1:G:922:VAL:CG2	2.97	0.52
1:G:940:THR:O	1:G:943:LEU:HB2	2.10	0.52
1:A:940:THR:O	1:A:943:LEU:HB2	2.10	0.52
2:E:1917:ILE:CG2	2:E:1918:LYS:H	2.15	0.52
1:D:490:UNK:O	1:D:493:UNK:N	2.43	0.52
2:H:1917:ILE:CG2	2:H:1918:LYS:H	2.17	0.52
2:E:678:UNK:O	2:E:679:UNK:C	2.57	0.52
2:H:841:UNK:C	2:H:843:UNK:N	2.70	0.52
2:E:841:UNK:C	2:E:843:UNK:N	2.70	0.52
1:D:386:UNK:C	1:D:388:UNK:N	2.72	0.52
2:B:1458:UNK:C	2:B:1460:UNK:N	2.69	0.52
2:B:147:ARG:O	2:B:148:ALA:C	2.47	0.52
1:D:537:UNK:CB	1:D:585:UNK:CB	2.88	0.52
2:H:1208:UNK:O	2:H:1209:UNK:CB	2.57	0.52
2:B:1208:UNK:O	2:B:1209:UNK:CB	2.57	0.52
2:E:1441:UNK:C	2:E:1443:UNK:N	2.71	0.52
2:H:1246:UNK:O	2:H:1247:UNK:C	2.57	0.52
2:E:1341:UNK:O	2:E:1342:UNK:CB	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:809:UNK:O	2:B:811:UNK:N	2.43	0.52
1:G:1544:THR:O	1:G:1545:SER:HB3	2.10	0.52
1:G:1558:ASN:C	1:G:1560:MET:N	2.63	0.52
1:G:1562:LYS:NZ	1:G:1621:PHE:HZ	2.08	0.52
1:G:1577:GLN:OE1	1:G:1592:MET:HA	2.10	0.52
1:A:1035:THR:O	1:A:1038:GLU:HB2	2.10	0.52
1:A:1426:LEU:HD12	1:A:1427:THR:CG2	2.40	0.52
1:A:1711:GLU:CG	1:A:1715:TYR:HE1	2.09	0.52
1:D:1215:VAL:HG11	1:D:1283:MET:CG	2.39	0.52
1:D:1219:VAL:HG23	1:D:1328:ILE:CD1	2.40	0.52
1:D:1430:ARG:HH21	1:D:1560:MET:CE	2.22	0.52
1:D:1519:ILE:C	1:D:1519:ILE:HD13	2.29	0.52
1:D:747:ALA:O	1:D:750:GLU:HB3	2.10	0.52
1:D:904:ASN:O	1:D:905:LEU:C	2.47	0.52
1:D:1455:ARG:HG3	1:D:1455:ARG:NH1	2.23	0.52
1:A:1448:ARG:O	1:A:1451:GLN:HB3	2.10	0.52
2:H:386:LEU:O	2:H:389:LEU:HB3	2.09	0.52
2:H:480:VAL:HG13	2:H:484:ILE:HD11	1.92	0.52
2:H:489:LYS:O	2:H:491:GLU:N	2.43	0.52
2:E:240:LEU:O	2:E:243:VAL:HB	2.09	0.52
2:E:260:PRO:HG3	2:E:292:PHE:CB	2.35	0.52
2:B:184:VAL:C	2:B:186:ASP:N	2.61	0.52
2:E:1740:THR:HB	2:E:1751:ILE:HG13	1.90	0.52
2:E:1827:LEU:O	2:E:1830:VAL:HG12	2.10	0.52
2:H:1672:GLN:HB2	2:H:1676:MET:HE1	1.91	0.52
2:H:122:LEU:C	2:H:122:LEU:HD23	2.29	0.52
2:B:41:LEU:HD13	2:B:46:GLU:HA	1.91	0.52
2:B:79:GLN:HB3	2:B:80:PHE:HD1	1.74	0.52
1:G:786:SER:O	1:G:787:LYS:C	2.49	0.52
2:E:2020:UNK:O	2:E:2021:UNK:C	2.58	0.52
2:E:390:ASN:O	2:E:394:ARG:HG3	2.10	0.52
2:H:91:PHE:C	2:H:93:ASN:H	2.13	0.52
2:B:1614:UNK:CB	2:B:1650:UNK:HA	2.40	0.52
2:B:1642:UNK:O	2:B:1650:UNK:O	2.28	0.52
1:D:552:UNK:C	1:D:554:UNK:H	2.18	0.52
2:H:1961:UNK:O	2:H:1963:UNK:N	2.42	0.52
1:G:1173:LEU:O	1:G:1174:TYR:HB2	2.10	0.52
1:A:1169:LYS:NZ	1:A:1170:GLY:H	2.06	0.52
1:D:1172:THR:O	1:D:1172:THR:HG22	2.09	0.52
1:G:1082:GLU:CA	1:G:1085:ASP:OD1	2.58	0.52
1:G:1190:PRO:O	1:G:1191:THR:OG1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1426:LEU:HD12	1:G:1427:THR:CG2	2.40	0.52
1:G:1536:LEU:CB	1:G:1638:ALA:HB3	2.39	0.52
1:G:1554:SER:CB	1:G:1623:TYR:OH	2.57	0.52
1:A:1290:LEU:O	1:A:1291:LEU:HB2	2.09	0.52
1:A:1425:ILE:O	1:A:1426:LEU:CB	2.58	0.52
1:A:1605:ILE:HG13	1:A:1628:SER:CB	2.39	0.52
1:D:1031:GLY:O	1:D:1032:SER:C	2.48	0.52
1:D:1094:GLU:HG3	1:D:1095:THR:N	2.25	0.52
1:D:1377:MET:O	1:D:1378:GLU:O	2.27	0.52
1:D:1534:ASP:O	1:D:1566:ARG:NE	2.37	0.52
2:H:145:LEU:HD21	2:H:544:LYS:HG2	1.91	0.52
1:G:1449:LYS:O	1:G:1453:VAL:HG23	2.10	0.52
2:E:1753:LYS:C	2:E:1755:ILE:H	2.12	0.52
2:E:1809:LEU:O	2:E:1811:GLU:N	2.43	0.52
2:B:1739:GLU:O	2:B:1741:ILE:HG13	2.10	0.52
1:A:1342:GLU:O	1:A:1346:MET:HB2	2.09	0.52
2:B:60:LEU:HD12	2:B:60:LEU:H	1.75	0.52
1:G:680:ILE:HD11	1:G:703:VAL:HG13	1.91	0.52
1:G:1741:LYS:C	1:G:1743:SER:H	2.12	0.52
2:E:1182:UNK:O	2:E:1183:UNK:O	2.28	0.52
1:A:1491:ARG:C	1:A:1493:ILE:N	2.63	0.52
1:A:1741:LYS:HZ1	1:A:1744:TYR:HD2	1.58	0.52
2:H:1883:GLY:HA2	2:H:1894:GLU:HG2	1.92	0.52
1:A:952:GLU:O	1:A:956:ALA:HB2	2.10	0.52
1:G:957:VAL:HG12	1:G:961:THR:OG1	2.10	0.52
2:H:1207:UNK:O	2:H:1208:UNK:CB	2.58	0.52
1:G:580:UNK:O	1:G:581:UNK:C	2.58	0.52
3:C:49:UNK:O	3:C:50:UNK:CB	2.57	0.52
2:E:402:LEU:HD22	2:E:405:SER:OG	2.10	0.52
2:H:1551:UNK:O	2:H:1552:UNK:C	2.57	0.52
1:D:1151:LYS:O	1:D:1152:VAL:O	2.28	0.52
1:G:1189:ILE:CG2	1:G:1190:PRO:CD	2.72	0.52
1:G:1221:GLU:HA	1:G:1224:ILE:CG2	2.40	0.52
1:G:1249:SER:OG	1:G:1250:GLY:N	2.43	0.52
1:G:1245:ASN:ND2	1:G:1288:ASN:ND2	2.57	0.52
1:G:1299:LYS:HZ3	1:G:1323:LYS:NZ	2.05	0.52
1:G:1562:LYS:CE	1:G:1621:PHE:HZ	2.23	0.52
1:G:1030:TRP:CE2	1:G:1580:LEU:HD11	2.45	0.52
1:G:1641:ILE:HD11	1:G:1653:ALA:O	2.10	0.52
1:A:1430:ARG:HH21	1:A:1560:MET:CE	2.23	0.52
1:A:1534:ASP:O	1:A:1566:ARG:NE	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:693:LEU:HG	1:A:697:LEU:HD12	1.92	0.52
1:A:803:MET:CE	1:A:822:VAL:HG11	2.38	0.52
1:D:1022:THR:O	1:D:1401:TYR:CE2	2.62	0.52
1:D:1654:ILE:HG12	1:D:1655:VAL:N	2.25	0.52
1:A:1459:ILE:CG1	1:A:1460:LYS:N	2.73	0.52
2:H:338:MET:N	2:H:386:LEU:CD1	2.73	0.52
2:B:306:ILE:HG22	2:B:310:CYS:SG	2.49	0.52
2:B:525:VAL:O	2:B:525:VAL:HG12	2.10	0.52
2:B:1792:LEU:HA	2:B:1797:LEU:CD1	2.40	0.52
2:H:1673:GLU:N	2:H:1676:MET:HE1	2.23	0.52
2:H:1675:GLY:O	2:H:1678:MET:HG2	2.10	0.52
2:E:73:GLU:N	2:E:74:PRO:CD	2.73	0.52
1:D:1735:SER:C	1:D:1737:ASN:H	2.11	0.52
2:E:1888:ILE:HA	2:E:1891:TYR:CZ	2.45	0.52
2:H:390:ASN:O	2:H:394:ARG:HG3	2.10	0.52
1:G:586:UNK:C	1:G:588:UNK:N	2.72	0.52
2:B:1869:GLU:C	2:B:1871:LEU:N	2.61	0.52
2:H:2047:UNK:O	2:H:2049:UNK:N	2.42	0.52
2:B:1038:UNK:O	2:B:1040:UNK:N	2.43	0.52
1:G:520:UNK:C	1:G:522:UNK:H2	2.22	0.52
1:D:529:UNK:HA	1:D:532:UNK:CB	2.40	0.52
2:B:1557:UNK:O	2:B:1558:UNK:C	2.58	0.52
1:G:394:UNK:O	1:G:395:UNK:C	2.58	0.52
1:D:1513:TYR:HD1	1:D:1513:TYR:H	1.56	0.52
2:H:218:TRP:CZ2	2:H:226:PRO:HG2	2.45	0.52
3:F:45:UNK:O	3:F:46:UNK:CB	2.57	0.52
2:H:730:UNK:O	2:H:732:UNK:N	2.43	0.52
1:A:1153:ASP:C	1:A:1155:PHE:H	2.12	0.51
1:G:1057:MET:HE3	1:G:1193:TRP:O	2.10	0.51
1:G:1286:TRP:C	1:G:1288:ASN:N	2.63	0.51
1:G:1371:THR:O	1:G:1373:ARG:HG3	2.10	0.51
1:G:1604:ILE:HG23	1:G:1630:THR:CB	2.40	0.51
1:G:1658:PRO:O	1:G:1660:TYR:N	2.35	0.51
1:G:1729:GLY:O	1:G:1730:SER:HB3	2.08	0.51
1:A:1041:ALA:HB1	1:A:1042:PHE:CD1	2.45	0.51
1:A:1223:PHE:CD2	1:A:1386:ILE:HD13	2.45	0.51
1:A:680:ILE:HD12	1:A:704:VAL:O	2.10	0.51
1:D:1320:LEU:O	1:D:1321:SER:C	2.48	0.51
1:D:1329:VAL:CG1	1:D:1385:GLN:N	2.71	0.51
1:D:1562:LYS:NZ	1:D:1621:PHE:HZ	2.06	0.51
1:D:737:PHE:HE1	1:D:745:VAL:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:803:MET:HB3	1:D:862:LEU:HD11	1.90	0.51
2:B:370:LEU:HB3	2:B:372:ASN:OD1	2.09	0.51
2:E:1698:PHE:C	2:E:1700:ASP:H	2.12	0.51
2:E:1830:VAL:O	2:E:1833:TYR:N	2.43	0.51
1:A:1478:PRO:O	1:A:1479:SER:CB	2.58	0.51
2:B:1729:ILE:HG23	2:B:1730:ARG:N	2.12	0.51
2:H:1740:THR:HB	2:H:1751:ILE:HG13	1.92	0.51
2:H:1754:GLU:C	2:H:1756:ASN:N	2.63	0.51
1:A:1341:PHE:O	1:A:1342:GLU:CB	2.54	0.51
2:E:1887:GLU:CD	2:E:1888:ILE:H	2.13	0.51
1:D:666:UNK:O	1:D:667:UNK:C	2.58	0.51
1:G:666:UNK:O	1:G:667:UNK:C	2.59	0.51
2:B:1868:GLN:O	2:B:1872:GLN:HB2	2.10	0.51
2:B:390:ASN:HA	2:B:393:LEU:CB	2.35	0.51
2:B:1181:UNK:O	2:B:1182:UNK:CB	2.57	0.51
2:B:174:ARG:C	2:B:176:LEU:H	2.12	0.51
2:B:1415:UNK:O	2:B:1416:UNK:CB	2.58	0.51
2:H:676:UNK:O	2:H:677:UNK:C	2.57	0.51
2:H:1650:UNK:C	2:H:1652:UNK:N	2.72	0.51
2:E:753:UNK:O	2:E:754:UNK:C	2.58	0.51
2:B:843:UNK:O	2:B:845:UNK:N	2.43	0.51
2:H:703:UNK:C	2:H:705:UNK:N	2.71	0.51
2:H:304:PHE:O	2:H:308:VAL:HG23	2.09	0.51
1:G:561:UNK:O	1:G:564:UNK:N	2.43	0.51
3:C:37:UNK:O	3:C:39:UNK:N	2.42	0.51
1:A:1135:GLU:O	1:A:1136:ALA:HB3	2.10	0.51
1:A:601:UNK:CB	1:A:605:UNK:CB	2.88	0.51
2:B:232:LEU:O	2:B:232:LEU:HD23	2.10	0.51
2:B:887:UNK:O	2:B:888:UNK:CB	2.57	0.51
1:A:304:UNK:O	1:A:305:UNK:CB	2.58	0.51
1:G:1126:ILE:CG2	1:G:1177:LYS:HB3	2.40	0.51
1:A:1151:LYS:O	1:A:1152:VAL:C	2.48	0.51
1:D:1139:GLU:CG	1:D:1140:THR:N	2.72	0.51
1:G:1274:ILE:CG2	1:G:1275:LEU:N	2.73	0.51
1:G:610:UNK:CB	1:G:873:ARG:HE	2.23	0.51
1:A:1250:GLY:HA3	1:A:1333:ASP:OD2	2.10	0.51
1:A:1599:ILE:HG13	1:A:1600:LEU:N	2.25	0.51
1:A:1692:MET:CA	1:A:1697:LEU:HD11	2.38	0.51
1:D:1329:VAL:HG12	1:D:1385:GLN:O	2.10	0.51
1:D:1518:ARG:O	1:D:1519:ILE:HB	2.10	0.51
1:D:1332:TYR:CA	1:D:1587:ALA:HB2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1605:ILE:N	1:D:1605:ILE:HD13	2.25	0.51
1:D:1637:ARG:O	1:D:1656:VAL:HG23	2.09	0.51
1:D:1707:THR:O	1:D:1707:THR:OG1	2.22	0.51
1:D:882:ASN:C	1:D:883:ILE:HG13	2.30	0.51
1:A:1459:ILE:HG13	1:A:1460:LYS:N	2.25	0.51
2:H:187:LEU:HD22	2:H:296:VAL:HG11	1.91	0.51
2:H:514:VAL:O	2:H:517:HIS:N	2.43	0.51
2:B:240:LEU:CD1	2:B:240:LEU:H	2.23	0.51
2:B:437:ASP:O	2:B:440:ASN:HB2	2.10	0.51
2:E:1680:LEU:O	2:E:1681:TYR:C	2.48	0.51
2:E:1785:GLU:OE1	2:E:1813:ALA:HB1	2.10	0.51
1:A:1470:LEU:HD21	1:A:1485:PHE:HE2	1.75	0.51
2:B:1738:PHE:HB3	2:B:1739:GLU:OE2	2.10	0.51
2:H:1806:GLY:HA3	2:H:1811:GLU:HG2	1.92	0.51
2:B:70:SER:HB2	2:B:72:VAL:O	2.11	0.51
2:E:71:LEU:HD12	2:E:76:LYS:NZ	2.25	0.51
2:H:1871:LEU:HD23	2:H:1871:LEU:C	2.30	0.51
2:E:1878:VAL:CB	2:E:1898:TYR:HE1	2.21	0.51
1:A:832:THR:O	1:A:833:PHE:O	2.28	0.51
2:B:1041:UNK:O	2:B:1042:UNK:C	2.58	0.51
2:E:956:UNK:C	2:E:958:UNK:N	2.70	0.51
2:B:1883:GLY:HA2	2:B:1894:GLU:HG2	1.93	0.51
2:E:1542:UNK:O	2:E:1543:UNK:CB	2.58	0.51
2:E:578:UNK:O	2:E:580:UNK:N	2.44	0.51
2:B:699:UNK:O	2:B:702:UNK:N	2.44	0.51
2:E:1340:UNK:O	2:E:1341:UNK:C	2.58	0.51
2:E:1602:UNK:C	2:E:1604:UNK:N	2.70	0.51
3:C:27:UNK:C	3:C:29:UNK:N	2.71	0.51
2:B:1531:UNK:O	2:B:1532:UNK:CB	2.57	0.51
1:G:1021:VAL:HG11	1:G:1597:LEU:HD11	1.90	0.51
1:G:1541:PHE:HE2	1:G:1554:SER:OG	1.94	0.51
1:G:1584:PRO:O	1:G:1584:PRO:HG2	2.11	0.51
1:G:1706:TYR:N	1:G:1706:TYR:HD1	2.09	0.51
1:A:1074:GLY:O	1:A:1075:TRP:HB3	2.10	0.51
1:A:1423:LYS:HG2	1:A:1424:GLY:N	2.25	0.51
1:A:1589:GLY:HA2	1:A:1592:MET:HE2	1.92	0.51
1:D:1250:GLY:HA3	1:D:1333:ASP:OD2	2.11	0.51
1:D:1286:TRP:C	1:D:1288:ASN:N	2.62	0.51
1:D:1370:THR:H	1:D:1547:LYS:CD	2.21	0.51
1:D:1370:THR:O	1:D:1371:THR:CB	2.59	0.51
1:D:1423:LYS:HG2	1:D:1424:GLY:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:693:LEU:C	1:D:695:GLY:N	2.63	0.51
2:H:244:ILE:HG22	2:H:248:HIS:CD2	2.45	0.51
2:E:248:HIS:HE1	2:E:530:ALA:HB2	1.75	0.51
2:B:183:LEU:O	2:B:184:VAL:HB	2.09	0.51
2:B:240:LEU:O	2:B:243:VAL:HB	2.10	0.51
2:B:264:ARG:HD3	2:B:286:THR:O	2.09	0.51
2:B:249:TYR:CE2	2:B:283:ILE:HG23	2.45	0.51
2:B:304:PHE:O	2:B:308:VAL:HG23	2.10	0.51
2:B:522:GLY:HA2	2:B:555:UNK:O	2.10	0.51
1:D:1478:PRO:O	1:D:1479:SER:CB	2.59	0.51
1:G:679:LEU:HD21	1:G:802:MET:CE	2.41	0.51
2:E:1264:UNK:C	2:E:1266:UNK:N	2.69	0.51
2:E:41:LEU:O	2:E:45:THR:HA	2.10	0.51
1:D:1735:SER:O	1:D:1737:ASN:N	2.43	0.51
2:H:408:PRO:HG2	2:H:409:PHE:N	2.25	0.51
2:H:1857:ILE:HG12	2:H:1949:UNK:CB	2.40	0.51
1:D:586:UNK:C	1:D:588:UNK:N	2.71	0.51
2:H:1038:UNK:O	2:H:1040:UNK:N	2.43	0.51
1:D:774:ILE:CD1	1:D:775:PRO:HD2	2.38	0.51
1:D:928:GLY:C	1:D:930:LEU:N	2.60	0.51
2:B:2040:UNK:O	2:B:2042:UNK:N	2.43	0.51
1:A:890:LYS:C	1:A:892:GLY:H	2.13	0.51
2:E:765:UNK:C	2:E:767:UNK:N	2.69	0.51
2:H:765:UNK:C	2:H:767:UNK:N	2.68	0.51
2:H:1169:UNK:C	2:H:1171:UNK:N	2.69	0.51
2:E:1850:SER:C	2:E:1852:TYR:H	2.14	0.51
1:A:281:UNK:C	1:A:283:UNK:N	2.72	0.51
1:G:1826:UNK:O	1:G:1827:UNK:CB	2.58	0.51
2:B:1441:UNK:C	2:B:1443:UNK:N	2.73	0.51
2:B:730:UNK:O	2:B:732:UNK:N	2.44	0.51
2:B:1644:UNK:C	2:B:1646:UNK:N	2.70	0.51
1:G:1139:GLU:CG	1:G:1140:THR:N	2.73	0.51
1:A:1151:LYS:O	1:A:1152:VAL:O	2.28	0.51
1:A:1161:GLY:O	1:A:1164:SER:HB3	2.10	0.51
1:G:1423:LYS:HG2	1:G:1424:GLY:N	2.25	0.51
1:G:1532:THR:O	1:G:1533:ILE:C	2.48	0.51
1:G:1430:ARG:HH21	1:G:1560:MET:CE	2.24	0.51
1:A:1353:LEU:CA	1:A:1356:PHE:CB	2.88	0.51
1:A:1373:ARG:HG2	1:A:1547:LYS:HB3	1.92	0.51
1:A:1544:THR:O	1:A:1545:SER:HB3	2.10	0.51
1:A:1687:PHE:O	1:A:1690:ASN:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1371:THR:C	1:D:1373:ARG:H	2.13	0.51
1:D:1426:LEU:CD1	1:D:1427:THR:HG23	2.39	0.51
1:D:1604:ILE:HG23	1:D:1630:THR:CB	2.39	0.51
1:D:826:MET:HA	1:D:826:MET:HE3	1.93	0.51
1:D:912:GLU:O	1:D:913:VAL:C	2.48	0.51
1:G:1455:ARG:C	1:G:1457:ALA:H	2.13	0.51
2:B:99:ASN:O	2:B:100:ASP:HB3	2.11	0.51
2:B:192:ALA:O	2:B:193:GLU:C	2.48	0.51
2:B:253:ALA:O	2:B:255:LEU:N	2.44	0.51
2:E:1837:THR:C	2:E:1839:GLN:H	2.13	0.51
2:B:1754:GLU:C	2:B:1756:ASN:N	2.62	0.51
2:H:71:LEU:HD12	2:H:76:LYS:NZ	2.26	0.51
1:G:796:LEU:HG	1:G:797:THR:N	2.22	0.51
1:D:917:CYS:HA	1:D:920:SER:O	2.10	0.51
1:D:917:CYS:SG	1:D:922:VAL:CG2	2.98	0.51
2:H:895:UNK:O	2:H:898:UNK:N	2.43	0.51
2:E:1986:UNK:C	2:E:1988:UNK:H	2.22	0.51
2:B:1573:UNK:C	2:B:1575:UNK:N	2.72	0.51
2:E:132:MET:O	2:E:133:ALA:CB	2.58	0.51
1:D:1571:PRO:O	1:D:1572:VAL:C	2.49	0.51
1:G:601:UNK:CB	1:G:605:UNK:CB	2.88	0.51
2:E:730:UNK:O	2:E:732:UNK:N	2.44	0.51
1:D:304:UNK:O	1:D:305:UNK:CB	2.58	0.51
2:E:668:UNK:O	2:E:669:UNK:CB	2.58	0.51
2:H:809:UNK:O	2:H:811:UNK:N	2.43	0.51
2:H:1275:UNK:O	2:H:1276:UNK:C	2.57	0.51
2:B:735:UNK:C	2:B:737:UNK:N	2.70	0.51
1:G:1131:LEU:CA	1:G:1173:LEU:HD22	2.40	0.51
1:A:1159:GLU:O	1:A:1166:LYS:HB3	2.10	0.51
1:D:1146:HIS:O	1:D:1148:HIS:N	2.44	0.51
1:G:1540:SER:OG	1:G:1592:MET:HB3	2.10	0.51
1:G:1654:ILE:HG12	1:G:1655:VAL:N	2.24	0.51
1:A:1325:ARG:O	1:A:1326:ILE:HB	2.10	0.51
1:A:1367:ARG:NH1	1:A:1372:THR:HG21	2.26	0.51
1:A:1688:PHE:O	1:A:1689:HIS:C	2.49	0.51
1:D:1119:LYS:HE3	1:D:1121:MET:CG	2.41	0.51
1:D:1187:GLY:CA	1:D:1188:GLN:NE2	2.74	0.51
1:D:1519:ILE:HD11	1:D:1521:PRO:HD2	1.92	0.51
1:D:1397:GLY:H	1:D:1676:LYS:CB	2.23	0.51
1:D:864:VAL:O	1:D:865:CYS:HB2	2.10	0.51
1:D:882:ASN:O	1:D:883:ILE:HG13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:259:THR:CG2	2:H:260:PRO:HD2	2.35	0.51
2:H:271:THR:HG23	2:H:460:TYR:O	2.10	0.51
2:E:158:ALA:H	2:E:270:ALA:H	1.57	0.51
1:G:1456:GLU:N	1:G:1459:ILE:HG12	2.23	0.51
2:E:349:VAL:HG21	2:E:377:LEU:CD1	2.33	0.51
2:H:1773:ALA:C	2:H:1775:GLN:N	2.64	0.51
2:H:49:ALA:CA	2:H:118:LYS:HZ2	2.21	0.51
2:H:55:THR:O	2:H:55:THR:HG22	2.10	0.51
2:H:73:GLU:N	2:H:74:PRO:CD	2.74	0.51
1:G:681:THR:HA	1:G:706:THR:HG21	1.92	0.51
1:G:747:ALA:O	1:G:751:PHE:N	2.37	0.51
2:E:19:VAL:O	2:E:19:VAL:HG12	2.10	0.51
1:A:586:UNK:C	1:A:588:UNK:N	2.71	0.51
1:A:521:UNK:O	1:A:522:UNK:C	2.59	0.51
2:B:2033:UNK:C	2:B:2035:UNK:N	2.72	0.51
2:B:27:PHE:O	2:B:30:ALA:HB3	2.09	0.51
2:B:615:UNK:O	2:B:617:UNK:N	2.43	0.51
2:H:615:UNK:O	2:H:617:UNK:N	2.43	0.51
2:B:703:UNK:O	2:B:707:UNK:N	2.44	0.51
2:E:703:UNK:O	2:E:707:UNK:N	2.44	0.51
2:E:232:LEU:HD23	2:E:232:LEU:O	2.11	0.51
2:E:809:UNK:O	2:E:811:UNK:N	2.43	0.51
1:D:1160:THR:CB	1:D:1166:LYS:HE3	2.39	0.51
1:G:1079:LYS:C	1:G:1080:THR:HG1	2.13	0.51
1:G:1080:THR:O	1:G:1082:GLU:N	2.44	0.51
1:G:1219:VAL:HG23	1:G:1328:ILE:CD1	2.40	0.51
1:G:1224:ILE:HD13	1:G:1687:PHE:CD2	2.46	0.51
1:G:1215:VAL:HG11	1:G:1283:MET:CG	2.40	0.51
1:G:1546:THR:CG2	1:G:1549:ASN:HB3	2.40	0.51
1:G:1605:ILE:HG13	1:G:1628:SER:CB	2.40	0.51
1:A:1080:THR:O	1:A:1082:GLU:N	2.43	0.51
1:A:1353:LEU:HA	1:A:1356:PHE:CB	2.40	0.51
1:A:1532:THR:O	1:A:1533:ILE:C	2.48	0.51
1:A:1590:ALA:O	1:A:1593:MET:HB3	2.09	0.51
1:A:1616:LYS:O	1:A:1618:LEU:N	2.43	0.51
1:A:696:LEU:HD23	1:A:696:LEU:H	1.75	0.51
1:A:679:LEU:HA	1:A:704:VAL:O	2.11	0.51
1:D:1100:HIS:O	1:D:1103:ILE:HB	2.11	0.51
1:D:1580:LEU:C	1:D:1581:THR:OG1	2.49	0.51
1:D:742:LYS:HB2	1:D:746:GLU:HG3	1.92	0.51
1:D:910:THR:HG22	1:D:913:VAL:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:240:LEU:CD1	2:H:240:LEU:H	2.22	0.51
2:H:440:ASN:O	2:H:443:LEU:HB2	2.10	0.51
2:B:490:TRP:O	2:B:493:THR:N	2.44	0.51
1:D:1475:GLU:O	1:D:1478:PRO:HD2	2.09	0.51
2:E:338:MET:N	2:E:386:LEU:CD1	2.73	0.51
2:E:514:VAL:O	2:E:517:HIS:N	2.44	0.51
2:H:1837:THR:C	2:H:1839:GLN:H	2.14	0.51
1:D:1266:LYS:O	1:D:1267:ASP:C	2.48	0.51
2:H:14:GLY:HA3	2:H:18:HIS:HB2	1.92	0.51
1:A:1735:SER:C	1:A:1737:ASN:N	2.63	0.51
1:G:1665:ILE:HD12	1:G:1669:ARG:N	2.19	0.51
2:B:1182:UNK:O	2:B:1183:UNK:O	2.28	0.51
2:H:1853:GLY:O	2:H:1854:MET:HB3	2.10	0.51
1:G:774:ILE:HD13	1:G:775:PRO:HD2	1.91	0.51
1:G:377:UNK:O	1:G:380:UNK:CB	2.57	0.51
2:H:949:UNK:C	2:H:951:UNK:N	2.74	0.51
3:I:49:UNK:O	3:I:50:UNK:CB	2.59	0.51
1:G:1135:GLU:O	1:G:1136:ALA:HB3	2.11	0.51
2:E:1644:UNK:C	2:E:1646:UNK:N	2.72	0.51
2:H:230:TYR:C	2:H:232:LEU:N	2.63	0.51
2:B:1429:UNK:O	2:B:1430:UNK:C	2.57	0.51
1:G:1035:THR:O	1:G:1038:GLU:HB2	2.10	0.51
1:G:1065:GLY:C	1:G:1067:LEU:N	2.62	0.51
1:G:1119:LYS:O	1:G:1120:GLU:HB2	2.11	0.51
1:G:1187:GLY:C	1:G:1188:GLN:CD	2.69	0.51
1:G:1223:PHE:HE2	1:G:1386:ILE:CG2	2.12	0.51
1:G:1425:ILE:O	1:G:1426:LEU:CB	2.58	0.51
1:G:705:VAL:HG23	1:G:732:LEU:HD11	1.92	0.51
1:A:1055:TRP:HH2	1:A:1198:TYR:HD1	1.59	0.51
1:A:1083:PRO:HG2	1:A:1084:VAL:N	2.25	0.51
1:A:1522:LEU:HB3	1:A:1526:LEU:HD23	1.92	0.51
1:A:1541:PHE:CE2	1:A:1554:SER:OG	2.62	0.51
1:A:1597:LEU:H	1:A:1597:LEU:HD23	1.75	0.51
1:A:1700:SER:C	1:A:1701:LYS:HD3	2.31	0.51
1:A:747:ALA:O	1:A:750:GLU:HB3	2.11	0.51
1:D:1019:ILE:HG13	1:D:1316:VAL:CG2	2.37	0.51
1:D:1036:ARG:HH21	1:D:1040:GLU:CB	2.24	0.51
1:D:1089:VAL:C	1:D:1091:ALA:N	2.64	0.51
1:D:1197:THR:OG1	1:D:1200:ILE:HG22	2.09	0.51
1:D:1239:HIS:C	1:D:1241:SER:N	2.60	0.51
1:D:1241:SER:C	1:D:1243:VAL:N	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1652:GLN:CD	1:D:1653:ALA:N	2.64	0.51
1:D:1224:ILE:CD1	1:D:1687:PHE:HD2	2.24	0.51
1:D:786:SER:O	1:D:787:LYS:C	2.49	0.51
2:E:264:ARG:HB2	2:E:284:ALA:O	2.10	0.51
2:E:1786:LYS:O	2:E:1787:ALA:C	2.49	0.51
2:B:1680:LEU:O	2:B:1681:TYR:C	2.49	0.51
2:B:1718:THR:HG23	2:B:1765:ARG:CA	2.40	0.51
2:B:1773:ALA:C	2:B:1775:GLN:N	2.64	0.51
2:B:1837:THR:C	2:B:1839:GLN:H	2.14	0.51
2:H:1698:PHE:O	2:H:1700:ASP:N	2.43	0.51
2:H:1715:VAL:CA	2:H:1718:THR:HG22	2.40	0.51
1:G:791:ALA:HA	1:G:794:ILE:CG2	2.39	0.51
2:E:57:PRO:C	2:E:59:GLU:N	2.63	0.51
2:E:91:PHE:C	2:E:93:ASN:H	2.13	0.51
2:B:924:UNK:O	2:B:925:UNK:C	2.58	0.51
2:H:1986:UNK:C	2:H:1988:UNK:H	2.23	0.51
2:E:646:UNK:O	2:E:648:UNK:N	2.43	0.51
1:D:460:UNK:C	1:D:462:UNK:N	2.71	0.51
1:A:1569:GLY:C	1:A:1571:PRO:HD3	2.31	0.51
1:A:1571:PRO:O	1:A:1572:VAL:C	2.49	0.51
2:E:1061:UNK:C	2:E:1063:UNK:N	2.73	0.51
1:G:1172:THR:O	1:G:1172:THR:HG22	2.11	0.51
2:H:876:UNK:O	2:H:877:UNK:CB	2.59	0.51
1:G:984:PRO:O	1:G:985:ARG:O	2.28	0.51
1:D:1868:UNK:CB	1:D:1885:UNK:HA	2.40	0.51
1:A:1284:SER:CB	1:A:1298:ILE:HD11	2.41	0.51
1:G:1131:LEU:CB	1:G:1133:PRO:HD3	2.31	0.51
1:G:1159:GLU:O	1:G:1166:LYS:HB3	2.10	0.51
1:G:1100:HIS:C	1:G:1102:GLY:N	2.63	0.51
1:G:1320:LEU:O	1:G:1321:SER:C	2.46	0.51
1:G:1539:ALA:O	1:G:1575:VAL:HG23	2.11	0.51
1:G:695:GLY:O	1:G:697:LEU:N	2.43	0.51
1:A:1329:VAL:HG12	1:A:1385:GLN:O	2.10	0.51
1:A:1390:ALA:O	1:A:1393:ALA:HB3	2.11	0.51
1:A:1640:SER:H	1:A:1654:ILE:HG13	1.75	0.51
1:A:1646:PHE:C	1:A:1648:GLN:N	2.64	0.51
1:A:1640:SER:CB	1:A:1654:ILE:HB	2.41	0.51
1:D:1025:ALA:CB	1:D:1221:GLU:HB3	2.41	0.51
1:D:1080:THR:O	1:D:1082:GLU:N	2.44	0.51
1:D:1119:LYS:O	1:D:1119:LYS:HD2	2.10	0.51
1:D:1260:MET:HB3	1:D:1261:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1359:GLY:O	1:D:1360:ARG:O	2.28	0.51
1:D:1692:MET:CA	1:D:1697:LEU:HD11	2.39	0.51
2:H:261:GLY:HA2	2:H:264:ARG:CD	2.40	0.51
2:H:281:VAL:HG12	2:H:282:ALA:N	2.26	0.51
2:H:292:PHE:O	2:H:296:VAL:HG23	2.11	0.51
2:E:304:PHE:O	2:E:308:VAL:HG23	2.11	0.51
1:G:1009:LEU:H	1:G:1009:LEU:CD1	2.24	0.51
1:G:1456:GLU:N	1:G:1459:ILE:CG1	2.69	0.51
2:B:264:ARG:HB2	2:B:284:ALA:O	2.11	0.51
2:B:339:LEU:HB2	2:B:420:PHE:CE1	2.45	0.51
2:B:514:VAL:O	2:B:517:HIS:N	2.44	0.51
2:E:1737:ILE:HG23	2:E:1755:ILE:HG21	1.92	0.51
1:A:1476:GLU:C	1:A:1478:PRO:HD2	2.32	0.51
2:H:1691:TRP:CE3	2:H:1783:LEU:HD13	2.46	0.51
2:H:1742:VAL:HG21	2:H:1840:VAL:HG22	1.93	0.51
1:A:1266:LYS:O	1:A:1267:ASP:C	2.48	0.51
2:E:41:LEU:HD13	2:E:46:GLU:HA	1.91	0.51
2:H:1888:ILE:O	2:H:1891:TYR:HE1	1.94	0.51
2:B:1887:GLU:CD	2:B:1888:ILE:H	2.13	0.51
2:H:1904:LEU:O	2:H:1907:LEU:HG	2.11	0.51
1:G:830:HIS:N	1:G:830:HIS:CD2	2.71	0.51
2:E:1884:TRP:N	2:E:1892:ASN:HB2	2.22	0.51
1:D:398:UNK:O	1:D:400:UNK:N	2.43	0.51
1:D:944:ARG:O	1:D:948:VAL:N	2.40	0.51
2:B:668:UNK:O	2:B:669:UNK:CB	2.58	0.51
1:D:1173:LEU:O	1:D:1174:TYR:HB2	2.10	0.51
1:G:1085:ASP:O	1:G:1086:ASP:C	2.49	0.51
1:G:1186:ALA:HB1	1:G:1349:THR:HG21	1.93	0.51
1:G:910:THR:HG23	1:G:913:VAL:HG23	1.93	0.51
1:A:1100:HIS:O	1:A:1103:ILE:HB	2.11	0.51
1:A:1320:LEU:CG	1:A:1321:SER:N	2.73	0.51
1:A:1246:CYS:HA	1:A:1327:CYS:SG	2.51	0.51
1:A:1392:LEU:N	1:A:1392:LEU:HD22	2.22	0.51
1:A:1639:VAL:HG23	1:A:1640:SER:N	2.24	0.51
1:A:1681:GLU:O	1:A:1682:LYS:HB2	2.11	0.51
1:A:1692:MET:N	1:A:1697:LEU:HD11	2.25	0.51
1:A:796:LEU:HD12	1:A:800:LEU:HD21	1.93	0.51
1:A:911:PRO:O	1:A:912:GLU:CB	2.56	0.51
1:D:1035:THR:CG2	1:D:1053:MET:SD	2.96	0.51
1:D:1085:ASP:O	1:D:1086:ASP:C	2.49	0.51
1:D:1325:ARG:O	1:D:1326:ILE:HB	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1244:GLY:O	1:D:1327:CYS:HA	2.11	0.51
1:D:1021:VAL:HG11	1:D:1597:LEU:HD11	1.92	0.51
1:D:1605:ILE:CG1	1:D:1628:SER:HB3	2.41	0.51
1:G:1448:ARG:O	1:G:1451:GLN:HB3	2.11	0.51
2:B:239:PRO:HG2	2:B:240:LEU:H	1.75	0.51
2:B:267:LEU:O	2:B:268:LYS:CB	2.59	0.51
2:B:271:THR:HG23	2:B:460:TYR:O	2.11	0.51
2:B:309:ARG:CG	2:B:439:ILE:HG22	2.40	0.51
2:E:1715:VAL:CA	2:E:1718:THR:HG22	2.41	0.51
2:E:1739:GLU:O	2:E:1741:ILE:HG13	2.11	0.51
2:B:1738:PHE:HB2	2:B:1755:ILE:HB	1.93	0.51
2:B:1762:TYR:C	2:B:1763:THR:HG1	2.10	0.51
2:H:1764:PHE:O	2:H:1765:ARG:CB	2.59	0.51
1:G:1264:ARG:O	1:G:1265:PHE:C	2.50	0.51
1:G:780:GLU:O	1:G:781:LEU:C	2.50	0.51
2:E:1874:VAL:HG12	2:E:1878:VAL:CG2	2.41	0.51
2:H:91:PHE:CE2	2:H:101:ILE:HD11	2.45	0.51
2:E:2047:UNK:O	2:E:2049:UNK:N	2.42	0.51
1:D:520:UNK:C	1:D:522:UNK:H2	2.22	0.51
1:A:574:UNK:O	1:A:577:UNK:N	2.44	0.51
1:A:388:UNK:O	1:A:389:UNK:C	2.59	0.51
2:E:321:PRO:C	2:E:323:ILE:N	2.64	0.51
1:D:381:UNK:O	1:D:382:UNK:C	2.57	0.51
2:H:813:UNK:C	2:H:815:UNK:N	2.74	0.51
2:E:1295:UNK:O	2:E:1299:UNK:N	2.44	0.51
2:B:753:UNK:O	2:B:754:UNK:C	2.59	0.51
1:A:460:UNK:O	1:A:462:UNK:N	2.44	0.51
2:H:875:UNK:O	2:H:876:UNK:CB	2.59	0.51
1:G:304:UNK:O	1:G:305:UNK:CB	2.58	0.51
1:G:1868:UNK:CB	1:G:1885:UNK:HA	2.41	0.51
1:A:1868:UNK:CB	1:A:1885:UNK:HA	2.40	0.51
1:G:278:UNK:O	1:G:279:UNK:CB	2.59	0.51
1:G:1142:GLU:H	1:G:1144:PHE:HE1	1.59	0.51
1:G:1146:HIS:O	1:G:1147:GLN:C	2.50	0.51
1:G:1197:THR:CA	1:G:1200:ILE:HG22	2.40	0.51
1:G:901:MET:CE	1:G:905:LEU:CD2	2.89	0.51
1:A:1085:ASP:O	1:A:1086:ASP:C	2.50	0.51
1:A:1112:ASN:ND2	1:A:1119:LYS:HA	2.26	0.51
1:A:1329:VAL:CG1	1:A:1330:GLY:N	2.65	0.51
1:A:742:LYS:O	1:A:744:ASP:N	2.43	0.51
1:D:1223:PHE:CD2	1:D:1386:ILE:HD13	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:695:GLY:O	1:D:697:LEU:N	2.44	0.51
1:D:719:GLN:CG	1:D:720:SER:N	2.70	0.51
1:D:791:ALA:HA	1:D:794:ILE:CG2	2.37	0.51
1:D:1448:ARG:O	1:D:1451:GLN:HB3	2.11	0.51
1:A:1449:LYS:O	1:A:1453:VAL:HG23	2.11	0.51
2:H:192:ALA:O	2:H:193:GLU:C	2.49	0.51
2:E:213:LEU:HD11	2:E:215:ILE:HD11	1.92	0.51
2:E:244:ILE:HG22	2:E:248:HIS:CD2	2.46	0.51
2:E:1706:ILE:HD13	2:E:1783:LEU:HD12	1.92	0.51
2:E:1738:PHE:HB2	2:E:1755:ILE:HB	1.93	0.51
2:H:1740:THR:C	2:H:1741:ILE:HG13	2.29	0.51
1:G:791:ALA:O	1:G:794:ILE:N	2.44	0.51
1:D:810:LYS:O	1:D:812:ALA:N	2.44	0.51
1:G:1717:ASP:C	1:G:1719:LEU:H	2.14	0.51
2:E:390:ASN:C	2:E:393:LEU:HB3	2.31	0.51
1:G:529:UNK:HA	1:G:532:UNK:CB	2.41	0.51
2:B:1149:UNK:C	2:B:1151:UNK:N	2.74	0.51
2:E:1853:GLY:O	2:E:1854:MET:HB3	2.11	0.51
2:B:895:UNK:O	2:B:898:UNK:N	2.43	0.51
1:G:952:GLU:O	1:G:956:ALA:HB2	2.11	0.51
1:A:398:UNK:O	1:A:400:UNK:N	2.44	0.51
2:E:1051:UNK:O	2:E:1053:UNK:N	2.44	0.51
1:G:1569:GLY:C	1:G:1571:PRO:HD3	2.31	0.51
2:H:1137:UNK:O	2:H:1139:UNK:N	2.44	0.51
2:B:587:UNK:O	2:B:784:UNK:CB	2.58	0.51
1:A:1130:ASP:HB2	1:A:1174:TYR:N	2.21	0.50
1:D:1156:GLU:HG2	1:D:1169:LYS:HA	1.92	0.50
1:G:1035:THR:CG2	1:G:1053:MET:SD	2.97	0.50
1:G:1119:LYS:HE3	1:G:1121:MET:CG	2.40	0.50
1:G:1240:VAL:CG1	1:G:1242:GLU:HB3	2.41	0.50
1:G:1248:GLY:HA2	1:G:1330:GLY:HA3	1.92	0.50
1:G:1329:VAL:HG12	1:G:1385:GLN:O	2.11	0.50
1:G:1519:ILE:HD13	1:G:1519:ILE:C	2.31	0.50
1:G:1610:ASN:O	1:G:1611:ALA:O	2.28	0.50
1:G:691:GLU:OE2	1:G:900:GLU:HG2	2.11	0.50
1:A:1187:GLY:C	1:A:1188:GLN:CD	2.69	0.50
1:A:1197:THR:OG1	1:A:1200:ILE:HG22	2.11	0.50
1:A:1519:ILE:HD13	1:A:1519:ILE:C	2.31	0.50
1:A:1605:ILE:CG1	1:A:1606:PRO:HA	2.40	0.50
1:A:1610:ASN:O	1:A:1611:ALA:O	2.29	0.50
1:A:1625:LEU:HD11	1:A:1626:TYR:HD1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1729:GLY:O	1:A:1730:SER:HB3	2.10	0.50
1:A:737:PHE:HE1	1:A:745:VAL:HA	1.76	0.50
1:A:904:ASN:ND2	1:A:904:ASN:N	2.58	0.50
1:D:1041:ALA:HB1	1:D:1042:PHE:CD1	2.46	0.50
1:D:1045:PHE:O	1:D:1046:SER:O	2.29	0.50
1:D:1240:VAL:HG13	1:D:1242:GLU:HB2	1.93	0.50
1:D:1596:ALA:O	1:D:1597:LEU:C	2.47	0.50
1:D:1604:ILE:CG2	1:D:1605:ILE:H	2.04	0.50
1:D:1640:SER:H	1:D:1654:ILE:HG13	1.74	0.50
1:D:1639:VAL:HG21	1:D:1655:VAL:HG12	1.92	0.50
1:D:1692:MET:N	1:D:1697:LEU:HD11	2.26	0.50
1:D:680:ILE:HD11	1:D:703:VAL:CG1	2.41	0.50
1:D:691:GLU:OE2	1:D:900:GLU:HG2	2.11	0.50
1:A:1453:VAL:O	1:A:1457:ALA:HB2	2.11	0.50
2:H:240:LEU:O	2:H:243:VAL:HB	2.12	0.50
2:E:261:GLY:HA2	2:E:264:ARG:CD	2.40	0.50
2:B:159:ILE:HG22	2:B:160:PHE:N	2.26	0.50
2:B:429:SER:HB2	2:B:431:LEU:HD23	1.92	0.50
2:H:1738:PHE:HB2	2:H:1755:ILE:CG2	2.42	0.50
1:G:742:LYS:HB2	1:G:746:GLU:HG3	1.93	0.50
2:H:404:GLN:HA	2:H:408:PRO:HB3	1.91	0.50
1:A:1280:ILE:N	1:A:1280:ILE:CD1	2.58	0.50
2:B:1871:LEU:C	2:B:1871:LEU:HD23	2.31	0.50
2:E:1931:LEU:HA	2:E:1934:GLU:HB3	1.91	0.50
1:A:700:GLY:CA	1:A:727:ALA:HB3	2.38	0.50
1:D:829:ASN:HB3	1:D:832:THR:HG21	1.93	0.50
2:H:1924:ILE:C	2:H:1926:GLU:N	2.64	0.50
2:E:173:LEU:O	2:E:176:LEU:HB3	2.11	0.50
2:E:1883:GLY:HA2	2:E:1894:GLU:HG2	1.92	0.50
2:E:1557:UNK:O	2:E:1558:UNK:C	2.59	0.50
1:A:944:ARG:O	1:A:948:VAL:N	2.39	0.50
2:B:4:TYR:HD1	2:B:5:SER:H	1.59	0.50
2:E:1573:UNK:C	2:E:1575:UNK:N	2.72	0.50
2:B:753:UNK:O	2:B:754:UNK:O	2.29	0.50
2:H:703:UNK:O	2:H:707:UNK:N	2.44	0.50
1:D:565:UNK:C	1:D:567:UNK:N	2.72	0.50
1:D:625:UNK:O	1:D:626:UNK:C	2.59	0.50
2:B:1211:UNK:O	2:B:1212:UNK:CB	2.59	0.50
1:G:1067:LEU:HD11	1:G:1073:THR:OG1	2.11	0.50
1:G:1580:LEU:O	1:G:1581:THR:OG1	2.29	0.50
1:G:1637:ARG:O	1:G:1657:HIS:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:690:ALA:O	1:G:694:GLN:HG3	2.11	0.50
1:A:1371:THR:O	1:A:1373:ARG:HG3	2.12	0.50
1:A:901:MET:O	1:A:901:MET:HG2	2.09	0.50
1:D:1112:ASN:C	1:D:1114:TYR:N	2.55	0.50
1:D:1055:TRP:HH2	1:D:1198:TYR:HD1	1.56	0.50
1:D:1327:CYS:HB3	1:D:1387:ILE:HD11	1.92	0.50
1:D:1562:LYS:CE	1:D:1621:PHE:HZ	2.24	0.50
1:D:910:THR:HG23	1:D:913:VAL:HG23	1.93	0.50
2:E:184:VAL:HG22	2:E:184:VAL:O	2.11	0.50
2:E:192:ALA:O	2:E:193:GLU:C	2.49	0.50
2:E:267:LEU:O	2:E:268:LYS:CB	2.59	0.50
2:E:292:PHE:O	2:E:296:VAL:HG23	2.11	0.50
2:E:1737:ILE:O	2:E:1738:PHE:CB	2.59	0.50
2:E:375:LYS:CG	2:E:376:ASN:H	2.24	0.50
2:B:1742:VAL:HG21	2:B:1840:VAL:HG22	1.92	0.50
2:H:1707:LEU:O	2:H:1708:ASP:C	2.49	0.50
1:D:1264:ARG:O	1:D:1265:PHE:C	2.49	0.50
2:E:13:HIS:C	2:E:15:SER:N	2.65	0.50
1:A:1738:ILE:O	1:A:1739:GLN:CB	2.59	0.50
2:E:1871:LEU:C	2:E:1871:LEU:HD23	2.31	0.50
2:H:390:ASN:C	2:H:393:LEU:HB3	2.32	0.50
2:E:390:ASN:HA	2:E:393:LEU:CB	2.37	0.50
1:D:1665:ILE:HG22	1:D:1666:THR:N	2.26	0.50
2:E:1924:ILE:C	2:E:1926:GLU:N	2.65	0.50
1:D:1741:LYS:HA	1:D:1741:LYS:CE	2.42	0.50
1:A:644:UNK:C	1:A:646:UNK:N	2.67	0.50
2:B:321:PRO:O	2:B:323:ILE:N	2.44	0.50
1:A:381:UNK:O	1:A:382:UNK:C	2.58	0.50
2:E:753:UNK:O	2:E:754:UNK:O	2.30	0.50
2:B:646:UNK:O	2:B:648:UNK:N	2.44	0.50
1:D:890:LYS:C	1:D:892:GLY:H	2.14	0.50
2:B:1207:UNK:O	2:B:1208:UNK:CB	2.59	0.50
1:A:580:UNK:O	1:A:581:UNK:C	2.59	0.50
1:D:1306:ALA:HB2	1:D:1645:GLY:N	2.26	0.50
2:H:723:UNK:O	2:H:725:UNK:N	2.44	0.50
1:D:601:UNK:CB	1:D:605:UNK:CB	2.89	0.50
1:G:1292:ILE:HG13	1:G:1294:SER:HB2	1.93	0.50
1:G:1532:THR:OG1	1:G:1535:ASP:HB3	2.11	0.50
1:G:1541:PHE:CE2	1:G:1554:SER:OG	2.64	0.50
1:G:1639:VAL:HG23	1:G:1655:VAL:H	1.76	0.50
1:A:1029:PRO:CG	1:A:1581:THR:HG23	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1046:SER:O	1:A:1047:LEU:C	2.50	0.50
1:A:791:ALA:O	1:A:794:ILE:N	2.45	0.50
1:A:882:ASN:C	1:A:883:ILE:HG13	2.31	0.50
1:A:905:LEU:O	1:A:908:LEU:HB3	2.12	0.50
1:D:1207:GLN:NE2	1:D:1207:GLN:CA	2.75	0.50
1:D:1274:ILE:O	1:D:1276:GLN:N	2.44	0.50
1:D:446:UNK:CB	1:D:1619:GLU:OE2	2.59	0.50
1:D:693:LEU:HG	1:D:697:LEU:HD12	1.92	0.50
1:D:791:ALA:O	1:D:794:ILE:N	2.43	0.50
2:H:522:GLY:HA2	2:H:555:UNK:O	2.11	0.50
2:E:261:GLY:HA2	2:E:264:ARG:NE	2.27	0.50
2:E:489:LYS:O	2:E:491:GLU:N	2.44	0.50
2:B:273:HIS:O	2:B:276:GLY:N	2.43	0.50
2:B:528:ILE:CG2	2:B:529:VAL:N	2.74	0.50
2:E:375:LYS:O	2:E:377:LEU:HD12	2.12	0.50
2:H:1827:LEU:O	2:H:1830:VAL:HG12	2.11	0.50
1:G:679:LEU:CD1	1:G:679:LEU:O	2.59	0.50
2:E:14:GLY:HA3	2:E:18:HIS:HB2	1.93	0.50
1:G:808:LYS:O	1:G:812:ALA:N	2.38	0.50
2:B:199:ILE:HG12	2:B:200:ARG:N	2.26	0.50
2:H:393:LEU:HD21	2:H:418:ASN:HB3	1.93	0.50
1:A:829:ASN:HB3	1:A:832:THR:CB	2.42	0.50
1:D:832:THR:O	1:D:833:PHE:O	2.27	0.50
2:H:1379:UNK:CA	2:H:1426:UNK:HA	2.37	0.50
2:H:423:VAL:HG12	2:H:425:SER:O	2.12	0.50
2:H:1557:UNK:O	2:H:1558:UNK:C	2.60	0.50
1:G:895:THR:OG1	1:G:928:GLY:HA3	2.11	0.50
2:E:895:UNK:O	2:E:898:UNK:N	2.44	0.50
2:E:807:UNK:N	2:E:1034:UNK:CB	2.74	0.50
2:H:27:PHE:O	2:H:30:ALA:HB3	2.12	0.50
1:G:1561:MET:CE	1:G:1561:MET:HA	2.41	0.50
1:A:984:PRO:O	1:A:985:ARG:O	2.29	0.50
1:G:1151:LYS:O	1:G:1152:VAL:C	2.50	0.50
1:G:1153:ASP:CG	1:G:1157:ILE:HG23	2.31	0.50
1:G:1156:GLU:CG	1:G:1169:LYS:HA	2.41	0.50
1:D:1130:ASP:HB2	1:D:1174:TYR:N	2.24	0.50
1:G:1045:PHE:O	1:G:1046:SER:O	2.30	0.50
1:G:1079:LYS:O	1:G:1083:PRO:HD2	2.11	0.50
1:G:1097:ILE:O	1:G:1098:LEU:HD13	2.11	0.50
1:G:1241:SER:C	1:G:1243:VAL:N	2.65	0.50
1:G:1320:LEU:CG	1:G:1321:SER:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1582:GLY:O	1:G:1583:HIS:C	2.50	0.50
1:G:1605:ILE:N	1:G:1605:ILE:HD13	2.26	0.50
1:G:1626:TYR:HB2	1:G:1627:PRO:HD2	1.94	0.50
1:G:1636:VAL:HG13	1:G:1657:HIS:CD2	2.46	0.50
1:A:1036:ARG:NH2	1:A:1040:GLU:OE1	2.43	0.50
1:A:1079:LYS:O	1:A:1083:PRO:HD2	2.11	0.50
1:A:1274:ILE:O	1:A:1276:GLN:N	2.44	0.50
1:A:1403:ILE:CG2	1:A:1656:VAL:O	2.60	0.50
1:A:1646:PHE:C	1:A:1648:GLN:H	2.13	0.50
1:D:1291:LEU:CD1	1:D:1291:LEU:N	2.75	0.50
1:D:1189:ILE:HG23	1:D:1377:MET:CE	2.41	0.50
1:D:1379:ALA:O	1:D:1380:GLN:O	2.29	0.50
1:D:1522:LEU:HB3	1:D:1526:LEU:HD23	1.92	0.50
1:D:1641:ILE:O	1:D:1642:THR:CB	2.60	0.50
1:D:782:GLU:O	1:D:784:ILE:HG22	2.11	0.50
1:D:911:PRO:O	1:D:912:GLU:CB	2.59	0.50
1:D:990:LEU:O	1:D:991:ASP:OD1	2.30	0.50
1:D:1450:ARG:HG3	1:D:1450:ARG:NH1	2.26	0.50
1:D:1459:ILE:CG1	1:D:1460:LYS:N	2.74	0.50
1:A:1450:ARG:HG3	1:A:1450:ARG:NH1	2.25	0.50
1:A:1456:GLU:N	1:A:1459:ILE:CG1	2.68	0.50
2:H:368:ILE:HG23	2:H:368:ILE:O	2.11	0.50
2:E:249:TYR:CE2	2:E:283:ILE:HG23	2.47	0.50
1:G:1476:GLU:O	1:G:1476:GLU:HG3	2.12	0.50
2:E:1707:LEU:O	2:E:1708:ASP:C	2.50	0.50
2:E:1715:VAL:CG2	2:E:1716:ASN:N	2.63	0.50
2:E:370:LEU:HB3	2:E:372:ASN:OD1	2.11	0.50
2:H:1773:ALA:C	2:H:1775:GLN:H	2.13	0.50
2:H:1786:LYS:O	2:H:1787:ALA:C	2.50	0.50
1:A:1258:ARG:NH1	1:A:1263:ASP:OD2	2.41	0.50
2:H:13:HIS:C	2:H:15:SER:N	2.65	0.50
1:D:1738:ILE:O	1:D:1739:GLN:CB	2.59	0.50
1:D:700:GLY:CA	1:D:727:ALA:HB3	2.36	0.50
2:E:928:UNK:O	2:E:929:UNK:C	2.59	0.50
2:B:1853:GLY:O	2:B:1854:MET:HB3	2.12	0.50
1:G:574:UNK:O	1:G:577:UNK:N	2.45	0.50
2:H:1989:UNK:C	2:H:1991:UNK:N	2.74	0.50
1:A:929:GLY:C	1:A:931:GLN:N	2.65	0.50
2:B:1989:UNK:C	2:B:1991:UNK:N	2.75	0.50
2:B:653:UNK:O	2:B:654:UNK:C	2.60	0.50
1:D:655:UNK:O	1:D:657:UNK:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:59:UNK:O	3:I:60:UNK:C	2.59	0.50
2:B:1551:UNK:O	2:B:1552:UNK:C	2.58	0.50
2:E:1058:UNK:O	2:E:1059:UNK:C	2.60	0.50
2:H:1014:UNK:O	2:H:1016:UNK:N	2.44	0.50
2:H:585:UNK:O	2:H:586:UNK:CB	2.59	0.50
2:E:735:UNK:C	2:E:737:UNK:N	2.71	0.50
2:H:1644:UNK:C	2:H:1646:UNK:N	2.70	0.50
1:G:1151:LYS:H	1:G:1151:LYS:CD	2.25	0.50
1:G:1156:GLU:HG2	1:G:1169:LYS:C	2.31	0.50
1:D:1148:HIS:C	1:D:1150:ASP:N	2.64	0.50
1:G:1193:TRP:O	1:G:1194:ASN:CB	2.57	0.50
1:G:1246:CYS:HA	1:G:1327:CYS:SG	2.52	0.50
1:G:1378:GLU:HA	1:G:1583:HIS:HA	1.94	0.50
1:G:1534:ASP:C	1:G:1566:ARG:HH21	2.14	0.50
1:G:901:MET:O	1:G:904:ASN:N	2.35	0.50
1:A:1000:GLN:C	1:A:1002:LYS:H	2.15	0.50
1:A:1207:GLN:CA	1:A:1207:GLN:NE2	2.74	0.50
1:A:1240:VAL:CG1	1:A:1242:GLU:HB3	2.40	0.50
1:A:1554:SER:CB	1:A:1623:TYR:OH	2.59	0.50
1:D:1083:PRO:HG2	1:D:1084:VAL:N	2.26	0.50
1:D:1193:TRP:O	1:D:1194:ASN:CB	2.59	0.50
1:D:1241:SER:HB3	1:D:1295:SER:H	1.77	0.50
1:D:1426:LEU:HD12	1:D:1427:THR:CG2	2.40	0.50
1:D:703:VAL:HG13	1:D:704:VAL:N	2.27	0.50
1:D:905:LEU:O	1:D:908:LEU:HB3	2.11	0.50
2:H:193:GLU:O	2:H:196:SER:HB3	2.12	0.50
2:E:184:VAL:HG21	2:E:247:ALA:HB1	1.92	0.50
2:E:480:VAL:HG13	2:E:484:ILE:HD11	1.92	0.50
2:E:99:ASN:O	2:E:100:ASP:HB3	2.11	0.50
2:B:241:ILE:HA	2:B:244:ILE:CD1	2.42	0.50
1:G:1474:ALA:HB1	1:G:1761:UNK:CB	2.41	0.50
2:B:1672:GLN:HB3	2:B:1781:LEU:HD11	1.92	0.50
2:B:1737:ILE:O	2:B:1738:PHE:CB	2.59	0.50
2:B:1830:VAL:HG13	2:B:1831:VAL:H	1.77	0.50
2:H:1681:TYR:C	2:H:1681:TYR:CD2	2.85	0.50
1:D:1342:GLU:O	1:D:1346:MET:HB2	2.11	0.50
1:G:755:THR:HG22	1:G:756:GLU:N	2.25	0.50
1:G:677:TYR:HA	1:G:702:LYS:O	2.10	0.50
2:B:1904:LEU:O	2:B:1907:LEU:HG	2.11	0.50
1:D:1491:ARG:C	1:D:1493:ILE:N	2.64	0.50
2:B:173:LEU:O	2:B:176:LEU:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:895:UNK:O	2:E:896:UNK:C	2.59	0.50
2:E:1614:UNK:CB	2:E:1650:UNK:HA	2.41	0.50
2:H:928:UNK:O	2:H:929:UNK:C	2.59	0.50
2:H:1850:SER:C	2:H:1852:TYR:H	2.14	0.50
2:B:230:TYR:C	2:B:232:LEU:N	2.65	0.50
1:G:990:LEU:O	1:G:991:ASP:OD1	2.28	0.50
2:B:1061:UNK:C	2:B:1063:UNK:N	2.72	0.50
1:D:1872:UNK:HA	1:D:1881:UNK:CB	2.42	0.50
2:E:876:UNK:O	2:E:877:UNK:CB	2.60	0.50
1:A:1131:LEU:C	1:A:1133:PRO:HD3	2.31	0.50
1:G:1528:THR:O	1:G:1530:GLY:N	2.45	0.50
1:G:1534:ASP:O	1:G:1566:ARG:NE	2.38	0.50
1:G:1639:VAL:HG23	1:G:1640:SER:N	2.21	0.50
1:G:904:ASN:HB3	1:G:926:LEU:HD13	1.93	0.50
1:A:1030:TRP:HB2	1:A:1036:ARG:HB3	1.92	0.50
1:A:1040:GLU:O	1:A:1040:GLU:HG3	2.11	0.50
1:A:1076:VAL:HG21	1:A:1087:LYS:CA	2.41	0.50
1:A:1089:VAL:C	1:A:1091:ALA:N	2.65	0.50
1:A:1119:LYS:CE	1:A:1121:MET:HB2	2.37	0.50
1:A:1253:GLY:O	1:A:1254:VAL:C	2.49	0.50
1:A:1426:LEU:CD1	1:A:1427:THR:HG23	2.39	0.50
1:A:1518:ARG:O	1:A:1519:ILE:HB	2.11	0.50
1:A:910:THR:HG22	1:A:913:VAL:HG21	1.93	0.50
1:D:1080:THR:HB	1:D:1081:LYS:HE2	1.93	0.50
1:D:1109:GLU:O	1:D:1110:LEU:CB	2.59	0.50
1:D:1241:SER:O	1:D:1243:VAL:N	2.39	0.50
1:D:1274:ILE:CG2	1:D:1275:LEU:N	2.74	0.50
1:D:684:GLY:HA3	1:D:718:TYR:OH	2.12	0.50
2:E:187:LEU:HD22	2:E:296:VAL:HG11	1.92	0.50
2:B:184:VAL:HG21	2:B:247:ALA:HB1	1.93	0.50
1:D:1474:ALA:HB1	1:D:1761:UNK:CB	2.42	0.50
2:E:1729:ILE:CG2	2:E:1730:ARG:H	2.13	0.50
2:E:339:LEU:HB2	2:E:420:PHE:CE1	2.46	0.50
2:B:1738:PHE:HB2	2:B:1755:ILE:CG2	2.41	0.50
2:B:1764:PHE:O	2:B:1765:ARG:CB	2.59	0.50
2:B:1792:LEU:CA	2:B:1797:LEU:HD12	2.41	0.50
1:G:745:VAL:O	1:G:747:ALA:N	2.44	0.50
2:H:1867:SER:C	2:H:1869:GLU:N	2.64	0.50
2:B:720:UNK:C	2:B:722:UNK:N	2.74	0.50
1:A:653:UNK:O	1:A:654:UNK:C	2.60	0.50
1:G:653:UNK:O	1:G:654:UNK:C	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1903:ASP:O	2:H:1906:ALA:N	2.44	0.50
1:A:1741:LYS:HA	1:A:1741:LYS:CE	2.41	0.50
2:H:924:UNK:O	2:H:925:UNK:C	2.60	0.50
2:H:132:MET:O	2:H:133:ALA:CB	2.60	0.50
2:B:1850:SER:C	2:B:1852:TYR:H	2.14	0.50
1:G:1571:PRO:O	1:G:1572:VAL:C	2.49	0.50
2:B:1058:UNK:O	2:B:1059:UNK:C	2.59	0.50
2:B:585:UNK:O	2:B:586:UNK:CB	2.59	0.50
2:E:1819:ALA:O	2:E:1820:ASP:O	2.30	0.50
2:E:822:UNK:O	2:E:823:UNK:CB	2.59	0.50
1:D:580:UNK:O	1:D:581:UNK:C	2.59	0.50
1:G:821:GLN:HA	1:G:863:THR:HB	1.94	0.50
1:A:1142:GLU:H	1:A:1144:PHE:HE1	1.60	0.50
1:A:1169:LYS:NZ	1:A:1170:GLY:O	2.34	0.50
1:D:1142:GLU:H	1:D:1144:PHE:HE1	1.58	0.50
1:D:1146:HIS:O	1:D:1147:GLN:C	2.49	0.50
1:G:1041:ALA:HB1	1:G:1042:PHE:CD1	2.46	0.50
1:G:1207:GLN:CA	1:G:1207:GLN:NE2	2.75	0.50
1:G:1239:HIS:O	1:G:1241:SER:N	2.41	0.50
1:G:1403:ILE:HG23	1:G:1656:VAL:CG1	2.27	0.50
1:G:1418:VAL:HA	1:G:1419:PRO:C	2.29	0.50
1:G:1539:ALA:CB	1:G:1640:SER:O	2.60	0.50
1:A:1036:ARG:HE	1:A:1037:TRP:CA	2.24	0.50
1:A:1060:ILE:HD13	1:A:1077:ASP:OD1	2.11	0.50
1:A:1539:ALA:O	1:A:1575:VAL:HG23	2.11	0.50
1:A:1652:GLN:CD	1:A:1653:ALA:N	2.65	0.50
1:A:681:THR:HA	1:A:706:THR:HG21	1.93	0.50
1:D:1002:LYS:HD2	1:D:1670:TYR:CE1	2.47	0.50
1:D:1100:HIS:O	1:D:1103:ILE:N	2.42	0.50
1:D:1030:TRP:CE2	1:D:1580:LEU:HD11	2.45	0.50
1:D:1657:HIS:NE2	1:D:1659:ASP:OD2	2.43	0.50
2:E:240:LEU:H	2:E:240:LEU:CD1	2.24	0.50
2:E:264:ARG:HD2	2:E:456:GLN:HG3	1.94	0.50
1:G:1455:ARG:NH2	1:G:1458:GLN:HB2	2.23	0.50
1:G:1476:GLU:C	1:G:1478:PRO:HD2	2.32	0.50
1:D:1476:GLU:O	1:D:1476:GLU:HG3	2.11	0.50
2:H:1706:ILE:O	2:H:1707:LEU:C	2.49	0.50
2:B:2020:UNK:O	2:B:2021:UNK:C	2.59	0.50
2:E:199:ILE:HG12	2:E:200:ARG:N	2.26	0.50
1:G:829:ASN:HB3	1:G:832:THR:CB	2.42	0.50
2:H:1041:UNK:O	2:H:1042:UNK:C	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:572:UNK:C	1:D:574:UNK:N	2.70	0.50
2:H:321:PRO:O	2:H:323:ILE:N	2.45	0.50
2:H:1415:UNK:O	2:H:1416:UNK:CB	2.59	0.50
2:E:813:UNK:C	2:E:815:UNK:N	2.74	0.50
2:E:4:TYR:O	2:E:5:SER:CB	2.60	0.50
2:B:1047:UNK:C	2:B:1049:UNK:N	2.71	0.50
1:G:580:UNK:O	1:G:582:UNK:N	2.45	0.50
1:G:281:UNK:C	1:G:283:UNK:N	2.71	0.50
2:B:875:UNK:O	2:B:876:UNK:CB	2.60	0.50
2:E:1490:UNK:O	2:E:1491:UNK:CB	2.58	0.50
1:D:1152:VAL:C	1:D:1154:ILE:N	2.60	0.50
1:G:1275:LEU:C	1:G:1275:LEU:HD13	2.32	0.50
1:G:1302:VAL:O	1:G:1307:THR:CB	2.57	0.50
1:G:1638:ALA:O	1:G:1639:VAL:HG13	2.12	0.50
1:G:905:LEU:O	1:G:908:LEU:HB3	2.11	0.50
1:A:1065:GLY:C	1:A:1067:LEU:N	2.63	0.50
1:A:1320:LEU:O	1:A:1321:SER:C	2.49	0.50
1:A:1216:LEU:HD13	1:A:1698:PHE:CE1	2.47	0.50
1:A:749:ILE:HD11	1:A:802:MET:HE2	1.93	0.50
1:A:864:VAL:CG1	1:A:865:CYS:H	2.25	0.50
1:D:1055:TRP:CH2	1:D:1198:TYR:CD1	2.97	0.50
1:D:1118:LYS:O	1:D:1118:LYS:HG3	2.12	0.50
1:D:1197:THR:HG23	1:D:1197:THR:O	2.11	0.50
1:D:1204:ILE:O	1:D:1208:VAL:HG22	2.12	0.50
1:D:1223:PHE:CE1	1:D:1231:PRO:HB3	2.47	0.50
1:D:1652:GLN:CD	1:D:1653:ALA:H	2.15	0.50
1:D:780:GLU:O	1:D:781:LEU:C	2.50	0.50
1:D:869:ILE:CG2	1:D:926:LEU:HB2	2.37	0.50
1:D:1455:ARG:CG	1:D:1504:ALA:HB2	2.39	0.50
2:H:267:LEU:O	2:H:268:LYS:CB	2.60	0.50
2:B:149:VAL:HG21	2:B:156:LEU:HB2	1.94	0.50
2:B:460:TYR:CD2	2:B:465:GLY:HA3	2.47	0.50
2:B:540:ASP:HB2	2:B:544:LYS:HZ2	1.77	0.50
2:E:1742:VAL:HG21	2:E:1840:VAL:HG22	1.94	0.50
2:H:1830:VAL:HG13	2:H:1831:VAL:H	1.76	0.50
2:H:41:LEU:HD13	2:H:46:GLU:HA	1.94	0.50
2:B:13:HIS:C	2:B:15:SER:N	2.64	0.50
2:B:408:PRO:HG2	2:B:409:PHE:N	2.25	0.50
1:G:1735:SER:C	1:G:1737:ASN:H	2.13	0.50
2:E:197:GLU:C	2:E:199:ILE:N	2.64	0.50
2:E:1379:UNK:CA	2:E:1426:UNK:HA	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1924:ILE:HG22	2:H:1925:ILE:N	2.25	0.50
1:A:527:UNK:C	1:A:529:UNK:N	2.75	0.50
1:G:647:UNK:O	1:G:648:UNK:O	2.30	0.50
2:E:1989:UNK:C	2:E:1991:UNK:N	2.74	0.50
1:D:893:VAL:O	1:D:895:THR:N	2.36	0.50
2:H:1416:UNK:HA	2:H:1419:UNK:CB	2.42	0.50
2:B:1342:UNK:C	2:B:1344:UNK:N	2.74	0.50
1:A:377:UNK:O	1:A:380:UNK:CB	2.60	0.50
2:H:1542:UNK:O	2:H:1543:UNK:CB	2.59	0.50
1:G:389:UNK:C	1:G:391:UNK:N	2.74	0.50
1:A:426:UNK:O	1:A:430:UNK:CB	2.60	0.50
2:H:578:UNK:O	2:H:580:UNK:N	2.45	0.50
3:C:24:UNK:C	3:C:26:UNK:N	2.74	0.50
2:H:668:UNK:O	2:H:669:UNK:CB	2.59	0.50
2:H:1058:UNK:O	2:H:1059:UNK:C	2.59	0.50
2:H:1819:ALA:O	2:H:1820:ASP:O	2.29	0.50
1:G:1130:ASP:HB2	1:G:1174:TYR:N	2.21	0.50
1:G:1146:HIS:C	1:G:1148:HIS:N	2.63	0.50
1:A:1139:GLU:HG2	1:A:1140:THR:H	1.76	0.50
1:G:1100:HIS:O	1:G:1103:ILE:HB	2.11	0.50
1:G:1308:SER:HB2	1:G:1590:ALA:CB	2.41	0.50
1:G:1189:ILE:HG23	1:G:1377:MET:CE	2.42	0.50
1:G:1519:ILE:HG12	1:G:1521:PRO:HD2	1.93	0.50
1:G:1615:ASP:OD1	1:G:1615:ASP:C	2.51	0.50
1:G:1640:SER:H	1:G:1654:ILE:HG13	1.76	0.50
1:G:684:GLY:HA3	1:G:718:TYR:OH	2.12	0.50
1:G:804:GLY:O	1:G:807:LYS:HB3	2.11	0.50
1:G:910:THR:HG22	1:G:913:VAL:HG21	1.93	0.50
1:A:1291:LEU:N	1:A:1291:LEU:CD1	2.75	0.50
1:A:1219:VAL:HG23	1:A:1328:ILE:CD1	2.42	0.50
1:A:854:HIS:O	1:A:855:SER:CB	2.59	0.50
1:D:1403:ILE:O	1:D:1655:VAL:HG22	2.11	0.50
2:H:131:ILE:HG12	2:H:131:ILE:O	2.11	0.50
2:H:159:ILE:HG22	2:H:160:PHE:N	2.27	0.50
2:H:261:GLY:HA2	2:H:264:ARG:NE	2.27	0.50
2:H:504:PHE:CD2	2:H:504:PHE:N	2.79	0.50
2:B:182:VAL:HG12	2:B:183:LEU:HD23	1.93	0.50
2:B:338:MET:N	2:B:386:LEU:CD1	2.75	0.50
2:B:367:GLU:OE1	2:B:428:HIS:O	2.30	0.50
2:B:475:ILE:C	2:B:477:GLU:H	2.15	0.50
1:A:1474:ALA:HB1	1:A:1761:UNK:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1770:LEU:O	2:B:1772:SER:N	2.37	0.50
2:H:1709:ILE:HG22	2:H:1771:LEU:CD1	2.38	0.50
2:H:1737:ILE:HG23	2:H:1755:ILE:HG21	1.92	0.50
2:H:1782:THR:HG21	2:H:1831:VAL:HG21	1.94	0.50
2:B:67:TYR:O	2:B:69:SER:N	2.45	0.50
2:E:49:ALA:H	2:E:118:LYS:HZ1	1.58	0.50
1:G:809:GLN:O	1:G:812:ALA:HB3	2.12	0.50
2:E:91:PHE:CE2	2:E:101:ILE:HD11	2.46	0.50
2:B:1378:UNK:O	2:B:1379:UNK:CB	2.60	0.50
2:E:1924:ILE:HG22	2:E:1925:ILE:N	2.22	0.50
1:G:1741:LYS:HZ1	1:G:1744:TYR:HD2	1.60	0.50
1:D:1495:ASN:O	1:D:1496:GLU:C	2.50	0.50
2:E:217:GLU:O	2:E:219:LEU:N	2.45	0.50
2:B:173:LEU:HD23	2:B:173:LEU:C	2.32	0.50
2:B:919:UNK:O	2:B:922:UNK:N	2.45	0.50
1:G:953:VAL:O	1:G:956:ALA:HB3	2.12	0.50
2:B:1295:UNK:O	2:B:1299:UNK:N	2.45	0.50
1:G:398:UNK:O	1:G:400:UNK:N	2.45	0.50
2:B:974:UNK:C	2:B:976:UNK:N	2.75	0.50
1:G:565:UNK:C	1:G:567:UNK:N	2.74	0.50
2:E:1137:UNK:O	2:E:1139:UNK:N	2.45	0.50
1:G:1161:GLY:H	1:G:1166:LYS:HA	1.77	0.49
1:G:1036:ARG:HH21	1:G:1040:GLU:CB	2.25	0.49
1:G:1194:ASN:O	1:G:1195:ALA:CB	2.60	0.49
1:G:1226:SER:O	1:G:1227:GLY:C	2.48	0.49
1:G:1353:LEU:CA	1:G:1356:PHE:CB	2.90	0.49
1:G:1536:LEU:H	1:G:1536:LEU:CD1	2.11	0.49
1:G:1700:SER:HA	1:G:1701:LYS:CE	2.42	0.49
1:A:1074:GLY:C	1:A:1075:TRP:CD1	2.85	0.49
1:A:1292:ILE:HG13	1:A:1294:SER:HB2	1.94	0.49
1:A:1642:THR:N	1:A:1652:GLN:OE1	2.45	0.49
1:A:1701:LYS:O	1:A:1702:GLU:O	2.30	0.49
1:A:865:CYS:O	1:A:866:GLY:O	2.29	0.49
1:A:990:LEU:O	1:A:991:ASP:OD1	2.30	0.49
1:D:1119:LYS:O	1:D:1120:GLU:HB2	2.11	0.49
1:D:1189:ILE:CG2	1:D:1190:PRO:CD	2.74	0.49
1:D:1316:VAL:HG13	1:D:1317:GLU:OE2	2.12	0.49
1:D:1353:LEU:HA	1:D:1356:PHE:CB	2.41	0.49
1:D:1390:ALA:O	1:D:1393:ALA:HB3	2.11	0.49
1:D:1426:LEU:HD13	1:D:1650:GLY:HA3	1.94	0.49
1:D:1599:ILE:HG13	1:D:1600:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1449:LYS:O	1:D:1453:VAL:HG23	2.11	0.49
1:A:1502:ARG:HD3	1:A:1505:GLN:NE2	2.27	0.49
2:H:309:ARG:CG	2:H:439:ILE:HG22	2.40	0.49
2:H:475:ILE:C	2:H:477:GLU:H	2.16	0.49
1:G:1455:ARG:CG	1:G:1504:ALA:HB2	2.40	0.49
2:E:1718:THR:HG23	2:E:1765:ARG:CA	2.41	0.49
2:E:1778:GLN:OE1	2:E:1809:LEU:HD13	2.12	0.49
2:H:1715:VAL:CG2	2:H:1770:LEU:N	2.75	0.49
2:H:1785:GLU:HG2	3:I:20:UNK:O	2.11	0.49
1:A:1264:ARG:NH2	1:A:1270:VAL:HB	2.27	0.49
1:A:1335:PHE:HE1	1:A:1340:SER:CB	2.08	0.49
2:E:1268:UNK:C	2:E:1270:UNK:N	2.69	0.49
1:D:808:LYS:HE3	1:D:808:LYS:CA	2.29	0.49
1:G:1339:GLY:O	1:G:1340:SER:C	2.50	0.49
1:A:1497:ALA:O	1:A:1498:GLU:C	2.51	0.49
2:B:915:UNK:O	2:B:916:UNK:C	2.59	0.49
2:H:1342:UNK:C	2:H:1344:UNK:N	2.74	0.49
2:B:4:TYR:O	2:B:5:SER:CB	2.60	0.49
2:H:1047:UNK:C	2:H:1049:UNK:N	2.71	0.49
2:E:843:UNK:O	2:E:845:UNK:N	2.45	0.49
2:E:1482:UNK:O	2:E:1483:UNK:CB	2.60	0.49
2:B:703:UNK:C	2:B:705:UNK:N	2.71	0.49
1:D:952:GLU:O	1:D:956:ALA:HB2	2.12	0.49
1:G:662:UNK:O	1:G:663:UNK:C	2.60	0.49
2:B:1449:UNK:O	2:B:1450:UNK:C	2.60	0.49
1:G:1131:LEU:C	1:G:1133:PRO:HD3	2.32	0.49
1:A:1156:GLU:CG	1:A:1169:LYS:HA	2.42	0.49
1:D:1139:GLU:HG2	1:D:1140:THR:H	1.76	0.49
1:G:1051:VAL:O	1:G:1055:TRP:N	2.45	0.49
1:G:1062:TYR:HB2	1:G:1077:ASP:HA	1.94	0.49
1:G:1080:THR:HB	1:G:1081:LYS:HE2	1.94	0.49
1:G:1099:GLU:C	1:G:1102:GLY:H	2.12	0.49
1:G:1254:VAL:C	1:G:1256:ALA:N	2.48	0.49
1:G:1288:ASN:C	1:G:1290:LEU:N	2.65	0.49
1:G:1599:ILE:HG13	1:G:1600:LEU:HD13	1.93	0.49
1:A:1316:VAL:HG13	1:A:1317:GLU:OE2	2.11	0.49
1:A:1418:VAL:CA	1:A:1419:PRO:O	2.58	0.49
1:A:1668:ASP:O	1:A:1670:TYR:N	2.35	0.49
1:D:1067:LEU:CG	1:D:1073:THR:HG23	2.26	0.49
1:D:1076:VAL:HG21	1:D:1087:LYS:CA	2.42	0.49
1:D:1198:TYR:CE2	1:D:1217:VAL:HG11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1240:VAL:CG1	1:D:1242:GLU:HB3	2.43	0.49
1:D:1532:THR:OG1	1:D:1535:ASP:HB3	2.11	0.49
2:E:309:ARG:CG	2:E:439:ILE:HG22	2.40	0.49
2:E:460:TYR:CD2	2:E:465:GLY:HA3	2.47	0.49
2:B:241:ILE:HG21	2:B:275:GLN:HG2	1.93	0.49
2:B:292:PHE:O	2:B:296:VAL:HG23	2.12	0.49
2:B:248:HIS:CG	2:B:529:VAL:HG11	2.47	0.49
2:E:1709:ILE:CD1	2:E:1719:ILE:HD11	2.32	0.49
2:E:1774:THR:O	2:E:1774:THR:HG22	2.11	0.49
2:B:1672:GLN:HB2	2:B:1676:MET:HE1	1.94	0.49
2:B:14:GLY:HA3	2:B:18:HIS:CG	2.48	0.49
1:D:653:UNK:O	1:D:654:UNK:C	2.59	0.49
2:H:199:ILE:HG12	2:H:200:ARG:N	2.27	0.49
2:B:1888:ILE:HA	2:B:1891:TYR:CZ	2.46	0.49
2:E:1879:GLY:O	2:E:1880:LYS:HB3	2.12	0.49
1:A:1487:LEU:HA	1:A:1490:THR:CG2	2.42	0.49
1:G:1486:LEU:HD12	1:G:1754:UNK:O	2.12	0.49
2:H:919:UNK:O	2:H:922:UNK:N	2.45	0.49
2:H:1418:UNK:O	2:H:1420:UNK:N	2.45	0.49
2:H:1458:UNK:O	2:H:1459:UNK:C	2.60	0.49
1:A:655:UNK:O	1:A:657:UNK:N	2.45	0.49
2:H:1972:UNK:O	2:H:1973:UNK:C	2.60	0.49
1:A:278:UNK:O	1:A:279:UNK:CB	2.60	0.49
2:E:1058:UNK:O	2:E:1061:UNK:N	2.45	0.49
2:B:1058:UNK:O	2:B:1061:UNK:N	2.46	0.49
2:B:876:UNK:O	2:B:877:UNK:CB	2.60	0.49
3:C:64:UNK:O	3:C:65:UNK:O	2.30	0.49
1:A:1306:ALA:HB2	1:A:1645:GLY:N	2.27	0.49
1:G:197:UNK:O	1:G:198:UNK:C	2.60	0.49
1:G:1074:GLY:C	1:G:1075:TRP:CD1	2.86	0.49
1:G:1200:ILE:HG13	1:G:1201:SER:N	2.27	0.49
1:G:1274:ILE:O	1:G:1276:GLN:N	2.45	0.49
1:G:689:GLY:HA2	1:G:692:VAL:CG2	2.42	0.49
1:G:865:CYS:O	1:G:866:GLY:O	2.29	0.49
1:A:1118:LYS:HE2	1:A:1337:GLU:CA	2.37	0.49
1:A:1203:ASP:C	1:A:1205:ILE:H	2.13	0.49
1:A:1246:CYS:N	1:A:1328:ILE:CG2	2.74	0.49
1:A:1274:ILE:CG2	1:A:1275:LEU:N	2.76	0.49
1:A:1022:THR:O	1:A:1401:TYR:CE2	2.64	0.49
1:A:1425:ILE:O	1:A:1426:LEU:HB3	2.12	0.49
1:A:1625:LEU:HD21	1:A:1626:TYR:CD1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1036:ARG:HE	1:D:1037:TRP:CA	2.25	0.49
1:D:1254:VAL:CG1	1:D:1255:SER:N	2.65	0.49
1:D:1216:LEU:HD13	1:D:1698:PHE:CE1	2.48	0.49
1:D:1200:ILE:HD12	1:D:1698:PHE:CE2	2.47	0.49
2:B:264:ARG:HD2	2:B:456:GLN:HG3	1.93	0.49
1:D:1476:GLU:C	1:D:1478:PRO:HD2	2.33	0.49
2:E:1738:PHE:HB2	2:E:1755:ILE:CG2	2.42	0.49
2:B:1707:LEU:O	2:B:1708:ASP:C	2.50	0.49
1:G:1266:LYS:O	1:G:1267:ASP:C	2.50	0.49
2:H:197:GLU:C	2:H:199:ILE:N	2.66	0.49
2:E:1877:ARG:HB3	2:E:1929:LYS:HZ2	1.74	0.49
2:E:1904:LEU:O	2:E:1907:LEU:HG	2.12	0.49
2:B:323:ILE:O	2:B:324:LEU:C	2.51	0.49
2:E:1413:UNK:C	2:E:1415:UNK:N	2.71	0.49
2:E:617:UNK:CB	2:E:649:UNK:HA	2.41	0.49
2:H:753:UNK:O	2:H:754:UNK:C	2.59	0.49
2:H:1573:UNK:C	2:H:1575:UNK:N	2.73	0.49
2:H:4:TYR:O	2:H:5:SER:CB	2.61	0.49
2:H:1490:UNK:O	2:H:1491:UNK:CB	2.60	0.49
1:G:1157:ILE:HG22	1:G:1158:PRO:CD	2.22	0.49
1:A:1146:HIS:O	1:A:1147:GLN:C	2.50	0.49
1:D:1131:LEU:C	1:D:1133:PRO:HD3	2.33	0.49
1:G:1290:LEU:O	1:G:1291:LEU:HB2	2.10	0.49
1:G:1328:ILE:O	1:G:1328:ILE:CG1	2.59	0.49
1:G:1522:LEU:HB3	1:G:1526:LEU:CD2	2.42	0.49
1:G:1646:PHE:C	1:G:1648:GLN:N	2.65	0.49
1:G:710:PHE:HE1	1:G:736:PRO:CD	2.17	0.49
1:G:719:GLN:HG3	1:G:720:SER:H	1.77	0.49
1:G:874:GLY:HA3	1:G:899:LYS:HD2	1.93	0.49
1:A:1062:TYR:CD1	1:A:1063:HIS:N	2.64	0.49
1:A:1204:ILE:O	1:A:1208:VAL:HG22	2.12	0.49
1:A:1241:SER:C	1:A:1243:VAL:N	2.64	0.49
1:A:1519:ILE:HD11	1:A:1521:PRO:HD2	1.93	0.49
1:A:1536:LEU:CA	1:A:1638:ALA:HB3	2.40	0.49
1:A:1605:ILE:HD13	1:A:1605:ILE:N	2.27	0.49
1:D:1299:LYS:NZ	1:D:1323:LYS:HZ1	2.10	0.49
1:D:1307:THR:O	1:D:1308:SER:OG	2.30	0.49
1:D:1541:PHE:CE2	1:D:1554:SER:OG	2.61	0.49
1:D:1597:LEU:H	1:D:1597:LEU:HD23	1.78	0.49
1:D:737:PHE:CD1	1:D:748:LEU:HD22	2.48	0.49
1:D:1453:VAL:O	1:D:1455:ARG:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1453:VAL:O	1:A:1455:ARG:O	2.31	0.49
2:H:183:LEU:O	2:H:184:VAL:HB	2.10	0.49
2:E:193:GLU:O	2:E:196:SER:HB3	2.12	0.49
2:E:504:PHE:N	2:E:504:PHE:CD2	2.80	0.49
2:B:272:GLY:HA3	2:B:277:LEU:HA	1.95	0.49
2:B:281:VAL:HG12	2:B:282:ALA:N	2.27	0.49
2:B:1786:LYS:O	2:B:1787:ALA:C	2.49	0.49
2:H:1673:GLU:O	2:H:1674:GLN:C	2.51	0.49
2:H:1680:LEU:O	2:H:1681:TYR:C	2.50	0.49
2:H:1723:GLY:O	2:H:1724:GLU:C	2.51	0.49
1:D:1343:PHE:C	1:D:1345:ASN:N	2.66	0.49
2:H:49:ALA:H	2:H:118:LYS:NZ	2.08	0.49
2:H:56:THR:O	2:H:59:GLU:CG	2.61	0.49
2:B:2022:UNK:C	2:B:2024:UNK:N	2.60	0.49
2:H:87:CYS:C	2:H:90:GLU:HB3	2.32	0.49
1:G:829:ASN:HB3	1:G:832:THR:HG21	1.94	0.49
1:D:829:ASN:HB3	1:D:832:THR:CB	2.42	0.49
1:A:1486:LEU:HD12	1:A:1754:UNK:O	2.13	0.49
1:A:1493:ILE:O	1:A:1496:GLU:HB2	2.12	0.49
1:A:1495:ASN:O	1:A:1496:GLU:C	2.50	0.49
2:H:1883:GLY:HA2	2:H:1894:GLU:CG	2.42	0.49
1:A:386:UNK:C	1:A:388:UNK:N	2.70	0.49
2:E:1415:UNK:O	2:E:1416:UNK:CB	2.59	0.49
2:B:4:TYR:O	2:B:5:SER:HB3	2.12	0.49
2:E:1981:UNK:O	2:E:1982:UNK:CB	2.61	0.49
2:H:1211:UNK:O	2:H:1212:UNK:CB	2.59	0.49
2:B:1860:GLY:O	2:B:1861:ARG:HB2	2.13	0.49
1:D:197:UNK:O	1:D:198:UNK:C	2.60	0.49
2:H:1449:UNK:O	2:H:1450:UNK:C	2.60	0.49
1:G:1141:ALA:HA	1:G:1144:PHE:HE1	1.74	0.49
1:G:1002:LYS:HD2	1:G:1670:TYR:CE1	2.47	0.49
1:G:1076:VAL:HG21	1:G:1087:LYS:CA	2.42	0.49
1:G:1536:LEU:HB3	1:G:1638:ALA:CB	2.40	0.49
1:G:1596:ALA:O	1:G:1597:LEU:C	2.50	0.49
1:G:1599:ILE:HD11	1:G:1639:VAL:CG1	2.41	0.49
1:G:864:VAL:CG1	1:G:865:CYS:N	2.75	0.49
1:A:1239:HIS:C	1:A:1241:SER:N	2.58	0.49
1:A:1599:ILE:HD11	1:A:1639:VAL:CG1	2.41	0.49
1:A:1625:LEU:HD13	1:A:1626:TYR:N	2.28	0.49
1:A:1659:ASP:CA	1:A:1662:TYR:HD2	2.21	0.49
1:A:1224:ILE:HD13	1:A:1687:PHE:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1704:ALA:CB	1:A:1705:PRO:HD2	2.27	0.49
1:A:864:VAL:O	1:A:865:CYS:HB2	2.12	0.49
1:A:882:ASN:O	1:A:883:ILE:HG13	2.13	0.49
1:D:1079:LYS:O	1:D:1083:PRO:HD2	2.11	0.49
1:D:1239:HIS:O	1:D:1241:SER:N	2.42	0.49
1:D:1248:GLY:HA2	1:D:1330:GLY:HA3	1.95	0.49
1:A:1456:GLU:N	1:A:1459:ILE:HG12	2.22	0.49
2:H:264:ARG:HD2	2:H:456:GLN:HG3	1.94	0.49
2:H:265:SER:O	2:H:266:TYR:C	2.51	0.49
2:E:239:PRO:HG2	2:E:240:LEU:H	1.76	0.49
2:E:443:LEU:HB3	2:E:449:SER:HB3	1.94	0.49
2:B:248:HIS:HE1	2:B:530:ALA:HB2	1.77	0.49
2:B:303:LEU:HA	2:B:306:ILE:CD1	2.42	0.49
2:E:379:VAL:HG12	2:E:380:SER:N	2.28	0.49
2:H:53:GLU:HG2	2:H:55:THR:H	1.77	0.49
2:B:53:GLU:HG2	2:B:55:THR:H	1.78	0.49
2:B:57:PRO:O	2:B:59:GLU:N	2.45	0.49
2:E:1041:UNK:O	2:E:1042:UNK:C	2.60	0.49
1:D:937:LYS:O	1:D:940:THR:N	2.46	0.49
1:A:884:ILE:HG22	1:A:887:GLY:CA	2.41	0.49
2:B:1883:GLY:HA2	2:B:1894:GLU:CG	2.43	0.49
2:H:1196:UNK:O	2:H:1197:UNK:O	2.31	0.49
2:H:653:UNK:O	2:H:654:UNK:C	2.59	0.49
2:E:402:LEU:HD13	2:E:405:SER:OG	2.12	0.49
2:E:1449:UNK:O	2:E:1450:UNK:C	2.61	0.49
1:A:1872:UNK:HA	1:A:1881:UNK:CB	2.43	0.49
2:H:1361:UNK:O	2:H:1362:UNK:CB	2.59	0.49
1:D:1151:LYS:CD	1:D:1151:LYS:H	2.24	0.49
1:G:1209:ASP:O	1:G:1210:PRO:O	2.30	0.49
1:G:1248:GLY:O	1:G:1300:THR:HG23	2.11	0.49
1:G:1710:LEU:O	1:G:1711:GLU:C	2.51	0.49
1:A:1002:LYS:HD2	1:A:1670:TYR:CE1	2.48	0.49
1:A:1193:TRP:CZ2	1:A:1380:GLN:CB	2.86	0.49
1:A:1240:VAL:HG13	1:A:1242:GLU:HB2	1.92	0.49
1:A:737:PHE:CZ	1:A:739:GLN:HA	2.47	0.49
1:A:826:MET:HB2	1:A:868:ILE:CA	2.37	0.49
1:A:869:ILE:CG2	1:A:901:MET:SD	2.99	0.49
1:A:904:ASN:HB3	1:A:926:LEU:HD13	1.94	0.49
1:D:1036:ARG:O	1:D:1040:GLU:N	2.32	0.49
1:D:1051:VAL:O	1:D:1055:TRP:N	2.45	0.49
1:D:1074:GLY:C	1:D:1075:TRP:CD1	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1097:ILE:O	1:D:1098:LEU:HD13	2.11	0.49
1:D:1260:MET:SD	1:D:1275:LEU:HD23	2.52	0.49
1:D:1290:LEU:HB3	1:D:1291:LEU:HD13	1.93	0.49
1:D:1522:LEU:HB3	1:D:1526:LEU:CD2	2.43	0.49
1:D:1378:GLU:HA	1:D:1583:HIS:HA	1.95	0.49
1:D:747:ALA:O	1:D:751:PHE:N	2.39	0.49
2:E:240:LEU:HA	2:E:243:VAL:HG21	1.93	0.49
2:B:253:ALA:O	2:B:254:LYS:C	2.51	0.49
2:E:1706:ILE:CD1	2:E:1783:LEU:HD12	2.43	0.49
1:A:1476:GLU:O	1:A:1476:GLU:HG3	2.12	0.49
2:E:345:THR:O	2:E:349:VAL:HG23	2.13	0.49
2:H:217:GLU:O	2:H:219:LEU:N	2.46	0.49
1:G:792:HIS:CE1	1:G:796:LEU:CD2	2.95	0.49
1:G:1493:ILE:O	1:G:1496:GLU:HB2	2.12	0.49
1:D:521:UNK:O	1:D:522:UNK:C	2.60	0.49
2:H:915:UNK:O	2:H:916:UNK:C	2.61	0.49
2:E:321:PRO:O	2:E:323:ILE:N	2.46	0.49
1:A:953:VAL:O	1:A:956:ALA:HB3	2.11	0.49
2:B:1341:UNK:O	2:B:1342:UNK:CB	2.59	0.49
2:E:27:PHE:O	2:E:30:ALA:HB3	2.13	0.49
2:B:1051:UNK:O	2:B:1053:UNK:N	2.45	0.49
1:D:278:UNK:O	1:D:279:UNK:CB	2.60	0.49
1:G:563:UNK:O	1:G:565:UNK:N	2.46	0.49
1:A:243:UNK:CB	1:D:1138:LYS:NZ	2.76	0.49
1:G:1067:LEU:CD2	1:G:1074:GLY:H	2.26	0.49
1:G:1094:GLU:O	1:G:1095:THR:C	2.51	0.49
1:G:1216:LEU:HD11	1:G:1290:LEU:CD2	2.43	0.49
1:G:1291:LEU:N	1:G:1291:LEU:CD1	2.75	0.49
1:G:1246:CYS:N	1:G:1328:ILE:CG2	2.75	0.49
1:G:1646:PHE:C	1:G:1648:GLN:H	2.15	0.49
1:A:1118:LYS:CG	1:A:1118:LYS:O	2.61	0.49
1:A:1186:ALA:HB1	1:A:1349:THR:HG21	1.93	0.49
1:A:1244:GLY:O	1:A:1327:CYS:HA	2.13	0.49
1:A:1396:MET:O	1:A:1397:GLY:O	2.30	0.49
1:A:1522:LEU:HB3	1:A:1526:LEU:CD2	2.43	0.49
1:A:1562:LYS:NZ	1:A:1621:PHE:HZ	2.10	0.49
1:A:1614:VAL:HG12	1:A:1614:VAL:O	2.12	0.49
1:A:446:UNK:CB	1:A:1619:GLU:OE2	2.61	0.49
1:A:1710:LEU:O	1:A:1711:GLU:C	2.50	0.49
1:A:780:GLU:O	1:A:781:LEU:C	2.50	0.49
1:D:1274:ILE:HG23	1:D:1275:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1353:LEU:CA	1:D:1356:PHE:CB	2.89	0.49
1:D:1578:LYS:HE3	1:D:1584:PRO:CB	2.41	0.49
1:D:1625:LEU:HD21	1:D:1626:TYR:CD1	2.48	0.49
1:D:1722:VAL:HA	1:D:1731:LEU:HA	1.94	0.49
2:H:186:ASP:O	2:H:187:LEU:C	2.51	0.49
2:H:240:LEU:HA	2:H:243:VAL:HG21	1.94	0.49
2:E:281:VAL:HG12	2:E:282:ALA:N	2.27	0.49
2:E:540:ASP:HB2	2:E:544:LYS:HZ2	1.78	0.49
2:B:241:ILE:HA	2:B:244:ILE:HD12	1.93	0.49
2:B:244:ILE:HG22	2:B:248:HIS:CD2	2.47	0.49
2:B:368:ILE:O	2:B:368:ILE:HG23	2.12	0.49
2:B:1681:TYR:CD2	2:B:1681:TYR:C	2.86	0.49
2:H:1737:ILE:O	2:H:1738:PHE:CB	2.59	0.49
2:H:1756:ASN:O	2:H:1757:GLU:C	2.51	0.49
2:H:56:THR:O	2:H:59:GLU:HG2	2.12	0.49
2:B:46:GLU:O	2:B:47:GLY:C	2.51	0.49
2:E:57:PRO:O	2:E:59:GLU:N	2.45	0.49
2:E:1857:ILE:HG12	2:E:1949:UNK:CB	2.42	0.49
1:G:998:TYR:CD1	1:G:999:LYS:HG2	2.48	0.49
1:A:1665:ILE:O	1:A:1666:THR:HB	2.12	0.49
2:B:1924:ILE:HG22	2:B:1925:ILE:N	2.20	0.49
1:G:1497:ALA:O	1:G:1498:GLU:C	2.50	0.49
1:D:1782:UNK:C	1:D:1784:UNK:N	2.71	0.49
2:B:321:PRO:C	2:B:323:ILE:N	2.63	0.49
1:G:396:UNK:O	1:G:398:UNK:N	2.46	0.49
1:D:458:UNK:HA	1:D:1631:LEU:HD21	1.95	0.49
2:E:703:UNK:C	2:E:705:UNK:N	2.72	0.49
2:B:214:ASN:C	2:B:216:LEU:N	2.65	0.49
1:D:953:VAL:O	1:D:956:ALA:HB3	2.13	0.49
2:E:1336:UNK:O	2:E:1340:UNK:CB	2.61	0.49
1:G:407:UNK:C	1:G:409:UNK:N	2.75	0.49
2:E:1534:UNK:HA	2:E:1630:UNK:O	2.13	0.49
2:B:869:UNK:C	2:B:871:UNK:N	2.73	0.49
2:B:1014:UNK:O	2:B:1016:UNK:N	2.45	0.49
1:A:1141:ALA:HA	1:A:1144:PHE:HE1	1.73	0.49
1:G:1118:LYS:O	1:G:1118:LYS:HG3	2.13	0.49
1:G:1253:GLY:O	1:G:1254:VAL:C	2.51	0.49
1:G:1290:LEU:HA	1:G:1701:LYS:HD2	1.94	0.49
1:G:1641:ILE:O	1:G:1642:THR:CB	2.60	0.49
1:A:1384:ILE:C	1:A:1385:GLN:HG3	2.33	0.49
1:A:1528:THR:O	1:A:1530:GLY:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1538:VAL:O	1:A:1539:ALA:CB	2.61	0.49
1:A:1562:LYS:CE	1:A:1621:PHE:HZ	2.25	0.49
1:A:807:LYS:HG2	1:A:861:GLN:HG3	1.94	0.49
1:A:873:ARG:HG3	1:A:874:GLY:N	2.27	0.49
1:D:1292:ILE:HG13	1:D:1294:SER:HB2	1.95	0.49
1:D:1642:THR:N	1:D:1652:GLN:OE1	2.45	0.49
1:D:1710:LEU:O	1:D:1711:GLU:C	2.51	0.49
2:H:182:VAL:HG12	2:H:183:LEU:HD23	1.95	0.49
2:E:303:LEU:HA	2:E:306:ILE:CD1	2.42	0.49
2:E:429:SER:HB2	2:E:431:LEU:HD23	1.93	0.49
2:B:261:GLY:HA2	2:B:264:ARG:CD	2.43	0.49
2:B:306:ILE:O	2:B:310:CYS:SG	2.71	0.49
2:E:1817:SER:O	2:E:1818:LEU:C	2.51	0.49
2:E:517:HIS:O	2:E:518:ARG:C	2.51	0.49
2:B:1817:SER:O	2:B:1818:LEU:C	2.51	0.49
1:A:1264:ARG:O	1:A:1265:PHE:C	2.49	0.49
2:E:53:GLU:HG2	2:E:55:THR:H	1.77	0.49
2:H:330:ASN:ND2	2:H:330:ASN:O	2.46	0.49
1:G:884:ILE:HG22	1:G:887:GLY:CA	2.43	0.49
1:D:632:UNK:CB	1:D:894:ARG:NH1	2.75	0.49
2:H:2033:UNK:C	2:H:2035:UNK:N	2.72	0.49
2:B:1476:UNK:HA	2:B:1486:UNK:CB	2.43	0.49
2:B:972:UNK:C	2:B:974:UNK:N	2.72	0.49
2:B:1458:UNK:O	2:B:1459:UNK:C	2.60	0.49
1:G:589:UNK:O	1:G:591:UNK:N	2.45	0.49
1:G:169:UNK:O	1:G:170:UNK:CB	2.61	0.49
1:A:1173:LEU:O	1:A:1174:TYR:CB	2.61	0.49
1:D:1127:VAL:HG23	1:D:1180:ARG:HB2	1.95	0.49
1:G:1103:ILE:O	1:G:1106:ILE:CG1	2.61	0.49
1:G:1193:TRP:CZ2	1:G:1380:GLN:CB	2.87	0.49
1:G:1320:LEU:HG	1:G:1321:SER:H	1.78	0.49
1:A:1061:SER:O	1:A:1062:TYR:O	2.31	0.49
1:A:1080:THR:HB	1:A:1081:LYS:HE2	1.95	0.49
1:A:1097:ILE:O	1:A:1098:LEU:HD13	2.13	0.49
1:A:1604:ILE:HG23	1:A:1630:THR:HA	1.95	0.49
1:A:1636:VAL:O	1:A:1637:ARG:CB	2.61	0.49
1:A:1639:VAL:HG21	1:A:1655:VAL:HG12	1.94	0.49
1:D:1320:LEU:CG	1:D:1321:SER:N	2.74	0.49
1:D:1373:ARG:CG	1:D:1547:LYS:HD3	2.10	0.49
1:D:1626:TYR:HB2	1:D:1627:PRO:HD2	1.95	0.49
1:D:1636:VAL:O	1:D:1637:ARG:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:184:VAL:HG21	2:H:247:ALA:HB1	1.94	0.49
2:H:184:VAL:HG22	2:H:184:VAL:O	2.11	0.49
2:H:213:LEU:HD11	2:H:215:ILE:HD11	1.94	0.49
2:H:460:TYR:CD2	2:H:465:GLY:HA3	2.48	0.49
2:E:186:ASP:O	2:E:187:LEU:C	2.51	0.49
2:E:437:ASP:O	2:E:440:ASN:HB2	2.12	0.49
2:B:242:GLY:HA2	2:B:245:GLN:NE2	2.17	0.49
2:E:1756:ASN:O	2:E:1757:GLU:C	2.51	0.49
2:H:1687:ALA:O	2:H:1688:GLN:C	2.51	0.49
2:H:1706:ILE:CD1	2:H:1783:LEU:HD12	2.43	0.49
2:B:162:GLY:C	2:B:164:GLY:N	2.65	0.49
2:B:119:THR:O	2:B:122:LEU:HB3	2.13	0.49
1:D:1734:ASN:HA	1:D:1737:ASN:O	2.13	0.49
2:E:919:UNK:O	2:E:922:UNK:N	2.45	0.49
2:E:423:VAL:HG12	2:E:425:SER:O	2.13	0.49
1:G:930:LEU:C	1:G:932:PHE:H	2.16	0.49
2:E:653:UNK:O	2:E:654:UNK:C	2.60	0.49
2:H:1482:UNK:O	2:H:1483:UNK:CB	2.61	0.49
2:E:4:TYR:HD1	2:E:5:SER:H	1.60	0.49
2:H:1051:UNK:O	2:H:1053:UNK:N	2.46	0.49
2:E:949:UNK:C	2:E:951:UNK:N	2.75	0.49
2:H:577:UNK:C	2:H:579:UNK:N	2.73	0.49
2:E:577:UNK:C	2:E:579:UNK:N	2.76	0.49
2:B:1248:UNK:O	2:B:1250:UNK:N	2.46	0.49
3:C:60:UNK:O	3:C:61:UNK:C	2.61	0.49
2:H:1519:UNK:O	2:H:1521:UNK:N	2.45	0.49
2:E:737:UNK:C	2:E:739:UNK:N	2.74	0.49
1:G:988:ILE:O	1:G:990:LEU:N	2.46	0.49
1:A:1438:TYR:O	1:A:1440:SER:N	2.45	0.49
1:D:821:GLN:HA	1:D:863:THR:HB	1.94	0.49
2:E:1211:UNK:O	2:E:1212:UNK:CB	2.60	0.49
2:H:1283:UNK:O	2:H:1284:UNK:O	2.30	0.49
1:G:1067:LEU:HD23	1:G:1074:GLY:N	2.28	0.49
1:G:1087:LYS:O	1:G:1088:ASP:HB2	2.12	0.49
1:G:1119:LYS:HG2	1:G:1122:ILE:HG12	1.95	0.49
1:G:1274:ILE:HG23	1:G:1275:LEU:N	2.26	0.49
1:G:1244:GLY:O	1:G:1327:CYS:HA	2.10	0.49
1:G:854:HIS:O	1:G:855:SER:CB	2.59	0.49
1:A:1208:VAL:HA	1:A:1277:GLU:OE1	2.13	0.49
1:A:1290:LEU:HA	1:A:1701:LYS:HD2	1.93	0.49
1:A:1329:VAL:CG1	1:A:1385:GLN:O	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:854:HIS:O	1:A:855:SER:OG	2.23	0.49
1:D:1229:THR:O	1:D:1230:ASP:HB3	2.13	0.49
1:D:1618:LEU:HD22	1:D:1623:TYR:CZ	2.48	0.49
1:D:695:GLY:O	1:D:699:GLY:N	2.37	0.49
1:D:869:ILE:CG2	1:D:901:MET:SD	3.01	0.49
1:D:1455:ARG:NH2	1:D:1458:GLN:HB2	2.24	0.49
2:H:468:LEU:HD21	2:H:479:ILE:HD11	1.94	0.49
2:E:468:LEU:HD21	2:E:479:ILE:HD11	1.94	0.49
2:E:540:ASP:HB2	2:E:544:LYS:CE	2.43	0.49
1:G:1453:VAL:O	1:G:1457:ALA:HB2	2.13	0.49
2:B:517:HIS:O	2:B:518:ARG:C	2.51	0.49
2:E:1782:THR:O	2:E:1783:LEU:C	2.52	0.49
2:B:1830:VAL:O	2:B:1831:VAL:C	2.50	0.49
2:H:1706:ILE:O	2:H:1709:ILE:N	2.46	0.49
2:H:1718:THR:HG23	2:H:1765:ARG:CA	2.41	0.49
2:H:1778:GLN:OE1	2:H:1809:LEU:HD13	2.12	0.49
2:B:49:ALA:H	2:B:118:LYS:NZ	2.10	0.49
1:G:787:LYS:O	1:G:790:PHE:HB3	2.13	0.49
2:E:408:PRO:HG2	2:E:409:PHE:N	2.27	0.49
2:B:390:ASN:O	2:B:393:LEU:HB3	2.12	0.49
2:E:1878:VAL:HG23	2:E:1879:GLY:N	2.26	0.49
2:H:1878:VAL:HG23	2:H:1879:GLY:N	2.26	0.49
2:B:91:PHE:CE2	2:B:101:ILE:HD11	2.47	0.49
2:B:922:UNK:O	2:B:924:UNK:N	2.46	0.49
2:H:1020:UNK:C	2:H:1022:UNK:N	2.75	0.49
2:H:1560:UNK:O	2:H:1561:UNK:CB	2.60	0.49
2:H:1260:UNK:O	2:H:1261:UNK:C	2.60	0.49
2:H:4:TYR:O	2:H:5:SER:HB3	2.13	0.49
1:A:430:UNK:C	1:A:431:UNK:O	2.59	0.49
2:E:667:UNK:HA	2:E:690:UNK:CB	2.43	0.49
1:A:1569:GLY:O	1:A:1571:PRO:HD3	2.13	0.49
2:E:1058:UNK:HA	2:E:1061:UNK:CB	2.43	0.49
1:A:580:UNK:O	1:A:582:UNK:N	2.46	0.49
1:G:1872:UNK:HA	1:G:1881:UNK:CB	2.43	0.49
2:E:1283:UNK:O	2:E:1284:UNK:O	2.31	0.49
2:B:1246:UNK:O	2:B:1247:UNK:C	2.60	0.49
1:A:458:UNK:HA	1:A:1631:LEU:HD21	1.95	0.49
2:E:869:UNK:C	2:E:871:UNK:N	2.73	0.49
1:G:1204:ILE:O	1:G:1208:VAL:HG22	2.13	0.48
1:G:1207:GLN:C	1:G:1207:GLN:HE21	2.13	0.48
1:G:1353:LEU:HA	1:G:1356:PHE:CB	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1370:THR:H	1:G:1547:LYS:CD	2.21	0.48
1:G:1541:PHE:CD2	1:G:1553:GLU:OE2	2.66	0.48
1:G:1625:LEU:HD21	1:G:1626:TYR:CD1	2.48	0.48
1:G:1536:LEU:CA	1:G:1638:ALA:HB3	2.43	0.48
1:G:1722:VAL:HA	1:G:1731:LEU:HA	1.95	0.48
1:A:1045:PHE:O	1:A:1046:SER:O	2.30	0.48
1:A:1376:PHE:O	1:A:1377:MET:HG2	2.13	0.48
1:A:1251:MET:CE	1:A:1585:LYS:HE2	2.42	0.48
1:A:1615:ASP:OD1	1:A:1615:ASP:C	2.51	0.48
1:A:690:ALA:O	1:A:694:GLN:HG3	2.13	0.48
1:A:824:LEU:O	1:A:826:MET:HG2	2.13	0.48
1:A:864:VAL:CG1	1:A:865:CYS:N	2.76	0.48
1:A:910:THR:O	1:A:911:PRO:C	2.51	0.48
1:D:1099:GLU:C	1:D:1102:GLY:H	2.12	0.48
1:D:1328:ILE:O	1:D:1328:ILE:CG1	2.60	0.48
1:D:1190:PRO:HG3	1:D:1379:ALA:HA	1.95	0.48
1:D:1313:ASP:OD2	1:D:1407:ALA:O	2.31	0.48
1:D:1425:ILE:O	1:D:1426:LEU:HB3	2.13	0.48
1:D:1519:ILE:CG1	1:D:1521:PRO:HD2	2.42	0.48
1:D:1625:LEU:HD11	1:D:1626:TYR:HD1	1.78	0.48
1:D:1604:ILE:HG23	1:D:1630:THR:HA	1.94	0.48
1:D:705:VAL:CG2	1:D:732:LEU:HD11	2.43	0.48
2:H:494:THR:O	2:H:495:GLN:C	2.51	0.48
2:E:253:ALA:O	2:E:254:LYS:C	2.52	0.48
2:E:462:THR:HG21	2:E:482:CYS:O	2.13	0.48
1:A:1339:GLY:O	1:A:1340:SER:O	2.30	0.48
2:B:41:LEU:N	2:B:42:PRO:CD	2.75	0.48
1:G:737:PHE:CD1	1:G:748:LEU:HD22	2.48	0.48
1:G:742:LYS:O	1:G:744:ASP:N	2.45	0.48
2:H:1887:GLU:OE2	2:H:1888:ILE:HG22	2.13	0.48
2:B:719:UNK:O	2:B:720:UNK:CB	2.61	0.48
1:D:1665:ILE:O	1:D:1666:THR:HB	2.13	0.48
1:G:833:PHE:H	1:G:833:PHE:HD1	1.61	0.48
2:E:915:UNK:O	2:E:916:UNK:C	2.60	0.48
2:H:1328:UNK:O	2:H:1329:UNK:C	2.60	0.48
2:B:1328:UNK:O	2:B:1329:UNK:C	2.61	0.48
2:H:753:UNK:O	2:H:754:UNK:O	2.30	0.48
2:E:4:TYR:O	2:E:5:SER:HB3	2.12	0.48
2:H:1256:UNK:O	2:H:1258:UNK:N	2.45	0.48
3:F:60:UNK:O	3:F:61:UNK:C	2.60	0.48
2:H:1314:UNK:O	2:H:1315:UNK:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1135:GLU:O	1:D:1136:ALA:HB3	2.13	0.48
2:B:723:UNK:O	2:B:725:UNK:N	2.45	0.48
2:H:822:UNK:O	2:H:823:UNK:CB	2.60	0.48
2:B:822:UNK:O	2:B:823:UNK:CB	2.60	0.48
1:D:1169:LYS:CG	1:D:1170:GLY:H	2.17	0.48
1:G:1107:GLU:OE1	1:G:1190:PRO:HA	2.14	0.48
1:G:1029:PRO:HB3	1:G:1191:THR:O	2.14	0.48
1:G:1229:THR:O	1:G:1230:ASP:HB3	2.13	0.48
1:G:1248:GLY:O	1:G:1301:PRO:HD2	2.13	0.48
1:G:1525:ALA:C	1:G:1527:ALA:N	2.67	0.48
1:G:1605:ILE:CG1	1:G:1606:PRO:HA	2.43	0.48
1:G:864:VAL:CG1	1:G:865:CYS:H	2.26	0.48
1:A:1099:GLU:CG	1:A:1100:HIS:N	2.65	0.48
1:A:1114:TYR:CB	1:A:1115:ASN:ND2	2.68	0.48
1:A:1275:LEU:C	1:A:1275:LEU:HD13	2.34	0.48
1:A:1118:LYS:HZ2	1:A:1337:GLU:HG3	1.75	0.48
1:D:1418:VAL:HG11	1:D:1647:GLY:N	2.28	0.48
1:D:1703:HIS:O	1:D:1704:ALA:HB3	2.13	0.48
1:D:1705:PRO:HG2	1:D:1706:TYR:CD1	2.48	0.48
1:D:1729:GLY:O	1:D:1730:SER:HB3	2.13	0.48
1:D:689:GLY:O	1:D:690:ALA:C	2.52	0.48
1:D:869:ILE:HG23	1:D:926:LEU:CB	2.36	0.48
2:H:375:LYS:CG	2:H:376:ASN:H	2.23	0.48
2:H:479:ILE:HA	2:H:482:CYS:SG	2.53	0.48
2:B:504:PHE:CD2	2:B:504:PHE:N	2.81	0.48
2:B:1687:ALA:O	2:B:1690:VAL:HB	2.13	0.48
2:H:1807:HIS:O	2:H:1809:LEU:N	2.46	0.48
2:H:57:PRO:C	2:H:59:GLU:N	2.65	0.48
1:G:1184:LEU:HD12	1:G:1185:VAL:H	1.78	0.48
1:A:808:LYS:HA	1:A:808:LYS:CE	2.28	0.48
1:G:460:UNK:O	1:G:462:UNK:N	2.46	0.48
2:E:2021:UNK:O	2:E:2022:UNK:CB	2.60	0.48
1:G:1735:SER:O	1:G:1737:ASN:N	2.46	0.48
2:E:1871:LEU:HD13	2:E:1882:THR:HG22	1.96	0.48
2:H:1855:ILE:CG2	2:H:1951:UNK:HA	2.43	0.48
2:H:1898:TYR:CD2	2:H:1936:VAL:HG23	2.48	0.48
2:B:1173:UNK:CB	2:B:1181:UNK:N	2.72	0.48
1:D:929:GLY:O	1:D:931:GLN:N	2.46	0.48
2:B:1421:UNK:O	2:B:1423:UNK:N	2.46	0.48
2:H:1587:UNK:O	2:H:1588:UNK:C	2.61	0.48
2:E:1587:UNK:O	2:E:1588:UNK:C	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:957:VAL:O	1:A:958:SER:C	2.52	0.48
2:H:765:UNK:O	2:H:766:UNK:C	2.61	0.48
2:E:974:UNK:C	2:E:976:UNK:N	2.73	0.48
2:H:735:UNK:C	2:H:737:UNK:N	2.71	0.48
2:H:1271:UNK:O	2:H:1272:UNK:C	2.61	0.48
2:B:1271:UNK:O	2:B:1272:UNK:C	2.61	0.48
1:A:1158:PRO:CG	1:A:1159:GLU:N	2.75	0.48
1:A:1156:GLU:HG2	1:A:1169:LYS:C	2.33	0.48
1:A:1173:LEU:O	1:A:1174:TYR:O	2.32	0.48
1:G:1087:LYS:HE3	1:G:1089:VAL:CG1	2.43	0.48
1:G:1379:ALA:O	1:G:1380:GLN:O	2.32	0.48
1:G:1392:LEU:HD22	1:G:1392:LEU:N	2.23	0.48
1:G:1418:VAL:HG11	1:G:1647:GLY:N	2.28	0.48
1:G:1425:ILE:O	1:G:1426:LEU:HB3	2.13	0.48
1:G:1597:LEU:HD23	1:G:1597:LEU:H	1.79	0.48
1:G:1703:HIS:O	1:G:1704:ALA:HB3	2.14	0.48
1:G:693:LEU:HG	1:G:697:LEU:HD12	1.94	0.48
1:A:1094:GLU:O	1:A:1095:THR:C	2.52	0.48
1:A:1187:GLY:CA	1:A:1188:GLN:NE2	2.76	0.48
1:A:1209:ASP:O	1:A:1210:PRO:O	2.30	0.48
1:A:1219:VAL:HG13	1:A:1220:VAL:N	2.28	0.48
1:A:1230:ASP:O	1:A:1232:TYR:N	2.46	0.48
1:A:1378:GLU:HA	1:A:1583:HIS:HA	1.94	0.48
1:A:1700:SER:HA	1:A:1701:LYS:CE	2.43	0.48
1:D:1057:MET:HE3	1:D:1106:ILE:CG1	2.42	0.48
1:D:1540:SER:OG	1:D:1592:MET:HB3	2.13	0.48
1:D:1614:VAL:O	1:D:1615:ASP:CB	2.50	0.48
1:D:1232:TYR:CE1	1:D:1705:PRO:HD3	2.41	0.48
1:D:677:TYR:O	1:D:678:VAL:HG23	2.13	0.48
1:D:681:THR:HA	1:D:706:THR:HG21	1.95	0.48
1:D:719:GLN:HG3	1:D:720:SER:H	1.79	0.48
2:E:159:ILE:HG22	2:E:160:PHE:N	2.28	0.48
2:E:272:GLY:HA3	2:E:277:LEU:HA	1.95	0.48
2:E:433:VAL:H	2:E:434:PRO:CD	2.20	0.48
2:E:494:THR:HB	2:E:520:LYS:HZ1	1.75	0.48
1:G:1502:ARG:HD3	1:G:1505:GLN:NE2	2.28	0.48
1:G:1470:LEU:HD21	1:G:1485:PHE:HE2	1.77	0.48
1:D:1470:LEU:HD21	1:D:1485:PHE:HE2	1.78	0.48
2:E:1814:ALA:HB1	2:E:1818:LEU:HD12	1.96	0.48
2:E:1830:VAL:HG13	2:E:1831:VAL:H	1.77	0.48
1:A:1470:LEU:O	1:A:1474:ALA:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1706:ILE:O	2:B:1707:LEU:C	2.51	0.48
2:B:1778:GLN:OE1	2:B:1809:LEU:HD13	2.13	0.48
2:B:55:THR:HG22	2:B:55:THR:O	2.12	0.48
2:E:67:TYR:O	2:E:69:SER:N	2.46	0.48
1:D:809:GLN:O	1:D:812:ALA:HB3	2.13	0.48
2:B:2021:UNK:O	2:B:2022:UNK:CB	2.60	0.48
2:E:1878:VAL:CG1	2:E:1898:TYR:HE1	2.27	0.48
2:H:719:UNK:O	2:H:720:UNK:CB	2.61	0.48
2:H:720:UNK:C	2:H:722:UNK:N	2.76	0.48
1:A:1487:LEU:HA	1:A:1490:THR:HG21	1.95	0.48
1:D:1491:ARG:NH1	1:D:1491:ARG:HG2	2.28	0.48
1:D:1493:ILE:CG1	1:D:1494:HIS:N	2.76	0.48
2:E:173:LEU:HD23	2:E:173:LEU:C	2.34	0.48
2:B:928:UNK:O	2:B:929:UNK:C	2.59	0.48
1:G:485:UNK:O	1:G:487:UNK:N	2.46	0.48
1:A:930:LEU:C	1:A:932:PHE:H	2.17	0.48
2:E:1416:UNK:HA	2:E:1419:UNK:CB	2.43	0.48
2:H:1295:UNK:O	2:H:1299:UNK:N	2.47	0.48
2:H:617:UNK:CB	2:H:649:UNK:HA	2.43	0.48
1:D:534:UNK:HA	1:D:537:UNK:CB	2.44	0.48
3:F:59:UNK:O	3:F:60:UNK:C	2.61	0.48
1:D:1438:TYR:O	1:D:1440:SER:N	2.46	0.48
1:G:625:UNK:O	1:G:626:UNK:C	2.61	0.48
2:E:585:UNK:O	2:E:586:UNK:CB	2.60	0.48
1:A:197:UNK:O	1:A:198:UNK:C	2.60	0.48
1:G:1046:SER:O	1:G:1047:LEU:C	2.52	0.48
1:G:1082:GLU:C	1:G:1085:ASP:OD1	2.52	0.48
1:G:1320:LEU:HD12	1:G:1320:LEU:C	2.34	0.48
1:G:1519:ILE:CG1	1:G:1521:PRO:HD2	2.43	0.48
1:G:1232:TYR:CE1	1:G:1705:PRO:HD3	2.44	0.48
1:G:689:GLY:O	1:G:690:ALA:C	2.52	0.48
1:A:1226:SER:O	1:A:1226:SER:OG	2.30	0.48
1:A:1022:THR:CG2	1:A:1398:VAL:HG23	2.19	0.48
1:A:1626:TYR:HB2	1:A:1627:PRO:HD2	1.95	0.48
1:A:1698:PHE:O	1:A:1699:VAL:HG13	2.13	0.48
1:A:747:ALA:O	1:A:751:PHE:N	2.37	0.48
1:A:869:ILE:HG23	1:A:926:LEU:CB	2.37	0.48
1:D:1246:CYS:N	1:D:1328:ILE:CG2	2.77	0.48
1:D:1655:VAL:HG13	1:D:1656:VAL:N	2.27	0.48
1:D:993:PRO:HA	1:D:1681:GLU:OE1	2.13	0.48
1:D:807:LYS:HG2	1:D:861:GLN:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:131:ILE:CD1	2:H:182:VAL:HG13	2.41	0.48
2:H:240:LEU:HD12	2:H:240:LEU:N	2.28	0.48
2:H:306:ILE:HG22	2:H:310:CYS:SG	2.53	0.48
2:E:253:ALA:O	2:E:256:LEU:N	2.47	0.48
2:E:475:ILE:C	2:E:477:GLU:H	2.16	0.48
2:B:186:ASP:O	2:B:187:LEU:C	2.50	0.48
2:B:383:PRO:O	2:B:384:GLN:O	2.31	0.48
1:D:1470:LEU:O	1:D:1474:ALA:N	2.47	0.48
2:E:367:GLU:OE1	2:E:428:HIS:O	2.31	0.48
2:B:1678:MET:O	2:B:1679:ASP:C	2.52	0.48
2:H:1709:ILE:CD1	2:H:1719:ILE:HD11	2.36	0.48
2:H:38:ASN:HA	2:H:41:LEU:HG	1.95	0.48
2:B:71:LEU:HD12	2:B:76:LYS:NZ	2.26	0.48
2:B:471:LEU:CG	2:B:472:SER:H	2.01	0.48
2:E:1887:GLU:OE2	2:E:1888:ILE:HG22	2.12	0.48
2:B:1879:GLY:O	2:B:1880:LYS:HB3	2.13	0.48
2:H:1182:UNK:O	2:H:1183:UNK:O	2.30	0.48
1:D:1497:ALA:O	1:D:1498:GLU:C	2.52	0.48
1:A:937:LYS:O	1:A:940:THR:N	2.46	0.48
2:H:373:GLY:CA	2:H:519:ASN:OD1	2.60	0.48
2:E:1883:GLY:HA2	2:E:1894:GLU:CG	2.43	0.48
1:G:779:ILE:CD1	1:G:837:GLY:HA3	2.43	0.48
1:G:927:ASN:OD1	1:G:930:LEU:HB2	2.14	0.48
1:A:933:VAL:HA	1:A:934:PRO:HD3	1.64	0.48
2:B:617:UNK:CB	2:B:649:UNK:HA	2.44	0.48
2:E:797:UNK:O	2:E:799:UNK:N	2.47	0.48
2:B:765:UNK:O	2:B:766:UNK:C	2.62	0.48
2:H:667:UNK:HA	2:H:690:UNK:CB	2.44	0.48
2:B:738:UNK:O	2:B:742:UNK:CB	2.62	0.48
2:H:232:LEU:O	2:H:232:LEU:HD23	2.13	0.48
2:E:738:UNK:O	2:E:742:UNK:CB	2.62	0.48
2:B:1058:UNK:C	2:B:1060:UNK:N	2.76	0.48
2:H:1061:UNK:C	2:H:1063:UNK:N	2.74	0.48
2:H:738:UNK:O	2:H:742:UNK:CB	2.62	0.48
2:H:1965:UNK:O	2:H:1967:UNK:N	2.46	0.48
2:B:1981:UNK:O	2:B:1982:UNK:CB	2.61	0.48
3:F:3:UNK:HA	3:F:6:UNK:CB	2.44	0.48
1:A:821:GLN:HA	1:A:863:THR:HB	1.95	0.48
2:B:361:PRO:O	2:B:365:GLN:HG3	2.13	0.48
1:D:1153:ASP:CG	1:D:1157:ILE:HG23	2.33	0.48
1:G:910:THR:HG22	1:G:913:VAL:CG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:910:THR:O	1:G:911:PRO:C	2.51	0.48
1:A:1216:LEU:HD11	1:A:1290:LEU:CD2	2.43	0.48
1:A:1290:LEU:HB3	1:A:1291:LEU:HD13	1.95	0.48
1:A:1291:LEU:O	1:A:1292:ILE:C	2.52	0.48
1:A:1418:VAL:CG1	1:A:1419:PRO:HA	2.44	0.48
1:A:1558:ASN:C	1:A:1560:MET:N	2.65	0.48
1:A:1366:SER:HB3	1:A:1579:PHE:HD1	1.79	0.48
1:A:1641:ILE:O	1:A:1642:THR:CB	2.61	0.48
1:A:689:GLY:O	1:A:692:VAL:HB	2.13	0.48
1:A:737:PHE:CD1	1:A:748:LEU:HD22	2.48	0.48
1:D:1208:VAL:HG23	1:D:1209:ASP:N	2.27	0.48
1:D:749:ILE:HD11	1:D:802:MET:CE	2.43	0.48
1:A:1448:ARG:O	1:A:1451:GLN:CB	2.61	0.48
2:H:540:ASP:HB2	2:H:544:LYS:CE	2.42	0.48
1:G:1453:VAL:O	1:G:1455:ARG:O	2.31	0.48
2:B:345:THR:O	2:B:349:VAL:HG23	2.13	0.48
2:B:375:LYS:HG3	2:B:376:ASN:ND2	2.27	0.48
2:E:1678:MET:O	2:E:1679:ASP:C	2.50	0.48
2:E:1770:LEU:O	2:E:1770:LEU:HD23	2.13	0.48
2:B:1774:THR:O	2:B:1774:THR:HG22	2.14	0.48
2:H:1702:TYR:O	2:H:1703:GLY:O	2.32	0.48
2:H:1738:PHE:HB2	2:H:1755:ILE:HB	1.93	0.48
2:H:1817:SER:O	2:H:1818:LEU:C	2.51	0.48
1:D:1733:PHE:N	1:D:1733:PHE:CD1	2.82	0.48
1:G:1734:ASN:HA	1:G:1737:ASN:O	2.13	0.48
2:H:2021:UNK:O	2:H:2022:UNK:CB	2.61	0.48
1:G:937:LYS:O	1:G:940:THR:N	2.46	0.48
1:D:773:ALA:O	1:D:774:ILE:HB	2.13	0.48
1:D:895:THR:OG1	1:D:928:GLY:HA3	2.13	0.48
2:H:321:PRO:C	2:H:323:ILE:N	2.65	0.48
2:E:1418:UNK:O	2:E:1420:UNK:N	2.46	0.48
2:B:807:UNK:N	2:B:1034:UNK:CB	2.77	0.48
2:E:1256:UNK:O	2:E:1258:UNK:N	2.47	0.48
2:H:1454:UNK:CB	2:H:1505:UNK:HA	2.44	0.48
2:E:578:UNK:C	2:E:580:UNK:N	2.77	0.48
2:E:214:ASN:C	2:E:216:LEU:N	2.66	0.48
2:H:1157:UNK:CB	2:H:1164:UNK:O	2.62	0.48
2:E:699:UNK:O	2:E:702:UNK:N	2.46	0.48
1:D:580:UNK:O	1:D:582:UNK:N	2.45	0.48
2:H:1056:UNK:O	2:H:1057:UNK:C	2.62	0.48
1:D:637:UNK:O	1:D:638:UNK:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1233:GLU:O	1:G:1233:GLU:HG2	2.14	0.48
2:E:1177:UNK:O	2:E:1178:UNK:CB	2.61	0.48
2:B:1137:UNK:O	2:B:1139:UNK:N	2.47	0.48
2:H:1981:UNK:O	2:H:1982:UNK:CB	2.61	0.48
1:G:1306:ALA:HB2	1:G:1645:GLY:N	2.29	0.48
1:G:1106:ILE:CG2	1:G:1106:ILE:O	2.56	0.48
1:G:1190:PRO:O	1:G:1191:THR:CB	2.61	0.48
1:G:1055:TRP:CH2	1:G:1198:TYR:CD1	2.97	0.48
1:G:1223:PHE:CE1	1:G:1231:PRO:HB3	2.49	0.48
1:G:1427:THR:O	1:G:1430:ARG:N	2.46	0.48
1:A:1067:LEU:HD23	1:A:1074:GLY:N	2.29	0.48
1:A:1208:VAL:HG23	1:A:1209:ASP:N	2.29	0.48
1:A:1286:TRP:C	1:A:1288:ASN:N	2.64	0.48
1:A:1396:MET:HG2	1:A:1676:LYS:HE2	1.96	0.48
1:A:1541:PHE:CD2	1:A:1553:GLU:OE2	2.66	0.48
1:A:1707:THR:HG23	1:A:1710:LEU:CG	2.43	0.48
1:D:1029:PRO:CG	1:D:1581:THR:HG23	2.43	0.48
1:D:1208:VAL:C	1:D:1277:GLU:HG2	2.34	0.48
1:D:1290:LEU:CA	1:D:1701:LYS:HD2	2.43	0.48
1:D:1378:GLU:HA	1:D:1583:HIS:C	2.34	0.48
1:D:1542:HIS:HB2	1:D:1592:MET:HE1	1.96	0.48
1:D:1615:ASP:OD1	1:D:1618:LEU:HG	2.13	0.48
1:D:1721:ARG:O	1:D:1731:LEU:HD23	2.13	0.48
1:D:1453:VAL:O	1:D:1457:ALA:HB2	2.14	0.48
1:D:1456:GLU:N	1:D:1459:ILE:HG13	2.29	0.48
2:H:158:ALA:O	2:H:270:ALA:HA	2.14	0.48
2:H:259:THR:O	2:H:262:GLU:N	2.47	0.48
2:H:264:ARG:HB2	2:H:284:ALA:O	2.13	0.48
2:H:443:LEU:HB3	2:H:449:SER:HB3	1.93	0.48
2:E:265:SER:O	2:E:266:TYR:C	2.52	0.48
2:E:158:ALA:O	2:E:270:ALA:HA	2.14	0.48
2:B:265:SER:O	2:B:266:TYR:C	2.52	0.48
2:B:539:ASP:O	2:B:540:ASP:C	2.51	0.48
2:E:1681:TYR:CD2	2:E:1681:TYR:C	2.86	0.48
2:E:1687:ALA:O	2:E:1690:VAL:HB	2.14	0.48
2:E:1730:ARG:C	2:E:1732:ASN:N	2.66	0.48
2:E:1753:LYS:O	2:E:1754:GLU:CB	2.62	0.48
2:E:1807:HIS:O	2:E:1809:LEU:N	2.47	0.48
1:A:1471:LYS:O	1:A:1474:ALA:N	2.46	0.48
2:B:1706:ILE:O	2:B:1709:ILE:N	2.46	0.48
2:B:1733:TYR:CE1	2:B:1760:THR:HG23	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1264:ARG:C	1:D:1266:LYS:H	2.17	0.48
2:E:16:LEU:HG	2:H:20:LEU:HD21	1.96	0.48
1:G:680:ILE:HD12	1:G:704:VAL:O	2.13	0.48
1:G:737:PHE:HE1	1:G:745:VAL:HA	1.78	0.48
1:G:1343:PHE:C	1:G:1345:ASN:N	2.67	0.48
1:G:1345:ASN:HA	1:G:1345:ASN:HD22	1.52	0.48
1:A:810:LYS:O	1:A:812:ALA:N	2.46	0.48
2:H:1871:LEU:HD13	2:H:1882:THR:HG22	1.96	0.48
1:D:1665:ILE:HD12	1:D:1669:ARG:N	2.19	0.48
2:B:390:ASN:O	2:B:394:ARG:HG3	2.13	0.48
2:B:393:LEU:HD21	2:B:418:ASN:HB3	1.95	0.48
1:G:521:UNK:O	1:G:522:UNK:C	2.61	0.48
1:D:884:ILE:HG22	1:D:887:GLY:CA	2.43	0.48
1:D:574:UNK:O	1:D:577:UNK:N	2.46	0.48
1:D:929:GLY:O	1:D:930:LEU:C	2.52	0.48
2:B:1416:UNK:HA	2:B:1419:UNK:CB	2.44	0.48
2:E:1295:UNK:O	2:E:1298:UNK:N	2.47	0.48
1:A:557:UNK:O	1:A:559:UNK:N	2.46	0.48
2:E:395:LYS:O	2:E:396:ALA:CB	2.62	0.48
2:E:230:TYR:C	2:E:232:LEU:N	2.66	0.48
2:E:329:GLU:C	2:E:331:ASN:N	2.67	0.48
3:I:64:UNK:O	3:I:65:UNK:O	2.32	0.48
2:H:2004:UNK:O	2:H:2005:UNK:C	2.61	0.48
2:B:1534:UNK:HA	2:B:1630:UNK:O	2.14	0.48
1:A:1152:VAL:C	1:A:1154:ILE:N	2.61	0.48
1:G:1193:TRP:HB2	1:G:1194:ASN:H	1.38	0.48
1:G:1260:MET:HB3	1:G:1261:PHE:CE2	2.49	0.48
1:G:1224:ILE:CD1	1:G:1687:PHE:HD2	2.27	0.48
1:G:882:ASN:C	1:G:883:ILE:HG13	2.33	0.48
1:A:1308:SER:OG	1:A:1589:GLY:HA3	2.13	0.48
1:A:1320:LEU:HG	1:A:1321:SER:H	1.78	0.48
1:A:1379:ALA:O	1:A:1380:GLN:O	2.32	0.48
1:A:1313:ASP:OD2	1:A:1407:ALA:O	2.32	0.48
1:A:1703:HIS:O	1:A:1704:ALA:HB3	2.13	0.48
1:A:790:PHE:O	1:A:791:ALA:C	2.52	0.48
1:D:1035:THR:O	1:D:1038:GLU:HB2	2.14	0.48
1:D:1040:GLU:O	1:D:1040:GLU:HG3	2.13	0.48
1:D:1029:PRO:HB3	1:D:1191:THR:O	2.13	0.48
1:D:1226:SER:OG	1:D:1226:SER:O	2.31	0.48
1:D:1639:VAL:HG23	1:D:1640:SER:N	2.23	0.48
1:D:1668:ASP:O	1:D:1670:TYR:N	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:784:ILE:O	1:D:788:SER:HB2	2.14	0.48
1:D:854:HIS:O	1:D:855:SER:CB	2.61	0.48
1:D:865:CYS:O	1:D:866:GLY:O	2.31	0.48
1:D:901:MET:O	1:D:904:ASN:N	2.34	0.48
1:A:1009:LEU:CD1	1:A:1009:LEU:H	2.24	0.48
1:G:1454:THR:CG2	1:G:1455:ARG:N	2.59	0.48
2:B:186:ASP:O	2:B:188:ILE:N	2.47	0.48
2:B:468:LEU:HD21	2:B:479:ILE:HD11	1.95	0.48
2:B:479:ILE:HA	2:B:482:CYS:SG	2.53	0.48
2:E:1723:GLY:O	2:E:1724:GLU:C	2.51	0.48
2:E:368:ILE:O	2:E:368:ILE:HG23	2.13	0.48
2:B:1772:SER:C	2:B:1774:THR:N	2.67	0.48
2:B:61:VAL:C	2:B:63:LYS:H	2.17	0.48
2:H:1932:SER:C	2:H:1934:GLU:H	2.17	0.48
2:B:1560:UNK:O	2:B:1561:UNK:CB	2.61	0.48
2:E:1560:UNK:O	2:E:1561:UNK:CB	2.60	0.48
1:G:839:TYR:HE1	1:G:843:LYS:CE	2.27	0.48
2:E:1642:UNK:O	2:E:1650:UNK:O	2.32	0.48
2:E:1458:UNK:O	2:E:1459:UNK:C	2.61	0.48
2:B:949:UNK:C	2:B:951:UNK:N	2.76	0.48
2:B:1283:UNK:O	2:B:1284:UNK:O	2.32	0.48
2:H:1656:UNK:O	2:H:1657:UNK:CB	2.61	0.48
1:G:1062:TYR:CD1	1:G:1063:HIS:N	2.62	0.48
1:G:1108:PRO:HB3	1:G:1362:PRO:HB2	1.96	0.48
1:G:1118:LYS:HE2	1:G:1337:GLU:CA	2.37	0.48
1:G:1216:LEU:HD13	1:G:1698:PHE:CE1	2.49	0.48
1:G:1223:PHE:O	1:G:1228:ILE:N	2.44	0.48
1:G:1656:VAL:CG2	1:G:1657:HIS:N	2.77	0.48
1:G:693:LEU:C	1:G:695:GLY:N	2.65	0.48
1:G:826:MET:HB2	1:G:868:ILE:CA	2.40	0.48
1:A:1226:SER:O	1:A:1227:GLY:C	2.50	0.48
1:A:1320:LEU:C	1:A:1320:LEU:HD12	2.34	0.48
1:A:1329:VAL:CG1	1:A:1385:GLN:N	2.75	0.48
1:A:1426:LEU:HD13	1:A:1650:GLY:HA3	1.96	0.48
1:A:703:VAL:HG13	1:A:704:VAL:N	2.29	0.48
1:D:1190:PRO:O	1:D:1191:THR:CB	2.62	0.48
1:D:1384:ILE:C	1:D:1385:GLN:HG3	2.33	0.48
1:D:1392:LEU:HD22	1:D:1392:LEU:N	2.24	0.48
1:D:1646:PHE:C	1:D:1648:GLN:N	2.66	0.48
1:D:1646:PHE:C	1:D:1648:GLN:H	2.17	0.48
1:D:1448:ARG:O	1:D:1451:GLN:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:303:LEU:HA	2:H:306:ILE:CD1	2.40	0.48
2:H:248:HIS:HE1	2:H:530:ALA:HB2	1.78	0.48
2:B:193:GLU:O	2:B:196:SER:HB3	2.14	0.48
2:B:246:LEU:HD23	2:B:279:THR:HG23	1.96	0.48
2:E:1733:TYR:OH	2:E:1761:SER:CA	2.49	0.48
2:E:1740:THR:C	2:E:1741:ILE:HG13	2.33	0.48
2:E:1830:VAL:O	2:E:1831:VAL:C	2.52	0.48
2:E:344:LEU:HD13	2:E:345:THR:N	2.20	0.48
2:B:1782:THR:O	2:B:1783:LEU:C	2.52	0.48
2:B:1792:LEU:N	2:B:1792:LEU:HD23	2.29	0.48
2:B:1785:GLU:OE1	2:B:1813:ALA:HB1	2.13	0.48
2:H:1782:THR:O	2:H:1783:LEU:C	2.51	0.48
1:G:1665:ILE:O	1:G:1666:THR:HB	2.14	0.48
2:E:387:TYR:O	2:E:390:ASN:N	2.46	0.48
2:E:720:UNK:C	2:E:722:UNK:N	2.75	0.48
2:B:677:UNK:O	2:B:678:UNK:C	2.62	0.48
2:H:323:ILE:O	2:H:324:LEU:C	2.52	0.48
2:H:797:UNK:O	2:H:799:UNK:N	2.47	0.48
2:B:132:MET:O	2:B:133:ALA:CB	2.62	0.48
1:D:1569:GLY:C	1:D:1571:PRO:HD3	2.33	0.48
1:D:1569:GLY:O	1:D:1571:PRO:HD3	2.14	0.48
2:B:748:UNK:O	2:B:749:UNK:CB	2.61	0.48
2:H:1860:GLY:O	2:H:1861:ARG:HB2	2.14	0.48
2:E:1361:UNK:O	2:E:1362:UNK:CB	2.62	0.48
2:E:1271:UNK:O	2:E:1272:UNK:C	2.61	0.48
1:G:1083:PRO:HG2	1:G:1084:VAL:N	2.27	0.48
1:G:1187:GLY:CA	1:G:1188:GLN:NE2	2.77	0.48
1:G:1329:VAL:CG1	1:G:1385:GLN:N	2.74	0.48
1:G:1544:THR:HG22	1:G:1584:PRO:HG3	1.96	0.48
1:A:1031:GLY:N	1:A:1035:THR:HG21	2.28	0.48
1:A:1087:LYS:HE3	1:A:1089:VAL:CG1	2.44	0.48
1:A:1089:VAL:H	1:A:1093:TYR:HD2	1.62	0.48
1:A:1246:CYS:HB2	1:A:1329:VAL:O	2.14	0.48
1:A:693:LEU:C	1:A:695:GLY:N	2.63	0.48
1:D:1036:ARG:NH2	1:D:1040:GLU:OE1	2.47	0.48
1:D:1320:LEU:HD12	1:D:1320:LEU:C	2.34	0.48
1:D:1329:VAL:HG11	1:D:1385:GLN:N	2.29	0.48
1:D:684:GLY:C	1:D:686:GLY:N	2.67	0.48
1:D:1502:ARG:HD3	1:D:1505:GLN:NE2	2.29	0.48
2:H:475:ILE:O	2:H:479:ILE:HG12	2.14	0.48
2:H:527:VAL:HG11	2:H:544:LYS:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:131:ILE:HG12	2:E:131:ILE:O	2.14	0.48
2:E:253:ALA:O	2:E:255:LEU:N	2.46	0.48
2:E:273:HIS:O	2:E:276:GLY:N	2.45	0.48
2:E:475:ILE:O	2:E:479:ILE:HG12	2.14	0.48
2:B:460:TYR:HD2	2:B:465:GLY:HA3	1.78	0.48
2:E:1742:VAL:HG12	2:E:1744:GLY:H	1.79	0.48
2:B:1706:ILE:HG22	2:B:1710:VAL:CG2	2.44	0.48
2:B:1715:VAL:CA	2:B:1718:THR:HG22	2.44	0.48
2:B:1723:GLY:O	2:B:1724:GLU:C	2.52	0.48
2:H:1814:ALA:HB1	2:H:1818:LEU:HD12	1.96	0.48
2:E:164:GLY:O	2:E:166:THR:N	2.47	0.48
2:H:46:GLU:O	2:H:47:GLY:C	2.52	0.48
2:E:41:LEU:HB3	2:E:46:GLU:N	2.20	0.48
1:G:1738:ILE:O	1:G:1739:GLN:CB	2.61	0.48
2:B:1867:SER:C	2:B:1869:GLU:N	2.67	0.48
2:E:87:CYS:C	2:E:90:GLU:HB3	2.33	0.48
2:H:1334:UNK:C	2:H:1335:UNK:O	2.62	0.48
2:E:2037:UNK:O	2:E:2041:UNK:CB	2.62	0.48
1:G:929:GLY:O	1:G:931:GLN:N	2.47	0.48
2:H:646:UNK:O	2:H:648:UNK:N	2.47	0.48
1:D:563:UNK:O	1:D:565:UNK:N	2.47	0.48
2:B:578:UNK:O	2:B:580:UNK:N	2.47	0.48
2:E:1205:UNK:CB	2:E:1212:UNK:N	2.77	0.48
2:H:748:UNK:O	2:H:749:UNK:CB	2.62	0.48
1:G:1513:TYR:H	1:G:1513:TYR:HD1	1.55	0.48
2:B:1490:UNK:O	2:B:1491:UNK:CB	2.62	0.48
1:A:625:UNK:O	1:A:626:UNK:C	2.60	0.48
2:E:1014:UNK:O	2:E:1016:UNK:N	2.46	0.48
1:A:589:UNK:O	1:A:591:UNK:N	2.46	0.48
1:G:1142:GLU:N	1:G:1144:PHE:HE1	2.12	0.48
1:A:1142:GLU:C	1:A:1144:PHE:N	2.65	0.48
1:A:1151:LYS:HG3	1:A:1175:ILE:CD1	2.44	0.48
1:G:1025:ALA:CB	1:G:1221:GLU:HB3	2.44	0.48
1:G:1384:ILE:C	1:G:1385:GLN:HG3	2.34	0.48
1:A:1248:GLY:HA2	1:A:1330:GLY:HA3	1.94	0.48
1:A:901:MET:CE	1:A:905:LEU:CD2	2.92	0.48
1:D:1216:LEU:HD11	1:D:1290:LEU:CD2	2.44	0.48
1:D:1243:VAL:CG1	1:D:1325:ARG:H	2.25	0.48
1:D:1615:ASP:C	1:D:1615:ASP:OD1	2.52	0.48
1:D:1682:LYS:HA	1:D:1685:TYR:HB3	1.96	0.48
1:D:910:THR:HG22	1:D:913:VAL:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:460:TYR:HD2	2:E:465:GLY:HA3	1.79	0.48
2:B:375:LYS:O	2:B:377:LEU:HD12	2.14	0.48
1:G:1470:LEU:O	1:G:1474:ALA:N	2.47	0.48
2:E:1687:ALA:O	2:E:1688:GLN:C	2.51	0.48
2:B:1687:ALA:O	2:B:1688:GLN:C	2.51	0.48
2:B:1742:VAL:HG12	2:B:1744:GLY:H	1.78	0.48
2:H:1712:ASN:O	2:H:1714:PRO:HD3	2.13	0.48
2:H:1770:LEU:O	2:H:1770:LEU:HD23	2.13	0.48
2:H:162:GLY:C	2:H:164:GLY:N	2.67	0.48
2:B:37:PHE:CD1	2:B:49:ALA:HB3	2.49	0.48
2:B:56:THR:O	2:B:59:GLU:CG	2.62	0.48
2:E:1266:UNK:O	2:E:1269:UNK:N	2.47	0.48
1:G:1335:PHE:HE1	1:G:1340:SER:CB	2.13	0.48
2:E:1869:GLU:O	2:E:1873:TYR:N	2.47	0.48
1:G:666:UNK:O	1:G:669:UNK:O	2.32	0.48
2:B:1888:ILE:O	2:B:1891:TYR:HE1	1.96	0.48
1:D:1665:ILE:HD12	1:D:1669:ARG:HB2	1.96	0.48
1:A:998:TYR:CD1	1:A:999:LYS:HG2	2.48	0.48
1:D:1493:ILE:O	1:D:1496:GLU:HB2	2.12	0.48
2:B:1455:UNK:O	2:B:1456:UNK:C	2.62	0.48
2:B:1055:UNK:O	2:B:1059:UNK:N	2.47	0.48
2:E:875:UNK:O	2:E:876:UNK:CB	2.62	0.48
2:H:1058:UNK:O	2:H:1061:UNK:N	2.46	0.48
1:D:169:UNK:O	1:D:170:UNK:CB	2.61	0.48
1:A:707:THR:HG22	1:A:709:ARG:H	1.79	0.48
1:G:637:UNK:O	1:G:638:UNK:CB	2.62	0.48
2:E:1252:UNK:O	2:E:1253:UNK:O	2.31	0.48
1:G:1144:PHE:O	1:G:1147:GLN:N	2.47	0.47
1:G:1179:LEU:HG	1:G:1181:PHE:CE1	2.48	0.47
1:A:1127:VAL:HG23	1:A:1180:ARG:HB2	1.96	0.47
1:D:1146:HIS:C	1:D:1148:HIS:N	2.65	0.47
1:G:1039:MET:HE3	1:G:1042:PHE:O	2.14	0.47
1:G:1223:PHE:CD2	1:G:1386:ILE:HD13	2.47	0.47
1:G:1208:VAL:C	1:G:1277:GLU:HG2	2.34	0.47
1:G:1302:VAL:CG2	1:G:1303:GLY:H	2.19	0.47
1:G:1373:ARG:HG2	1:G:1547:LYS:HB3	1.93	0.47
1:G:1029:PRO:CG	1:G:1581:THR:HG23	2.44	0.47
1:G:692:VAL:HG22	1:G:902:ALA:HB1	1.96	0.47
1:A:1119:LYS:O	1:A:1120:GLU:HB2	2.14	0.47
1:A:1241:SER:O	1:A:1243:VAL:N	2.37	0.47
1:A:1316:VAL:CG1	1:A:1317:GLU:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1558:ASN:OD1	1:A:1621:PHE:CD2	2.67	0.47
1:A:1652:GLN:CD	1:A:1653:ALA:H	2.17	0.47
1:A:689:GLY:O	1:A:690:ALA:C	2.53	0.47
1:D:1254:VAL:CG2	1:D:1255:SER:N	2.65	0.47
1:D:1302:VAL:O	1:D:1307:THR:CB	2.58	0.47
1:D:1320:LEU:HG	1:D:1321:SER:H	1.79	0.47
1:D:1538:VAL:O	1:D:1539:ALA:CB	2.62	0.47
1:D:1613:ASN:CG	1:D:1614:VAL:N	2.68	0.47
1:D:1604:ILE:CD1	1:D:1630:THR:HB	2.32	0.47
1:D:1639:VAL:CG2	1:D:1655:VAL:HG12	2.44	0.47
1:D:690:ALA:O	1:D:694:GLN:HG3	2.13	0.47
1:A:1455:ARG:CG	1:A:1504:ALA:HB2	2.38	0.47
2:H:460:TYR:HD2	2:H:465:GLY:HA3	1.79	0.47
2:E:266:TYR:H	2:E:266:TYR:HD1	1.62	0.47
2:B:187:LEU:HA	2:B:187:LEU:HD23	1.76	0.47
2:B:432:LEU:HG	2:B:484:ILE:HB	1.96	0.47
2:E:1751:ILE:HD13	2:E:1840:VAL:CG2	2.43	0.47
2:E:1806:GLY:HA3	2:E:1811:GLU:HG2	1.96	0.47
2:E:1835:GLY:O	2:E:1836:MET:C	2.52	0.47
2:B:1731:GLU:HA	2:B:1735:ALA:HB3	1.97	0.47
2:B:1730:ARG:C	2:B:1732:ASN:N	2.67	0.47
2:B:1740:THR:C	2:B:1741:ILE:HG13	2.34	0.47
2:H:164:GLY:O	2:H:166:THR:N	2.45	0.47
1:D:755:THR:HG22	1:D:756:GLU:N	2.28	0.47
2:H:10:THR:O	2:H:11:LEU:HD23	2.14	0.47
2:H:57:PRO:O	2:H:59:GLU:N	2.47	0.47
1:G:677:TYR:O	1:G:678:VAL:HG23	2.14	0.47
1:G:680:ILE:HG23	1:G:769:ILE:HG21	1.95	0.47
2:E:56:THR:O	2:E:59:GLU:CG	2.62	0.47
2:E:60:LEU:HD12	2:E:60:LEU:N	2.29	0.47
2:E:1932:SER:C	2:E:1934:GLU:H	2.16	0.47
1:A:917:CYS:HA	1:A:922:VAL:HG23	1.96	0.47
1:D:917:CYS:HA	1:D:922:VAL:HG23	1.96	0.47
2:H:1378:UNK:O	2:H:1379:UNK:CB	2.62	0.47
1:A:1491:ARG:HG2	1:A:1491:ARG:NH1	2.29	0.47
1:A:1493:ILE:CG1	1:A:1494:HIS:N	2.77	0.47
2:H:1336:UNK:O	2:H:1340:UNK:CB	2.62	0.47
2:B:1196:UNK:O	2:B:1197:UNK:O	2.32	0.47
2:H:618:UNK:C	2:H:620:UNK:N	2.77	0.47
2:H:681:UNK:O	2:H:684:UNK:N	2.47	0.47
2:B:1215:UNK:O	2:B:1226:UNK:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1569:GLY:O	1:G:1571:PRO:HD3	2.12	0.47
2:E:723:UNK:O	2:E:725:UNK:N	2.47	0.47
1:A:1779:UNK:C	1:A:1781:UNK:N	2.76	0.47
1:G:1316:VAL:CG1	1:G:1317:GLU:N	2.77	0.47
1:G:1408:ALA:O	1:G:1409:THR:CG2	2.55	0.47
1:G:1698:PHE:O	1:G:1699:VAL:HG13	2.13	0.47
1:G:610:UNK:CB	1:G:873:ARG:HH21	2.28	0.47
1:A:1051:VAL:O	1:A:1055:TRP:N	2.47	0.47
1:A:1119:LYS:HG2	1:A:1122:ILE:HG12	1.95	0.47
1:A:1316:VAL:HG13	1:A:1317:GLU:N	2.29	0.47
1:A:1519:ILE:HG12	1:A:1521:PRO:HD2	1.96	0.47
1:A:1562:LYS:C	1:A:1564:LEU:N	2.67	0.47
1:A:1722:VAL:HA	1:A:1731:LEU:HA	1.96	0.47
1:A:860:ASN:H	1:A:861:GLN:HE21	1.62	0.47
1:D:1028:GLY:O	1:D:1030:TRP:N	2.47	0.47
1:D:1193:TRP:CZ2	1:D:1380:GLN:CB	2.86	0.47
1:D:1200:ILE:HG13	1:D:1201:SER:N	2.29	0.47
1:D:1186:ALA:HB1	1:D:1349:THR:HG21	1.95	0.47
1:D:1641:ILE:HD11	1:D:1653:ALA:O	2.14	0.47
2:E:213:LEU:HG	2:E:213:LEU:O	2.14	0.47
2:E:278:VAL:HB	2:E:303:LEU:HD21	1.97	0.47
2:E:234:ILE:HG12	2:E:307:GLY:HA2	1.96	0.47
2:E:528:ILE:CG2	2:E:529:VAL:N	2.76	0.47
2:B:240:LEU:HA	2:B:243:VAL:HG21	1.94	0.47
2:B:461:ASP:HB3	2:B:463:PHE:H	1.79	0.47
2:E:1772:SER:C	2:E:1774:THR:N	2.68	0.47
2:B:1772:SER:C	2:B:1774:THR:H	2.17	0.47
2:B:1706:ILE:CD1	2:B:1783:LEU:HD12	2.43	0.47
2:B:1809:LEU:C	2:B:1811:GLU:N	2.67	0.47
2:B:1819:ALA:O	2:B:1820:ASP:O	2.32	0.47
2:H:1678:MET:O	2:H:1679:ASP:C	2.52	0.47
2:H:1687:ALA:O	2:H:1690:VAL:HB	2.15	0.47
2:H:1718:THR:OG1	2:H:1719:ILE:N	2.46	0.47
2:H:1753:LYS:O	2:H:1754:GLU:CB	2.62	0.47
1:A:1265:PHE:O	1:A:1265:PHE:CG	2.67	0.47
2:H:41:LEU:CD2	2:H:46:GLU:HA	2.33	0.47
2:B:56:THR:N	2:B:57:PRO:HD3	2.29	0.47
1:G:680:ILE:HD11	1:G:703:VAL:CG1	2.44	0.47
1:A:1735:SER:C	1:A:1737:ASN:H	2.16	0.47
1:A:1665:ILE:HD12	1:A:1669:ARG:HB2	1.95	0.47
1:A:829:ASN:HB3	1:A:832:THR:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1493:ILE:CG1	1:G:1494:HIS:N	2.76	0.47
1:G:523:UNK:C	1:G:525:UNK:N	2.77	0.47
1:D:495:UNK:O	1:D:497:UNK:N	2.47	0.47
2:B:1335:UNK:C	2:B:1337:UNK:N	2.76	0.47
1:A:565:UNK:C	1:A:567:UNK:N	2.74	0.47
1:D:563:UNK:O	1:D:566:UNK:N	2.47	0.47
2:E:1215:UNK:O	2:E:1226:UNK:CB	2.63	0.47
2:B:667:UNK:HA	2:B:690:UNK:CB	2.44	0.47
2:E:1058:UNK:C	2:E:1060:UNK:N	2.76	0.47
1:G:622:UNK:O	1:G:626:UNK:N	2.47	0.47
2:E:1445:UNK:O	2:E:1447:UNK:N	2.47	0.47
1:A:170:UNK:O	1:A:171:UNK:CB	2.62	0.47
1:G:1127:VAL:CG2	1:G:1180:ARG:HG3	2.44	0.47
1:G:1151:LYS:O	1:G:1152:VAL:O	2.31	0.47
1:G:1139:GLU:OE2	1:G:1166:LYS:O	2.32	0.47
1:G:1288:ASN:C	1:G:1290:LEU:H	2.16	0.47
1:G:1290:LEU:HB3	1:G:1291:LEU:HD13	1.96	0.47
1:G:1379:ALA:O	1:G:1380:GLN:C	2.53	0.47
1:G:1538:VAL:O	1:G:1539:ALA:CB	2.63	0.47
1:G:1652:GLN:CD	1:G:1653:ALA:N	2.68	0.47
1:G:824:LEU:O	1:G:826:MET:HG2	2.15	0.47
1:A:1378:GLU:HA	1:A:1583:HIS:C	2.33	0.47
1:A:684:GLY:HA3	1:A:718:TYR:OH	2.14	0.47
1:D:1082:GLU:C	1:D:1085:ASP:OD1	2.53	0.47
1:D:1304:ALA:O	1:D:1305:CYS:HB3	2.14	0.47
1:D:1625:LEU:O	1:D:1626:TYR:HB3	2.13	0.47
1:D:1640:SER:CB	1:D:1654:ILE:HB	2.42	0.47
1:D:1698:PHE:O	1:D:1699:VAL:HG13	2.14	0.47
1:D:864:VAL:CG1	1:D:865:CYS:H	2.26	0.47
1:D:904:ASN:HB3	1:D:926:LEU:HD13	1.96	0.47
2:H:149:VAL:HG21	2:H:156:LEU:HB2	1.95	0.47
2:E:149:VAL:HG21	2:E:156:LEU:HB2	1.95	0.47
2:B:248:HIS:ND1	2:B:529:VAL:HG11	2.29	0.47
2:E:1764:PHE:HD1	2:E:1776:PHE:CE1	2.32	0.47
1:A:1471:LYS:O	1:A:1474:ALA:CB	2.62	0.47
2:B:1718:THR:OG1	2:B:1719:ILE:N	2.46	0.47
2:H:1753:LYS:O	2:H:1754:GLU:HB3	2.15	0.47
2:H:1774:THR:O	2:H:1774:THR:HG22	2.14	0.47
2:H:61:VAL:C	2:H:63:LYS:H	2.17	0.47
2:H:67:TYR:O	2:H:69:SER:N	2.46	0.47
2:B:1903:ASP:O	2:B:1906:ALA:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:408:PRO:O	2:H:409:PHE:C	2.53	0.47
1:A:666:UNK:O	1:A:669:UNK:O	2.31	0.47
1:D:527:UNK:C	1:D:529:UNK:N	2.75	0.47
1:D:647:UNK:O	1:D:648:UNK:O	2.32	0.47
2:B:928:UNK:O	2:B:930:UNK:N	2.47	0.47
2:E:1476:UNK:HA	2:E:1486:UNK:CB	2.43	0.47
2:H:1304:UNK:O	2:H:1305:UNK:O	2.32	0.47
1:G:957:VAL:O	1:G:958:SER:C	2.53	0.47
1:D:957:VAL:O	1:D:958:SER:C	2.51	0.47
2:B:737:UNK:C	2:B:739:UNK:N	2.75	0.47
1:G:170:UNK:O	1:G:171:UNK:CB	2.62	0.47
2:E:1246:UNK:O	2:E:1247:UNK:C	2.62	0.47
1:A:637:UNK:O	1:A:638:UNK:CB	2.61	0.47
2:H:1177:UNK:O	2:H:1178:UNK:CB	2.61	0.47
1:A:1160:THR:HG23	1:A:1160:THR:O	2.14	0.47
1:D:1142:GLU:C	1:D:1144:PHE:N	2.65	0.47
1:G:1328:ILE:O	1:G:1328:ILE:HG12	2.13	0.47
1:G:1528:THR:HG23	1:G:1528:THR:O	2.14	0.47
1:G:1625:LEU:HD11	1:G:1626:TYR:HD1	1.79	0.47
1:G:854:HIS:O	1:G:855:SER:OG	2.27	0.47
1:G:860:ASN:H	1:G:861:GLN:HE21	1.62	0.47
1:A:1055:TRP:CH2	1:A:1198:TYR:CD1	3.00	0.47
1:A:1103:ILE:O	1:A:1106:ILE:HG13	2.14	0.47
1:A:1328:ILE:CG1	1:A:1328:ILE:O	2.61	0.47
1:A:1189:ILE:HG23	1:A:1377:MET:CE	2.44	0.47
1:A:1706:TYR:HD1	1:A:1706:TYR:N	2.10	0.47
1:A:782:GLU:O	1:A:784:ILE:HG22	2.14	0.47
1:D:1094:GLU:O	1:D:1095:THR:C	2.51	0.47
1:D:1100:HIS:C	1:D:1102:GLY:N	2.66	0.47
1:D:1208:VAL:HA	1:D:1277:GLU:OE1	2.14	0.47
1:D:1308:SER:OG	1:D:1590:ALA:N	2.38	0.47
1:D:1108:PRO:HB3	1:D:1362:PRO:HB2	1.96	0.47
1:D:1290:LEU:HA	1:D:1701:LYS:CD	2.45	0.47
1:D:1010:GLU:OE1	1:D:1013:LEU:HD11	2.15	0.47
2:H:266:TYR:HD1	2:H:266:TYR:H	1.62	0.47
2:H:234:ILE:CD1	2:H:307:GLY:HA2	2.45	0.47
2:H:375:LYS:HG3	2:H:376:ASN:ND2	2.30	0.47
2:H:442:ASP:HA	2:H:445:LYS:HD2	1.97	0.47
2:E:234:ILE:CD1	2:E:307:GLY:HA2	2.44	0.47
2:E:248:HIS:CG	2:E:529:VAL:HG11	2.49	0.47
2:B:158:ALA:O	2:B:270:ALA:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:160:PHE:CZ	2:B:283:ILE:HD12	2.49	0.47
2:B:234:ILE:CD1	2:B:310:CYS:HB2	2.44	0.47
2:B:272:GLY:HA3	2:B:276:GLY:C	2.35	0.47
2:B:161:GLY:CA	2:B:512:LEU:HD12	2.45	0.47
2:B:527:VAL:HG11	2:B:544:LYS:HB2	1.97	0.47
2:E:1702:TYR:O	2:E:1703:GLY:O	2.33	0.47
2:E:1792:LEU:HA	2:E:1797:LEU:CD1	2.45	0.47
2:B:1752:PHE:O	2:B:1755:ILE:HD11	2.14	0.47
2:H:1716:ASN:C	2:H:1718:THR:H	2.17	0.47
2:H:19:VAL:O	2:H:23:PRO:HD3	2.14	0.47
1:G:677:TYR:O	1:G:678:VAL:CG2	2.62	0.47
2:E:18:HIS:C	2:E:20:LEU:H	2.18	0.47
2:E:56:THR:O	2:E:59:GLU:HG2	2.14	0.47
2:E:1888:ILE:O	2:E:1891:TYR:HE1	1.98	0.47
2:E:1901:ALA:HA	2:E:1905:ARG:HH21	1.79	0.47
1:D:917:CYS:SG	1:D:922:VAL:HG21	2.55	0.47
2:H:2037:UNK:O	2:H:2041:UNK:CB	2.62	0.47
2:H:1555:UNK:O	2:H:1556:UNK:C	2.62	0.47
2:B:1587:UNK:O	2:B:1588:UNK:C	2.61	0.47
2:H:1455:UNK:O	2:H:1456:UNK:C	2.62	0.47
2:B:1045:UNK:C	2:B:1047:UNK:N	2.78	0.47
1:D:426:UNK:O	1:D:427:UNK:C	2.62	0.47
2:E:1248:UNK:O	2:E:1250:UNK:N	2.47	0.47
2:E:1519:UNK:O	2:E:1521:UNK:N	2.48	0.47
2:H:208:VAL:O	2:H:208:VAL:HG12	2.13	0.47
2:E:1860:GLY:O	2:E:1861:ARG:HB2	2.13	0.47
2:E:1965:UNK:O	2:E:1967:UNK:N	2.47	0.47
1:A:1142:GLU:CA	1:A:1145:LYS:HB2	2.44	0.47
1:D:1151:LYS:CG	1:D:1175:ILE:CD1	2.92	0.47
1:G:1036:ARG:HE	1:G:1037:TRP:CA	2.27	0.47
1:G:1396:MET:HG2	1:G:1676:LYS:CE	2.44	0.47
1:G:1578:LYS:HE3	1:G:1584:PRO:CB	2.44	0.47
1:G:1396:MET:HG2	1:G:1676:LYS:HE2	1.95	0.47
1:G:869:ILE:HG23	1:G:926:LEU:CB	2.36	0.47
1:A:1029:PRO:HB3	1:A:1191:THR:O	2.14	0.47
1:A:1353:LEU:HA	1:A:1356:PHE:HB3	1.97	0.47
1:A:1349:THR:O	1:A:1376:PHE:N	2.47	0.47
1:A:1599:ILE:HG13	1:A:1600:LEU:HD13	1.96	0.47
1:A:1625:LEU:O	1:A:1626:TYR:HB3	2.14	0.47
1:D:1544:THR:O	1:D:1545:SER:HB3	2.14	0.47
1:D:1408:ALA:CB	1:D:1651:GLY:C	2.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:677:TYR:O	1:D:678:VAL:CG2	2.63	0.47
1:D:1445:MET:O	1:D:1446:LYS:C	2.52	0.47
2:H:429:SER:HB2	2:H:431:LEU:HD23	1.97	0.47
2:H:467:ASP:OD1	2:H:467:ASP:O	2.31	0.47
2:E:259:THR:O	2:E:262:GLU:N	2.48	0.47
2:E:494:THR:O	2:E:495:GLN:C	2.53	0.47
1:G:1448:ARG:O	1:G:1451:GLN:CB	2.62	0.47
2:B:246:LEU:CD2	2:B:279:THR:HG23	2.44	0.47
2:B:278:VAL:HB	2:B:303:LEU:HD21	1.96	0.47
2:B:431:LEU:HD23	2:B:431:LEU:H	1.77	0.47
2:E:1672:GLN:HB3	2:E:1781:LEU:HD11	1.97	0.47
2:B:1756:ASN:O	2:B:1757:GLU:C	2.52	0.47
2:H:1753:LYS:HG3	2:H:1754:GLU:N	2.29	0.47
2:E:162:GLY:C	2:E:164:GLY:N	2.66	0.47
2:B:18:HIS:C	2:B:20:LEU:H	2.18	0.47
2:B:41:LEU:HD22	2:B:46:GLU:C	2.33	0.47
1:A:809:GLN:O	1:A:812:ALA:HB3	2.14	0.47
2:B:1266:UNK:O	2:B:1269:UNK:N	2.47	0.47
2:B:402:LEU:HD13	2:B:405:SER:OG	2.14	0.47
1:A:1734:ASN:HA	1:A:1737:ASN:O	2.14	0.47
2:E:1867:SER:C	2:E:1869:GLU:N	2.66	0.47
2:B:1871:LEU:HD13	2:B:1882:THR:HG22	1.95	0.47
2:B:373:GLY:CA	2:B:519:ASN:OD1	2.61	0.47
2:E:922:UNK:O	2:E:924:UNK:N	2.47	0.47
1:D:930:LEU:C	1:D:932:PHE:H	2.17	0.47
1:A:389:UNK:C	1:A:391:UNK:N	2.76	0.47
1:D:377:UNK:O	1:D:380:UNK:CB	2.61	0.47
2:E:1328:UNK:O	2:E:1329:UNK:C	2.61	0.47
3:I:60:UNK:O	3:I:61:UNK:C	2.61	0.47
2:E:1551:UNK:O	2:E:1553:UNK:N	2.48	0.47
2:E:692:UNK:N	2:E:716:UNK:CB	2.77	0.47
2:B:1860:GLY:O	2:B:1861:ARG:CB	2.62	0.47
2:E:1454:UNK:CB	2:E:1505:UNK:HA	2.45	0.47
2:E:2029:UNK:C	2:E:2031:UNK:N	2.76	0.47
2:E:461:ASP:HB3	2:E:463:PHE:H	1.79	0.47
2:H:972:UNK:C	2:H:974:UNK:N	2.75	0.47
2:H:1606:UNK:O	2:H:1608:UNK:N	2.48	0.47
2:E:660:UNK:C	2:E:662:UNK:N	2.77	0.47
2:H:1252:UNK:O	2:H:1253:UNK:O	2.33	0.47
2:H:1633:UNK:O	2:H:1634:UNK:CB	2.62	0.47
2:B:1454:UNK:CB	2:B:1505:UNK:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1176:PRO:C	1:G:1177:LYS:HG3	2.35	0.47
1:A:1127:VAL:CG2	1:A:1180:ARG:HG3	2.45	0.47
1:A:1169:LYS:CG	1:A:1170:GLY:H	2.22	0.47
1:D:1156:GLU:HG2	1:D:1169:LYS:C	2.35	0.47
1:D:1179:LEU:HG	1:D:1181:PHE:CE1	2.50	0.47
1:G:1189:ILE:HG21	1:G:1377:MET:CB	2.09	0.47
1:G:1325:ARG:O	1:G:1326:ILE:HB	2.15	0.47
1:G:1418:VAL:CG1	1:G:1419:PRO:HA	2.44	0.47
1:G:1661:LEU:O	1:G:1661:LEU:CD2	2.58	0.47
1:G:1659:ASP:CA	1:G:1662:TYR:HD2	2.22	0.47
1:G:446:UNK:CB	1:G:1619:GLU:OE2	2.62	0.47
1:G:711:SER:C	1:G:713:GLN:N	2.66	0.47
1:A:1035:THR:CG2	1:A:1053:MET:SD	2.99	0.47
1:A:1106:ILE:HA	1:A:1192:GLY:CA	2.42	0.47
1:A:1107:GLU:CD	1:A:1108:PRO:CD	2.81	0.47
1:A:1200:ILE:HG13	1:A:1201:SER:N	2.30	0.47
1:A:1223:PHE:O	1:A:1228:ILE:N	2.44	0.47
1:A:1274:ILE:HG23	1:A:1275:LEU:N	2.29	0.47
1:A:1394:LEU:HD23	1:A:1673:TYR:CD1	2.50	0.47
1:A:1303:GLY:HA3	1:A:1649:LYS:HD2	1.89	0.47
1:A:1656:VAL:CG2	1:A:1657:HIS:N	2.77	0.47
1:A:779:ILE:CD1	1:A:837:GLY:HA3	2.45	0.47
1:A:839:TYR:CE1	1:A:843:LYS:CE	2.98	0.47
1:D:1583:HIS:HE2	1:D:1588:ALA:HA	1.80	0.47
1:D:1308:SER:OG	1:D:1589:GLY:HA3	2.15	0.47
1:D:1554:SER:CB	1:D:1623:TYR:OH	2.61	0.47
1:D:1701:LYS:O	1:D:1702:GLU:O	2.32	0.47
1:D:745:VAL:O	1:D:747:ALA:N	2.48	0.47
2:H:272:GLY:HA3	2:H:276:GLY:C	2.35	0.47
2:H:273:HIS:O	2:H:276:GLY:N	2.46	0.47
2:E:213:LEU:O	2:E:215:ILE:N	2.43	0.47
2:E:271:THR:HG23	2:E:460:TYR:O	2.15	0.47
2:E:467:ASP:OD1	2:E:467:ASP:O	2.32	0.47
2:E:539:ASP:O	2:E:540:ASP:C	2.51	0.47
2:B:131:ILE:CD1	2:B:182:VAL:HG13	2.42	0.47
2:B:215:ILE:O	2:B:215:ILE:HG22	2.14	0.47
2:E:1678:MET:CA	2:E:1678:MET:HE2	2.44	0.47
2:E:1718:THR:OG1	2:E:1719:ILE:N	2.47	0.47
2:E:1764:PHE:O	2:E:1765:ARG:CB	2.61	0.47
2:B:1716:ASN:C	2:B:1718:THR:H	2.18	0.47
2:B:1809:LEU:C	2:B:1811:GLU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1792:LEU:HA	2:H:1797:LEU:CD1	2.44	0.47
2:H:106:ALA:C	2:H:108:LEU:H	2.18	0.47
2:H:41:LEU:N	2:H:42:PRO:CD	2.76	0.47
2:H:173:LEU:HD23	2:H:173:LEU:C	2.34	0.47
1:G:1733:PHE:CD1	1:G:1733:PHE:N	2.82	0.47
2:H:408:PRO:CG	2:H:409:PHE:H	2.26	0.47
1:D:666:UNK:O	1:D:669:UNK:O	2.32	0.47
1:G:773:ALA:O	1:G:774:ILE:HB	2.13	0.47
2:E:1557:UNK:O	2:E:1560:UNK:N	2.47	0.47
2:B:1329:UNK:O	2:B:1333:UNK:N	2.47	0.47
1:G:378:UNK:C	1:G:380:UNK:N	2.75	0.47
2:E:765:UNK:O	2:E:766:UNK:C	2.63	0.47
2:E:972:UNK:C	2:E:974:UNK:N	2.74	0.47
2:B:395:LYS:O	2:B:396:ALA:CB	2.62	0.47
2:E:1056:UNK:O	2:E:1057:UNK:C	2.62	0.47
2:H:1638:UNK:N	2:H:1655:UNK:O	2.47	0.47
2:E:1606:UNK:O	2:E:1608:UNK:N	2.48	0.47
2:E:361:PRO:O	2:E:365:GLN:HG3	2.14	0.47
2:B:1314:UNK:O	2:B:1315:UNK:CB	2.63	0.47
3:F:24:UNK:C	3:F:26:UNK:N	2.75	0.47
2:B:1995:UNK:C	2:B:1996:UNK:O	2.62	0.47
3:F:64:UNK:O	3:F:65:UNK:O	2.31	0.47
1:G:1131:LEU:O	1:G:1173:LEU:HD13	2.14	0.47
1:A:1144:PHE:O	1:A:1147:GLN:N	2.48	0.47
1:G:1197:THR:HG23	1:G:1197:THR:O	2.14	0.47
1:G:1433:HIS:HD2	1:G:1519:ILE:HG12	1.80	0.47
1:G:1430:ARG:NH1	1:G:1652:GLN:HG3	2.29	0.47
1:G:1405:ALA:CB	1:G:1654:ILE:O	2.55	0.47
1:G:718:TYR:H	1:G:718:TYR:HD1	1.63	0.47
1:G:910:THR:CG2	1:G:913:VAL:CG2	2.93	0.47
1:A:1067:LEU:CD2	1:A:1074:GLY:H	2.27	0.47
1:A:1191:THR:OG1	1:A:1192:GLY:N	2.47	0.47
1:A:1379:ALA:N	1:A:1583:HIS:HB3	2.17	0.47
1:A:1418:VAL:HG11	1:A:1647:GLY:N	2.29	0.47
1:A:743:GLN:O	1:A:744:ASP:C	2.53	0.47
1:A:1254:VAL:CG2	1:A:1255:SER:H	2.08	0.47
1:A:1413:LYS:HD2	1:A:1425:ILE:HD12	1.97	0.47
1:A:1528:THR:HG23	1:A:1528:THR:O	2.14	0.47
1:A:1553:GLU:C	1:A:1555:ALA:N	2.67	0.47
1:A:1578:LYS:HE3	1:A:1584:PRO:CB	2.43	0.47
1:A:910:THR:HG22	1:A:913:VAL:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1089:VAL:H	1:D:1093:TYR:HD2	1.62	0.47
1:D:1194:ASN:O	1:D:1195:ALA:CB	2.63	0.47
1:D:1288:ASN:C	1:D:1290:LEU:N	2.68	0.47
1:D:1379:ALA:O	1:D:1380:GLN:C	2.50	0.47
1:D:1605:ILE:CG1	1:D:1606:PRO:HA	2.43	0.47
1:D:752:ILE:O	1:D:761:LEU:O	2.32	0.47
1:D:910:THR:O	1:D:911:PRO:C	2.50	0.47
1:D:1067:LEU:HD23	1:D:1074:GLY:N	2.29	0.47
1:D:1107:GLU:OE1	1:D:1190:PRO:HA	2.15	0.47
1:D:1275:LEU:C	1:D:1275:LEU:HD13	2.34	0.47
1:D:1308:SER:HB2	1:D:1590:ALA:CB	2.44	0.47
1:D:1367:ARG:NH1	1:D:1372:THR:HG21	2.30	0.47
1:D:1413:LYS:HD2	1:D:1425:ILE:HD12	1.96	0.47
1:D:1544:THR:HG22	1:D:1584:PRO:HG3	1.96	0.47
1:D:689:GLY:O	1:D:692:VAL:HB	2.15	0.47
1:D:785:ASP:O	1:D:786:SER:OG	2.26	0.47
1:D:860:ASN:H	1:D:861:GLN:HE21	1.61	0.47
1:D:909:LEU:HG	1:D:909:LEU:O	2.15	0.47
1:D:1459:ILE:HG22	1:D:1500:GLN:OE1	2.14	0.47
2:H:186:ASP:O	2:H:188:ILE:N	2.48	0.47
2:H:274:SER:C	2:H:276:GLY:H	2.17	0.47
2:H:234:ILE:HG12	2:H:307:GLY:HA2	1.97	0.47
2:E:272:GLY:HA3	2:E:276:GLY:C	2.34	0.47
1:G:1450:ARG:HG3	1:G:1450:ARG:NH1	2.26	0.47
2:E:261:GLY:HA2	2:E:264:ARG:CG	2.44	0.47
1:G:1456:GLU:N	1:G:1459:ILE:HG13	2.30	0.47
2:B:367:GLU:HB2	2:B:430:HIS:ND1	2.30	0.47
2:B:467:ASP:OD1	2:B:467:ASP:O	2.33	0.47
2:B:517:HIS:CD2	2:B:526:ARG:HH21	2.32	0.47
2:E:1698:PHE:O	2:E:1700:ASP:N	2.48	0.47
2:E:1706:ILE:O	2:E:1707:LEU:C	2.52	0.47
2:E:1752:PHE:O	2:E:1755:ILE:HD11	2.15	0.47
2:B:1814:ALA:HB1	2:B:1818:LEU:HD12	1.95	0.47
2:B:1764:PHE:HD1	2:B:1776:PHE:CE1	2.32	0.47
2:H:1742:VAL:HG12	2:H:1744:GLY:H	1.80	0.47
1:D:1339:GLY:O	1:D:1340:SER:C	2.51	0.47
2:H:49:ALA:N	2:H:118:LYS:HZ2	2.12	0.47
2:H:41:LEU:HD22	2:H:46:GLU:C	2.35	0.47
2:B:70:SER:O	2:B:76:LYS:HB2	2.15	0.47
1:G:796:LEU:O	1:G:799:ILE:HB	2.14	0.47
2:E:10:THR:O	2:E:11:LEU:HD23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:56:THR:N	2:E:57:PRO:HD3	2.29	0.47
1:G:449:UNK:O	1:G:451:UNK:N	2.48	0.47
2:B:408:PRO:O	2:B:409:PHE:C	2.53	0.47
2:B:408:PRO:CA	2:B:412:ARG:HB2	2.44	0.47
1:A:877:LEU:O	1:A:878:MET:CB	2.47	0.47
2:E:408:PRO:O	2:E:409:PHE:C	2.53	0.47
2:B:1878:VAL:CG1	2:B:1898:TYR:HE1	2.28	0.47
2:B:1878:VAL:HG23	2:B:1879:GLY:N	2.26	0.47
2:B:1898:TYR:CD2	2:B:1936:VAL:HG23	2.49	0.47
1:D:670:UNK:O	1:D:671:VAL:HG23	2.15	0.47
2:B:1869:GLU:O	2:B:1873:TYR:N	2.47	0.47
1:D:998:TYR:CD1	1:D:999:LYS:HG2	2.49	0.47
1:D:1487:LEU:HA	1:D:1490:THR:CG2	2.45	0.47
1:G:937:LYS:O	1:G:939:PHE:N	2.47	0.47
2:E:163:GLN:HB3	2:E:423:VAL:CG2	2.44	0.47
2:B:917:UNK:O	2:B:919:UNK:N	2.48	0.47
2:E:1196:UNK:O	2:E:1197:UNK:O	2.32	0.47
1:A:396:UNK:O	1:A:398:UNK:N	2.47	0.47
1:D:396:UNK:O	1:D:398:UNK:N	2.47	0.47
1:D:389:UNK:C	1:D:391:UNK:N	2.75	0.47
1:D:388:UNK:O	1:D:391:UNK:N	2.47	0.47
1:G:430:UNK:C	1:G:431:UNK:O	2.60	0.47
2:E:595:UNK:O	2:E:596:UNK:CB	2.62	0.47
1:D:430:UNK:C	1:D:431:UNK:O	2.62	0.47
2:H:595:UNK:O	2:H:596:UNK:CB	2.62	0.47
2:H:402:LEU:HD13	2:H:405:SER:OG	2.15	0.47
3:C:35:UNK:C	3:C:37:UNK:N	2.77	0.47
2:H:230:TYR:C	2:H:232:LEU:H	2.17	0.47
2:E:1445:UNK:C	2:E:1447:UNK:N	2.78	0.47
2:B:1965:UNK:O	2:B:1967:UNK:N	2.48	0.47
2:E:1656:UNK:O	2:E:1657:UNK:CB	2.63	0.47
2:B:1632:UNK:O	2:B:1633:UNK:CB	2.63	0.47
2:E:1357:UNK:CB	2:E:1406:UNK:N	2.78	0.47
1:D:1233:GLU:O	1:D:1233:GLU:HG2	2.15	0.47
2:H:568:UNK:C	2:H:570:UNK:N	2.77	0.47
2:E:562:UNK:O	2:E:563:UNK:C	2.63	0.47
1:G:541:UNK:C	1:G:543:UNK:N	2.77	0.47
1:D:404:UNK:O	1:D:407:UNK:N	2.48	0.47
2:B:1361:UNK:O	2:B:1362:UNK:CB	2.60	0.47
2:E:1314:UNK:O	2:E:1315:UNK:CB	2.62	0.47
1:G:1139:GLU:HG2	1:G:1140:THR:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1142:GLU:C	1:G:1144:PHE:N	2.66	0.47
1:A:1151:LYS:CE	1:A:1175:ILE:HD13	2.41	0.47
1:D:1142:GLU:N	1:D:1144:PHE:HE1	2.12	0.47
1:G:1208:VAL:CG2	1:G:1212:THR:HB	2.44	0.47
1:G:1316:VAL:HG13	1:G:1317:GLU:N	2.29	0.47
1:G:1329:VAL:CG1	1:G:1330:GLY:N	2.64	0.47
1:G:1396:MET:O	1:G:1397:GLY:O	2.33	0.47
1:G:1615:ASP:OD1	1:G:1618:LEU:HG	2.14	0.47
1:G:1711:GLU:O	1:G:1712:GLU:C	2.53	0.47
1:G:1721:ARG:O	1:G:1731:LEU:HD23	2.15	0.47
1:A:1082:GLU:C	1:A:1085:ASP:OD1	2.53	0.47
1:A:1197:THR:O	1:A:1197:THR:HG23	2.15	0.47
1:A:1528:THR:C	1:A:1529:TYR:CD1	2.88	0.47
1:A:694:GLN:HB3	1:A:725:TYR:CE2	2.49	0.47
1:A:718:TYR:H	1:A:718:TYR:HD1	1.63	0.47
1:A:910:THR:CG2	1:A:913:VAL:CG2	2.93	0.47
1:D:1000:GLN:C	1:D:1002:LYS:H	2.16	0.47
1:D:1039:MET:HE3	1:D:1042:PHE:O	2.14	0.47
1:D:1046:SER:O	1:D:1047:LEU:C	2.53	0.47
1:D:1065:GLY:C	1:D:1067:LEU:N	2.62	0.47
1:D:1302:VAL:CG2	1:D:1303:GLY:H	2.17	0.47
1:D:1398:VAL:CG1	1:D:1399:PRO:HA	2.20	0.47
1:D:717:TYR:CD2	1:D:718:TYR:CE1	2.98	0.47
1:D:824:LEU:O	1:D:826:MET:HG2	2.15	0.47
2:E:234:ILE:CG1	2:E:307:GLY:HA2	2.45	0.47
2:B:462:THR:HG21	2:B:482:CYS:O	2.15	0.47
2:B:1698:PHE:O	2:B:1700:ASP:N	2.47	0.47
2:B:1731:GLU:HA	2:B:1735:ALA:CB	2.45	0.47
2:H:1672:GLN:HB3	2:H:1781:LEU:HD11	1.96	0.47
2:H:1715:VAL:HA	2:H:1718:THR:CG2	2.44	0.47
2:H:18:HIS:C	2:H:20:LEU:H	2.18	0.47
2:H:60:LEU:N	2:H:60:LEU:HD12	2.29	0.47
1:G:790:PHE:O	1:G:791:ALA:C	2.53	0.47
2:E:41:LEU:HD22	2:E:46:GLU:C	2.34	0.47
2:E:61:VAL:C	2:E:63:LYS:H	2.16	0.47
2:B:1932:SER:C	2:B:1934:GLU:H	2.16	0.47
2:B:197:GLU:C	2:B:199:ILE:N	2.66	0.47
1:G:935:GLU:O	1:G:937:LYS:N	2.48	0.47
1:D:937:LYS:O	1:D:939:PHE:N	2.48	0.47
1:G:631:UNK:O	1:G:632:UNK:C	2.61	0.47
2:H:922:UNK:O	2:H:924:UNK:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1782:UNK:C	1:A:1784:UNK:N	2.72	0.47
2:B:1334:UNK:C	2:B:1335:UNK:O	2.62	0.47
1:D:401:UNK:C	1:D:403:UNK:N	2.77	0.47
2:B:1256:UNK:O	2:B:1258:UNK:N	2.48	0.47
2:B:1260:UNK:O	2:B:1261:UNK:C	2.62	0.47
2:H:807:UNK:N	2:H:1034:UNK:CB	2.78	0.47
2:E:1455:UNK:O	2:E:1456:UNK:C	2.62	0.47
3:F:53:UNK:O	3:F:56:UNK:N	2.48	0.47
2:H:1162:UNK:C	2:H:1164:UNK:N	2.77	0.47
2:H:1058:UNK:HA	2:H:1061:UNK:CB	2.45	0.47
1:G:624:UNK:O	1:G:625:UNK:C	2.63	0.47
1:A:1513:TYR:HD1	1:A:1513:TYR:H	1.57	0.47
2:B:1972:UNK:C	2:B:1974:UNK:N	2.76	0.47
2:H:1534:UNK:HA	2:H:1630:UNK:O	2.15	0.47
2:B:1177:UNK:O	2:B:1178:UNK:CB	2.63	0.47
1:G:1031:GLY:N	1:G:1035:THR:HG21	2.30	0.47
1:G:1112:ASN:ND2	1:G:1119:LYS:HA	2.30	0.47
1:G:1289:MET:H	1:G:1289:MET:HG2	1.52	0.47
1:A:1025:ALA:CB	1:A:1221:GLU:HB3	2.44	0.47
1:A:1308:SER:HB2	1:A:1590:ALA:CB	2.42	0.47
1:A:1423:LYS:CB	1:A:1552:ASN:ND2	2.70	0.47
1:A:1565:GLY:O	1:A:1566:ARG:O	2.33	0.47
1:A:719:GLN:OE1	1:A:1611:ALA:HB1	2.15	0.47
1:A:1302:VAL:CG2	1:A:1649:LYS:HE3	2.36	0.47
1:A:444:UNK:CB	1:A:1613:ASN:OD1	2.62	0.47
1:A:745:VAL:O	1:A:747:ALA:N	2.48	0.47
1:A:913:VAL:O	1:A:916:LEU:HB3	2.15	0.47
1:D:1062:TYR:HB2	1:D:1077:ASP:HA	1.96	0.47
1:D:1087:LYS:O	1:D:1088:ASP:HB2	2.15	0.47
1:D:1087:LYS:HE3	1:D:1089:VAL:CG1	2.45	0.47
1:D:1321:SER:O	1:D:1323:LYS:N	2.43	0.47
1:D:1366:SER:HB3	1:D:1579:PHE:HD1	1.79	0.47
1:D:1237:TYR:OH	1:D:1396:MET:CB	2.63	0.47
1:D:1661:LEU:O	1:D:1661:LEU:CD2	2.59	0.47
1:D:1681:GLU:O	1:D:1682:LYS:CB	2.63	0.47
1:A:1504:ALA:O	1:A:1505:GLN:C	2.53	0.47
2:H:253:ALA:O	2:H:255:LEU:N	2.48	0.47
2:H:278:VAL:HB	2:H:303:LEU:HD21	1.97	0.47
2:B:1753:LYS:HG3	2:B:1754:GLU:N	2.30	0.47
2:H:1730:ARG:C	2:H:1732:ASN:N	2.66	0.47
2:H:1830:VAL:O	2:H:1831:VAL:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1258:ARG:HH11	1:D:1258:ARG:CG	2.26	0.47
2:H:38:ASN:OD1	2:H:38:ASN:C	2.54	0.47
2:B:38:ASN:OD1	2:B:38:ASN:C	2.52	0.47
2:B:51:ASP:O	2:B:52:ASP:C	2.53	0.47
2:B:56:THR:O	2:B:59:GLU:HG2	2.15	0.47
2:E:38:ASN:HA	2:E:41:LEU:HG	1.97	0.47
2:E:46:GLU:O	2:E:47:GLY:C	2.52	0.47
1:A:1740:SER:O	1:A:1742:ASP:N	2.48	0.47
1:G:1665:ILE:HG22	1:G:1667:GLU:H	1.80	0.47
2:E:199:ILE:CG2	2:E:200:ARG:H	2.18	0.47
1:G:917:CYS:HA	1:G:922:VAL:HG23	1.96	0.47
1:G:1487:LEU:HA	1:G:1490:THR:CG2	2.45	0.47
2:B:926:UNK:O	2:B:927:UNK:C	2.63	0.47
2:H:1329:UNK:O	2:H:1333:UNK:N	2.47	0.47
2:B:681:UNK:O	2:B:684:UNK:N	2.48	0.47
2:B:647:UNK:HA	2:B:650:UNK:CB	2.44	0.47
2:B:649:UNK:C	2:B:651:UNK:N	2.77	0.47
2:B:652:UNK:O	2:B:653:UNK:CB	2.63	0.47
2:B:1482:UNK:O	2:B:1483:UNK:CB	2.63	0.47
3:C:53:UNK:O	3:C:56:UNK:N	2.48	0.47
2:E:1157:UNK:CB	2:E:1164:UNK:O	2.62	0.47
2:H:395:LYS:O	2:H:396:ALA:CB	2.63	0.47
3:C:59:UNK:O	3:C:60:UNK:C	2.62	0.47
2:E:742:UNK:O	2:E:745:UNK:N	2.48	0.47
2:H:1205:UNK:CB	2:H:1212:UNK:N	2.77	0.47
2:E:748:UNK:O	2:E:749:UNK:CB	2.62	0.47
2:B:606:UNK:O	2:B:607:UNK:CB	2.63	0.47
2:H:1445:UNK:O	2:H:1448:UNK:N	2.47	0.47
1:A:1141:ALA:HA	1:A:1144:PHE:CD1	2.50	0.47
1:G:1190:PRO:O	1:G:1191:THR:CG2	2.63	0.47
1:G:1550:ASP:O	1:G:1551:LYS:O	2.32	0.47
1:G:873:ARG:HG3	1:G:874:GLY:N	2.28	0.47
1:A:1036:ARG:HH21	1:A:1040:GLU:CB	2.27	0.47
1:A:1087:LYS:O	1:A:1088:ASP:HB2	2.15	0.47
1:A:1221:GLU:HA	1:A:1224:ILE:CG2	2.45	0.47
1:A:1682:LYS:HA	1:A:1685:TYR:HB3	1.97	0.47
1:A:796:LEU:HA	1:A:799:ILE:HD12	1.97	0.47
1:A:824:LEU:HD13	1:A:846:LEU:HD22	1.97	0.47
1:D:1067:LEU:HD21	1:D:1073:THR:C	2.36	0.47
1:D:1232:TYR:HE1	1:D:1705:PRO:CD	2.26	0.47
1:D:1254:VAL:C	1:D:1256:ALA:N	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1010:GLU:OE1	1:A:1013:LEU:HD11	2.15	0.47
2:H:241:ILE:HA	2:H:244:ILE:HD12	1.97	0.47
2:H:253:ALA:O	2:H:254:LYS:C	2.52	0.47
2:B:253:ALA:O	2:B:256:LEU:N	2.47	0.47
2:B:475:ILE:O	2:B:479:ILE:HG12	2.14	0.47
1:G:1475:GLU:O	1:G:1478:PRO:CD	2.63	0.47
2:E:1672:GLN:HB2	2:E:1676:MET:HE1	1.97	0.47
2:E:347:GLU:HA	2:E:350:GLN:HB3	1.96	0.47
2:B:1698:PHE:CE1	2:B:1828:VAL:HG21	2.48	0.47
1:A:1264:ARG:C	1:A:1266:LYS:H	2.17	0.47
1:D:1258:ARG:HG2	1:D:1258:ARG:NH1	2.27	0.47
2:E:19:VAL:O	2:E:23:PRO:HD3	2.15	0.47
2:E:2019:UNK:O	2:E:2020:UNK:C	2.63	0.47
2:E:408:PRO:CA	2:E:412:ARG:HB2	2.45	0.47
2:E:390:ASN:O	2:E:393:LEU:HB3	2.14	0.47
1:G:670:UNK:O	1:G:671:VAL:HG23	2.15	0.47
2:H:1879:GLY:O	2:H:1880:LYS:HB3	2.13	0.47
1:A:833:PHE:H	1:A:833:PHE:HD1	1.63	0.47
1:D:1741:LYS:HZ1	1:D:1744:TYR:HD2	1.63	0.47
2:B:1151:UNK:C	2:B:1153:UNK:N	2.78	0.47
1:D:779:ILE:CD1	1:D:837:GLY:HA3	2.45	0.47
2:B:1877:ARG:HB3	2:B:1929:LYS:HZ3	1.79	0.47
2:B:898:UNK:C	2:B:900:UNK:N	2.77	0.47
2:E:2033:UNK:C	2:E:2035:UNK:N	2.73	0.47
1:G:929:GLY:O	1:G:930:LEU:C	2.53	0.47
2:H:597:UNK:C	2:H:599:UNK:N	2.78	0.47
2:E:1332:UNK:O	2:E:1333:UNK:C	2.63	0.47
2:B:1295:UNK:O	2:B:1298:UNK:N	2.48	0.47
2:H:652:UNK:O	2:H:653:UNK:CB	2.62	0.47
2:B:618:UNK:C	2:B:620:UNK:N	2.76	0.47
3:I:53:UNK:O	3:I:56:UNK:N	2.48	0.47
2:E:974:UNK:O	2:E:978:UNK:N	2.48	0.47
2:H:1055:UNK:O	2:H:1059:UNK:N	2.47	0.47
2:H:1861:ARG:O	2:H:1862:VAL:HB	2.14	0.47
1:D:1156:GLU:CG	1:D:1169:LYS:HA	2.45	0.46
1:G:1040:GLU:O	1:G:1040:GLU:HG3	2.15	0.46
1:G:1219:VAL:HG13	1:G:1220:VAL:N	2.30	0.46
1:G:1636:VAL:O	1:G:1637:ARG:CB	2.62	0.46
1:G:705:VAL:CG2	1:G:732:LEU:HD11	2.46	0.46
1:A:1107:GLU:OE1	1:A:1190:PRO:HA	2.15	0.46
1:A:1379:ALA:O	1:A:1380:GLN:C	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1544:THR:HG22	1:A:1584:PRO:HG3	1.96	0.46
1:A:679:LEU:HD21	1:A:802:MET:CE	2.40	0.46
1:A:711:SER:O	1:A:714:VAL:N	2.49	0.46
1:A:752:ILE:O	1:A:761:LEU:O	2.33	0.46
1:A:988:ILE:O	1:A:990:LEU:N	2.48	0.46
1:D:1351:ASN:C	1:D:1352:THR:O	2.49	0.46
1:D:1353:LEU:HA	1:D:1356:PHE:HB3	1.97	0.46
1:D:1329:VAL:CG1	1:D:1385:GLN:O	2.63	0.46
1:D:1609:ARG:CD	1:D:1611:ALA:HB3	2.45	0.46
1:D:737:PHE:CZ	1:D:739:GLN:HA	2.50	0.46
2:H:148:ALA:O	2:H:150:GLY:N	2.48	0.46
2:H:248:HIS:CG	2:H:529:VAL:HG11	2.49	0.46
2:H:259:THR:H	2:H:262:GLU:HB2	1.80	0.46
2:H:272:GLY:HA3	2:H:277:LEU:HA	1.97	0.46
2:H:346:GLN:O	2:H:347:GLU:HB3	2.15	0.46
2:H:379:VAL:HG12	2:H:380:SER:N	2.30	0.46
2:B:261:GLY:HA2	2:B:264:ARG:NE	2.29	0.46
1:D:1471:LYS:O	1:D:1474:ALA:CB	2.63	0.46
2:E:1672:GLN:HB2	2:E:1676:MET:HE3	1.97	0.46
1:A:1475:GLU:O	1:A:1478:PRO:CD	2.63	0.46
1:A:758:ASN:ND2	1:A:758:ASN:N	2.63	0.46
2:E:41:LEU:N	2:E:42:PRO:CD	2.77	0.46
1:D:753:TYR:CG	1:D:809:GLN:HG2	2.51	0.46
1:A:753:TYR:CG	1:A:809:GLN:HG2	2.50	0.46
2:B:1266:UNK:O	2:B:1267:UNK:C	2.62	0.46
1:A:1735:SER:O	1:A:1737:ASN:N	2.48	0.46
2:H:408:PRO:CA	2:H:412:ARG:HB2	2.44	0.46
2:H:1871:LEU:HD13	2:H:1882:THR:CG2	2.44	0.46
1:A:917:CYS:SG	1:A:922:VAL:HG21	2.55	0.46
1:A:903:PHE:C	1:A:906:LEU:HB3	2.36	0.46
1:G:1741:LYS:O	1:G:1743:SER:N	2.46	0.46
2:H:1614:UNK:CB	2:H:1649:UNK:O	2.63	0.46
1:G:388:UNK:O	1:G:391:UNK:N	2.48	0.46
1:D:455:UNK:O	1:D:458:UNK:N	2.49	0.46
2:H:1248:UNK:O	2:H:1250:UNK:N	2.47	0.46
2:E:1972:UNK:O	2:E:1973:UNK:C	2.63	0.46
2:B:1960:UNK:O	2:B:1961:UNK:C	2.62	0.46
2:H:361:PRO:O	2:H:365:GLN:HG3	2.15	0.46
3:I:3:UNK:HA	3:I:6:UNK:CB	2.45	0.46
1:D:1748:UNK:C	1:D:1750:UNK:N	2.78	0.46
2:H:606:UNK:O	2:H:607:UNK:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1445:UNK:C	2:B:1447:UNK:N	2.77	0.46
2:B:1445:UNK:O	2:B:1447:UNK:N	2.48	0.46
2:E:1995:UNK:C	2:E:1996:UNK:O	2.63	0.46
1:A:1139:GLU:HG2	1:A:1140:THR:N	2.29	0.46
1:G:1286:TRP:HD1	1:G:1290:LEU:HD11	1.79	0.46
1:G:1323:LYS:O	1:G:1324:ALA:CB	2.63	0.46
1:G:1246:CYS:H	1:G:1328:ILE:CG2	2.28	0.46
1:G:1423:LYS:HA	1:G:1552:ASN:OD1	2.16	0.46
1:G:1378:GLU:HA	1:G:1583:HIS:C	2.36	0.46
1:G:684:GLY:C	1:G:686:GLY:N	2.67	0.46
1:G:714:VAL:O	1:G:716:ASP:N	2.48	0.46
1:A:1423:LYS:HA	1:A:1552:ASN:OD1	2.14	0.46
1:D:790:PHE:O	1:D:791:ALA:C	2.52	0.46
1:D:1454:THR:CG2	1:D:1455:ARG:N	2.61	0.46
2:H:158:ALA:C	2:H:159:ILE:HG13	2.35	0.46
2:H:213:LEU:O	2:H:213:LEU:HG	2.16	0.46
2:H:462:THR:HG21	2:H:482:CYS:O	2.15	0.46
2:E:255:LEU:C	2:E:257:GLY:H	2.18	0.46
2:E:432:LEU:HG	2:E:484:ILE:HB	1.97	0.46
2:B:240:LEU:HD12	2:B:240:LEU:N	2.29	0.46
2:E:1753:LYS:O	2:E:1754:GLU:HB3	2.15	0.46
2:E:1809:LEU:C	2:E:1811:GLU:N	2.68	0.46
2:B:1737:ILE:HD13	2:B:1738:PHE:N	2.30	0.46
2:B:1782:THR:HG21	2:B:1831:VAL:HG21	1.95	0.46
2:B:1806:GLY:HA3	2:B:1811:GLU:HG2	1.96	0.46
2:B:1807:HIS:O	2:B:1809:LEU:N	2.49	0.46
2:B:60:LEU:HD11	2:B:121:GLU:OE2	2.15	0.46
2:B:122:LEU:O	2:B:125:ASN:HB2	2.15	0.46
2:B:38:ASN:HA	2:B:41:LEU:HG	1.96	0.46
1:G:796:LEU:HA	1:G:799:ILE:HD12	1.97	0.46
2:H:1869:GLU:O	2:H:1873:TYR:N	2.48	0.46
1:G:1491:ARG:NH1	1:G:1491:ARG:HG2	2.29	0.46
2:H:1151:UNK:C	2:H:1153:UNK:N	2.78	0.46
1:D:929:GLY:C	1:D:931:GLN:N	2.67	0.46
2:B:2037:UNK:O	2:B:2041:UNK:CB	2.63	0.46
1:A:893:VAL:O	1:A:895:THR:N	2.38	0.46
1:A:895:THR:OG1	1:A:928:GLY:HA3	2.15	0.46
2:B:1332:UNK:O	2:B:1333:UNK:C	2.63	0.46
2:E:1419:UNK:C	2:E:1421:UNK:N	2.77	0.46
2:B:4:TYR:HD1	2:B:5:SER:N	2.14	0.46
2:E:1260:UNK:O	2:E:1261:UNK:C	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:813:UNK:C	2:B:815:UNK:N	2.76	0.46
2:H:796:UNK:O	2:H:797:UNK:O	2.34	0.46
1:D:460:UNK:O	1:D:462:UNK:N	2.48	0.46
2:B:862:UNK:O	2:B:863:UNK:C	2.63	0.46
1:A:563:UNK:O	1:A:565:UNK:N	2.48	0.46
2:E:1162:UNK:C	2:E:1164:UNK:N	2.78	0.46
2:B:577:UNK:C	2:B:579:UNK:N	2.74	0.46
2:E:1342:UNK:C	2:E:1344:UNK:N	2.77	0.46
1:A:169:UNK:O	1:A:170:UNK:CB	2.61	0.46
2:H:1445:UNK:O	2:H:1447:UNK:N	2.48	0.46
1:A:1748:UNK:C	1:A:1750:UNK:N	2.77	0.46
2:B:1656:UNK:O	2:B:1657:UNK:CB	2.62	0.46
1:G:643:UNK:C	1:G:645:UNK:N	2.78	0.46
1:A:1151:LYS:HD2	1:A:1151:LYS:N	2.27	0.46
1:G:1030:TRP:CD1	1:G:1030:TRP:N	2.82	0.46
1:G:1087:LYS:HE3	1:G:1089:VAL:HG13	1.97	0.46
1:G:1215:VAL:HG23	1:G:1216:LEU:N	2.30	0.46
1:G:1354:GLU:O	1:G:1358:HIS:N	2.42	0.46
1:G:1615:ASP:CG	1:G:1617:ILE:HG12	2.36	0.46
1:G:1605:ILE:CG1	1:G:1628:SER:HB3	2.44	0.46
1:A:1229:THR:O	1:A:1230:ASP:HB3	2.14	0.46
1:A:1208:VAL:C	1:A:1277:GLU:HG2	2.35	0.46
1:A:1351:ASN:C	1:A:1352:THR:O	2.47	0.46
1:A:1615:ASP:OD1	1:A:1618:LEU:HG	2.16	0.46
1:A:1618:LEU:HD22	1:A:1623:TYR:CZ	2.50	0.46
1:A:797:THR:CA	1:A:800:LEU:HD23	2.45	0.46
1:D:1213:LEU:O	1:D:1214:PHE:C	2.53	0.46
1:D:1223:PHE:O	1:D:1228:ILE:N	2.45	0.46
1:D:1366:SER:O	1:D:1579:PHE:CD1	2.68	0.46
1:D:1396:MET:O	1:D:1397:GLY:O	2.33	0.46
1:A:1456:GLU:N	1:A:1459:ILE:HG13	2.28	0.46
2:H:246:LEU:CD2	2:H:279:THR:HG23	2.45	0.46
2:H:517:HIS:O	2:H:518:ARG:C	2.52	0.46
2:E:186:ASP:O	2:E:188:ILE:N	2.48	0.46
2:B:489:LYS:O	2:B:490:TRP:C	2.53	0.46
1:G:1476:GLU:O	1:G:1477:ILE:CG1	2.57	0.46
1:D:1478:PRO:O	1:D:1479:SER:HB3	2.15	0.46
2:E:1715:VAL:HA	2:E:1718:THR:HG22	1.97	0.46
1:A:1476:GLU:O	1:A:1477:ILE:CG1	2.55	0.46
2:B:1673:GLU:O	2:B:1674:GLN:C	2.54	0.46
2:B:1778:GLN:OE1	2:B:1834:ARG:HD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1750:LYS:O	2:H:1751:ILE:C	2.53	0.46
2:H:1764:PHE:HD1	2:H:1776:PHE:CE1	2.33	0.46
2:B:10:THR:O	2:B:11:LEU:HD23	2.14	0.46
2:B:41:LEU:HB3	2:B:46:GLU:N	2.19	0.46
2:E:1863:ALA:O	2:E:1864:ALA:HB3	2.15	0.46
2:H:416:PHE:HB3	2:H:418:ASN:HD21	1.80	0.46
2:E:393:LEU:HG	2:E:418:ASN:OD1	2.15	0.46
2:H:163:GLN:HB3	2:H:423:VAL:CG2	2.42	0.46
1:A:631:UNK:O	1:A:632:UNK:C	2.64	0.46
2:B:163:GLN:HB3	2:B:423:VAL:CG2	2.42	0.46
2:B:915:UNK:C	2:B:917:UNK:N	2.78	0.46
2:H:917:UNK:O	2:H:919:UNK:N	2.49	0.46
1:D:927:ASN:OD1	1:D:930:LEU:HB2	2.15	0.46
2:H:1557:UNK:O	2:H:1560:UNK:N	2.48	0.46
1:G:495:UNK:O	1:G:497:UNK:N	2.49	0.46
2:B:681:UNK:O	2:B:682:UNK:C	2.63	0.46
2:E:1329:UNK:O	2:E:1333:UNK:N	2.49	0.46
2:H:846:UNK:C	2:H:848:UNK:N	2.78	0.46
2:H:1256:UNK:C	2:H:1258:UNK:N	2.78	0.46
3:F:29:UNK:O	3:F:30:UNK:C	2.63	0.46
2:B:595:UNK:O	2:B:596:UNK:CB	2.63	0.46
2:H:1960:UNK:O	2:H:1961:UNK:C	2.62	0.46
2:H:738:UNK:O	2:H:739:UNK:C	2.63	0.46
2:E:2028:UNK:O	2:E:2029:UNK:C	2.63	0.46
1:A:662:UNK:O	1:A:663:UNK:C	2.62	0.46
2:E:2004:UNK:O	2:E:2005:UNK:C	2.62	0.46
1:G:602:UNK:O	1:G:603:UNK:O	2.34	0.46
2:B:227:ASP:HB3	2:B:228:LYS:H	1.59	0.46
2:H:1462:UNK:C	2:H:1464:UNK:N	2.79	0.46
1:D:1128:GLU:HA	1:D:1177:LYS:CA	2.44	0.46
1:D:1128:GLU:CB	1:D:1177:LYS:HG2	2.46	0.46
1:G:1083:PRO:C	1:G:1085:ASP:H	2.18	0.46
1:G:1208:VAL:HG23	1:G:1209:ASP:N	2.30	0.46
1:G:1640:SER:CB	1:G:1654:ILE:HB	2.45	0.46
1:G:710:PHE:HD1	1:G:736:PRO:HB3	1.74	0.46
1:A:1020:VAL:CG1	1:A:1021:VAL:N	2.79	0.46
1:A:1091:ALA:C	1:A:1093:TYR:N	2.66	0.46
1:A:1028:GLY:C	1:A:1193:TRP:HE1	2.19	0.46
1:A:1246:CYS:H	1:A:1328:ILE:CG2	2.28	0.46
1:A:1328:ILE:HG12	1:A:1328:ILE:O	2.15	0.46
1:A:1418:VAL:HA	1:A:1419:PRO:C	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1605:ILE:CG1	1:A:1628:SER:HB3	2.43	0.46
1:A:1714:VAL:HG13	1:A:1731:LEU:HD22	1.97	0.46
1:A:773:ALA:O	1:A:774:ILE:HB	2.14	0.46
1:A:873:ARG:HD2	1:A:882:ASN:HA	1.98	0.46
1:D:1083:PRO:C	1:D:1085:ASP:H	2.19	0.46
1:D:1427:THR:O	1:D:1430:ARG:N	2.49	0.46
1:D:1539:ALA:O	1:D:1575:VAL:HG23	2.15	0.46
1:D:796:LEU:O	1:D:799:ILE:HB	2.15	0.46
1:A:1447:TYR:HB3	1:A:1448:ARG:H	1.44	0.46
2:H:347:GLU:HA	2:H:350:GLN:HB3	1.97	0.46
2:H:539:ASP:O	2:H:540:ASP:C	2.53	0.46
2:E:241:ILE:CG2	2:E:275:GLN:NE2	2.64	0.46
2:E:157:VAL:HG21	2:E:498:ALA:HB2	1.98	0.46
2:B:131:ILE:HG12	2:B:131:ILE:O	2.15	0.46
2:B:213:LEU:HG	2:B:213:LEU:O	2.15	0.46
2:H:1772:SER:C	2:H:1774:THR:N	2.69	0.46
2:H:1809:LEU:C	2:H:1811:GLU:H	2.19	0.46
2:H:1825:GLU:HB2	2:H:1826:SER:H	1.52	0.46
1:G:737:PHE:CZ	1:G:739:GLN:HA	2.50	0.46
1:G:796:LEU:HD12	1:G:800:LEU:HD21	1.97	0.46
2:E:106:ALA:C	2:E:108:LEU:H	2.19	0.46
2:B:330:ASN:OD1	2:B:394:ARG:HG2	2.16	0.46
2:H:1903:ASP:OD1	2:H:1904:LEU:N	2.49	0.46
1:G:1495:ASN:O	1:G:1496:GLU:C	2.51	0.46
1:A:1491:ARG:O	1:A:1494:HIS:HB3	2.15	0.46
1:G:632:UNK:CB	1:G:894:ARG:NH1	2.75	0.46
2:H:1419:UNK:C	2:H:1421:UNK:N	2.78	0.46
2:B:846:UNK:C	2:B:848:UNK:N	2.79	0.46
2:H:1476:UNK:HA	2:H:1486:UNK:CB	2.45	0.46
2:E:148:ALA:O	2:E:150:GLY:N	2.49	0.46
2:B:1157:UNK:CB	2:B:1164:UNK:O	2.63	0.46
2:B:738:UNK:O	2:B:739:UNK:C	2.63	0.46
2:B:742:UNK:O	2:B:745:UNK:N	2.49	0.46
2:B:1972:UNK:O	2:B:1973:UNK:C	2.62	0.46
2:H:452:ALA:C	2:H:454:ASP:H	2.19	0.46
2:H:562:UNK:O	2:H:563:UNK:C	2.64	0.46
1:G:813:ARG:HG3	1:G:813:ARG:HH11	1.81	0.46
2:B:342:SER:OG	2:B:343:ASN:N	2.48	0.46
1:A:643:UNK:C	1:A:645:UNK:N	2.77	0.46
1:A:1146:HIS:C	1:A:1148:HIS:N	2.65	0.46
1:A:1179:LEU:HG	1:A:1181:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1106:ILE:HA	1:G:1192:GLY:CA	2.45	0.46
1:G:1246:CYS:HB2	1:G:1329:VAL:O	2.16	0.46
1:G:1308:SER:OG	1:G:1590:ALA:N	2.38	0.46
1:G:1525:ALA:O	1:G:1527:ALA:N	2.49	0.46
1:G:1606:PRO:O	1:G:1626:TYR:C	2.54	0.46
1:G:1681:GLU:O	1:G:1682:LYS:CB	2.63	0.46
1:G:871:TRP:CZ2	1:G:881:ASN:HB2	2.50	0.46
1:A:1198:TYR:CE2	1:A:1217:VAL:CG1	2.99	0.46
1:A:1519:ILE:CG1	1:A:1521:PRO:HD2	2.46	0.46
1:A:1597:LEU:HD23	1:A:1597:LEU:N	2.30	0.46
1:D:1291:LEU:O	1:D:1292:ILE:C	2.53	0.46
1:D:1301:PRO:HB3	1:D:1314:ILE:CD1	2.46	0.46
1:D:1328:ILE:HG12	1:D:1328:ILE:O	2.15	0.46
1:D:1418:VAL:CG1	1:D:1419:PRO:HA	2.44	0.46
1:D:714:VAL:O	1:D:716:ASP:N	2.49	0.46
2:H:187:LEU:HA	2:H:187:LEU:HD23	1.74	0.46
2:H:253:ALA:O	2:H:256:LEU:N	2.48	0.46
2:E:246:LEU:HD23	2:E:279:THR:HG23	1.97	0.46
1:G:1459:ILE:HG22	1:G:1500:GLN:OE1	2.15	0.46
2:B:526:ARG:CD	2:B:526:ARG:N	2.69	0.46
2:B:540:ASP:HB2	2:B:544:LYS:CE	2.45	0.46
1:D:1471:LYS:O	1:D:1474:ALA:N	2.48	0.46
2:E:1673:GLU:O	2:E:1674:GLN:C	2.54	0.46
2:E:1716:ASN:C	2:E:1718:THR:H	2.18	0.46
2:E:1731:GLU:HA	2:E:1735:ALA:CB	2.45	0.46
2:E:383:PRO:O	2:E:384:GLN:O	2.33	0.46
2:B:1716:ASN:O	2:B:1765:ARG:HB2	2.16	0.46
2:E:79:GLN:HB3	2:E:80:PHE:CD1	2.50	0.46
1:G:458:UNK:CB	1:G:1631:LEU:HG	2.46	0.46
2:B:1901:ALA:HA	2:B:1905:ARG:HH21	1.80	0.46
2:H:1857:ILE:HG22	2:H:1858:ASN:N	2.31	0.46
2:E:330:ASN:O	2:E:330:ASN:ND2	2.48	0.46
2:B:1871:LEU:HD13	2:B:1882:THR:CG2	2.45	0.46
1:D:1492:GLU:O	1:D:1496:GLU:OE1	2.33	0.46
2:E:373:GLY:CA	2:E:519:ASN:OD1	2.59	0.46
2:E:923:UNK:C	2:E:927:UNK:CB	2.93	0.46
2:E:898:UNK:C	2:E:900:UNK:N	2.79	0.46
1:A:949:GLU:OE2	2:B:1440:UNK:CB	2.63	0.46
2:B:1418:UNK:O	2:B:1420:UNK:N	2.48	0.46
1:A:534:UNK:HA	1:A:537:UNK:CB	2.45	0.46
1:G:970:GLY:O	1:G:971:ASN:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1860:GLY:O	2:E:1861:ARG:CB	2.63	0.46
1:A:1515:ARG:O	1:A:1516:ASP:C	2.54	0.46
1:D:662:UNK:O	1:D:663:UNK:C	2.63	0.46
2:H:329:GLU:C	2:H:331:ASN:N	2.67	0.46
2:B:329:GLU:C	2:B:331:ASN:N	2.66	0.46
2:E:227:ASP:HB3	2:E:229:ASP:H	1.81	0.46
1:G:1151:LYS:CG	1:G:1175:ILE:CD1	2.94	0.46
1:G:1127:VAL:HG23	1:G:1180:ARG:HB2	1.97	0.46
1:G:1222:ALA:O	1:G:1225:ALA:N	2.36	0.46
1:G:1302:VAL:CG2	1:G:1649:LYS:HE3	2.39	0.46
1:A:1119:LYS:CE	1:A:1121:MET:HG3	2.45	0.46
1:A:1190:PRO:O	1:A:1191:THR:CB	2.64	0.46
1:A:1260:MET:HB3	1:A:1261:PHE:CE2	2.51	0.46
1:A:1303:GLY:O	1:A:1304:ALA:C	2.54	0.46
1:A:1562:LYS:O	1:A:1564:LEU:N	2.48	0.46
1:A:1721:ARG:O	1:A:1731:LEU:HD23	2.16	0.46
1:A:691:GLU:OE2	1:A:900:GLU:HG2	2.15	0.46
1:A:858:TRP:CZ3	1:A:862:LEU:HB2	2.51	0.46
1:D:1031:GLY:N	1:D:1035:THR:HG21	2.29	0.46
1:D:1299:LYS:CE	1:D:1323:LYS:HZ1	2.28	0.46
1:D:1373:ARG:HG2	1:D:1547:LYS:HB3	1.97	0.46
1:D:1418:VAL:HG11	1:D:1647:GLY:H	1.81	0.46
1:D:1700:SER:HA	1:D:1701:LYS:CE	2.46	0.46
1:D:1711:GLU:O	1:D:1712:GLU:C	2.53	0.46
1:D:693:LEU:O	1:D:695:GLY:N	2.49	0.46
1:D:745:VAL:O	1:D:746:GLU:C	2.54	0.46
1:D:610:UNK:CB	1:D:873:ARG:HH21	2.28	0.46
1:A:1466:GLU:O	1:A:1469:ALA:N	2.49	0.46
2:H:184:VAL:O	2:H:185:GLY:C	2.54	0.46
2:H:511:GLY:C	2:H:513:GLY:H	2.17	0.46
2:H:528:ILE:CG2	2:H:529:VAL:N	2.77	0.46
2:E:1678:MET:CE	2:E:1678:MET:HA	2.36	0.46
2:E:1809:LEU:C	2:E:1811:GLU:H	2.18	0.46
2:E:525:VAL:O	2:E:526:ARG:C	2.54	0.46
2:B:1705:SER:O	2:B:1708:ASP:HB3	2.15	0.46
2:H:1757:GLU:HB2	2:H:1758:HIS:H	1.54	0.46
2:B:168:ASP:CB	2:B:171:GLU:HB2	2.30	0.46
1:G:758:ASN:N	1:G:758:ASN:ND2	2.63	0.46
2:H:79:GLN:HB3	2:H:80:PHE:CD1	2.50	0.46
2:H:214:ASN:C	2:H:216:LEU:N	2.67	0.46
1:G:677:TYR:C	1:G:678:VAL:HG23	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:14:GLY:HA3	2:E:18:HIS:CG	2.50	0.46
2:E:56:THR:HG22	2:E:56:THR:O	2.15	0.46
2:B:1855:ILE:CG2	2:B:1951:UNK:HA	2.43	0.46
2:E:1903:ASP:O	2:E:1906:ALA:N	2.47	0.46
1:A:556:UNK:C	1:A:558:UNK:N	2.77	0.46
1:D:1486:LEU:HD12	1:D:1754:UNK:O	2.16	0.46
1:G:1487:LEU:HA	1:G:1490:THR:HG21	1.97	0.46
1:G:527:UNK:C	1:G:529:UNK:N	2.73	0.46
2:E:1151:UNK:C	2:E:1153:UNK:N	2.78	0.46
2:B:494:THR:O	2:B:495:GLN:C	2.53	0.46
1:A:485:UNK:O	1:A:487:UNK:N	2.48	0.46
1:A:927:ASN:OD1	1:A:930:LEU:HB2	2.15	0.46
2:E:323:ILE:O	2:E:324:LEU:C	2.51	0.46
2:B:1419:UNK:C	2:B:1421:UNK:N	2.76	0.46
3:I:29:UNK:O	3:I:30:UNK:C	2.63	0.46
2:B:1205:UNK:CB	2:B:1212:UNK:N	2.79	0.46
1:G:1091:ALA:C	1:G:1093:TYR:N	2.66	0.46
1:G:1119:LYS:CE	1:G:1121:MET:HB2	2.38	0.46
1:G:1291:LEU:O	1:G:1292:ILE:C	2.53	0.46
1:G:1376:PHE:O	1:G:1377:MET:CG	2.64	0.46
1:G:1430:ARG:HH12	1:G:1652:GLN:HG3	1.81	0.46
1:G:1418:VAL:HG11	1:G:1647:GLY:H	1.80	0.46
1:G:1682:LYS:HA	1:G:1685:TYR:HB3	1.98	0.46
1:G:1707:THR:HG23	1:G:1710:LEU:CG	2.44	0.46
1:G:710:PHE:CE1	1:G:736:PRO:HB3	2.50	0.46
1:A:1208:VAL:CG2	1:A:1212:THR:HB	2.46	0.46
1:A:1540:SER:OG	1:A:1592:MET:HB3	2.15	0.46
1:A:1613:ASN:CG	1:A:1614:VAL:N	2.68	0.46
1:A:677:TYR:O	1:A:678:VAL:CG2	2.64	0.46
1:A:695:GLY:O	1:A:696:LEU:C	2.53	0.46
1:A:705:VAL:CG2	1:A:732:LEU:HD11	2.46	0.46
1:A:710:PHE:CE1	1:A:736:PRO:HB3	2.51	0.46
1:A:901:MET:O	1:A:902:ALA:C	2.54	0.46
1:A:990:LEU:O	1:A:991:ASP:O	2.34	0.46
1:D:717:TYR:CD2	1:D:718:TYR:CD1	3.02	0.46
1:D:864:VAL:CG1	1:D:865:CYS:N	2.76	0.46
1:D:901:MET:CE	1:D:905:LEU:CD2	2.94	0.46
1:D:910:THR:CG2	1:D:913:VAL:CG2	2.93	0.46
1:D:1456:GLU:N	1:D:1459:ILE:CG1	2.69	0.46
2:E:240:LEU:N	2:E:240:LEU:HD12	2.31	0.46
2:E:1715:VAL:HA	2:E:1718:THR:CG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1734:SER:O	2:E:1735:ALA:C	2.54	0.46
2:E:1754:GLU:O	2:E:1756:ASN:N	2.48	0.46
2:B:1806:GLY:HA3	2:B:1811:GLU:CA	2.44	0.46
2:H:1731:GLU:HA	2:H:1735:ALA:CB	2.46	0.46
2:H:1806:GLY:HA3	2:H:1811:GLU:CA	2.42	0.46
1:D:758:ASN:ND2	1:D:758:ASN:N	2.62	0.46
2:H:11:LEU:O	2:H:12:SER:C	2.54	0.46
2:H:1:MET:HE3	2:H:19:VAL:HG13	1.97	0.46
2:H:70:SER:O	2:H:76:LYS:HB2	2.16	0.46
2:B:59:GLU:OE1	2:B:122:LEU:CA	2.62	0.46
2:B:13:HIS:O	2:B:15:SER:N	2.48	0.46
1:G:743:GLN:O	1:G:744:ASP:C	2.54	0.46
1:G:745:VAL:O	1:G:746:GLU:C	2.52	0.46
1:G:784:ILE:O	1:G:788:SER:HB2	2.16	0.46
2:H:1863:ALA:HA	2:H:1866:PHE:CG	2.51	0.46
2:B:1379:UNK:CA	2:B:1426:UNK:HA	2.38	0.46
2:B:1038:UNK:C	2:B:1040:UNK:N	2.78	0.46
1:D:378:UNK:C	1:D:380:UNK:N	2.74	0.46
2:E:681:UNK:O	2:E:682:UNK:C	2.63	0.46
1:A:426:UNK:O	1:A:427:UNK:C	2.64	0.46
3:C:53:UNK:O	3:C:55:UNK:N	2.49	0.46
1:G:565:UNK:O	1:G:569:UNK:N	2.48	0.46
2:H:1058:UNK:C	2:H:1060:UNK:N	2.76	0.46
2:H:1445:UNK:C	2:H:1447:UNK:N	2.78	0.46
1:D:620:UNK:O	1:D:621:UNK:C	2.63	0.46
1:G:1515:ARG:O	1:G:1516:ASP:C	2.53	0.46
2:B:1606:UNK:O	2:B:1608:UNK:N	2.49	0.46
2:H:2028:UNK:O	2:H:2029:UNK:C	2.63	0.46
1:G:1039:MET:SD	1:G:1043:GLY:O	2.73	0.46
1:G:1061:SER:O	1:G:1062:TYR:O	2.33	0.46
1:G:1089:VAL:H	1:G:1093:TYR:HD2	1.63	0.46
1:G:1195:ALA:O	1:G:1196:LYS:NZ	2.48	0.46
1:G:1553:GLU:C	1:G:1555:ALA:N	2.68	0.46
1:G:1555:ALA:HA	1:G:1558:ASN:CB	2.46	0.46
1:A:1062:TYR:HB2	1:A:1077:ASP:HA	1.96	0.46
1:A:1224:ILE:CD1	1:A:1687:PHE:HD2	2.28	0.46
1:A:1393:ALA:HB1	1:A:1398:VAL:HG11	1.98	0.46
1:A:1584:PRO:HG2	1:A:1584:PRO:O	2.15	0.46
1:A:798:ASN:O	1:A:799:ILE:C	2.53	0.46
1:A:776:GLU:OE2	1:A:838:MET:N	2.49	0.46
1:D:1246:CYS:HB3	1:D:1328:ILE:CG2	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1329:VAL:HG13	1:D:1384:ILE:HD12	1.97	0.46
1:D:1408:ALA:CB	1:D:1652:GLN:N	2.79	0.46
1:D:1582:GLY:O	1:D:1583:HIS:C	2.53	0.46
1:D:678:VAL:HG21	1:D:767:ALA:HB3	1.97	0.46
1:A:1445:MET:O	1:A:1446:LYS:C	2.54	0.46
1:A:1504:ALA:O	1:A:1506:GLN:N	2.49	0.46
2:H:261:GLY:HA2	2:H:264:ARG:CG	2.46	0.46
2:H:344:LEU:HD13	2:H:345:THR:N	2.22	0.46
2:H:517:HIS:CD2	2:H:526:ARG:HH21	2.34	0.46
2:E:149:VAL:HG22	2:E:155:GLN:CA	2.46	0.46
2:B:209:PHE:O	2:B:210:THR:C	2.54	0.46
2:B:279:THR:HG22	2:B:283:ILE:HD12	1.96	0.46
2:B:259:THR:HG22	2:B:288:SER:HA	1.97	0.46
2:E:1686:ALA:O	2:E:1687:ALA:C	2.54	0.46
2:E:1731:GLU:HA	2:E:1735:ALA:HB3	1.97	0.46
2:E:1772:SER:C	2:E:1774:THR:H	2.18	0.46
2:E:1782:THR:HG21	2:E:1831:VAL:HG21	1.97	0.46
2:E:1792:LEU:CA	2:E:1797:LEU:HD12	2.45	0.46
2:E:1806:GLY:HA3	2:E:1811:GLU:CA	2.43	0.46
2:E:375:LYS:HG3	2:E:376:ASN:ND2	2.31	0.46
2:B:1754:GLU:O	2:B:1756:ASN:N	2.49	0.46
1:D:1341:PHE:O	1:D:1342:GLU:CB	2.54	0.46
2:H:12:SER:O	2:H:13:HIS:C	2.54	0.46
2:H:14:GLY:HA3	2:H:18:HIS:CG	2.51	0.46
2:B:45:THR:CG2	2:B:46:GLU:OE1	2.64	0.46
1:G:1665:ILE:HD12	1:G:1669:ARG:HB2	1.97	0.46
1:G:556:UNK:C	1:G:558:UNK:N	2.77	0.46
2:B:387:TYR:O	2:B:390:ASN:N	2.49	0.46
2:E:1898:TYR:CD2	2:E:1936:VAL:HG23	2.51	0.46
1:G:917:CYS:SG	1:G:922:VAL:HG21	2.55	0.46
2:E:1038:UNK:C	2:E:1040:UNK:N	2.79	0.46
2:H:1045:UNK:C	2:H:1047:UNK:N	2.78	0.46
2:H:1169:UNK:C	2:H:1171:UNK:H2	2.29	0.46
1:D:170:UNK:O	1:D:171:UNK:CB	2.63	0.46
2:B:1445:UNK:O	2:B:1448:UNK:N	2.49	0.46
2:H:869:UNK:C	2:H:871:UNK:N	2.74	0.46
2:H:1220:UNK:C	2:H:1222:UNK:H	2.28	0.46
2:H:227:ASP:HB3	2:H:229:ASP:H	1.80	0.46
2:B:880:UNK:CB	2:B:989:UNK:O	2.64	0.46
2:B:660:UNK:C	2:B:662:UNK:N	2.78	0.46
1:D:1779:UNK:C	1:D:1781:UNK:N	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1128:GLU:HA	1:G:1177:LYS:CA	2.44	0.46
1:G:1133:PRO:CD	1:G:1173:LEU:HD13	2.46	0.46
1:A:1138:LYS:NZ	1:G:243:UNK:CB	2.79	0.46
1:D:1141:ALA:HA	1:D:1144:PHE:HE1	1.76	0.46
1:D:1165:VAL:CG2	1:D:1166:LYS:H	2.25	0.46
1:G:1020:VAL:CG1	1:G:1021:VAL:N	2.78	0.46
1:G:1248:GLY:O	1:G:1300:THR:HA	2.15	0.46
1:A:1087:LYS:HE3	1:A:1089:VAL:HG13	1.98	0.46
1:A:1323:LYS:O	1:A:1324:ALA:CB	2.64	0.46
1:A:1396:MET:HG2	1:A:1676:LYS:CE	2.46	0.46
1:A:1290:LEU:CA	1:A:1701:LYS:HD2	2.46	0.46
1:A:784:ILE:O	1:A:788:SER:HB2	2.15	0.46
1:A:869:ILE:CG2	1:A:926:LEU:HB2	2.39	0.46
1:D:1103:ILE:O	1:D:1106:ILE:CG1	2.64	0.46
1:D:1119:LYS:CE	1:D:1121:MET:HB2	2.40	0.46
1:D:1433:HIS:HD2	1:D:1519:ILE:HG12	1.80	0.46
1:D:1557:ILE:HA	1:D:1560:MET:SD	2.56	0.46
1:D:1010:GLU:O	1:D:1011:GLY:C	2.53	0.46
1:D:1502:ARG:O	1:D:1503:ALA:C	2.54	0.46
1:D:1504:ALA:O	1:D:1505:GLN:C	2.54	0.46
1:A:1453:VAL:O	1:A:1457:ALA:CB	2.64	0.46
2:E:184:VAL:O	2:E:185:GLY:C	2.54	0.46
2:E:248:HIS:O	2:E:249:TYR:C	2.55	0.46
2:E:160:PHE:CZ	2:E:283:ILE:HD12	2.51	0.46
2:E:1753:LYS:HG3	2:E:1754:GLU:N	2.31	0.46
2:E:1790:GLU:O	2:E:1791:ASP:C	2.54	0.46
2:E:1830:VAL:CG1	2:E:1831:VAL:N	2.79	0.46
2:H:1751:ILE:HD13	2:H:1840:VAL:CG2	2.42	0.46
2:H:1792:LEU:HD23	2:H:1792:LEU:N	2.31	0.46
2:H:1792:LEU:CA	2:H:1797:LEU:HD12	2.45	0.46
1:A:755:THR:HG22	1:A:756:GLU:N	2.29	0.46
2:B:31:SER:O	2:B:34:GLN:N	2.49	0.46
2:E:119:THR:O	2:E:122:LEU:HB3	2.16	0.46
2:E:13:HIS:O	2:E:15:SER:N	2.49	0.46
1:G:1203:ASP:C	1:G:1205:ILE:H	2.14	0.46
1:A:1733:PHE:CD1	1:A:1733:PHE:N	2.83	0.46
1:A:1719:LEU:CB	1:A:1737:ASN:OD1	2.64	0.46
2:E:926:UNK:O	2:E:927:UNK:C	2.62	0.46
1:G:779:ILE:HD12	1:G:837:GLY:HA3	1.98	0.46
2:B:1929:LYS:CA	2:B:1929:LYS:HE2	2.45	0.46
1:A:949:GLU:CD	2:B:1440:UNK:CB	2.85	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:843:UNK:O	2:H:846:UNK:N	2.49	0.46
2:B:801:UNK:C	2:B:803:UNK:N	2.78	0.46
3:C:3:UNK:HA	3:C:6:UNK:CB	2.46	0.46
2:E:1960:UNK:O	2:E:1961:UNK:C	2.63	0.46
3:C:29:UNK:O	3:C:30:UNK:C	2.63	0.46
2:B:1633:UNK:O	2:B:1634:UNK:CB	2.64	0.46
1:G:481:UNK:O	1:G:483:UNK:N	2.49	0.46
2:B:28:PHE:HD2	2:B:28:PHE:HA	1.66	0.46
1:A:407:UNK:C	1:A:409:UNK:N	2.78	0.46
2:H:660:UNK:C	2:H:662:UNK:N	2.78	0.46
2:E:568:UNK:C	2:E:570:UNK:N	2.78	0.46
1:A:541:UNK:C	1:A:543:UNK:N	2.79	0.46
1:G:1067:LEU:HA	1:G:1074:GLY:O	2.16	0.46
1:G:1112:ASN:C	1:G:1114:TYR:N	2.56	0.46
1:G:993:PRO:HA	1:G:1681:GLU:OE1	2.15	0.46
1:A:1036:ARG:O	1:A:1039:MET:N	2.49	0.46
1:A:1063:HIS:CD2	1:A:1065:GLY:CA	2.98	0.46
1:A:796:LEU:O	1:A:799:ILE:HB	2.16	0.46
1:D:1219:VAL:HG13	1:D:1220:VAL:N	2.30	0.46
1:D:1396:MET:HG2	1:D:1676:LYS:HE2	1.97	0.46
1:D:1542:HIS:O	1:D:1544:THR:N	2.49	0.46
1:D:1700:SER:C	1:D:1701:LYS:HD3	2.36	0.46
1:D:444:UNK:CB	1:D:1613:ASN:OD1	2.64	0.46
1:A:1460:LYS:HD3	1:A:1778:UNK:CB	2.46	0.46
2:H:345:THR:O	2:H:349:VAL:HG23	2.16	0.46
2:E:1750:LYS:O	2:E:1751:ILE:C	2.54	0.46
2:B:1753:LYS:O	2:B:1754:GLU:HB3	2.16	0.46
2:B:1778:GLN:NE2	2:B:1835:GLY:HA2	2.30	0.46
2:B:1830:VAL:C	2:B:1832:PHE:N	2.66	0.46
2:H:1812:TYR:C	2:H:1814:ALA:N	2.70	0.46
2:B:60:LEU:HD12	2:B:60:LEU:N	2.31	0.46
2:E:37:PHE:HA	2:E:37:PHE:HD2	1.67	0.46
1:G:451:UNK:O	1:G:452:UNK:C	2.64	0.46
2:E:408:PRO:CG	2:E:409:PHE:H	2.28	0.46
2:E:408:PRO:HD3	2:E:731:UNK:O	2.15	0.46
1:D:1740:SER:O	1:D:1742:ASP:N	2.48	0.46
2:E:1863:ALA:HA	2:E:1866:PHE:CG	2.51	0.46
1:A:1665:ILE:HG22	1:A:1667:GLU:H	1.80	0.46
1:D:1487:LEU:HA	1:D:1490:THR:HG21	1.97	0.46
1:A:930:LEU:O	1:A:932:PHE:N	2.49	0.46
2:E:618:UNK:C	2:E:620:UNK:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1421:UNK:O	2:E:1423:UNK:N	2.49	0.46
2:H:928:UNK:O	2:H:930:UNK:N	2.49	0.46
2:E:1304:UNK:O	2:E:1305:UNK:O	2.33	0.46
2:B:1058:UNK:HA	2:B:1061:UNK:CB	2.45	0.46
2:E:1490:UNK:CB	2:E:1507:UNK:N	2.79	0.46
1:A:622:UNK:O	1:A:626:UNK:N	2.49	0.46
2:H:974:UNK:C	2:H:976:UNK:N	2.77	0.46
2:B:227:ASP:HB3	2:B:229:ASP:H	1.81	0.46
2:E:1638:UNK:N	2:E:1655:UNK:O	2.48	0.46
2:H:1995:UNK:C	2:H:1996:UNK:O	2.61	0.46
3:C:38:UNK:C	3:C:40:UNK:N	2.78	0.46
1:G:1528:THR:C	1:G:1529:TYR:CD1	2.89	0.45
1:G:1616:LYS:C	1:G:1618:LEU:H	2.18	0.45
1:G:1700:SER:HA	1:G:1701:LYS:HE3	1.98	0.45
1:G:689:GLY:O	1:G:692:VAL:HB	2.15	0.45
1:G:711:SER:O	1:G:714:VAL:N	2.48	0.45
1:A:1019:ILE:HG13	1:A:1316:VAL:CG2	2.39	0.45
1:A:1100:HIS:C	1:A:1102:GLY:N	2.65	0.45
1:A:1190:PRO:O	1:A:1191:THR:CG2	2.64	0.45
1:A:1246:CYS:H	1:A:1328:ILE:HG23	1.81	0.45
1:A:1275:LEU:O	1:A:1278:SER:HB3	2.16	0.45
1:A:1288:ASN:C	1:A:1290:LEU:N	2.69	0.45
1:A:1417:SER:C	1:A:1418:VAL:CG2	2.83	0.45
1:A:1582:GLY:O	1:A:1583:HIS:C	2.55	0.45
1:D:1091:ALA:C	1:D:1093:TYR:N	2.66	0.45
1:D:1214:PHE:O	1:D:1215:VAL:C	2.55	0.45
1:D:1562:LYS:C	1:D:1564:LEU:N	2.70	0.45
1:D:689:GLY:HA2	1:D:692:VAL:CB	2.46	0.45
1:D:718:TYR:N	1:D:718:TYR:CD1	2.84	0.45
1:D:694:GLN:HB3	1:D:725:TYR:CE2	2.51	0.45
1:D:826:MET:HB2	1:D:868:ILE:CA	2.38	0.45
2:E:182:VAL:HG12	2:E:183:LEU:HD23	1.96	0.45
2:E:260:PRO:CG	2:E:292:PHE:HB2	2.39	0.45
1:G:1478:PRO:O	1:G:1479:SER:HB3	2.16	0.45
2:B:1751:ILE:HD13	2:B:1840:VAL:CG2	2.41	0.45
2:H:1715:VAL:HA	2:H:1718:THR:HG22	1.97	0.45
2:H:1754:GLU:O	2:H:1756:ASN:N	2.49	0.45
2:B:12:SER:O	2:B:13:HIS:C	2.54	0.45
1:G:781:LEU:O	1:G:782:GLU:O	2.34	0.45
2:E:122:LEU:O	2:E:125:ASN:HB2	2.16	0.45
2:E:38:ASN:OD1	2:E:38:ASN:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:37:PHE:CD1	2:E:49:ALA:HB3	2.52	0.45
2:E:51:ASP:O	2:E:52:ASP:C	2.54	0.45
2:E:59:GLU:OE1	2:E:122:LEU:CA	2.62	0.45
2:E:75:SER:C	2:E:77:VAL:N	2.67	0.45
1:G:1740:SER:O	1:G:1742:ASP:N	2.50	0.45
2:E:1871:LEU:HD13	2:E:1882:THR:CG2	2.46	0.45
2:E:416:PHE:HB3	2:E:418:ASN:HD21	1.81	0.45
2:B:416:PHE:HB3	2:B:418:ASN:HD21	1.81	0.45
2:H:1901:ALA:HA	2:H:1905:ARG:HH21	1.79	0.45
2:E:928:UNK:O	2:E:930:UNK:N	2.49	0.45
1:G:574:UNK:O	1:G:575:UNK:C	2.64	0.45
2:B:923:UNK:C	2:B:927:UNK:CB	2.95	0.45
2:H:1332:UNK:O	2:H:1333:UNK:C	2.65	0.45
1:A:914:VAL:O	1:A:915:GLU:C	2.55	0.45
2:E:1585:UNK:O	2:E:1587:UNK:N	2.48	0.45
2:H:578:UNK:C	2:H:580:UNK:N	2.79	0.45
1:A:888:ILE:C	1:A:890:LYS:H	2.19	0.45
2:H:1215:UNK:O	2:H:1226:UNK:CB	2.64	0.45
1:A:448:UNK:C	1:A:450:UNK:N	2.80	0.45
2:E:211:GLN:O	2:E:212:GLY:C	2.55	0.45
2:H:1137:UNK:C	2:H:1139:UNK:N	2.80	0.45
2:H:2029:UNK:C	2:H:2031:UNK:N	2.78	0.45
1:D:707:THR:HG22	1:D:709:ARG:H	1.81	0.45
2:B:562:UNK:O	2:B:563:UNK:C	2.64	0.45
2:B:1220:UNK:C	2:B:1222:UNK:N	2.78	0.45
1:G:682:GLY:O	1:G:683:ALA:O	2.35	0.45
1:D:589:UNK:O	1:D:591:UNK:N	2.49	0.45
2:B:452:ALA:C	2:B:454:ASP:H	2.19	0.45
1:D:1127:VAL:CG2	1:D:1180:ARG:HG3	2.46	0.45
1:D:1131:LEU:O	1:D:1173:LEU:HD13	2.16	0.45
1:G:1119:LYS:CE	1:G:1121:MET:HG3	2.46	0.45
1:G:1208:VAL:HA	1:G:1277:GLU:OE1	2.16	0.45
1:G:1225:ALA:C	1:G:1227:GLY:N	2.55	0.45
1:G:1248:GLY:O	1:G:1249:SER:HB3	2.15	0.45
1:G:1398:VAL:HG11	1:G:1400:ILE:HG23	1.97	0.45
1:G:1613:ASN:CG	1:G:1614:VAL:N	2.69	0.45
1:A:1307:THR:OG1	1:A:1308:SER:N	2.44	0.45
1:A:1301:PRO:HB3	1:A:1314:ILE:CD1	2.45	0.45
1:A:1232:TYR:CE1	1:A:1705:PRO:HD3	2.44	0.45
1:A:610:UNK:CB	1:A:873:ARG:HH21	2.29	0.45
1:A:693:LEU:O	1:A:695:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1020:VAL:HG22	1:D:1403:ILE:CA	2.43	0.45
1:D:1112:ASN:ND2	1:D:1119:LYS:HA	2.31	0.45
1:D:1396:MET:HG2	1:D:1676:LYS:CE	2.47	0.45
1:D:1302:VAL:CG2	1:D:1649:LYS:HE3	2.35	0.45
1:D:1656:VAL:CG2	1:D:1657:HIS:N	2.79	0.45
1:D:1677:VAL:C	1:D:1679:ALA:N	2.69	0.45
1:D:781:LEU:O	1:D:782:GLU:O	2.34	0.45
1:D:796:LEU:HD12	1:D:800:LEU:HD21	1.97	0.45
1:D:784:ILE:HD11	1:D:838:MET:HG3	1.98	0.45
1:D:988:ILE:O	1:D:990:LEU:N	2.49	0.45
2:H:157:VAL:HG21	2:H:498:ALA:HB2	1.99	0.45
2:H:234:ILE:CG2	2:H:311:TYR:HD1	2.29	0.45
2:H:366:VAL:HG22	2:H:381:GLY:CA	2.30	0.45
2:E:248:HIS:ND1	2:E:529:VAL:HG11	2.31	0.45
2:E:262:GLU:O	2:E:265:SER:HB3	2.16	0.45
2:B:310:CYS:SG	2:B:484:ILE:HG21	2.55	0.45
2:B:511:GLY:C	2:B:513:GLY:H	2.17	0.45
2:E:1712:ASN:O	2:E:1714:PRO:HD3	2.17	0.45
2:E:1778:GLN:OE1	2:E:1834:ARG:HD2	2.16	0.45
2:B:1742:VAL:HG21	2:B:1837:THR:HA	1.99	0.45
2:B:1750:LYS:O	2:B:1751:ILE:C	2.54	0.45
2:H:1738:PHE:HA	2:H:1755:ILE:HG13	1.98	0.45
2:H:1778:GLN:OE1	2:H:1834:ARG:HD2	2.16	0.45
1:A:1343:PHE:C	1:A:1345:ASN:H	2.19	0.45
2:B:56:THR:O	2:B:59:GLU:HB2	2.17	0.45
1:G:797:THR:CA	1:G:800:LEU:HD23	2.46	0.45
2:B:1887:GLU:OE2	2:B:1888:ILE:HG22	2.16	0.45
1:D:673:PHE:O	1:D:674:LYS:O	2.35	0.45
1:G:884:ILE:O	1:G:885:ALA:HB3	2.16	0.45
1:A:937:LYS:O	1:A:939:PHE:N	2.49	0.45
2:H:1038:UNK:C	2:H:1040:UNK:N	2.79	0.45
2:B:836:UNK:CA	2:B:1028:UNK:HA	2.43	0.45
1:D:631:UNK:O	1:D:632:UNK:C	2.64	0.45
1:D:523:UNK:C	1:D:525:UNK:N	2.78	0.45
2:E:1335:UNK:C	2:E:1337:UNK:N	2.79	0.45
1:G:839:TYR:CE1	1:G:843:LYS:CE	2.98	0.45
2:H:4:TYR:HD1	2:H:5:SER:H	1.63	0.45
1:D:888:ILE:C	1:D:890:LYS:H	2.19	0.45
2:H:692:UNK:N	2:H:716:UNK:CB	2.80	0.45
3:I:35:UNK:C	3:I:37:UNK:N	2.78	0.45
1:D:970:GLY:O	1:D:971:ASN:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1860:GLY:O	2:H:1861:ARG:CB	2.63	0.45
2:B:1462:UNK:C	2:B:1464:UNK:N	2.79	0.45
2:E:1075:UNK:O	2:E:1076:UNK:CB	2.64	0.45
1:A:1233:GLU:HG2	1:A:1233:GLU:O	2.16	0.45
3:I:38:UNK:C	3:I:40:UNK:N	2.78	0.45
2:B:1252:UNK:O	2:B:1253:UNK:O	2.33	0.45
2:H:461:ASP:HB3	2:H:463:PHE:H	1.80	0.45
1:A:1128:GLU:HA	1:A:1177:LYS:CA	2.43	0.45
1:A:1157:ILE:CG2	1:A:1158:PRO:HD2	2.22	0.45
1:D:1139:GLU:CG	1:D:1140:THR:H	2.30	0.45
1:D:1139:GLU:HG2	1:D:1140:THR:N	2.30	0.45
1:G:1189:ILE:HA	1:G:1189:ILE:HD13	1.75	0.45
1:G:1299:LYS:HZ1	1:G:1323:LYS:NZ	2.05	0.45
1:G:1301:PRO:HB3	1:G:1314:ILE:CD1	2.46	0.45
1:G:1246:CYS:H	1:G:1328:ILE:HG23	1.81	0.45
1:G:1366:SER:HB3	1:G:1579:PHE:HD1	1.81	0.45
1:G:1713:ASP:O	1:G:1714:VAL:C	2.54	0.45
1:G:684:GLY:O	1:G:690:ALA:HB2	2.16	0.45
1:G:873:ARG:HD2	1:G:882:ASN:HA	1.98	0.45
1:A:1214:PHE:O	1:A:1215:VAL:C	2.54	0.45
1:A:1256:ALA:HB1	1:A:1274:ILE:HD11	1.99	0.45
1:A:1289:MET:H	1:A:1289:MET:HG2	1.50	0.45
1:A:1326:ILE:O	1:A:1326:ILE:HG22	2.15	0.45
1:A:1580:LEU:C	1:A:1581:THR:OG1	2.54	0.45
1:A:714:VAL:O	1:A:716:ASP:N	2.49	0.45
1:D:1061:SER:O	1:D:1062:TYR:O	2.34	0.45
1:D:1333:ASP:HB2	1:D:1586:GLY:HA3	1.98	0.45
1:D:695:GLY:O	1:D:696:LEU:C	2.55	0.45
1:D:710:PHE:CE1	1:D:736:PRO:HB3	2.51	0.45
1:D:1009:LEU:HD22	1:D:1446:LYS:HG3	1.99	0.45
2:H:429:SER:OG	2:H:432:LEU:CB	2.65	0.45
2:E:158:ALA:C	2:E:159:ILE:HG13	2.37	0.45
2:B:234:ILE:CD1	2:B:307:GLY:HA2	2.45	0.45
1:D:1475:GLU:OE1	1:D:1475:GLU:HA	2.16	0.45
2:E:1733:TYR:O	2:E:1734:SER:HB2	2.16	0.45
1:A:1263:ASP:O	1:A:1264:ARG:CB	2.50	0.45
1:A:1343:PHE:C	1:A:1345:ASN:N	2.68	0.45
1:G:755:THR:CG2	1:G:756:GLU:N	2.79	0.45
2:H:51:ASP:O	2:H:52:ASP:C	2.55	0.45
2:B:106:ALA:C	2:B:108:LEU:H	2.18	0.45
1:G:782:GLU:O	1:G:784:ILE:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1906:ALA:O	2:H:1910:VAL:HG23	2.16	0.45
1:D:485:UNK:O	1:D:487:UNK:N	2.49	0.45
2:E:681:UNK:O	2:E:684:UNK:N	2.49	0.45
2:E:1614:UNK:CB	2:E:1649:UNK:O	2.64	0.45
1:G:401:UNK:C	1:G:403:UNK:N	2.78	0.45
2:E:846:UNK:C	2:E:848:UNK:N	2.79	0.45
2:E:450:PHE:HD1	2:E:451:ASN:H	1.48	0.45
1:D:431:UNK:O	1:D:432:UNK:O	2.34	0.45
3:F:53:UNK:O	3:F:55:UNK:N	2.48	0.45
2:H:1972:UNK:C	2:H:1974:UNK:N	2.75	0.45
3:F:35:UNK:C	3:F:37:UNK:N	2.77	0.45
2:H:1551:UNK:O	2:H:1553:UNK:N	2.50	0.45
1:D:622:UNK:O	1:D:626:UNK:N	2.50	0.45
2:H:737:UNK:C	2:H:739:UNK:N	2.75	0.45
2:E:1445:UNK:O	2:E:1448:UNK:N	2.49	0.45
2:H:974:UNK:O	2:H:978:UNK:N	2.50	0.45
1:G:1438:TYR:O	1:G:1440:SER:N	2.45	0.45
1:A:647:UNK:O	1:A:648:UNK:O	2.33	0.45
2:H:817:UNK:O	2:H:818:UNK:C	2.64	0.45
1:G:1748:UNK:C	1:G:1750:UNK:N	2.79	0.45
1:G:1020:VAL:HG22	1:G:1403:ILE:CA	2.44	0.45
1:G:1091:ALA:O	1:G:1093:TYR:O	2.34	0.45
1:G:1413:LYS:HD2	1:G:1425:ILE:HD12	1.98	0.45
1:G:1625:LEU:CD2	1:G:1625:LEU:C	2.85	0.45
1:G:882:ASN:O	1:G:883:ILE:HG13	2.16	0.45
1:A:1223:PHE:CE1	1:A:1231:PRO:HB3	2.51	0.45
1:A:1329:VAL:HG13	1:A:1384:ILE:HD12	1.98	0.45
1:A:1190:PRO:HG3	1:A:1379:ALA:HA	1.98	0.45
1:A:1639:VAL:CG2	1:A:1655:VAL:H	2.29	0.45
1:A:1639:VAL:CG2	1:A:1655:VAL:HG12	2.46	0.45
1:A:710:PHE:HE1	1:A:736:PRO:CD	2.18	0.45
1:A:839:TYR:HE1	1:A:843:LYS:CE	2.28	0.45
1:D:1119:LYS:CG	1:D:1122:ILE:H	2.27	0.45
1:D:1237:TYR:OH	1:D:1396:MET:HB2	2.17	0.45
1:D:1408:ALA:CA	1:D:1652:GLN:O	2.64	0.45
2:H:188:ILE:O	2:H:189:LYS:C	2.55	0.45
2:H:234:ILE:CG1	2:H:307:GLY:HA2	2.46	0.45
2:H:267:LEU:HD12	2:H:269:GLY:H	1.81	0.45
2:E:479:ILE:HA	2:E:482:CYS:SG	2.56	0.45
1:G:1453:VAL:HG12	1:G:1454:THR:N	2.31	0.45
2:B:234:ILE:CG2	2:B:311:TYR:HD1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1706:ILE:HG22	2:E:1710:VAL:CG2	2.46	0.45
2:H:1715:VAL:CG1	2:H:1716:ASN:H	2.25	0.45
2:H:1731:GLU:HA	2:H:1735:ALA:HB3	1.98	0.45
1:A:1339:GLY:O	1:A:1340:SER:C	2.53	0.45
2:H:60:LEU:HD11	2:H:121:GLU:OE2	2.16	0.45
2:B:56:THR:O	2:B:56:THR:HG22	2.16	0.45
1:G:798:ASN:O	1:G:799:ILE:C	2.54	0.45
2:H:1863:ALA:O	2:H:1864:ALA:HB3	2.16	0.45
2:H:2019:UNK:O	2:H:2020:UNK:C	2.64	0.45
1:A:670:UNK:O	1:A:671:VAL:HG23	2.15	0.45
1:D:1665:ILE:HG22	1:D:1667:GLU:H	1.80	0.45
1:G:1280:ILE:N	1:G:1280:ILE:CD1	2.59	0.45
2:H:1909:THR:HG23	2:H:1912:ASN:ND2	2.31	0.45
1:G:727:ALA:O	1:G:728:LYS:C	2.55	0.45
2:E:221:ASN:C	2:E:223:SER:H	2.20	0.45
2:E:996:UNK:O	2:E:998:UNK:N	2.50	0.45
1:D:520:UNK:C	1:D:522:UNK:N	2.79	0.45
1:A:495:UNK:O	1:A:497:UNK:N	2.50	0.45
2:E:677:UNK:O	2:E:678:UNK:C	2.64	0.45
1:A:401:UNK:C	1:A:403:UNK:N	2.80	0.45
2:H:1220:UNK:C	2:H:1222:UNK:N	2.77	0.45
2:B:470:VAL:HG12	2:B:470:VAL:O	2.17	0.45
1:G:469:UNK:O	1:G:472:UNK:CB	2.65	0.45
1:G:1139:GLU:HG2	1:G:1140:THR:N	2.32	0.45
1:D:1158:PRO:CG	1:D:1159:GLU:N	2.74	0.45
1:G:1307:THR:O	1:G:1308:SER:OG	2.29	0.45
1:G:1519:ILE:HD13	1:G:1521:PRO:HD2	1.96	0.45
1:G:1687:PHE:O	1:G:1690:ASN:HB3	2.16	0.45
1:G:719:GLN:OE1	1:G:1611:ALA:HB1	2.17	0.45
1:A:1108:PRO:HB3	1:A:1362:PRO:HB2	1.97	0.45
1:A:1271:GLN:O	1:A:1272:ASN:C	2.55	0.45
1:A:1299:LYS:HZ3	1:A:1323:LYS:NZ	2.09	0.45
1:A:1418:VAL:HG11	1:A:1647:GLY:H	1.81	0.45
1:A:1616:LYS:C	1:A:1618:LEU:H	2.20	0.45
1:A:1620:GLN:O	1:A:1621:PHE:CD1	2.70	0.45
1:A:677:TYR:O	1:A:678:VAL:HG23	2.16	0.45
1:A:791:ALA:O	1:A:793:ARG:N	2.50	0.45
1:A:992:PHE:HA	1:A:993:PRO:HB2	1.97	0.45
1:D:1087:LYS:HE3	1:D:1089:VAL:HG13	1.99	0.45
1:D:1112:ASN:CA	1:D:1114:TYR:HB2	2.45	0.45
1:D:1195:ALA:O	1:D:1196:LYS:NZ	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1226:SER:O	1:D:1227:GLY:C	2.54	0.45
1:D:1316:VAL:HG13	1:D:1317:GLU:N	2.31	0.45
1:D:1432:HIS:HB3	1:D:1433:HIS:H	1.61	0.45
1:D:1609:ARG:HE	1:D:1610:ASN:C	2.20	0.45
1:D:718:TYR:HD1	1:D:718:TYR:H	1.63	0.45
1:D:743:GLN:O	1:D:744:ASP:C	2.55	0.45
1:D:819:PRO:HA	1:D:861:GLN:HA	1.98	0.45
1:D:871:TRP:CZ2	1:D:881:ASN:HB2	2.50	0.45
1:A:1010:GLU:O	1:A:1011:GLY:C	2.54	0.45
1:A:1457:ALA:O	1:A:1459:ILE:N	2.49	0.45
2:H:241:ILE:HA	2:H:244:ILE:CD1	2.46	0.45
2:H:252:THR:HG1	2:H:252:THR:H	1.57	0.45
2:H:246:LEU:HD23	2:H:279:THR:HG23	1.97	0.45
2:H:543:PHE:C	2:H:545:GLN:H	2.20	0.45
2:E:161:GLY:CA	2:E:512:LEU:HD12	2.46	0.45
2:E:274:SER:C	2:E:276:GLY:H	2.19	0.45
2:E:281:VAL:O	2:E:283:ILE:N	2.50	0.45
2:E:1689:ASP:O	2:E:1690:VAL:C	2.55	0.45
2:E:1830:VAL:C	2:E:1832:PHE:N	2.68	0.45
2:E:1833:TYR:C	2:E:1835:GLY:N	2.69	0.45
1:A:1478:PRO:O	1:A:1479:SER:HB3	2.16	0.45
2:E:367:GLU:HB2	2:E:430:HIS:ND1	2.29	0.45
2:B:1681:TYR:C	2:B:1681:TYR:HD2	2.19	0.45
2:B:1715:VAL:CG2	2:B:1770:LEU:N	2.80	0.45
2:B:1804:PHE:CD1	2:B:1804:PHE:N	2.85	0.45
2:H:1681:TYR:C	2:H:1681:TYR:HD2	2.19	0.45
2:H:1812:TYR:O	2:H:1814:ALA:N	2.38	0.45
1:G:1258:ARG:HD3	1:G:1338:GLU:OE2	2.17	0.45
2:B:11:LEU:O	2:B:12:SER:C	2.54	0.45
2:E:60:LEU:HD11	2:E:121:GLU:OE2	2.17	0.45
2:E:12:SER:O	2:E:13:HIS:C	2.53	0.45
2:H:1939:HIS:CD2	2:H:1940:LEU:H	2.31	0.45
1:D:669:UNK:O	1:D:670:UNK:O	2.34	0.45
1:D:1487:LEU:C	1:D:1490:THR:HG22	2.37	0.45
1:G:520:UNK:C	1:G:522:UNK:N	2.80	0.45
2:H:1335:UNK:C	2:H:1337:UNK:N	2.76	0.45
2:H:323:ILE:O	2:H:325:GLU:N	2.50	0.45
2:B:1336:UNK:O	2:B:1340:UNK:CB	2.64	0.45
1:D:458:UNK:CB	1:D:1631:LEU:HG	2.47	0.45
2:B:797:UNK:O	2:B:799:UNK:N	2.48	0.45
1:G:370:UNK:O	1:G:371:UNK:C	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:53:UNK:O	3:I:55:UNK:N	2.49	0.45
1:D:448:UNK:C	1:D:450:UNK:N	2.79	0.45
1:A:563:UNK:O	1:A:566:UNK:N	2.49	0.45
1:D:1284:SER:HB2	1:D:1298:ILE:HD11	1.99	0.45
1:A:404:UNK:O	1:A:405:UNK:C	2.65	0.45
1:G:141:UNK:C	1:G:143:UNK:N	2.79	0.45
2:E:452:ALA:C	2:E:454:ASP:H	2.20	0.45
2:E:1220:UNK:C	2:E:1222:UNK:H	2.29	0.45
1:A:1139:GLU:CG	1:A:1140:THR:H	2.29	0.45
1:A:1138:LYS:HG2	1:A:1139:GLU:H	1.81	0.45
1:A:1168:LEU:HD13	1:A:1169:LYS:CB	2.40	0.45
1:D:1176:PRO:C	1:D:1177:LYS:HG3	2.37	0.45
1:D:1127:VAL:O	1:D:1177:LYS:HA	2.17	0.45
1:G:1112:ASN:CA	1:G:1114:TYR:HB2	2.47	0.45
1:G:1191:THR:OG1	1:G:1192:GLY:N	2.49	0.45
1:G:1394:LEU:HD23	1:G:1673:TYR:CD1	2.51	0.45
1:G:845:SER:O	1:G:847:GLU:N	2.50	0.45
1:G:911:PRO:O	1:G:913:VAL:N	2.50	0.45
1:A:1360:ARG:O	1:A:1361:THR:O	2.35	0.45
1:A:1398:VAL:HG11	1:A:1400:ILE:HG23	1.98	0.45
1:A:1408:ALA:O	1:A:1409:THR:CG2	2.58	0.45
1:A:1424:GLY:C	1:A:1426:LEU:N	2.69	0.45
1:A:1550:ASP:O	1:A:1551:LYS:O	2.33	0.45
1:A:1609:ARG:NE	1:A:1610:ASN:N	2.61	0.45
1:A:752:ILE:HG23	1:A:761:LEU:HD21	1.98	0.45
1:A:781:LEU:O	1:A:782:GLU:O	2.35	0.45
1:D:1221:GLU:HA	1:D:1224:ILE:CG2	2.46	0.45
1:D:752:ILE:HG23	1:D:761:LEU:HD21	1.99	0.45
1:D:1456:GLU:N	1:D:1459:ILE:HG12	2.23	0.45
1:A:1448:ARG:C	1:A:1451:GLN:HB3	2.36	0.45
2:H:383:PRO:O	2:H:384:GLN:O	2.34	0.45
2:E:306:ILE:HG22	2:E:310:CYS:SG	2.56	0.45
2:E:527:VAL:HG11	2:E:544:LYS:HB2	1.98	0.45
2:B:301:THR:O	2:B:304:PHE:HB3	2.16	0.45
2:B:234:ILE:CG1	2:B:307:GLY:HA2	2.47	0.45
2:B:439:ILE:O	2:B:443:LEU:HG	2.17	0.45
1:D:1475:GLU:O	1:D:1478:PRO:CD	2.65	0.45
1:D:1475:GLU:OE1	1:D:1478:PRO:HG2	2.16	0.45
2:B:1738:PHE:HA	2:B:1755:ILE:HG13	1.98	0.45
2:H:1787:ALA:O	2:H:1788:ALA:C	2.55	0.45
2:H:1830:VAL:C	2:H:1832:PHE:N	2.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1835:GLY:O	2:H:1836:MET:C	2.54	0.45
2:H:59:GLU:OE1	2:H:122:LEU:CA	2.65	0.45
1:G:743:GLN:O	1:G:745:VAL:N	2.50	0.45
2:B:1912:ASN:O	2:B:1913:VAL:CG2	2.64	0.45
2:H:1877:ARG:O	2:H:1878:VAL:HG13	2.16	0.45
2:E:1042:UNK:C	2:E:1044:UNK:N	2.80	0.45
2:B:1917:ILE:CG2	2:B:1918:LYS:H	2.17	0.45
2:E:325:GLU:O	2:E:328:LEU:N	2.50	0.45
2:E:1334:UNK:C	2:E:1335:UNK:O	2.63	0.45
2:B:323:ILE:O	2:B:325:GLU:N	2.50	0.45
1:G:961:THR:C	1:G:963:LEU:N	2.69	0.45
2:B:974:UNK:O	2:B:978:UNK:N	2.49	0.45
2:H:699:UNK:O	2:H:702:UNK:N	2.50	0.45
3:F:37:UNK:C	3:F:39:UNK:N	2.79	0.45
2:E:1169:UNK:C	2:E:1171:UNK:H2	2.29	0.45
1:G:561:UNK:O	1:G:562:UNK:C	2.64	0.45
2:B:1162:UNK:C	2:B:1164:UNK:N	2.80	0.45
2:B:1555:UNK:O	2:B:1556:UNK:C	2.64	0.45
1:A:481:UNK:O	1:A:483:UNK:N	2.50	0.45
2:H:1030:UNK:O	2:H:1031:UNK:CB	2.63	0.45
2:B:1234:UNK:O	2:B:1236:UNK:N	2.49	0.45
2:B:2028:UNK:O	2:B:2029:UNK:C	2.64	0.45
1:G:1353:LEU:HA	1:G:1356:PHE:HB3	1.97	0.45
1:G:1615:ASP:OD1	1:G:1617:ILE:HG12	2.17	0.45
1:A:1030:TRP:CZ2	1:A:1580:LEU:CD1	2.98	0.45
1:A:1414:ILE:HG22	1:A:1414:ILE:O	2.17	0.45
1:A:1542:HIS:O	1:A:1544:THR:N	2.50	0.45
1:A:1290:LEU:HA	1:A:1701:LYS:CD	2.47	0.45
1:A:676:LYS:O	1:A:677:TYR:O	2.35	0.45
1:A:856:GLU:HB2	1:A:858:TRP:NE1	2.32	0.45
1:D:1191:THR:OG1	1:D:1192:GLY:N	2.50	0.45
1:D:1230:ASP:O	1:D:1232:TYR:N	2.49	0.45
1:D:1246:CYS:HA	1:D:1327:CYS:SG	2.56	0.45
1:D:996:LYS:NZ	1:D:1400:ILE:HG13	2.32	0.45
1:D:1423:LYS:HA	1:D:1552:ASN:OD1	2.16	0.45
1:D:1394:LEU:HD23	1:D:1673:TYR:CD1	2.51	0.45
1:D:711:SER:C	1:D:713:GLN:N	2.68	0.45
2:H:367:GLU:OE1	2:H:428:HIS:O	2.34	0.45
2:H:467:ASP:C	2:H:469:ARG:N	2.68	0.45
1:G:1445:MET:O	1:G:1446:LYS:C	2.54	0.45
2:B:149:VAL:HG22	2:B:155:GLN:CA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1738:PHE:HA	2:E:1755:ILE:HG13	1.98	0.45
1:A:1475:GLU:HG3	1:A:1762:UNK:CB	2.47	0.45
2:B:1702:TYR:O	2:B:1703:GLY:O	2.33	0.45
2:B:1790:GLU:O	2:B:1791:ASP:C	2.55	0.45
2:B:1812:TYR:O	2:B:1814:ALA:N	2.41	0.45
2:H:1742:VAL:HG21	2:H:1837:THR:HA	1.98	0.45
2:H:41:LEU:HB3	2:H:46:GLU:N	2.22	0.45
2:H:52:ASP:CG	2:H:53:GLU:N	2.70	0.45
2:H:56:THR:N	2:H:57:PRO:HD3	2.31	0.45
2:H:63:LYS:HD2	2:H:125:ASN:OD1	2.17	0.45
2:E:1266:UNK:O	2:E:1267:UNK:C	2.64	0.45
2:E:11:LEU:O	2:E:12:SER:C	2.55	0.45
2:B:1265:UNK:O	2:B:1269:UNK:CB	2.65	0.45
2:H:1878:VAL:CG1	2:H:1898:TYR:HE1	2.29	0.45
2:H:1927:LEU:CA	2:H:1930:SER:HB3	2.47	0.45
1:D:833:PHE:H	1:D:833:PHE:HD1	1.64	0.45
1:G:1491:ARG:O	1:G:1494:HIS:HB3	2.17	0.45
1:A:1492:GLU:O	1:A:1496:GLU:OE1	2.34	0.45
2:B:217:GLU:C	2:B:219:LEU:N	2.69	0.45
1:A:523:UNK:C	1:A:525:UNK:N	2.77	0.45
2:E:599:UNK:HA	2:E:602:UNK:CB	2.47	0.45
2:H:681:UNK:O	2:H:682:UNK:C	2.64	0.45
2:B:599:UNK:HA	2:B:602:UNK:CB	2.47	0.45
2:E:652:UNK:O	2:E:653:UNK:CB	2.65	0.45
1:A:370:UNK:O	1:A:371:UNK:C	2.65	0.45
2:H:649:UNK:C	2:H:651:UNK:N	2.79	0.45
2:H:862:UNK:O	2:H:863:UNK:C	2.65	0.45
1:D:936:LEU:HD23	1:D:936:LEU:O	2.17	0.45
2:H:867:UNK:O	2:H:868:UNK:C	2.64	0.45
2:B:1075:UNK:O	2:B:1076:UNK:CB	2.64	0.45
1:D:1515:ARG:O	1:D:1516:ASP:C	2.54	0.45
1:G:1232:TYR:C	1:G:1234:MET:N	2.70	0.45
1:G:1329:VAL:HG11	1:G:1385:GLN:N	2.32	0.45
1:G:1604:ILE:HG23	1:G:1630:THR:HA	1.98	0.45
1:G:1618:LEU:HD22	1:G:1623:TYR:CZ	2.51	0.45
1:G:717:TYR:CD2	1:G:718:TYR:CE1	3.01	0.45
1:G:864:VAL:O	1:G:865:CYS:HB2	2.17	0.45
1:A:1194:ASN:O	1:A:1195:ALA:CB	2.64	0.45
1:A:1579:PHE:HE2	1:A:1609:ARG:HB3	1.82	0.45
1:A:1711:GLU:O	1:A:1712:GLU:C	2.55	0.45
1:A:718:TYR:CD1	1:A:718:TYR:N	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:724:LYS:C	1:A:725:TYR:HD1	2.20	0.45
1:A:843:LYS:O	1:A:846:LEU:HB2	2.17	0.45
1:D:1067:LEU:CD2	1:D:1074:GLY:H	2.28	0.45
1:D:1079:LYS:C	1:D:1080:THR:HG1	2.20	0.45
1:D:1106:ILE:HA	1:D:1192:GLY:CA	2.44	0.45
1:D:1326:ILE:HG13	1:D:1388:MET:HG2	1.99	0.45
1:D:1528:THR:O	1:D:1528:THR:HG23	2.16	0.45
1:D:1589:GLY:O	1:D:1592:MET:N	2.48	0.45
1:D:1640:SER:N	1:D:1654:ILE:HG13	2.31	0.45
1:D:1448:ARG:C	1:D:1451:GLN:HB3	2.37	0.45
2:H:209:PHE:O	2:H:210:THR:C	2.55	0.45
2:H:215:ILE:HG22	2:H:215:ILE:O	2.17	0.45
2:H:259:THR:O	2:H:261:GLY:N	2.49	0.45
2:H:525:VAL:O	2:H:526:ARG:C	2.55	0.45
2:E:489:LYS:O	2:E:490:TRP:C	2.55	0.45
2:B:248:HIS:C	2:B:250:VAL:N	2.70	0.45
2:B:443:LEU:HB3	2:B:449:SER:HB3	1.95	0.45
1:D:1475:GLU:HG3	1:D:1762:UNK:CB	2.46	0.45
2:E:1691:TRP:O	2:E:1694:ALA:N	2.50	0.45
2:E:1715:VAL:CG2	2:E:1770:LEU:N	2.79	0.45
2:E:346:GLN:O	2:E:347:GLU:HB3	2.16	0.45
2:H:1691:TRP:CD2	2:H:1783:LEU:HD22	2.52	0.45
1:A:1264:ARG:NH2	1:A:1270:VAL:O	2.48	0.45
2:H:45:THR:CG2	2:H:46:GLU:OE1	2.65	0.45
2:H:56:THR:HG22	2:H:56:THR:O	2.15	0.45
2:B:52:ASP:CG	2:B:53:GLU:N	2.70	0.45
2:B:57:PRO:C	2:B:59:GLU:H	2.19	0.45
2:E:56:THR:O	2:E:59:GLU:HB2	2.16	0.45
2:E:57:PRO:C	2:E:59:GLU:H	2.20	0.45
1:G:810:LYS:C	1:G:812:ALA:N	2.70	0.45
2:B:1906:ALA:O	2:B:1910:VAL:HG23	2.17	0.45
2:B:202:THR:HG22	2:B:202:THR:O	2.16	0.45
2:H:387:TYR:O	2:H:390:ASN:N	2.49	0.45
2:H:390:ASN:O	2:H:393:LEU:HB3	2.15	0.45
1:A:1665:ILE:HD12	1:A:1669:ARG:N	2.19	0.45
2:E:1929:LYS:HE2	2:E:1929:LYS:CA	2.47	0.45
1:D:884:ILE:O	1:D:885:ALA:HB3	2.17	0.45
1:D:940:THR:HA	1:D:943:LEU:HD12	1.99	0.45
2:H:956:UNK:C	2:H:958:UNK:N	2.73	0.45
1:A:632:UNK:CB	1:A:894:ARG:NH1	2.74	0.45
1:A:523:UNK:O	1:A:525:UNK:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1256:UNK:C	2:B:1258:UNK:N	2.79	0.45
2:B:649:UNK:O	2:B:650:UNK:C	2.64	0.45
2:H:1968:UNK:C	2:H:1970:UNK:N	2.80	0.45
2:E:1256:UNK:C	2:E:1258:UNK:N	2.79	0.45
2:E:799:UNK:O	2:E:801:UNK:N	2.49	0.45
1:D:449:UNK:O	1:D:451:UNK:N	2.49	0.45
1:D:426:UNK:O	1:D:430:UNK:CB	2.65	0.45
2:H:577:UNK:O	2:H:579:UNK:N	2.49	0.45
2:B:1519:UNK:O	2:B:1521:UNK:N	2.50	0.45
2:H:1490:UNK:CB	2:H:1507:UNK:N	2.80	0.45
2:E:1234:UNK:O	2:E:1236:UNK:N	2.50	0.45
1:D:481:UNK:O	1:D:483:UNK:N	2.49	0.45
1:A:682:GLY:O	1:A:683:ALA:O	2.35	0.45
1:G:1158:PRO:CG	1:G:1159:GLU:N	2.77	0.45
1:A:1141:ALA:CA	1:A:1144:PHE:CE1	2.97	0.45
1:A:1142:GLU:N	1:A:1144:PHE:HE1	2.13	0.45
1:G:1642:THR:CA	1:G:1652:GLN:OE1	2.64	0.45
1:G:1639:VAL:CG2	1:G:1655:VAL:H	2.30	0.45
1:G:1677:VAL:C	1:G:1679:ALA:N	2.69	0.45
1:G:1693:ILE:HG13	1:G:1694:TYR:CD1	2.51	0.45
1:A:1525:ALA:C	1:A:1527:ALA:N	2.70	0.45
1:A:1677:VAL:C	1:A:1679:ALA:N	2.70	0.45
1:A:826:MET:CE	1:A:847:GLU:HG3	2.45	0.45
1:D:1220:VAL:C	1:D:1222:ALA:N	2.71	0.45
1:D:1360:ARG:O	1:D:1361:THR:O	2.35	0.45
1:D:1398:VAL:HG11	1:D:1400:ILE:HG23	1.99	0.45
1:D:1412:ASP:OD1	1:D:1412:ASP:N	2.50	0.45
1:D:1430:ARG:NH1	1:D:1652:GLN:HG3	2.31	0.45
1:D:1606:PRO:O	1:D:1626:TYR:C	2.55	0.45
1:D:1558:ASN:OD1	1:D:1621:PHE:CD2	2.70	0.45
1:D:1693:ILE:HG13	1:D:1694:TYR:CD1	2.52	0.45
1:D:836:ASP:OD1	1:D:839:TYR:HB3	2.17	0.45
1:D:1010:GLU:OE1	1:D:1013:LEU:CD1	2.65	0.45
2:H:248:HIS:ND1	2:H:529:VAL:HG11	2.32	0.45
2:H:255:LEU:C	2:H:257:GLY:H	2.19	0.45
2:H:265:SER:OG	2:H:266:TYR:N	2.50	0.45
2:H:433:VAL:H	2:H:434:PRO:CD	2.19	0.45
2:E:248:HIS:O	2:E:251:VAL:N	2.50	0.45
2:E:259:THR:O	2:E:261:GLY:N	2.50	0.45
1:G:1502:ARG:O	1:G:1503:ALA:C	2.55	0.45
2:B:266:TYR:HD1	2:B:266:TYR:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:525:VAL:O	2:B:526:ARG:C	2.55	0.45
2:B:1742:VAL:HG12	2:B:1743:ASP:N	2.32	0.45
2:B:1742:VAL:HG23	2:B:1751:ILE:HD11	1.98	0.45
2:H:1752:PHE:O	2:H:1755:ILE:HD11	2.17	0.45
1:A:1341:PHE:C	1:A:1343:PHE:N	2.70	0.45
1:G:703:VAL:CG1	1:G:704:VAL:N	2.79	0.45
2:B:317:THR:HA	2:H:1307:UNK:CB	2.47	0.45
2:H:202:THR:O	2:H:202:THR:HG22	2.17	0.45
2:E:1874:VAL:HG22	2:E:1928:GLN:OE1	2.17	0.45
1:D:727:ALA:O	1:D:728:LYS:C	2.55	0.45
1:G:1492:GLU:O	1:G:1496:GLU:OE1	2.35	0.45
2:E:1173:UNK:CB	2:E:1180:UNK:CA	2.95	0.45
1:D:935:GLU:O	1:D:937:LYS:N	2.50	0.45
2:B:1557:UNK:O	2:B:1560:UNK:N	2.50	0.45
2:B:1420:UNK:O	2:B:1421:UNK:O	2.35	0.45
2:B:1585:UNK:O	2:B:1587:UNK:N	2.49	0.45
2:E:1045:UNK:C	2:E:1047:UNK:N	2.79	0.45
1:A:970:GLY:O	1:A:971:ASN:CB	2.65	0.45
3:I:37:UNK:C	3:I:39:UNK:N	2.80	0.45
1:G:1284:SER:HB2	1:G:1298:ILE:HD11	1.99	0.45
2:E:1055:UNK:O	2:E:1059:UNK:N	2.50	0.45
2:B:867:UNK:O	2:B:868:UNK:C	2.64	0.45
1:G:1142:GLU:CA	1:G:1145:LYS:HB2	2.45	0.45
1:A:1127:VAL:O	1:A:1177:LYS:HA	2.16	0.45
1:D:1144:PHE:O	1:D:1147:GLN:N	2.50	0.45
1:G:1000:GLN:C	1:G:1002:LYS:H	2.16	0.45
1:G:1254:VAL:CG2	1:G:1255:SER:H	2.07	0.45
1:G:1304:ALA:O	1:G:1305:CYS:HB3	2.17	0.45
1:G:1321:SER:O	1:G:1323:LYS:N	2.45	0.45
1:G:1351:ASN:C	1:G:1352:THR:O	2.46	0.45
1:G:1329:VAL:CG1	1:G:1385:GLN:O	2.65	0.45
1:G:996:LYS:NZ	1:G:1400:ILE:HG13	2.32	0.45
1:G:444:UNK:CB	1:G:1613:ASN:OD1	2.65	0.45
1:G:1426:LEU:HD13	1:G:1650:GLY:HA3	1.97	0.45
1:G:858:TRP:C	1:G:861:GLN:HE21	2.20	0.45
1:A:1083:PRO:C	1:A:1085:ASP:H	2.20	0.45
1:A:1307:THR:O	1:A:1308:SER:OG	2.31	0.45
1:A:1351:ASN:ND2	1:A:1354:GLU:HG3	2.32	0.45
1:A:1526:LEU:O	1:A:1530:GLY:O	2.35	0.45
1:A:1583:HIS:HE2	1:A:1588:ALA:HA	1.81	0.45
1:D:1119:LYS:CE	1:D:1121:MET:HG3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1541:PHE:CD2	1:D:1553:GLU:OE2	2.70	0.45
1:D:1616:LYS:C	1:D:1618:LEU:H	2.19	0.45
2:H:432:LEU:HG	2:H:484:ILE:HB	1.98	0.45
2:E:131:ILE:CD1	2:E:182:VAL:HG13	2.41	0.45
2:E:234:ILE:CG2	2:E:311:TYR:HD1	2.30	0.45
1:G:1447:TYR:HB3	1:G:1448:ARG:H	1.43	0.45
1:G:1452:LEU:O	1:G:1456:GLU:CB	2.58	0.45
2:B:442:ASP:HA	2:B:445:LYS:HD2	1.98	0.45
2:B:467:ASP:C	2:B:469:ARG:N	2.70	0.45
2:E:1672:GLN:HB3	2:E:1781:LEU:HG	1.99	0.45
2:E:366:VAL:HG22	2:E:381:GLY:CA	2.30	0.45
2:H:1691:TRP:O	2:H:1694:ALA:N	2.50	0.45
2:H:217:GLU:C	2:H:219:LEU:N	2.71	0.45
2:B:60:LEU:O	2:B:64:PHE:HB3	2.17	0.45
2:B:79:GLN:HB3	2:B:80:PHE:CD1	2.51	0.45
1:G:791:ALA:O	1:G:793:ARG:N	2.50	0.45
2:E:45:THR:CG2	2:E:46:GLU:OE1	2.63	0.45
2:E:63:LYS:HD2	2:E:125:ASN:OD1	2.17	0.45
2:B:2019:UNK:O	2:B:2020:UNK:C	2.64	0.45
1:D:1739:GLN:O	1:D:1740:SER:C	2.56	0.45
2:B:1863:ALA:HA	2:B:1866:PHE:CG	2.51	0.45
1:G:936:LEU:O	1:G:936:LEU:HD23	2.17	0.45
1:A:935:GLU:O	1:A:937:LYS:N	2.49	0.45
2:B:1854:MET:CE	2:B:1957:UNK:HA	2.47	0.45
2:E:323:ILE:O	2:E:325:GLU:N	2.50	0.45
2:B:148:ALA:O	2:B:150:GLY:N	2.50	0.45
2:E:1056:UNK:C	2:E:1058:UNK:N	2.77	0.45
2:B:1490:UNK:CB	2:B:1507:UNK:N	2.80	0.45
1:A:602:UNK:O	1:A:603:UNK:O	2.35	0.45
2:H:1234:UNK:O	2:H:1236:UNK:N	2.49	0.45
1:G:1173:LEU:O	1:G:1174:TYR:CB	2.65	0.44
1:G:1067:LEU:HD21	1:G:1073:THR:C	2.37	0.44
1:G:1213:LEU:O	1:G:1214:PHE:C	2.56	0.44
1:G:1247:SER:O	1:G:1248:GLY:O	2.35	0.44
1:G:1583:HIS:CG	1:G:1585:LYS:N	2.80	0.44
1:G:1652:GLN:CD	1:G:1653:ALA:H	2.21	0.44
1:G:1701:LYS:N	1:G:1701:LYS:CD	2.80	0.44
1:G:1701:LYS:O	1:G:1702:GLU:O	2.34	0.44
1:G:858:TRP:CZ3	1:G:862:LEU:HB2	2.52	0.44
1:A:1067:LEU:HD21	1:A:1073:THR:C	2.37	0.44
1:A:1213:LEU:O	1:A:1214:PHE:C	2.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1245:ASN:O	1:A:1246:CYS:O	2.34	0.44
1:A:1251:MET:HE1	1:A:1585:LYS:HE2	2.00	0.44
1:A:1304:ALA:O	1:A:1305:CYS:HB3	2.18	0.44
1:A:1661:LEU:O	1:A:1662:TYR:CG	2.70	0.44
1:A:993:PRO:HA	1:A:1681:GLU:OE1	2.17	0.44
1:D:1188:GLN:N	1:D:1188:GLN:CD	2.71	0.44
1:D:1376:PHE:CG	1:D:1377:MET:N	2.85	0.44
1:D:1528:THR:C	1:D:1529:TYR:CD1	2.90	0.44
1:D:1539:ALA:CB	1:D:1640:SER:O	2.65	0.44
1:D:1584:PRO:HG2	1:D:1584:PRO:O	2.17	0.44
1:D:1579:PHE:HE2	1:D:1609:ARG:HB3	1.81	0.44
1:D:1625:LEU:C	1:D:1625:LEU:CD2	2.85	0.44
1:D:798:ASN:O	1:D:799:ILE:C	2.55	0.44
1:D:867:ALA:HB1	1:D:905:LEU:CD1	2.46	0.44
1:D:913:VAL:O	1:D:916:LEU:HB3	2.17	0.44
2:H:213:LEU:O	2:H:215:ILE:N	2.42	0.44
2:H:279:THR:HG22	2:H:283:ILE:HD12	1.99	0.44
2:H:267:LEU:CD2	2:H:457:ILE:HD13	2.47	0.44
2:E:234:ILE:CD1	2:E:310:CYS:HB2	2.47	0.44
2:E:246:LEU:CD2	2:E:279:THR:HG23	2.46	0.44
2:E:265:SER:OG	2:E:266:TYR:N	2.50	0.44
2:B:255:LEU:C	2:B:257:GLY:H	2.19	0.44
2:B:429:SER:OG	2:B:432:LEU:CB	2.65	0.44
2:E:1691:TRP:CE3	2:E:1783:LEU:HD13	2.52	0.44
2:E:1737:ILE:HD12	2:E:1755:ILE:HG21	1.99	0.44
2:E:1792:LEU:HD23	2:E:1792:LEU:N	2.32	0.44
2:E:535:ILE:HB	2:E:536:ASN:H	1.39	0.44
2:H:1772:SER:C	2:H:1774:THR:H	2.19	0.44
1:D:1264:ARG:NH2	1:D:1270:VAL:O	2.50	0.44
2:H:37:PHE:CD1	2:H:49:ALA:HB3	2.52	0.44
1:G:1258:ARG:CG	1:G:1258:ARG:HH11	2.23	0.44
2:B:1897:GLN:C	2:B:1899:VAL:N	2.71	0.44
2:H:408:PRO:HD3	2:H:731:UNK:O	2.17	0.44
2:H:330:ASN:OD1	2:H:394:ARG:HG2	2.17	0.44
2:B:330:ASN:ND2	2:B:330:ASN:O	2.51	0.44
2:B:393:LEU:HG	2:B:418:ASN:OD1	2.17	0.44
1:A:998:TYR:O	1:A:1001:VAL:HB	2.16	0.44
2:E:1897:GLN:C	2:E:1899:VAL:N	2.70	0.44
1:D:521:UNK:O	1:D:523:UNK:N	2.51	0.44
2:H:898:UNK:C	2:H:900:UNK:N	2.77	0.44
2:B:1584:UNK:O	2:B:1586:UNK:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1421:UNK:O	2:H:1423:UNK:N	2.50	0.44
2:H:1295:UNK:O	2:H:1298:UNK:N	2.51	0.44
2:B:1304:UNK:O	2:E:318:SER:OG	2.25	0.44
1:A:961:THR:C	1:A:963:LEU:N	2.70	0.44
1:G:563:UNK:O	1:G:564:UNK:C	2.65	0.44
1:G:1360:ARG:O	1:G:1361:THR:O	2.35	0.44
1:A:404:UNK:O	1:A:407:UNK:N	2.50	0.44
2:B:1220:UNK:C	2:B:1222:UNK:H	2.28	0.44
1:D:591:UNK:O	1:D:592:UNK:C	2.65	0.44
1:G:173:UNK:O	1:G:174:UNK:C	2.65	0.44
2:H:905:UNK:C	2:H:907:UNK:N	2.80	0.44
1:G:1274:ILE:O	1:G:1275:LEU:C	2.56	0.44
1:G:1243:VAL:CG1	1:G:1325:ARG:H	2.22	0.44
1:G:1371:THR:C	1:G:1373:ARG:N	2.70	0.44
1:G:1423:LYS:N	1:G:1425:ILE:HB	2.33	0.44
1:G:1616:LYS:C	1:G:1618:LEU:N	2.71	0.44
1:G:1700:SER:HB3	1:G:1702:GLU:OE2	2.17	0.44
1:G:693:LEU:O	1:G:695:GLY:N	2.50	0.44
1:A:1189:ILE:CB	1:A:1190:PRO:HD3	2.47	0.44
1:A:1022:THR:O	1:A:1226:SER:HB2	2.17	0.44
1:A:1274:ILE:O	1:A:1275:LEU:C	2.55	0.44
1:A:1428:THR:HG22	1:A:1428:THR:O	2.18	0.44
1:A:1408:ALA:CA	1:A:1652:GLN:O	2.65	0.44
1:A:684:GLY:C	1:A:686:GLY:N	2.68	0.44
1:D:1190:PRO:O	1:D:1191:THR:CG2	2.65	0.44
1:D:1274:ILE:O	1:D:1275:LEU:C	2.55	0.44
1:D:1286:TRP:HD1	1:D:1290:LEU:HD11	1.82	0.44
1:D:1423:LYS:N	1:D:1425:ILE:HB	2.31	0.44
1:D:1577:GLN:CD	1:D:1592:MET:HA	2.38	0.44
1:D:1583:HIS:CG	1:D:1585:LYS:N	2.81	0.44
1:D:680:ILE:HD12	1:D:704:VAL:O	2.16	0.44
1:D:680:ILE:HG23	1:D:769:ILE:HD13	2.00	0.44
1:D:791:ALA:O	1:D:793:ARG:N	2.50	0.44
1:D:839:TYR:CE1	1:D:843:LYS:CE	3.00	0.44
1:D:873:ARG:HD2	1:D:882:ASN:HA	1.99	0.44
1:D:1457:ALA:O	1:D:1459:ILE:N	2.50	0.44
1:A:1461:ASP:O	1:A:1462:TRP:C	2.55	0.44
1:A:1502:ARG:O	1:A:1503:ALA:C	2.55	0.44
2:H:160:PHE:CZ	2:H:283:ILE:HD12	2.51	0.44
2:H:273:HIS:CE1	2:H:488:VAL:HG11	2.52	0.44
2:H:517:HIS:CE1	2:H:538:ASP:OD1	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1457:ALA:O	1:G:1459:ILE:N	2.50	0.44
2:B:188:ILE:O	2:B:189:LYS:C	2.56	0.44
2:B:273:HIS:CE1	2:B:488:VAL:HG11	2.52	0.44
2:B:347:GLU:HA	2:B:350:GLN:HB3	1.98	0.44
2:H:1705:SER:O	2:H:1708:ASP:HB3	2.16	0.44
2:H:119:THR:O	2:H:122:LEU:HB3	2.16	0.44
2:H:122:LEU:O	2:H:125:ASN:HB2	2.17	0.44
2:H:13:HIS:O	2:H:15:SER:N	2.51	0.44
2:B:19:VAL:O	2:B:23:PRO:HD3	2.17	0.44
2:E:1265:UNK:O	2:E:1269:UNK:CB	2.65	0.44
2:E:52:ASP:CG	2:E:53:GLU:N	2.70	0.44
2:B:1867:SER:O	2:B:1871:LEU:HB3	2.18	0.44
2:H:1897:GLN:O	2:H:1899:VAL:N	2.50	0.44
2:H:1907:LEU:CD2	2:H:1907:LEU:H	2.12	0.44
2:H:1933:LEU:HA	2:H:1936:VAL:CG1	2.48	0.44
2:E:95:TYR:O	2:E:104:LEU:HD13	2.17	0.44
2:E:174:ARG:HA	2:E:219:LEU:HD22	1.99	0.44
2:B:1146:UNK:O	2:B:1147:UNK:C	2.66	0.44
2:E:1893:VAL:C	2:E:1894:GLU:O	2.55	0.44
2:H:926:UNK:O	2:H:927:UNK:C	2.65	0.44
2:B:1067:UNK:O	2:B:1069:UNK:N	2.50	0.44
2:B:578:UNK:C	2:B:580:UNK:N	2.80	0.44
2:E:401:GLY:O	2:E:402:LEU:C	2.56	0.44
2:E:877:UNK:O	2:E:878:UNK:C	2.65	0.44
2:H:470:VAL:O	2:H:470:VAL:HG12	2.17	0.44
2:B:674:UNK:O	2:B:675:UNK:C	2.65	0.44
1:G:620:UNK:O	1:G:621:UNK:C	2.66	0.44
1:G:1141:ALA:CA	1:G:1144:PHE:CE1	2.97	0.44
1:G:1160:THR:CB	1:G:1166:LYS:HE3	2.43	0.44
1:D:1173:LEU:O	1:D:1174:TYR:O	2.35	0.44
1:G:1036:ARG:C	1:G:1036:ARG:HE	2.20	0.44
1:G:1260:MET:SD	1:G:1275:LEU:HD23	2.57	0.44
1:G:1522:LEU:C	1:G:1524:GLY:N	2.69	0.44
1:G:1661:LEU:O	1:G:1662:TYR:CG	2.70	0.44
1:A:1210:PRO:HB3	1:A:1255:SER:CB	2.32	0.44
1:A:1312:VAL:O	1:A:1313:ASP:C	2.55	0.44
1:A:1641:ILE:HG12	1:A:1642:THR:H	1.83	0.44
1:D:1109:GLU:HA	1:D:1109:GLU:OE1	2.16	0.44
1:D:1553:GLU:C	1:D:1555:ALA:N	2.70	0.44
1:D:1589:GLY:O	1:D:1590:ALA:C	2.56	0.44
1:D:1639:VAL:CG2	1:D:1655:VAL:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1659:ASP:CA	1:D:1662:TYR:HD2	2.21	0.44
1:D:1461:ASP:O	1:D:1462:TRP:C	2.55	0.44
1:D:1466:GLU:O	1:D:1469:ALA:N	2.50	0.44
2:H:248:HIS:O	2:H:249:TYR:C	2.56	0.44
2:E:209:PHE:CE1	2:E:235:PRO:HB2	2.53	0.44
2:E:512:LEU:O	2:E:513:GLY:C	2.55	0.44
1:G:1453:VAL:O	1:G:1457:ALA:CB	2.65	0.44
2:B:274:SER:C	2:B:276:GLY:H	2.19	0.44
2:B:379:VAL:HG12	2:B:380:SER:N	2.31	0.44
2:E:375:LYS:HG3	2:E:376:ASN:N	2.29	0.44
2:E:517:HIS:CD2	2:E:526:ARG:HH21	2.34	0.44
2:B:1712:ASN:O	2:B:1714:PRO:HD3	2.17	0.44
2:B:1734:SER:O	2:B:1735:ALA:C	2.56	0.44
1:A:1342:GLU:C	1:A:1343:PHE:O	2.51	0.44
2:H:56:THR:O	2:H:59:GLU:HB2	2.17	0.44
2:B:49:ALA:N	2:B:118:LYS:HZ2	2.13	0.44
1:G:792:HIS:ND1	1:G:796:LEU:HD21	2.33	0.44
2:B:408:PRO:HD3	2:B:731:UNK:O	2.18	0.44
2:E:1856:ALA:C	2:E:1857:ILE:CG1	2.85	0.44
2:B:1939:HIS:CD2	2:B:1940:LEU:H	2.34	0.44
2:E:387:TYR:HA	2:E:390:ASN:ND2	2.18	0.44
2:E:721:UNK:O	2:E:722:UNK:O	2.35	0.44
2:H:1903:ASP:O	2:H:1904:LEU:C	2.55	0.44
2:B:1884:TRP:CZ3	2:B:2051:UNK:HA	2.52	0.44
2:E:1173:UNK:CB	2:E:1181:UNK:N	2.73	0.44
2:H:2036:UNK:O	2:H:2039:UNK:N	2.51	0.44
1:A:893:VAL:O	1:A:893:VAL:HG12	2.18	0.44
2:B:843:UNK:O	2:B:846:UNK:N	2.50	0.44
1:D:451:UNK:O	1:D:452:UNK:C	2.66	0.44
3:F:53:UNK:O	3:F:54:UNK:C	2.63	0.44
2:E:862:UNK:O	2:E:863:UNK:C	2.66	0.44
2:B:577:UNK:O	2:B:579:UNK:N	2.50	0.44
1:D:886:GLU:C	1:D:888:ILE:H	2.21	0.44
2:B:1056:UNK:O	2:B:1057:UNK:C	2.62	0.44
1:A:458:UNK:CB	1:A:1631:LEU:HG	2.47	0.44
2:E:627:UNK:C	2:E:629:UNK:N	2.80	0.44
1:D:643:UNK:C	1:D:645:UNK:N	2.78	0.44
2:B:2004:UNK:O	2:B:2005:UNK:C	2.66	0.44
2:B:1487:UNK:HA	2:B:1509:UNK:O	2.17	0.44
1:G:1230:ASP:O	1:G:1232:TYR:N	2.50	0.44
1:G:1271:GLN:O	1:G:1272:ASN:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1349:THR:O	1:G:1376:PHE:N	2.50	0.44
1:G:1609:ARG:CD	1:G:1611:ALA:HB3	2.48	0.44
1:D:1036:ARG:HH21	1:D:1040:GLU:HB3	1.83	0.44
1:D:1036:ARG:O	1:D:1039:MET:N	2.50	0.44
1:D:1620:GLN:O	1:D:1621:PHE:CD1	2.70	0.44
1:D:680:ILE:HG23	1:D:769:ILE:HG21	1.98	0.44
1:D:990:LEU:O	1:D:991:ASP:O	2.35	0.44
1:D:1453:VAL:HG12	1:D:1454:THR:N	2.33	0.44
1:D:1504:ALA:O	1:D:1506:GLN:N	2.51	0.44
1:A:1453:VAL:HG12	1:A:1454:THR:N	2.32	0.44
2:H:335:PRO:O	2:H:336:SER:O	2.36	0.44
2:E:149:VAL:O	2:E:266:TYR:CD2	2.71	0.44
2:E:431:LEU:HD23	2:E:431:LEU:H	1.80	0.44
2:E:479:ILE:HG22	2:E:479:ILE:O	2.17	0.44
2:E:488:VAL:O	2:E:490:TRP:N	2.51	0.44
2:B:234:ILE:HG12	2:B:307:GLY:HA2	1.98	0.44
2:E:1706:ILE:O	2:E:1709:ILE:N	2.50	0.44
2:E:335:PRO:O	2:E:336:SER:O	2.35	0.44
2:B:1686:ALA:O	2:B:1687:ALA:C	2.55	0.44
2:B:1672:GLN:HB3	2:B:1781:LEU:HG	1.99	0.44
2:H:1804:PHE:CD1	2:H:1804:PHE:N	2.85	0.44
2:H:1809:LEU:C	2:H:1811:GLU:N	2.69	0.44
2:E:168:ASP:CB	2:E:171:GLU:HB2	2.30	0.44
2:H:73:GLU:O	2:H:75:SER:N	2.47	0.44
1:G:752:ILE:O	1:G:761:LEU:O	2.35	0.44
2:E:31:SER:O	2:E:34:GLN:N	2.50	0.44
2:E:70:SER:O	2:E:76:LYS:HB2	2.18	0.44
1:G:455:UNK:O	1:G:459:UNK:N	2.50	0.44
2:E:1906:ALA:O	2:E:1910:VAL:HG23	2.17	0.44
2:B:1173:UNK:CB	2:B:1180:UNK:CA	2.96	0.44
1:A:1793:UNK:C	1:A:1795:UNK:N	2.80	0.44
2:E:1854:MET:CE	2:E:1957:UNK:HA	2.47	0.44
2:H:1343:UNK:O	2:H:1344:UNK:CB	2.64	0.44
2:B:633:UNK:O	2:B:635:UNK:N	2.50	0.44
1:A:388:UNK:O	1:A:391:UNK:N	2.51	0.44
1:A:1780:UNK:C	1:A:1782:UNK:N	2.78	0.44
1:D:434:UNK:O	1:D:435:UNK:CB	2.66	0.44
2:E:843:UNK:O	2:E:846:UNK:N	2.51	0.44
1:G:426:UNK:O	1:G:427:UNK:C	2.65	0.44
3:C:56:UNK:C	3:C:58:UNK:N	2.79	0.44
1:G:1284:SER:HB3	1:G:1298:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:212:GLY:O	2:B:218:TRP:HZ2	2.00	0.44
2:B:1056:UNK:C	2:B:1058:UNK:N	2.77	0.44
2:E:1861:ARG:O	2:E:1862:VAL:HB	2.17	0.44
2:H:461:ASP:HB2	2:H:464:ASP:O	2.18	0.44
1:D:1173:LEU:O	1:D:1174:TYR:CB	2.65	0.44
1:G:1198:TYR:CE2	1:G:1217:VAL:CG1	3.00	0.44
1:G:1303:GLY:O	1:G:1304:ALA:C	2.56	0.44
1:G:1391:ASP:O	1:G:1393:ALA:N	2.51	0.44
1:G:1526:LEU:O	1:G:1530:GLY:O	2.35	0.44
1:G:684:GLY:CA	1:G:718:TYR:OH	2.66	0.44
1:G:861:GLN:C	1:G:862:LEU:HD23	2.37	0.44
1:A:1112:ASN:CA	1:A:1114:TYR:HB2	2.48	0.44
1:A:1303:GLY:O	1:A:1304:ALA:O	2.36	0.44
1:A:1544:THR:C	1:A:1546:THR:H	2.21	0.44
1:D:1057:MET:HE3	1:D:1193:TRP:O	2.17	0.44
1:D:1223:PHE:HE2	1:D:1386:ILE:CG2	2.14	0.44
1:D:1246:CYS:HB2	1:D:1329:VAL:O	2.17	0.44
1:D:1316:VAL:CG1	1:D:1317:GLU:N	2.79	0.44
1:D:1351:ASN:ND2	1:D:1354:GLU:HG3	2.33	0.44
1:D:1393:ALA:HB1	1:D:1398:VAL:HG11	1.98	0.44
1:D:1562:LYS:NZ	1:D:1621:PHE:CZ	2.73	0.44
1:D:692:VAL:HG22	1:D:902:ALA:HB1	2.00	0.44
1:D:873:ARG:HG3	1:D:874:GLY:N	2.29	0.44
2:H:431:LEU:H	2:H:431:LEU:HD23	1.82	0.44
2:E:279:THR:HG22	2:E:283:ILE:HD12	1.99	0.44
2:E:429:SER:OG	2:E:432:LEU:CB	2.65	0.44
1:G:1448:ARG:C	1:G:1451:GLN:HB3	2.37	0.44
2:B:259:THR:O	2:B:262:GLU:N	2.50	0.44
2:B:281:VAL:O	2:B:283:ILE:N	2.50	0.44
2:B:371:VAL:CG1	2:B:371:VAL:O	2.63	0.44
1:G:1471:LYS:O	1:G:1474:ALA:CB	2.65	0.44
2:B:1757:GLU:HB2	2:B:1758:HIS:H	1.55	0.44
2:B:1822:MET:HE1	2:B:1830:VAL:CG1	2.48	0.44
2:H:1686:ALA:O	2:H:1687:ALA:C	2.56	0.44
2:H:1778:GLN:NE2	2:H:1835:GLY:HA2	2.32	0.44
2:H:52:ASP:HB2	2:H:113:ASP:OD2	2.18	0.44
2:H:75:SER:C	2:H:77:VAL:N	2.68	0.44
2:B:63:LYS:HD2	2:B:125:ASN:OD1	2.17	0.44
1:G:788:SER:O	1:G:791:ALA:HB3	2.17	0.44
2:H:1266:UNK:O	2:H:1267:UNK:C	2.64	0.44
2:B:408:PRO:CG	2:B:409:PHE:N	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:202:THR:O	2:E:202:THR:HG22	2.17	0.44
2:E:101:ILE:HG13	2:E:126:TYR:CG	2.53	0.44
1:G:523:UNK:O	1:G:525:UNK:N	2.50	0.44
2:E:917:UNK:O	2:E:919:UNK:N	2.50	0.44
1:A:521:UNK:O	1:A:523:UNK:N	2.50	0.44
2:B:928:UNK:O	2:B:931:UNK:N	2.50	0.44
1:A:434:UNK:O	1:A:435:UNK:CB	2.66	0.44
2:E:649:UNK:C	2:E:651:UNK:N	2.80	0.44
2:E:796:UNK:O	2:E:797:UNK:O	2.35	0.44
1:D:455:UNK:O	1:D:459:UNK:N	2.50	0.44
1:G:426:UNK:O	1:G:430:UNK:CB	2.65	0.44
3:C:53:UNK:O	3:C:54:UNK:C	2.63	0.44
2:B:692:UNK:N	2:B:716:UNK:CB	2.81	0.44
1:D:622:UNK:C	1:D:624:UNK:N	2.80	0.44
2:E:1220:UNK:C	2:E:1222:UNK:N	2.79	0.44
1:D:613:UNK:O	1:D:614:UNK:O	2.36	0.44
2:E:233:SER:HA	2:E:424:ALA:CB	2.48	0.44
2:B:760:UNK:O	2:B:761:UNK:C	2.66	0.44
2:H:557:UNK:O	2:H:777:UNK:CB	2.66	0.44
1:A:1150:ASP:HB3	1:A:1151:LYS:H	1.67	0.44
1:D:1138:LYS:HG2	1:D:1139:GLU:H	1.83	0.44
1:G:1114:TYR:CB	1:G:1115:ASN:ND2	2.70	0.44
1:G:1189:ILE:CG2	1:G:1377:MET:CB	2.73	0.44
1:G:1295:SER:OG	1:G:1706:TYR:OH	2.36	0.44
1:G:1315:GLY:O	1:G:1319:ILE:HG12	2.18	0.44
1:G:1385:GLN:NE2	1:G:1593:MET:CG	2.68	0.44
1:G:1544:THR:C	1:G:1546:THR:H	2.20	0.44
1:A:1073:THR:CG2	1:A:1074:GLY:H	2.30	0.44
1:A:1080:THR:HG1	1:A:1083:PRO:HD2	1.82	0.44
1:A:1358:HIS:HB3	1:A:1359:GLY:H	1.59	0.44
1:A:1389:GLN:O	1:A:1390:ALA:CB	2.66	0.44
1:A:1541:PHE:O	1:A:1542:HIS:CB	2.50	0.44
1:A:1609:ARG:HE	1:A:1610:ASN:C	2.21	0.44
1:A:1539:ALA:CB	1:A:1640:SER:O	2.65	0.44
1:A:1693:ILE:HG13	1:A:1694:TYR:CD1	2.52	0.44
1:A:1700:SER:HA	1:A:1701:LYS:HE3	1.99	0.44
1:A:871:TRP:CZ2	1:A:881:ASN:HB2	2.52	0.44
1:D:1047:LEU:O	1:D:1051:VAL:HG23	2.17	0.44
1:D:1349:THR:O	1:D:1376:PHE:N	2.50	0.44
1:D:711:SER:O	1:D:714:VAL:N	2.50	0.44
1:D:807:LYS:CD	1:D:807:LYS:C	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:858:TRP:C	1:D:861:GLN:HE21	2.21	0.44
1:D:861:GLN:C	1:D:862:LEU:HD23	2.36	0.44
1:A:1459:ILE:HG22	1:A:1500:GLN:OE1	2.17	0.44
2:H:157:VAL:HG12	2:H:158:ALA:N	2.32	0.44
2:H:161:GLY:CA	2:H:512:LEU:HD12	2.47	0.44
2:E:209:PHE:O	2:E:210:THR:C	2.54	0.44
2:E:241:ILE:HA	2:E:244:ILE:CD1	2.48	0.44
2:E:442:ASP:HA	2:E:445:LYS:HD2	1.98	0.44
1:G:1504:ALA:O	1:G:1505:GLN:C	2.55	0.44
2:B:298:LYS:O	2:B:299:ALA:C	2.55	0.44
2:B:479:ILE:HG22	2:B:479:ILE:O	2.17	0.44
2:E:1705:SER:OG	2:E:1708:ASP:CB	2.66	0.44
2:E:1716:ASN:O	2:E:1765:ARG:HB2	2.17	0.44
2:E:1730:ARG:C	2:E:1732:ASN:H	2.20	0.44
2:E:354:ASN:O	2:E:356:THR:N	2.51	0.44
2:B:1826:SER:O	2:B:1827:LEU:C	2.55	0.44
2:H:1762:TYR:C	2:H:1763:THR:HG1	2.20	0.44
1:A:1258:ARG:NH1	1:A:1258:ARG:HG2	2.26	0.44
1:G:745:VAL:O	1:G:748:LEU:N	2.51	0.44
1:A:1739:GLN:O	1:A:1740:SER:C	2.56	0.44
2:B:1932:SER:O	2:B:1936:VAL:HG12	2.18	0.44
2:E:330:ASN:OD1	2:E:394:ARG:HG2	2.18	0.44
2:H:1897:GLN:C	2:H:1899:VAL:N	2.69	0.44
1:A:920:SER:CB	1:A:921:PRO:HD2	2.38	0.44
1:A:1741:LYS:O	1:A:1743:SER:N	2.45	0.44
1:D:1491:ARG:O	1:D:1494:HIS:HB3	2.17	0.44
1:D:1741:LYS:O	1:D:1743:SER:N	2.45	0.44
2:B:996:UNK:O	2:B:998:UNK:N	2.50	0.44
1:D:933:VAL:HA	1:D:934:PRO:HD3	1.65	0.44
1:G:929:GLY:C	1:G:931:GLN:N	2.68	0.44
2:E:1650:UNK:O	2:E:1652:UNK:N	2.51	0.44
2:E:744:UNK:O	2:E:746:UNK:N	2.51	0.44
2:B:1304:UNK:O	2:B:1305:UNK:O	2.35	0.44
1:D:961:THR:C	1:D:963:LEU:N	2.70	0.44
2:E:212:GLY:O	2:E:218:TRP:HZ2	2.00	0.44
2:H:877:UNK:O	2:H:878:UNK:C	2.64	0.44
1:G:591:UNK:O	1:G:592:UNK:C	2.65	0.44
2:B:1235:UNK:O	2:B:1236:UNK:CB	2.65	0.44
2:E:1487:UNK:HA	2:E:1509:UNK:O	2.18	0.44
2:H:1502:UNK:O	2:H:1503:UNK:C	2.66	0.44
2:H:233:SER:HA	2:H:424:ALA:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1638:UNK:N	2:B:1655:UNK:O	2.51	0.44
1:A:1133:PRO:CD	1:A:1173:LEU:HD13	2.47	0.44
1:G:1074:GLY:O	1:G:1075:TRP:CB	2.66	0.44
1:G:1197:THR:CB	1:G:1200:ILE:HG22	2.48	0.44
1:G:1531:LEU:O	1:G:1532:THR:O	2.36	0.44
1:G:1251:MET:CE	1:G:1585:LYS:HE2	2.48	0.44
1:G:1625:LEU:O	1:G:1626:TYR:HB3	2.17	0.44
1:A:1431:GLU:O	1:A:1432:HIS:O	2.36	0.44
1:A:1707:THR:HG23	1:A:1710:LEU:CD1	2.48	0.44
1:A:749:ILE:HD11	1:A:802:MET:CE	2.48	0.44
1:A:761:LEU:HD11	1:A:763:TRP:CD2	2.53	0.44
1:D:1222:ALA:O	1:D:1225:ALA:N	2.43	0.44
1:D:1329:VAL:HG11	1:D:1385:GLN:HB2	2.00	0.44
1:D:1519:ILE:HD13	1:D:1521:PRO:HD2	1.97	0.44
1:D:1251:MET:CE	1:D:1585:LYS:HE2	2.47	0.44
1:D:1583:HIS:NE2	1:D:1588:ALA:HA	2.33	0.44
1:D:1688:PHE:C	1:D:1690:ASN:N	2.71	0.44
1:D:704:VAL:HG12	1:D:704:VAL:O	2.18	0.44
1:D:796:LEU:HA	1:D:799:ILE:HD12	1.99	0.44
1:D:1453:VAL:O	1:D:1457:ALA:CB	2.66	0.44
2:H:367:GLU:HB2	2:H:430:HIS:ND1	2.32	0.44
2:H:439:ILE:O	2:H:443:LEU:HG	2.18	0.44
2:E:263:LEU:O	2:E:265:SER:N	2.50	0.44
1:G:1009:LEU:HD22	1:G:1446:LYS:HG3	1.98	0.44
1:G:1502:ARG:O	1:G:1504:ALA:N	2.51	0.44
2:B:157:VAL:HG21	2:B:498:ALA:HB2	1.99	0.44
2:B:158:ALA:C	2:B:159:ILE:HG13	2.37	0.44
2:B:241:ILE:CG2	2:B:275:GLN:NE2	2.67	0.44
2:B:346:GLN:O	2:B:347:GLU:HB3	2.18	0.44
1:G:1471:LYS:O	1:G:1474:ALA:N	2.50	0.44
1:G:1475:GLU:OE1	1:G:1478:PRO:HG2	2.17	0.44
2:B:1787:ALA:O	2:B:1788:ALA:C	2.56	0.44
2:B:1835:GLY:O	2:B:1836:MET:C	2.56	0.44
2:H:1733:TYR:O	2:H:1734:SER:HB2	2.17	0.44
2:H:1734:SER:O	2:H:1735:ALA:C	2.55	0.44
2:H:1737:ILE:HD13	2:H:1738:PHE:N	2.32	0.44
2:H:1742:VAL:HG23	2:H:1751:ILE:HD11	1.99	0.44
2:H:1785:GLU:OE1	3:I:20:UNK:CB	2.66	0.44
2:H:1:MET:N	2:H:11:LEU:O	2.45	0.44
2:H:1856:ALA:C	2:H:1857:ILE:CG1	2.86	0.44
2:H:1863:ALA:HB1	2:H:1866:PHE:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1927:LEU:CA	2:E:1930:SER:HB3	2.46	0.44
2:H:1874:VAL:HG22	2:H:1928:GLN:OE1	2.18	0.44
2:H:101:ILE:HD13	2:H:101:ILE:HA	1.87	0.44
1:A:673:PHE:HZ	1:A:906:LEU:O	2.01	0.44
1:G:1491:ARG:HH11	1:G:1491:ARG:HG2	1.83	0.44
1:G:1493:ILE:HG13	1:G:1494:HIS:N	2.33	0.44
1:D:1491:ARG:HH11	1:D:1491:ARG:HG2	1.82	0.44
2:H:1893:VAL:C	2:H:1894:GLU:O	2.56	0.44
2:E:633:UNK:O	2:E:635:UNK:N	2.50	0.44
2:B:1148:UNK:C	2:B:1149:UNK:O	2.65	0.44
2:E:1854:MET:HA	2:E:1895:ASN:HD22	1.82	0.44
1:G:491:UNK:O	1:G:493:UNK:N	2.51	0.44
2:B:1295:UNK:O	2:B:1297:UNK:N	2.51	0.44
3:I:29:UNK:O	3:I:32:UNK:N	2.51	0.44
1:G:888:ILE:C	1:G:890:LYS:H	2.20	0.44
1:G:890:LYS:C	1:G:892:GLY:N	2.70	0.44
2:E:691:UNK:O	2:E:692:UNK:CB	2.65	0.44
2:E:1137:UNK:C	2:E:1139:UNK:N	2.80	0.44
1:A:141:UNK:C	1:A:143:UNK:N	2.79	0.44
2:B:962:UNK:C	2:B:964:UNK:N	2.80	0.44
1:G:707:THR:HG22	1:G:709:ARG:H	1.83	0.44
1:D:1160:THR:O	1:D:1160:THR:HG23	2.18	0.44
1:G:1110:LEU:HG	1:G:1189:ILE:H	1.83	0.44
1:G:1234:MET:O	1:G:1239:HIS:CD2	2.59	0.44
1:G:1431:GLU:O	1:G:1432:HIS:O	2.35	0.44
1:G:1599:ILE:C	1:G:1600:LEU:O	2.54	0.44
1:G:1396:MET:CA	1:G:1676:LYS:HD3	2.20	0.44
1:G:867:ALA:HB1	1:G:905:LEU:CD1	2.48	0.44
1:G:996:LYS:HZ1	1:G:1400:ILE:CG1	2.31	0.44
1:A:1248:GLY:O	1:A:1300:THR:HA	2.18	0.44
1:A:1412:ASP:OD1	1:A:1412:ASP:N	2.51	0.44
1:A:1640:SER:N	1:A:1654:ILE:HG13	2.33	0.44
1:D:1301:PRO:HB2	1:D:1310:GLU:HG2	2.00	0.44
1:D:1641:ILE:H	1:D:1641:ILE:CD1	2.00	0.44
1:D:1701:LYS:HE3	1:D:1701:LYS:H	1.83	0.44
1:D:1704:ALA:CB	1:D:1705:PRO:HD2	2.31	0.44
2:E:252:THR:H	2:E:252:THR:HG1	1.56	0.44
2:E:301:THR:O	2:E:304:PHE:HB3	2.17	0.44
2:E:444:VAL:C	2:E:446:ASN:N	2.69	0.44
1:G:1008:GLU:O	1:G:1010:GLU:N	2.51	0.44
1:G:1015:LEU:CD2	1:G:1016:GLU:H	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1828:VAL:O	2:E:1829:GLU:C	2.56	0.44
2:E:1742:VAL:HG21	2:E:1837:THR:HA	1.99	0.44
2:B:1733:TYR:O	2:B:1734:SER:HB2	2.18	0.44
2:B:1753:LYS:O	2:B:1754:GLU:CB	2.63	0.44
2:B:1760:THR:O	2:B:1761:SER:OG	2.24	0.44
1:D:1184:LEU:HD12	1:D:1185:VAL:H	1.83	0.44
1:D:1258:ARG:HD3	1:D:1338:GLU:OE2	2.18	0.44
1:G:455:UNK:O	1:G:458:UNK:N	2.51	0.44
1:G:1739:GLN:O	1:G:1740:SER:C	2.57	0.44
2:B:1927:LEU:CA	2:B:1930:SER:HB3	2.47	0.44
2:B:1856:ALA:C	2:B:1857:ILE:CG1	2.87	0.44
1:G:903:PHE:C	1:G:906:LEU:HB3	2.37	0.44
2:E:1884:TRP:CZ3	2:E:2051:UNK:HA	2.53	0.44
2:H:1854:MET:HA	2:H:1895:ASN:HD22	1.81	0.44
2:H:923:UNK:C	2:H:927:UNK:CB	2.96	0.44
2:H:677:UNK:O	2:H:678:UNK:C	2.66	0.44
1:G:1684:ALA:C	1:G:1686:LYS:N	2.69	0.44
2:E:772:UNK:CB	2:E:777:UNK:O	2.65	0.44
3:I:56:UNK:C	3:I:58:UNK:N	2.80	0.44
2:H:1067:UNK:O	2:H:1069:UNK:N	2.50	0.44
2:E:1549:UNK:O	2:E:1550:UNK:O	2.36	0.44
1:G:448:UNK:C	1:G:450:UNK:N	2.80	0.44
1:G:563:UNK:O	1:G:566:UNK:N	2.50	0.44
2:H:224:ASN:O	2:H:226:PRO:HD3	2.18	0.44
1:D:173:UNK:O	1:D:174:UNK:C	2.66	0.44
2:H:1487:UNK:HA	2:H:1509:UNK:O	2.18	0.44
1:A:620:UNK:O	1:A:621:UNK:C	2.65	0.44
1:D:682:GLY:O	1:D:683:ALA:O	2.36	0.44
2:E:342:SER:OG	2:E:343:ASN:N	2.50	0.44
1:G:1367:ARG:NH1	1:G:1372:THR:HG21	2.32	0.44
1:G:1398:VAL:CG1	1:G:1399:PRO:HA	2.18	0.44
1:G:1433:HIS:ND1	1:G:1434:SER:O	2.51	0.44
1:G:1565:GLY:O	1:G:1566:ARG:O	2.36	0.44
1:A:1091:ALA:O	1:A:1093:TYR:O	2.36	0.44
1:A:1188:GLN:CD	1:A:1188:GLN:N	2.72	0.44
1:A:1351:ASN:O	1:A:1352:THR:C	2.56	0.44
1:A:1646:PHE:O	1:A:1648:GLN:N	2.51	0.44
1:A:807:LYS:CD	1:A:807:LYS:C	2.86	0.44
1:A:840:SER:OG	1:A:841:GLU:OE1	2.35	0.44
1:A:916:LEU:O	1:A:919:LYS:HB2	2.18	0.44
1:D:1091:ALA:O	1:D:1093:TYR:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1114:TYR:CB	1:D:1115:ASN:ND2	2.70	0.44
1:D:1208:VAL:CG2	1:D:1212:THR:HB	2.47	0.44
1:D:1271:GLN:O	1:D:1272:ASN:C	2.56	0.44
1:D:1289:MET:H	1:D:1289:MET:HG2	1.49	0.44
1:D:1288:ASN:C	1:D:1290:LEU:H	2.20	0.44
1:D:1546:THR:C	1:D:1548:ALA:H	2.22	0.44
1:D:1555:ALA:HA	1:D:1558:ASN:CB	2.48	0.44
1:D:1615:ASP:CG	1:D:1617:ILE:HG12	2.38	0.44
1:D:901:MET:O	1:D:902:ALA:C	2.54	0.44
1:D:1685:TYR:CD2	2:E:966:UNK:CB	3.01	0.44
1:D:1460:LYS:HD3	1:D:1778:UNK:CB	2.48	0.44
1:A:1452:LEU:HD23	1:A:1456:GLU:HB3	2.00	0.44
2:H:489:LYS:O	2:H:490:TRP:C	2.55	0.44
2:B:529:VAL:HG12	2:B:530:ALA:H	1.81	0.44
1:D:1476:GLU:O	1:D:1477:ILE:CG1	2.57	0.44
2:E:1742:VAL:HG12	2:E:1743:ASP:N	2.33	0.44
2:E:1720:HIS:CB	2:E:1762:TYR:O	2.66	0.44
1:A:1470:LEU:C	1:A:1470:LEU:HD23	2.38	0.44
2:B:1737:ILE:HG23	2:B:1755:ILE:CG2	2.48	0.44
1:G:752:ILE:HG23	1:G:761:LEU:HD21	1.99	0.44
1:G:784:ILE:HD11	1:G:838:MET:HG3	2.00	0.44
2:H:1265:UNK:O	2:H:1269:UNK:CB	2.66	0.44
2:B:401:GLY:O	2:B:402:LEU:C	2.56	0.44
2:H:1784:MET:HE3	3:I:21:UNK:CA	2.35	0.44
2:E:1933:LEU:HA	2:E:1936:VAL:CG1	2.47	0.44
2:H:1929:LYS:CA	2:H:1929:LYS:HE2	2.47	0.44
1:A:1497:ALA:O	1:A:1499:SER:N	2.51	0.44
2:E:217:GLU:C	2:E:219:LEU:N	2.71	0.44
2:H:633:UNK:O	2:H:635:UNK:N	2.51	0.44
2:E:646:UNK:O	2:E:647:UNK:C	2.65	0.44
3:I:53:UNK:O	3:I:54:UNK:C	2.65	0.44
2:H:691:UNK:O	2:H:692:UNK:CB	2.65	0.44
2:B:1169:UNK:C	2:B:1171:UNK:H2	2.30	0.44
2:H:212:GLY:O	2:H:218:TRP:HZ2	2.01	0.44
2:B:1995:UNK:O	2:B:1996:UNK:O	2.35	0.44
1:D:407:UNK:C	1:D:409:UNK:N	2.77	0.44
2:H:1995:UNK:O	2:H:1996:UNK:O	2.36	0.44
1:D:261:UNK:C	1:D:263:UNK:N	2.79	0.44
1:G:615:UNK:C	1:G:617:UNK:N	2.81	0.44
2:H:1075:UNK:O	2:H:1076:UNK:CB	2.66	0.44
2:H:627:UNK:C	2:H:629:UNK:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1141:ALA:HA	1:G:1144:PHE:CD1	2.51	0.43
1:G:1161:GLY:O	1:G:1162:GLU:O	2.36	0.43
1:D:1133:PRO:CD	1:D:1173:LEU:HD13	2.46	0.43
1:G:1108:PRO:O	1:G:1109:GLU:CB	2.66	0.43
1:G:1353:LEU:O	1:G:1355:GLU:N	2.51	0.43
1:G:1609:ARG:NE	1:G:1610:ASN:N	2.61	0.43
1:G:856:GLU:HB2	1:G:858:TRP:NE1	2.31	0.43
1:G:913:VAL:O	1:G:916:LEU:HB3	2.17	0.43
1:A:1240:VAL:HG13	1:A:1242:GLU:H	1.82	0.43
1:A:1241:SER:HB2	1:A:1295:SER:HB2	1.99	0.43
1:A:1288:ASN:C	1:A:1290:LEU:H	2.21	0.43
1:A:1329:VAL:HG11	1:A:1385:GLN:N	2.32	0.43
1:A:1237:TYR:OH	1:A:1396:MET:CB	2.66	0.43
1:A:1547:LYS:HE3	1:A:1615:ASP:CB	2.47	0.43
1:A:1546:THR:C	1:A:1548:ALA:H	2.21	0.43
1:A:1550:ASP:O	1:A:1551:LYS:C	2.57	0.43
1:A:711:SER:C	1:A:713:GLN:N	2.68	0.43
1:A:724:LYS:HD3	1:A:725:TYR:HE1	1.83	0.43
1:A:743:GLN:O	1:A:745:VAL:N	2.50	0.43
1:D:1074:GLY:O	1:D:1075:TRP:CB	2.66	0.43
1:D:1389:GLN:O	1:D:1390:ALA:CB	2.65	0.43
1:D:1613:ASN:CG	1:D:1614:VAL:H	2.22	0.43
1:D:1625:LEU:HD13	1:D:1626:TYR:N	2.33	0.43
1:D:1728:SER:O	1:D:1729:GLY:C	2.57	0.43
1:D:797:THR:CA	1:D:800:LEU:HD23	2.47	0.43
1:A:1449:LYS:C	1:A:1451:GLN:N	2.70	0.43
2:H:263:LEU:O	2:H:265:SER:N	2.51	0.43
2:E:439:ILE:O	2:E:443:LEU:HG	2.18	0.43
2:E:467:ASP:C	2:E:469:ARG:N	2.69	0.43
1:G:1459:ILE:CD1	1:G:1460:LYS:N	2.81	0.43
2:B:375:LYS:HG3	2:B:376:ASN:N	2.28	0.43
2:B:517:HIS:CD2	2:B:517:HIS:C	2.91	0.43
2:E:1681:TYR:C	2:E:1681:TYR:HD2	2.20	0.43
2:E:1718:THR:CB	2:E:1770:LEU:HD13	2.48	0.43
2:E:1742:VAL:HG23	2:E:1751:ILE:HD11	1.99	0.43
2:E:1787:ALA:O	2:E:1788:ALA:C	2.56	0.43
2:B:1715:VAL:HA	2:B:1718:THR:CG2	2.48	0.43
2:H:1730:ARG:C	2:H:1732:ASN:H	2.20	0.43
2:H:1814:ALA:HA	2:H:1817:SER:OG	2.17	0.43
2:E:73:GLU:O	2:E:75:SER:N	2.47	0.43
2:E:416:PHE:HB3	2:E:417:SER:H	1.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1875:VAL:HG22	2:E:1880:LYS:O	2.18	0.43
2:H:1884:TRP:CZ3	2:H:2051:UNK:HA	2.53	0.43
1:A:909:LEU:O	1:A:909:LEU:HG	2.18	0.43
1:D:1493:ILE:HG13	1:D:1494:HIS:N	2.32	0.43
1:D:523:UNK:O	1:D:525:UNK:N	2.51	0.43
2:H:915:UNK:C	2:H:917:UNK:N	2.80	0.43
2:B:325:GLU:O	2:B:328:LEU:N	2.50	0.43
2:B:1484:UNK:O	2:B:1485:UNK:CB	2.66	0.43
1:A:1684:ALA:C	1:A:1686:LYS:N	2.70	0.43
2:B:2006:UNK:HA	2:B:2009:UNK:O	2.18	0.43
1:A:565:UNK:O	1:A:569:UNK:N	2.51	0.43
2:E:1972:UNK:C	2:E:1974:UNK:N	2.78	0.43
2:H:301:THR:O	2:H:304:PHE:HB3	2.17	0.43
2:H:401:GLY:O	2:H:402:LEU:C	2.56	0.43
3:C:37:UNK:C	3:C:39:UNK:N	2.81	0.43
1:G:279:UNK:C	1:G:281:UNK:N	2.81	0.43
2:E:738:UNK:O	2:E:739:UNK:C	2.66	0.43
2:E:2000:UNK:O	2:E:2002:UNK:N	2.51	0.43
2:B:2029:UNK:C	2:B:2031:UNK:N	2.78	0.43
2:E:817:UNK:O	2:E:818:UNK:C	2.66	0.43
2:E:9:LEU:CD1	2:E:58:ALA:HB2	2.47	0.43
1:D:976:ALA:O	2:E:939:UNK:HA	2.18	0.43
2:B:568:UNK:C	2:B:570:UNK:N	2.80	0.43
1:G:1017:ARG:CZ	1:G:1320:LEU:HD13	2.47	0.43
1:G:1368:PRO:O	1:G:1369:ALA:O	2.35	0.43
1:G:1620:GLN:O	1:G:1621:PHE:CD1	2.71	0.43
1:G:1657:HIS:CE1	1:G:1658:PRO:HD2	2.53	0.43
1:G:1701:LYS:HE3	1:G:1701:LYS:H	1.82	0.43
1:G:1706:TYR:C	1:G:1707:THR:HG22	2.39	0.43
1:G:718:TYR:N	1:G:718:TYR:CD1	2.85	0.43
1:G:901:MET:O	1:G:902:ALA:C	2.56	0.43
1:G:997:PRO:O	1:G:1002:LYS:HE3	2.18	0.43
1:A:1036:ARG:O	1:A:1040:GLU:N	2.32	0.43
1:A:1326:ILE:HG13	1:A:1388:MET:HG2	2.00	0.43
1:A:1577:GLN:CD	1:A:1592:MET:HA	2.38	0.43
1:A:1599:ILE:C	1:A:1600:LEU:O	2.54	0.43
1:A:1609:ARG:CD	1:A:1611:ALA:HB3	2.48	0.43
1:A:717:TYR:CD2	1:A:718:TYR:CD1	3.04	0.43
1:A:792:HIS:CE1	1:A:796:LEU:CD2	2.96	0.43
1:A:858:TRP:C	1:A:861:GLN:HE21	2.21	0.43
1:A:996:LYS:NZ	1:A:1400:ILE:HG13	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1040:GLU:O	1:D:1606:PRO:HG3	2.18	0.43
1:D:1108:PRO:O	1:D:1109:GLU:CB	2.66	0.43
1:D:1526:LEU:O	1:D:1530:GLY:O	2.36	0.43
1:D:1562:LYS:O	1:D:1564:LEU:N	2.51	0.43
1:D:1599:ILE:C	1:D:1600:LEU:O	2.55	0.43
1:D:1400:ILE:HD11	1:D:1662:TYR:OH	2.17	0.43
1:D:677:TYR:C	1:D:678:VAL:HG23	2.38	0.43
1:D:792:HIS:CE1	1:D:796:LEU:CD2	2.97	0.43
1:D:826:MET:HB2	1:D:868:ILE:HG12	2.00	0.43
2:E:149:VAL:HG22	2:E:155:GLN:HA	1.99	0.43
2:E:259:THR:HG22	2:E:288:SER:HA	1.98	0.43
1:G:1463:VAL:O	1:G:1464:GLU:C	2.57	0.43
2:B:427:PHE:O	2:B:428:HIS:C	2.57	0.43
1:G:1470:LEU:C	1:G:1470:LEU:HD23	2.38	0.43
2:H:1689:ASP:O	2:H:1690:VAL:C	2.54	0.43
1:D:1264:ARG:NH2	1:D:1270:VAL:HB	2.32	0.43
1:G:797:THR:O	1:G:800:LEU:CB	2.65	0.43
2:E:1:MET:HE3	2:E:19:VAL:HG13	1.99	0.43
2:E:2022:UNK:O	2:E:2024:UNK:N	2.49	0.43
2:E:1855:ILE:CG2	2:E:1951:UNK:HA	2.42	0.43
2:B:1899:VAL:O	2:B:1903:ASP:CB	2.60	0.43
1:G:998:TYR:O	1:G:1001:VAL:HB	2.17	0.43
1:D:556:UNK:C	1:D:558:UNK:N	2.79	0.43
2:H:1173:UNK:CB	2:H:1181:UNK:N	2.73	0.43
2:E:1042:UNK:O	2:E:1044:UNK:N	2.52	0.43
2:B:174:ARG:HA	2:B:219:LEU:HD22	1.99	0.43
2:B:1147:UNK:O	2:B:1148:UNK:CB	2.66	0.43
1:A:491:UNK:O	1:A:493:UNK:N	2.51	0.43
1:A:419:UNK:C	1:A:421:UNK:H	2.31	0.43
2:H:1420:UNK:O	2:H:1421:UNK:O	2.36	0.43
1:A:449:UNK:O	1:A:451:UNK:N	2.51	0.43
2:E:1484:UNK:O	2:E:1485:UNK:CB	2.66	0.43
1:D:536:UNK:O	1:D:537:UNK:C	2.65	0.43
2:B:877:UNK:O	2:B:878:UNK:C	2.65	0.43
2:B:1861:ARG:O	2:B:1862:VAL:HB	2.18	0.43
2:B:673:UNK:O	2:B:674:UNK:C	2.67	0.43
2:E:165:ASN:HB2	2:E:510:SER:HB2	2.00	0.43
1:D:813:ARG:HG3	1:D:813:ARG:HH11	1.83	0.43
2:E:905:UNK:C	2:E:907:UNK:N	2.81	0.43
2:E:1555:UNK:O	2:E:1556:UNK:C	2.65	0.43
1:G:261:UNK:C	1:G:263:UNK:N	2.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:177:UNK:O	1:A:178:UNK:C	2.66	0.43
2:B:627:UNK:C	2:B:629:UNK:N	2.80	0.43
1:A:1745:UNK:C	1:A:1747:UNK:N	2.81	0.43
1:G:1127:VAL:O	1:G:1177:LYS:HA	2.17	0.43
1:D:1141:ALA:HA	1:D:1144:PHE:CD1	2.52	0.43
1:G:1241:SER:HB2	1:G:1295:SER:HB2	2.01	0.43
1:G:1351:ASN:ND2	1:G:1354:GLU:HG3	2.32	0.43
1:G:1237:TYR:OH	1:G:1396:MET:CB	2.65	0.43
1:G:1579:PHE:O	1:G:1580:LEU:CB	2.50	0.43
1:G:1589:GLY:O	1:G:1592:MET:N	2.51	0.43
1:G:1625:LEU:HD13	1:G:1626:TYR:N	2.32	0.43
1:G:1406:MET:HB3	1:G:1654:ILE:HG22	1.98	0.43
1:G:1714:VAL:HG13	1:G:1731:LEU:HD22	2.01	0.43
1:A:1251:MET:N	1:A:1333:ASP:OD2	2.45	0.43
1:A:1425:ILE:O	1:A:1426:LEU:CD2	2.65	0.43
1:A:1681:GLU:O	1:A:1682:LYS:CB	2.65	0.43
1:A:745:VAL:O	1:A:746:GLU:C	2.57	0.43
1:D:1209:ASP:O	1:D:1210:PRO:O	2.36	0.43
1:D:1215:VAL:HG23	1:D:1216:LEU:N	2.32	0.43
1:D:1303:GLY:O	1:D:1304:ALA:C	2.56	0.43
1:D:1376:PHE:O	1:D:1377:MET:CG	2.65	0.43
1:D:1377:MET:O	1:D:1377:MET:CG	2.54	0.43
1:D:1597:LEU:HD23	1:D:1597:LEU:N	2.32	0.43
1:D:676:LYS:O	1:D:677:TYR:O	2.37	0.43
1:D:852:ARG:C	1:D:854:HIS:N	2.72	0.43
1:D:1452:LEU:HD23	1:D:1456:GLU:HB3	2.00	0.43
2:E:188:ILE:O	2:E:189:LYS:C	2.55	0.43
2:E:273:HIS:CE1	2:E:488:VAL:HG11	2.51	0.43
2:B:244:ILE:H	2:B:244:ILE:HG13	1.61	0.43
2:B:259:THR:O	2:B:261:GLY:N	2.51	0.43
2:B:305:PHE:CE2	2:B:442:ASP:HB3	2.53	0.43
2:E:1678:MET:O	2:E:1681:TYR:N	2.51	0.43
2:E:1705:SER:O	2:E:1708:ASP:HB3	2.18	0.43
2:E:1715:VAL:CG2	2:E:1716:ASN:H	2.05	0.43
2:B:1715:VAL:HA	2:B:1718:THR:HG22	2.00	0.43
2:B:1722:GLY:O	2:B:1723:GLY:C	2.57	0.43
2:H:1715:VAL:CG1	2:H:1716:ASN:N	2.72	0.43
2:H:1724:GLU:O	2:H:1729:ILE:CB	2.65	0.43
1:G:753:TYR:CG	1:G:809:GLN:HG2	2.53	0.43
1:G:455:UNK:O	1:G:456:UNK:C	2.67	0.43
2:E:2022:UNK:C	2:E:2024:UNK:N	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1867:SER:O	2:H:1871:LEU:HB3	2.18	0.43
1:A:586:UNK:O	1:A:588:UNK:N	2.51	0.43
2:E:1903:ASP:OD1	2:E:1904:LEU:N	2.51	0.43
2:E:1912:ASN:O	2:E:1913:VAL:CG2	2.67	0.43
2:E:1932:SER:O	2:E:1936:VAL:HG12	2.18	0.43
1:A:884:ILE:O	1:A:885:ALA:HB3	2.18	0.43
1:A:574:UNK:O	1:A:575:UNK:C	2.65	0.43
1:D:1780:UNK:C	1:D:1782:UNK:N	2.79	0.43
2:H:325:GLU:O	2:H:328:LEU:N	2.52	0.43
2:E:597:UNK:C	2:E:599:UNK:N	2.82	0.43
1:A:972:SER:O	1:A:973:ALA:CB	2.66	0.43
1:D:561:UNK:O	1:D:562:UNK:C	2.66	0.43
2:E:932:UNK:C	2:E:934:UNK:N	2.82	0.43
2:B:691:UNK:O	2:B:692:UNK:CB	2.66	0.43
1:D:279:UNK:C	1:D:281:UNK:N	2.80	0.43
1:D:557:UNK:O	1:D:559:UNK:N	2.51	0.43
2:E:230:TYR:C	2:E:232:LEU:H	2.20	0.43
1:G:990:LEU:O	1:G:991:ASP:O	2.36	0.43
2:B:1137:UNK:C	2:B:1139:UNK:N	2.81	0.43
2:H:1235:UNK:O	2:H:1236:UNK:CB	2.66	0.43
2:E:880:UNK:CB	2:E:989:UNK:O	2.66	0.43
1:G:1779:UNK:C	1:G:1781:UNK:N	2.76	0.43
2:H:726:UNK:O	2:H:727:UNK:CB	2.65	0.43
1:G:1063:HIS:CD2	1:G:1065:GLY:CA	2.98	0.43
1:G:1075:TRP:O	1:G:1076:VAL:CG1	2.52	0.43
1:G:1192:GLY:C	1:G:1193:TRP:CG	2.92	0.43
1:G:1222:ALA:O	1:G:1225:ALA:CB	2.63	0.43
1:G:1232:TYR:O	1:G:1235:TYR:HD2	2.01	0.43
1:G:1237:TYR:OH	1:G:1396:MET:HB2	2.18	0.43
1:G:1333:ASP:HB2	1:G:1586:GLY:HA3	2.00	0.43
1:G:1579:PHE:HE2	1:G:1609:ARG:HB3	1.82	0.43
1:G:1290:LEU:CA	1:G:1701:LYS:HD2	2.48	0.43
1:G:1728:SER:O	1:G:1729:GLY:C	2.56	0.43
1:G:438:UNK:CB	1:G:1358:HIS:HD2	2.31	0.43
1:G:901:MET:HE3	1:G:901:MET:O	2.18	0.43
1:G:692:VAL:CG2	1:G:902:ALA:HB1	2.48	0.43
1:A:1232:TYR:C	1:A:1234:MET:N	2.68	0.43
1:A:1246:CYS:HB3	1:A:1328:ILE:CG2	2.27	0.43
1:A:1427:THR:O	1:A:1430:ARG:N	2.52	0.43
1:A:1531:LEU:O	1:A:1532:THR:O	2.36	0.43
1:A:1585:LYS:HE3	1:A:1585:LYS:HB3	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1661:LEU:O	1:A:1661:LEU:CD2	2.59	0.43
1:A:1713:ASP:O	1:A:1714:VAL:C	2.56	0.43
1:A:911:PRO:O	1:A:913:VAL:N	2.51	0.43
1:D:1020:VAL:CG1	1:D:1021:VAL:N	2.81	0.43
1:D:1256:ALA:HB1	1:D:1274:ILE:HD11	1.99	0.43
1:D:1433:HIS:ND1	1:D:1434:SER:O	2.50	0.43
1:A:1015:LEU:CD2	1:A:1016:GLU:H	2.30	0.43
1:A:1447:TYR:CE2	1:A:1450:ARG:CG	3.01	0.43
1:A:1452:LEU:O	1:A:1456:GLU:CB	2.56	0.43
2:H:149:VAL:O	2:H:266:TYR:CD2	2.72	0.43
2:H:512:LEU:O	2:H:513:GLY:C	2.57	0.43
2:E:157:VAL:HG12	2:E:158:ALA:N	2.34	0.43
2:E:241:ILE:HA	2:E:244:ILE:HD12	1.99	0.43
2:E:298:LYS:O	2:E:299:ALA:C	2.56	0.43
2:B:184:VAL:O	2:B:185:GLY:C	2.55	0.43
1:D:1470:LEU:HD23	1:D:1470:LEU:C	2.37	0.43
2:E:1755:ILE:HG12	2:E:1755:ILE:H	1.55	0.43
2:B:1782:THR:HG1	2:B:1809:LEU:HD21	1.83	0.43
2:H:1672:GLN:HB3	2:H:1781:LEU:HG	1.99	0.43
2:H:1826:SER:O	2:H:1827:LEU:C	2.55	0.43
2:H:1698:PHE:CE1	2:H:1828:VAL:HG21	2.50	0.43
2:H:57:PRO:C	2:H:59:GLU:H	2.22	0.43
2:H:60:LEU:O	2:H:64:PHE:HB3	2.18	0.43
2:B:1:MET:HE3	2:B:19:VAL:HG13	2.00	0.43
1:G:742:LYS:HG3	1:G:743:GLN:H	1.84	0.43
2:B:404:GLN:C	2:B:406:ARG:N	2.71	0.43
2:E:1938:GLY:O	2:E:1939:HIS:HB2	2.18	0.43
2:E:1867:SER:O	2:E:1871:LEU:HB3	2.18	0.43
2:B:1863:ALA:O	2:B:1864:ALA:HB3	2.18	0.43
2:E:915:UNK:C	2:E:917:UNK:N	2.80	0.43
1:D:1793:UNK:C	1:D:1795:UNK:N	2.80	0.43
2:H:1918:LYS:HB3	2:H:1919:LEU:H	1.46	0.43
2:H:616:UNK:C	2:H:618:UNK:H	2.22	0.43
2:B:1587:UNK:O	2:B:1590:UNK:N	2.52	0.43
2:E:653:UNK:O	2:E:657:UNK:N	2.52	0.43
1:D:370:UNK:O	1:D:371:UNK:C	2.65	0.43
2:B:616:UNK:C	2:B:618:UNK:H	2.22	0.43
3:F:56:UNK:C	3:F:58:UNK:N	2.79	0.43
2:H:1969:UNK:O	2:H:1973:UNK:CB	2.67	0.43
2:H:601:UNK:C	2:H:603:UNK:N	2.78	0.43
2:B:932:UNK:C	2:B:934:UNK:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:536:UNK:O	1:A:537:UNK:C	2.66	0.43
1:A:1631:LEU:HD23	1:A:1631:LEU:HA	1.73	0.43
1:G:543:UNK:C	1:G:545:UNK:N	2.81	0.43
1:D:404:UNK:O	1:D:405:UNK:C	2.65	0.43
2:E:28:PHE:HA	2:E:28:PHE:HD2	1.67	0.43
2:E:1632:UNK:O	2:E:1633:UNK:CB	2.66	0.43
2:H:1357:UNK:CB	2:H:1406:UNK:N	2.81	0.43
2:H:880:UNK:CB	2:H:989:UNK:O	2.66	0.43
2:E:1030:UNK:O	2:E:1031:UNK:CB	2.66	0.43
1:D:1142:GLU:CA	1:D:1145:LYS:HB2	2.45	0.43
1:G:1023:GLY:N	1:G:1386:ILE:HG13	2.34	0.43
1:G:1087:LYS:HB3	1:G:1088:ASP:H	1.47	0.43
1:G:1118:LYS:O	1:G:1118:LYS:CG	2.67	0.43
1:G:1237:TYR:O	1:G:1238:VAL:CG2	2.67	0.43
1:G:1327:CYS:SG	1:G:1328:ILE:N	2.91	0.43
1:G:1389:GLN:O	1:G:1390:ALA:CB	2.65	0.43
1:G:1542:HIS:O	1:G:1544:THR:N	2.51	0.43
1:G:1028:GLY:CA	1:G:1591:TRP:HZ2	2.32	0.43
1:G:1614:VAL:HG12	1:G:1618:LEU:HD12	2.00	0.43
1:G:724:LYS:C	1:G:725:TYR:HD1	2.21	0.43
1:G:819:PRO:HA	1:G:861:GLN:HA	2.00	0.43
1:A:1067:LEU:HA	1:A:1074:GLY:O	2.18	0.43
1:A:1391:ASP:O	1:A:1393:ALA:N	2.52	0.43
1:A:1583:HIS:NE2	1:A:1588:ALA:HA	2.33	0.43
1:A:1701:LYS:N	1:A:1701:LYS:CD	2.81	0.43
1:A:1706:TYR:HB2	1:A:1707:THR:H	1.64	0.43
1:A:680:ILE:HG23	1:A:769:ILE:HG21	1.98	0.43
1:A:853:TRP:CD1	1:A:864:VAL:HG23	2.54	0.43
1:D:1275:LEU:O	1:D:1278:SER:HB3	2.17	0.43
1:D:1017:ARG:CZ	1:D:1320:LEU:HD13	2.49	0.43
1:D:1618:LEU:O	1:D:1619:GLU:HB2	2.18	0.43
1:D:761:LEU:HD11	1:D:763:TRP:CD2	2.54	0.43
1:D:856:GLU:HB2	1:D:858:TRP:NE1	2.32	0.43
1:D:1452:LEU:O	1:D:1456:GLU:CB	2.58	0.43
2:H:131:ILE:HG21	2:H:182:VAL:HG22	2.01	0.43
2:H:383:PRO:HG2	2:H:384:GLN:H	1.83	0.43
2:E:242:GLY:O	2:E:243:VAL:C	2.56	0.43
2:E:267:LEU:CD2	2:E:457:ILE:HD13	2.48	0.43
1:G:1452:LEU:HD23	1:G:1456:GLU:HB3	2.01	0.43
2:B:474:SER:O	2:B:475:ILE:CB	2.66	0.43
2:E:1737:ILE:HD13	2:E:1738:PHE:N	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1806:GLY:HA2	2:E:1810:GLY:O	2.17	0.43
1:A:1475:GLU:OE1	1:A:1478:PRO:HG2	2.19	0.43
2:E:554:UNK:O	2:E:555:UNK:C	2.66	0.43
2:B:1684:SER:C	2:B:1686:ALA:N	2.71	0.43
2:B:1689:ASP:O	2:B:1690:VAL:C	2.57	0.43
2:B:1778:GLN:O	2:B:1779:PRO:C	2.56	0.43
2:H:1678:MET:O	2:H:1681:TYR:N	2.52	0.43
2:H:1742:VAL:HG12	2:H:1743:ASP:N	2.34	0.43
2:H:1806:GLY:HA2	2:H:1810:GLY:O	2.17	0.43
2:H:1266:UNK:O	2:H:1269:UNK:N	2.52	0.43
1:G:458:UNK:HA	1:G:1631:LEU:CD2	2.47	0.43
2:E:1863:ALA:HB1	2:E:1866:PHE:HB2	2.00	0.43
2:B:1900:ALA:C	2:B:1902:GLY:N	2.72	0.43
2:B:1912:ASN:C	2:B:1913:VAL:HG22	2.39	0.43
2:B:1874:VAL:CG2	2:B:1928:GLN:HE22	2.28	0.43
2:B:1863:ALA:HB1	2:B:1866:PHE:HB2	2.01	0.43
2:E:1897:GLN:O	2:E:1899:VAL:N	2.52	0.43
1:D:903:PHE:C	1:D:906:LEU:HB3	2.39	0.43
1:A:1487:LEU:C	1:A:1490:THR:HG22	2.36	0.43
1:D:930:LEU:O	1:D:932:PHE:N	2.51	0.43
1:A:491:UNK:C	1:A:493:UNK:N	2.80	0.43
1:G:914:VAL:O	1:G:915:GLU:C	2.57	0.43
1:A:994:GLU:O	1:A:995:LEU:O	2.37	0.43
1:D:1684:ALA:C	1:D:1686:LYS:N	2.70	0.43
1:G:972:SER:O	1:G:973:ALA:CB	2.66	0.43
2:H:357:ASN:HB3	2:H:365:GLN:HE21	1.84	0.43
2:H:1549:UNK:O	2:H:1550:UNK:O	2.36	0.43
2:B:1551:UNK:O	2:B:1553:UNK:N	2.51	0.43
1:G:404:UNK:O	1:G:405:UNK:C	2.65	0.43
2:B:165:ASN:HB2	2:B:510:SER:HB2	1.99	0.43
2:E:867:UNK:O	2:E:868:UNK:C	2.65	0.43
2:B:726:UNK:CB	2:B:786:UNK:O	2.66	0.43
1:G:1160:THR:HG23	1:G:1160:THR:O	2.18	0.43
1:G:1412:ASP:N	1:G:1412:ASP:OD1	2.51	0.43
1:G:1609:ARG:HE	1:G:1610:ASN:C	2.21	0.43
1:G:1658:PRO:O	1:G:1659:ASP:HB2	2.18	0.43
1:G:807:LYS:CD	1:G:807:LYS:C	2.85	0.43
1:G:824:LEU:HD13	1:G:846:LEU:HD22	1.99	0.43
1:A:1426:LEU:HD12	1:A:1427:THR:OG1	2.19	0.43
1:A:1613:ASN:CG	1:A:1614:VAL:H	2.22	0.43
1:A:1615:ASP:OD1	1:A:1617:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1625:LEU:CD2	1:A:1626:TYR:HD1	2.32	0.43
1:A:836:ASP:OD1	1:A:839:TYR:HB3	2.17	0.43
1:D:1063:HIS:CD2	1:D:1065:GLY:CA	2.99	0.43
1:D:1303:GLY:O	1:D:1304:ALA:O	2.37	0.43
1:D:1579:PHE:O	1:D:1580:LEU:CB	2.52	0.43
1:D:990:LEU:HD23	1:D:1685:TYR:CE2	2.54	0.43
1:D:1707:THR:HG23	1:D:1710:LEU:CG	2.49	0.43
1:D:796:LEU:C	1:D:800:LEU:HD23	2.39	0.43
1:D:796:LEU:CG	1:D:797:THR:N	2.82	0.43
1:D:858:TRP:CZ3	1:D:862:LEU:HB2	2.53	0.43
1:D:1008:GLU:O	1:D:1010:GLU:N	2.51	0.43
1:D:1459:ILE:CD1	1:D:1460:LYS:N	2.82	0.43
1:G:1447:TYR:CE2	1:G:1450:ARG:CG	3.00	0.43
1:G:1462:TRP:HE3	1:G:1463:VAL:N	2.16	0.43
2:B:248:HIS:O	2:B:249:TYR:C	2.57	0.43
2:E:1731:GLU:CA	2:E:1735:ALA:HB3	2.49	0.43
2:E:1778:GLN:O	2:E:1779:PRO:C	2.54	0.43
2:E:334:VAL:HA	2:E:335:PRO:HD2	1.88	0.43
2:B:1691:TRP:O	2:B:1694:ALA:N	2.52	0.43
2:H:1737:ILE:HG23	2:H:1755:ILE:CG2	2.49	0.43
2:H:1716:ASN:O	2:H:1765:ARG:HB2	2.17	0.43
2:H:1778:GLN:O	2:H:1779:PRO:C	2.54	0.43
1:G:1264:ARG:NH2	1:G:1270:VAL:HB	2.34	0.43
2:B:22:VAL:N	2:B:23:PRO:HD2	2.34	0.43
2:B:63:LYS:HB2	2:B:125:ASN:ND2	2.34	0.43
2:B:73:GLU:O	2:B:75:SER:N	2.48	0.43
1:G:784:ILE:O	1:G:785:ASP:O	2.37	0.43
1:G:1341:PHE:C	1:G:1343:PHE:N	2.72	0.43
2:B:2022:UNK:O	2:B:2024:UNK:N	2.50	0.43
2:E:1869:GLU:C	2:E:1871:LEU:H	2.22	0.43
2:B:1909:THR:HG23	2:B:1912:ASN:ND2	2.34	0.43
1:G:942:LYS:O	1:G:943:LEU:C	2.57	0.43
2:H:1854:MET:CE	2:H:1957:UNK:HA	2.49	0.43
1:D:942:LYS:O	1:D:943:LEU:C	2.56	0.43
2:E:1148:UNK:C	2:E:1149:UNK:O	2.67	0.43
1:D:893:VAL:O	1:D:893:VAL:HG12	2.18	0.43
2:E:1013:UNK:C	2:E:1015:UNK:N	2.80	0.43
1:A:378:UNK:C	1:A:380:UNK:N	2.75	0.43
2:H:801:UNK:C	2:H:803:UNK:N	2.78	0.43
2:H:27:PHE:HA	2:H:30:ALA:HB3	2.01	0.43
2:H:1585:UNK:O	2:H:1587:UNK:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:799:UNK:O	2:B:801:UNK:N	2.52	0.43
2:E:969:UNK:O	2:E:972:UNK:N	2.52	0.43
2:E:1343:UNK:O	2:E:1344:UNK:CB	2.66	0.43
2:H:211:GLN:O	2:H:212:GLY:C	2.56	0.43
2:E:737:UNK:O	2:E:738:UNK:C	2.66	0.43
1:G:404:UNK:O	1:G:407:UNK:N	2.52	0.43
2:E:2028:UNK:O	2:E:2029:UNK:O	2.37	0.43
2:E:1633:UNK:O	2:E:1634:UNK:CB	2.65	0.43
2:B:726:UNK:O	2:B:727:UNK:CB	2.66	0.43
2:B:88:LEU:HD21	2:B:130:ARG:HA	2.01	0.43
2:E:911:UNK:O	2:E:912:UNK:CB	2.67	0.43
1:A:1811:UNK:C	1:A:1813:UNK:N	2.80	0.43
1:D:602:UNK:O	1:D:603:UNK:O	2.36	0.43
1:G:1030:TRP:CZ2	1:G:1580:LEU:CD1	3.00	0.43
1:G:1195:ALA:O	1:G:1196:LYS:HB2	2.17	0.43
1:G:1213:LEU:HA	1:G:1213:LEU:HD22	1.73	0.43
1:G:1220:VAL:C	1:G:1222:ALA:N	2.72	0.43
1:G:1426:LEU:HD12	1:G:1427:THR:OG1	2.19	0.43
1:G:1308:SER:OG	1:G:1589:GLY:HA3	2.18	0.43
1:G:869:ILE:CG2	1:G:926:LEU:HB2	2.38	0.43
1:A:1062:TYR:HB2	1:A:1077:ASP:OD1	2.19	0.43
1:A:1075:TRP:O	1:A:1076:VAL:CG1	2.54	0.43
1:A:1080:THR:HG1	1:A:1083:PRO:CG	2.31	0.43
1:A:1232:TYR:HE1	1:A:1705:PRO:CD	2.28	0.43
1:A:1237:TYR:OH	1:A:1396:MET:HB2	2.18	0.43
1:A:1286:TRP:HA	1:A:1289:MET:HG3	2.00	0.43
1:A:1359:GLY:O	1:A:1360:ARG:C	2.57	0.43
1:A:1329:VAL:HG11	1:A:1385:GLN:HB2	2.00	0.43
1:A:1430:ARG:NH1	1:A:1652:GLN:HG3	2.34	0.43
1:A:1581:THR:O	1:A:1582:GLY:C	2.57	0.43
1:A:1615:ASP:CG	1:A:1617:ILE:HG12	2.38	0.43
1:A:1625:LEU:CD2	1:A:1626:TYR:CD1	3.02	0.43
1:A:695:GLY:C	1:A:697:LEU:N	2.71	0.43
1:A:776:GLU:HB3	1:A:779:ILE:HD11	2.00	0.43
1:A:826:MET:HB3	1:A:826:MET:HE2	1.90	0.43
1:D:1332:TYR:N	1:D:1587:ALA:CB	2.73	0.43
1:D:1354:GLU:O	1:D:1358:HIS:N	2.43	0.43
1:D:1525:ALA:C	1:D:1527:ALA:N	2.72	0.43
1:D:1625:LEU:CD2	1:D:1626:TYR:HD1	2.31	0.43
1:D:1430:ARG:HH12	1:D:1652:GLN:HG3	1.83	0.43
1:D:1714:VAL:HG13	1:D:1731:LEU:HD22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:691:GLU:O	1:D:692:VAL:C	2.57	0.43
1:D:840:SER:OG	1:D:841:GLU:OE1	2.35	0.43
1:D:1462:TRP:HE3	1:D:1463:VAL:N	2.16	0.43
2:H:131:ILE:CD1	2:H:182:VAL:CG1	2.97	0.43
2:H:252:THR:O	2:H:256:LEU:HB2	2.18	0.43
2:H:311:TYR:O	2:H:315:PRO:HB3	2.18	0.43
2:E:131:ILE:CD1	2:E:182:VAL:CG1	2.96	0.43
1:G:1466:GLU:O	1:G:1469:ALA:N	2.52	0.43
2:B:234:ILE:HD11	2:B:310:CYS:HB2	2.00	0.43
2:B:433:VAL:H	2:B:434:PRO:CD	2.19	0.43
2:B:554:UNK:O	2:B:555:UNK:C	2.66	0.43
1:G:1475:GLU:HG3	1:G:1762:UNK:CB	2.47	0.43
2:E:522:GLY:O	2:E:556:UNK:HA	2.19	0.43
2:B:1678:MET:O	2:B:1681:TYR:N	2.51	0.43
2:B:1696:ASN:C	2:B:1698:PHE:N	2.71	0.43
2:B:1812:TYR:C	2:B:1814:ALA:N	2.71	0.43
2:H:1706:ILE:HG22	2:H:1710:VAL:CG2	2.49	0.43
2:H:1833:TYR:C	2:H:1835:GLY:N	2.72	0.43
1:D:1341:PHE:C	1:D:1343:PHE:N	2.71	0.43
1:A:1184:LEU:HD12	1:A:1185:VAL:H	1.82	0.43
2:B:1903:ASP:OD1	2:B:1904:LEU:N	2.52	0.43
2:H:729:UNK:O	2:H:731:UNK:N	2.52	0.43
1:A:1665:ILE:O	1:A:1666:THR:CB	2.66	0.43
2:B:101:ILE:HG13	2:B:126:TYR:CG	2.54	0.43
2:H:836:UNK:CA	2:H:1028:UNK:HA	2.45	0.43
1:G:1793:UNK:C	1:G:1795:UNK:N	2.79	0.43
2:B:998:UNK:O	2:B:999:UNK:C	2.65	0.43
1:D:914:VAL:O	1:D:915:GLU:C	2.57	0.43
2:H:1584:UNK:O	2:H:1586:UNK:N	2.52	0.43
2:B:597:UNK:C	2:B:599:UNK:N	2.82	0.43
1:G:1780:UNK:C	1:G:1782:UNK:N	2.79	0.43
2:E:799:UNK:O	2:E:802:UNK:N	2.51	0.43
2:B:1614:UNK:CB	2:B:1649:UNK:O	2.66	0.43
2:H:2006:UNK:HA	2:H:2009:UNK:O	2.19	0.43
2:B:1799:PRO:O	2:B:1800:ALA:C	2.57	0.43
1:D:890:LYS:C	1:D:892:GLY:N	2.72	0.43
1:G:557:UNK:O	1:G:559:UNK:N	2.51	0.43
2:B:230:TYR:C	2:B:232:LEU:H	2.19	0.43
2:H:737:UNK:O	2:H:738:UNK:C	2.67	0.43
1:D:1438:TYR:CD1	1:D:1439:ALA:N	2.86	0.43
1:G:625:UNK:O	1:G:628:UNK:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:819:UNK:O	2:E:820:UNK:C	2.67	0.43
1:G:613:UNK:O	1:G:614:UNK:O	2.37	0.43
1:D:1158:PRO:O	1:D:1159:GLU:HB2	2.18	0.43
1:G:1190:PRO:HG3	1:G:1379:ALA:HA	2.00	0.43
1:G:1558:ASN:OD1	1:G:1621:PHE:CD2	2.71	0.43
1:G:1637:ARG:HB3	1:G:1638:ALA:H	1.58	0.43
1:G:695:GLY:C	1:G:697:LEU:N	2.72	0.43
1:G:996:LYS:NZ	1:G:1400:ILE:CG1	2.82	0.43
1:A:1103:ILE:HB	1:A:1104:ARG:H	1.55	0.43
1:A:1232:TYR:O	1:A:1235:TYR:HD2	2.02	0.43
1:A:1433:HIS:HD2	1:A:1519:ILE:HG12	1.83	0.43
1:A:1522:LEU:C	1:A:1524:GLY:N	2.71	0.43
1:A:819:PRO:HA	1:A:861:GLN:HA	2.00	0.43
1:A:834:GLY:O	1:A:836:ASP:N	2.52	0.43
1:A:997:PRO:O	1:A:1002:LYS:HE3	2.19	0.43
1:D:1110:LEU:HG	1:D:1189:ILE:H	1.84	0.43
1:D:1312:VAL:O	1:D:1313:ASP:C	2.57	0.43
1:D:1425:ILE:O	1:D:1426:LEU:CD2	2.64	0.43
1:D:1431:GLU:O	1:D:1432:HIS:O	2.37	0.43
1:D:1550:ASP:O	1:D:1551:LYS:O	2.37	0.43
1:D:1609:ARG:NE	1:D:1610:ASN:N	2.63	0.43
1:D:1625:LEU:CD2	1:D:1626:TYR:CD1	3.01	0.43
1:D:871:TRP:HH2	1:D:881:ASN:O	2.01	0.43
1:D:1447:TYR:CE2	1:D:1450:ARG:CG	3.01	0.43
1:A:1447:TYR:O	1:A:1448:ARG:HB3	2.18	0.43
1:A:1459:ILE:CD1	1:A:1460:LYS:N	2.81	0.43
2:H:250:VAL:O	2:H:253:ALA:N	2.52	0.43
2:H:258:PHE:HB3	2:H:259:THR:H	1.58	0.43
2:H:354:ASN:O	2:H:356:THR:N	2.51	0.43
2:H:355:LYS:O	2:H:358:SER:HB2	2.19	0.43
2:H:474:SER:O	2:H:475:ILE:CB	2.67	0.43
2:H:474:SER:C	2:H:476:SER:H	2.22	0.43
2:E:159:ILE:HD12	2:E:501:ILE:CG2	2.49	0.43
2:B:242:GLY:O	2:B:243:VAL:C	2.56	0.43
2:B:258:PHE:HB3	2:B:259:THR:H	1.57	0.43
2:B:369:SER:O	2:B:370:LEU:HD23	2.19	0.43
2:B:335:PRO:HA	2:B:420:PHE:HE2	1.81	0.43
1:G:1475:GLU:HA	1:G:1475:GLU:OE1	2.19	0.43
2:E:369:SER:O	2:E:370:LEU:HD23	2.19	0.43
2:B:1719:ILE:HG22	2:B:1721:PHE:CD1	2.54	0.43
2:H:1722:GLY:O	2:H:1723:GLY:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:52:ASP:HB2	2:H:113:ASP:OD1	2.19	0.43
1:G:1264:ARG:NH2	1:G:1270:VAL:O	2.51	0.43
2:B:9:LEU:CD1	2:B:58:ALA:HB2	2.48	0.43
2:E:52:ASP:HB2	2:E:113:ASP:OD2	2.18	0.43
1:G:1342:GLU:C	1:G:1343:PHE:O	2.53	0.43
2:B:1933:LEU:HA	2:B:1936:VAL:CG1	2.48	0.43
2:H:1867:SER:O	2:H:1868:GLN:C	2.57	0.43
1:G:670:UNK:C	1:G:671:VAL:HG23	2.49	0.43
2:H:1900:ALA:C	2:H:1902:GLY:N	2.72	0.43
1:G:909:LEU:HG	1:G:909:LEU:O	2.19	0.43
2:E:91:PHE:HZ	2:E:101:ILE:HD11	1.82	0.43
1:G:1487:LEU:C	1:G:1490:THR:HG22	2.38	0.43
2:H:1148:UNK:C	2:H:1149:UNK:O	2.66	0.43
2:B:1854:MET:HA	2:B:1895:ASN:HD22	1.84	0.43
2:H:996:UNK:O	2:H:998:UNK:N	2.51	0.43
2:H:2033:UNK:O	2:H:2034:UNK:C	2.67	0.43
1:G:774:ILE:HA	1:G:774:ILE:HD13	1.93	0.43
1:G:776:GLU:HB3	1:G:779:ILE:HD11	2.00	0.43
2:B:1929:LYS:HE2	2:B:1929:LYS:HA	2.01	0.43
1:G:893:VAL:C	1:G:895:THR:N	2.70	0.43
2:B:1343:UNK:O	2:B:1344:UNK:CB	2.67	0.43
1:A:398:UNK:O	1:A:401:UNK:N	2.52	0.43
1:D:455:UNK:O	1:D:456:UNK:C	2.66	0.43
1:A:451:UNK:O	1:A:452:UNK:C	2.66	0.43
2:B:707:UNK:O	2:B:710:UNK:CB	2.67	0.43
2:E:577:UNK:O	2:E:579:UNK:N	2.52	0.43
2:B:969:UNK:O	2:B:972:UNK:N	2.52	0.43
2:H:1280:UNK:O	2:H:1282:UNK:N	2.52	0.43
3:F:29:UNK:O	3:F:32:UNK:N	2.52	0.43
2:E:1067:UNK:O	2:E:1069:UNK:N	2.52	0.43
2:H:932:UNK:C	2:H:934:UNK:N	2.82	0.43
2:E:606:UNK:O	2:E:607:UNK:CB	2.67	0.43
1:A:936:LEU:O	1:A:936:LEU:HD23	2.18	0.43
2:B:233:SER:HA	2:B:424:ALA:CB	2.49	0.43
1:A:613:UNK:O	1:A:614:UNK:O	2.37	0.43
3:F:38:UNK:C	3:F:40:UNK:N	2.79	0.43
1:A:261:UNK:C	1:A:263:UNK:N	2.80	0.43
1:A:1139:GLU:OE2	1:A:1166:LYS:O	2.36	0.43
1:D:1144:PHE:HD1	1:D:1144:PHE:H	1.65	0.43
1:G:1089:VAL:O	1:G:1090:LYS:C	2.57	0.43
1:G:1290:LEU:HA	1:G:1701:LYS:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1303:GLY:O	1:G:1304:ALA:O	2.37	0.43
1:G:1332:TYR:HA	1:G:1382:ALA:HA	2.01	0.43
1:G:1519:ILE:HG12	1:G:1521:PRO:CD	2.49	0.43
1:G:1550:ASP:O	1:G:1551:LYS:C	2.57	0.43
1:G:1562:LYS:O	1:G:1564:LEU:N	2.52	0.43
1:G:1625:LEU:CD2	1:G:1626:TYR:CD1	3.02	0.43
1:G:1002:LYS:CE	1:G:1670:TYR:OH	2.67	0.43
1:G:694:GLN:HB3	1:G:725:TYR:CE2	2.54	0.43
1:G:826:MET:CE	1:G:847:GLU:HG3	2.46	0.43
1:A:1028:GLY:O	1:A:1030:TRP:N	2.51	0.43
1:A:1352:THR:C	1:A:1353:LEU:O	2.56	0.43
1:A:1371:THR:C	1:A:1373:ARG:N	2.71	0.43
1:A:1606:PRO:O	1:A:1626:TYR:C	2.56	0.43
1:A:687:SER:O	1:A:689:GLY:N	2.52	0.43
1:A:796:LEU:O	1:A:799:ILE:HG13	2.19	0.43
1:D:1022:THR:O	1:D:1226:SER:HB2	2.18	0.43
1:D:1289:MET:C	1:D:1290:LEU:HD12	2.39	0.43
1:D:1554:SER:O	1:D:1555:ALA:HB2	2.18	0.43
1:D:1013:LEU:CD2	1:D:1013:LEU:C	2.85	0.43
1:D:1447:TYR:O	1:D:1448:ARG:HB3	2.18	0.43
1:D:1449:LYS:C	1:D:1451:GLN:N	2.70	0.43
2:H:267:LEU:HD23	2:H:457:ILE:HD13	2.01	0.43
2:E:252:THR:O	2:E:256:LEU:HB2	2.18	0.43
2:E:259:THR:H	2:E:262:GLU:HB2	1.83	0.43
2:B:149:VAL:HG22	2:B:155:GLN:HA	2.00	0.43
2:B:209:PHE:N	2:B:209:PHE:CD1	2.87	0.43
2:B:209:PHE:CE1	2:B:235:PRO:HB2	2.54	0.43
2:B:433:VAL:HA	2:B:436:SER:HB3	2.01	0.43
2:B:543:PHE:C	2:B:545:GLN:H	2.22	0.43
2:E:1737:ILE:HG23	2:E:1755:ILE:CG2	2.48	0.43
2:E:1738:PHE:HB2	2:E:1755:ILE:HG21	2.01	0.43
2:E:1814:ALA:HA	2:E:1817:SER:OG	2.19	0.43
2:E:427:PHE:O	2:E:428:HIS:C	2.56	0.43
2:E:517:HIS:C	2:E:517:HIS:CD2	2.92	0.43
2:B:1691:TRP:CE3	2:B:1783:LEU:HD13	2.53	0.43
2:B:1718:THR:HG23	2:B:1765:ARG:CB	2.49	0.43
2:H:1828:VAL:O	2:H:1829:GLU:C	2.57	0.43
2:E:59:GLU:HB3	2:E:125:ASN:ND2	2.34	0.43
2:E:404:GLN:C	2:E:406:ARG:N	2.71	0.43
2:H:408:PRO:CG	2:H:409:PHE:N	2.80	0.43
2:H:1869:GLU:C	2:H:1871:LEU:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1871:LEU:C	2:H:1873:TYR:N	2.71	0.43
1:G:669:UNK:O	1:G:670:UNK:O	2.35	0.43
2:E:1900:ALA:C	2:E:1902:GLY:N	2.72	0.43
2:B:135:ARG:O	2:B:136:PRO:C	2.57	0.43
2:E:962:UNK:C	2:E:964:UNK:N	2.81	0.43
2:H:1020:UNK:O	2:H:1022:UNK:N	2.32	0.43
1:G:491:UNK:O	1:G:492:UNK:C	2.66	0.43
1:G:994:GLU:O	1:G:995:LEU:O	2.36	0.43
2:H:653:UNK:O	2:H:657:UNK:N	2.52	0.43
2:B:772:UNK:CB	2:B:777:UNK:O	2.67	0.43
2:B:742:UNK:O	2:B:743:UNK:C	2.67	0.43
1:A:1572:VAL:O	1:A:1572:VAL:HG23	2.18	0.43
2:E:470:VAL:HG12	2:E:470:VAL:O	2.18	0.43
1:A:1262:LYS:HB3	1:A:1262:LYS:NZ	2.34	0.43
2:B:2000:UNK:O	2:B:2002:UNK:N	2.51	0.43
2:H:1451:UNK:O	2:H:1452:UNK:O	2.37	0.43
2:H:1318:UNK:CB	2:H:1366:UNK:O	2.67	0.43
2:B:1451:UNK:O	2:B:1452:UNK:O	2.37	0.43
1:A:1144:PHE:H	1:A:1144:PHE:HD1	1.66	0.43
1:G:1424:GLY:C	1:G:1426:LEU:N	2.69	0.43
1:G:1562:LYS:C	1:G:1564:LEU:N	2.71	0.43
1:G:1583:HIS:HE2	1:G:1588:ALA:HA	1.83	0.43
1:G:689:GLY:HA2	1:G:692:VAL:CB	2.48	0.43
1:G:826:MET:CA	1:G:826:MET:HE3	2.49	0.43
1:A:1094:GLU:HG3	1:A:1095:THR:H	1.83	0.43
1:A:1017:ARG:CZ	1:A:1320:LEU:HD13	2.49	0.43
1:A:1329:VAL:CG1	1:A:1330:GLY:H	2.14	0.43
1:A:1425:ILE:HG21	1:A:1648:GLN:OE1	2.19	0.43
1:A:1433:HIS:HE1	1:A:1518:ARG:HH21	1.66	0.43
1:A:1625:LEU:HD11	1:A:1626:TYR:CD1	2.53	0.43
1:A:1641:ILE:HG12	1:A:1652:GLN:NE2	2.34	0.43
1:D:1038:GLU:OE2	1:D:1049:GLY:HA3	2.18	0.43
1:D:1189:ILE:CB	1:D:1190:PRO:HD3	2.49	0.43
1:D:1236:LYS:O	1:D:1236:LYS:CG	2.57	0.43
1:D:1553:GLU:HB2	1:D:1644:PHE:CE2	2.49	0.43
1:D:695:GLY:C	1:D:697:LEU:N	2.72	0.43
1:D:860:ASN:HB2	1:D:861:GLN:NE2	2.34	0.43
1:A:1009:LEU:HD22	1:A:1446:LYS:HG3	2.01	0.43
1:A:1462:TRP:HE3	1:A:1463:VAL:N	2.17	0.43
1:A:1502:ARG:O	1:A:1504:ALA:N	2.52	0.43
2:H:281:VAL:O	2:H:283:ILE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:479:ILE:HG22	2:H:479:ILE:O	2.19	0.43
2:H:248:HIS:CB	2:H:529:VAL:HG11	2.49	0.43
2:E:215:ILE:O	2:E:215:ILE:HG22	2.17	0.43
2:E:267:LEU:HD23	2:E:457:ILE:HD13	2.01	0.43
2:E:543:PHE:C	2:E:545:GLN:H	2.22	0.43
2:B:432:LEU:HD21	2:B:484:ILE:HG22	2.01	0.43
2:E:1724:GLU:O	2:E:1729:ILE:CB	2.67	0.43
2:E:1812:TYR:O	2:E:1814:ALA:N	2.43	0.43
1:A:1475:GLU:HA	1:A:1475:GLU:OE1	2.19	0.43
2:B:1742:VAL:CG2	2:B:1837:THR:HA	2.49	0.43
2:B:1737:ILE:HD12	2:B:1755:ILE:HG21	1.99	0.43
2:H:1680:LEU:CD2	2:H:1680:LEU:C	2.88	0.43
2:H:174:ARG:HA	2:H:219:LEU:HD22	2.01	0.43
1:D:1719:LEU:CB	1:D:1737:ASN:OD1	2.67	0.43
1:D:998:TYR:O	1:D:1001:VAL:HB	2.19	0.43
2:H:1929:LYS:HA	2:H:1929:LYS:HE2	2.01	0.43
1:A:727:ALA:O	1:A:728:LYS:C	2.56	0.43
2:H:101:ILE:HG13	2:H:126:TYR:CG	2.54	0.43
1:A:1491:ARG:HG2	1:A:1491:ARG:HH11	1.83	0.43
1:A:1493:ILE:HG13	1:A:1494:HIS:N	2.34	0.43
1:G:893:VAL:O	1:G:893:VAL:HG12	2.19	0.43
1:G:930:LEU:O	1:G:932:PHE:N	2.51	0.43
2:H:1012:UNK:O	2:H:1015:UNK:CB	2.66	0.43
2:E:1020:UNK:O	2:E:1022:UNK:N	2.36	0.43
1:G:836:ASP:OD1	1:G:839:TYR:HB3	2.19	0.43
2:B:1650:UNK:O	2:B:1652:UNK:N	2.52	0.43
1:A:1284:SER:HB2	1:A:1298:ILE:HD11	2.00	0.43
2:E:1235:UNK:O	2:E:1236:UNK:CB	2.67	0.43
2:B:1357:UNK:CB	2:B:1406:UNK:N	2.81	0.43
1:G:1811:UNK:C	1:G:1813:UNK:N	2.81	0.43
1:G:1151:LYS:N	1:G:1151:LYS:HD2	2.33	0.42
1:G:1329:VAL:HG13	1:G:1384:ILE:HD12	2.01	0.42
1:G:1597:LEU:HD23	1:G:1597:LEU:N	2.34	0.42
1:G:1625:LEU:CD2	1:G:1626:TYR:HD1	2.32	0.42
1:G:1673:TYR:CZ	1:G:1677:VAL:HG21	2.54	0.42
1:G:1700:SER:CB	1:G:1702:GLU:OE2	2.67	0.42
1:A:796:LEU:CG	1:A:797:THR:N	2.80	0.42
1:A:826:MET:HG3	1:A:867:ALA:N	2.34	0.42
1:A:861:GLN:C	1:A:862:LEU:HD23	2.40	0.42
1:D:1030:TRP:CD1	1:D:1030:TRP:N	2.87	0.42
1:D:1196:LYS:HZ2	1:D:1196:LYS:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1286:TRP:HA	1:D:1289:MET:HG3	2.00	0.42
1:D:1408:ALA:O	1:D:1409:THR:CG2	2.57	0.42
1:D:1706:TYR:HD1	1:D:1706:TYR:N	2.13	0.42
1:D:996:LYS:NZ	1:D:1400:ILE:CG1	2.82	0.42
2:H:298:LYS:O	2:H:299:ALA:C	2.57	0.42
2:H:473:GLY:C	2:H:475:ILE:H	2.22	0.42
2:E:310:CYS:SG	2:E:484:ILE:HG21	2.59	0.42
2:E:499:THR:O	2:E:500:HIS:ND1	2.52	0.42
2:B:157:VAL:HG12	2:B:158:ALA:N	2.34	0.42
2:B:145:LEU:HD22	2:B:550:UNK:O	2.19	0.42
2:E:1719:ILE:HG22	2:E:1721:PHE:CD1	2.54	0.42
2:E:1722:GLY:O	2:E:1723:GLY:C	2.57	0.42
2:E:1826:SER:O	2:E:1827:LEU:C	2.55	0.42
1:A:1471:LYS:CA	1:A:1474:ALA:HB2	2.47	0.42
2:E:344:LEU:CD1	2:E:345:THR:H	2.22	0.42
2:E:515:LEU:O	2:E:518:ARG:HB2	2.18	0.42
2:E:517:HIS:CE1	2:E:538:ASP:OD1	2.72	0.42
2:B:1692:ASN:O	2:B:1696:ASN:CB	2.66	0.42
2:E:729:UNK:O	2:E:731:UNK:N	2.52	0.42
3:C:2:UNK:C	3:C:4:UNK:N	2.82	0.42
2:E:1903:ASP:O	2:E:1904:LEU:C	2.57	0.42
2:H:1927:LEU:HA	2:H:1927:LEU:HD23	1.89	0.42
2:H:1932:SER:O	2:H:1936:VAL:HG12	2.19	0.42
2:H:2049:UNK:O	2:H:2051:UNK:N	2.51	0.42
2:H:221:ASN:C	2:H:223:SER:H	2.21	0.42
1:A:673:PHE:O	1:A:674:LYS:O	2.37	0.42
1:D:644:UNK:CB	1:D:647:UNK:C	2.96	0.42
2:E:616:UNK:C	2:E:618:UNK:H	2.23	0.42
2:B:1332:UNK:O	2:B:1334:UNK:N	2.52	0.42
2:B:27:PHE:HA	2:B:30:ALA:HB3	2.01	0.42
2:B:1983:UNK:O	2:B:1985:UNK:N	2.52	0.42
2:E:557:UNK:O	2:E:777:UNK:CB	2.66	0.42
1:A:886:GLU:C	1:A:888:ILE:H	2.23	0.42
1:A:561:UNK:O	1:A:562:UNK:C	2.67	0.42
1:G:622:UNK:C	1:G:624:UNK:N	2.78	0.42
2:B:1360:UNK:O	2:B:1362:UNK:N	2.52	0.42
1:A:1515:ARG:NH1	1:A:1515:ARG:HG2	2.34	0.42
1:G:1072:TYR:CD1	1:G:1072:TYR:N	2.87	0.42
2:B:1213:UNK:O	2:B:1214:UNK:O	2.37	0.42
2:E:726:UNK:O	2:E:727:UNK:CB	2.66	0.42
2:E:1451:UNK:O	2:E:1452:UNK:O	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1462:UNK:C	2:E:1464:UNK:N	2.81	0.42
2:B:824:UNK:HA	2:B:837:UNK:CB	2.49	0.42
1:G:1398:VAL:HG22	1:G:1399:PRO:N	2.34	0.42
1:G:1403:ILE:CG2	1:G:1657:HIS:O	2.67	0.42
1:G:695:GLY:O	1:G:696:LEU:C	2.57	0.42
1:A:1094:GLU:OE2	1:A:1094:GLU:HA	2.19	0.42
1:A:1234:MET:O	1:A:1239:HIS:CD2	2.58	0.42
1:A:1286:TRP:HD1	1:A:1290:LEU:HD11	1.83	0.42
1:A:1290:LEU:HG	1:A:1701:LYS:HZ3	1.84	0.42
1:A:1547:LYS:HG2	1:A:1547:LYS:O	2.18	0.42
1:A:1618:LEU:O	1:A:1619:GLU:HB2	2.19	0.42
1:A:1408:ALA:CB	1:A:1651:GLY:C	2.81	0.42
1:A:677:TYR:C	1:A:678:VAL:HG23	2.39	0.42
1:A:788:SER:O	1:A:791:ALA:HB3	2.19	0.42
1:D:1033:ALA:O	1:D:1034:ARG:C	2.58	0.42
1:D:1073:THR:CG2	1:D:1074:GLY:H	2.31	0.42
1:D:1210:PRO:HB2	1:D:1211:ILE:H	1.55	0.42
1:D:1211:ILE:O	1:D:1212:THR:C	2.58	0.42
1:D:1326:ILE:O	1:D:1326:ILE:HG22	2.19	0.42
1:D:1246:CYS:H	1:D:1328:ILE:CG2	2.31	0.42
1:D:438:UNK:CB	1:D:1358:HIS:HD2	2.33	0.42
1:D:1608:ASN:O	1:D:1610:ASN:ND2	2.51	0.42
1:D:1641:ILE:O	1:D:1642:THR:HB	2.19	0.42
1:D:1015:LEU:CD2	1:D:1016:GLU:H	2.32	0.42
2:E:311:TYR:O	2:E:315:PRO:HB3	2.19	0.42
1:G:1447:TYR:O	1:G:1448:ARG:HB3	2.19	0.42
2:B:187:LEU:O	2:B:191:SER:OG	2.31	0.42
2:B:252:THR:O	2:B:256:LEU:HB2	2.19	0.42
2:B:246:LEU:CD1	2:B:296:VAL:HG13	2.47	0.42
2:B:499:THR:O	2:B:500:HIS:ND1	2.51	0.42
1:G:1485:PHE:C	1:G:1485:PHE:CD2	2.92	0.42
2:B:1692:ASN:O	2:B:1696:ASN:N	2.43	0.42
2:B:1730:ARG:C	2:B:1732:ASN:H	2.21	0.42
2:B:1833:TYR:C	2:B:1835:GLY:N	2.72	0.42
2:H:1830:VAL:HA	2:H:1833:TYR:HB2	2.00	0.42
1:G:810:LYS:O	1:G:811:SER:C	2.57	0.42
2:E:1857:ILE:HG22	2:E:1858:ASN:N	2.34	0.42
2:E:1871:LEU:C	2:E:1873:TYR:N	2.71	0.42
2:H:1855:ILE:HB	2:H:1950:UNK:O	2.18	0.42
2:E:1909:THR:HG23	2:E:1912:ASN:ND2	2.34	0.42
2:B:1042:UNK:C	2:B:1044:UNK:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:940:THR:HA	1:G:943:LEU:HD12	2.00	0.42
1:G:491:UNK:C	1:G:493:UNK:N	2.80	0.42
1:A:948:VAL:HG12	1:A:949:GLU:N	2.34	0.42
2:B:1968:UNK:C	2:B:1970:UNK:N	2.82	0.42
1:D:1284:SER:HB3	1:D:1298:ILE:HD11	2.01	0.42
1:A:279:UNK:C	1:A:281:UNK:N	2.81	0.42
1:A:1072:TYR:N	1:A:1072:TYR:CD1	2.87	0.42
1:G:177:UNK:O	1:G:178:UNK:C	2.66	0.42
1:G:1150:ASP:HB3	1:G:1151:LYS:H	1.69	0.42
1:G:1173:LEU:O	1:G:1174:TYR:O	2.36	0.42
1:D:1141:ALA:CA	1:D:1144:PHE:CE1	2.98	0.42
1:G:1211:ILE:HG13	1:G:1283:MET:SD	2.59	0.42
1:G:1211:ILE:O	1:G:1214:PHE:N	2.52	0.42
1:G:1351:ASN:O	1:G:1352:THR:C	2.56	0.42
1:G:1625:LEU:HD11	1:G:1626:TYR:CD1	2.55	0.42
1:A:1067:LEU:C	1:A:1069:GLY:N	2.72	0.42
1:A:1283:MET:HE1	1:A:1283:MET:H	1.84	0.42
1:A:1243:VAL:CG1	1:A:1325:ARG:H	2.25	0.42
1:A:1329:VAL:HB	1:A:1385:GLN:O	2.19	0.42
1:A:1376:PHE:CG	1:A:1377:MET:N	2.84	0.42
1:A:1366:SER:O	1:A:1579:PHE:CD1	2.73	0.42
1:A:1573:ILE:HG23	1:A:1624:VAL:HG11	2.00	0.42
1:A:689:GLY:HA2	1:A:692:VAL:CB	2.48	0.42
1:A:719:GLN:HG3	1:A:720:SER:H	1.82	0.42
1:A:779:ILE:HD12	1:A:837:GLY:HA3	2.00	0.42
1:A:843:LYS:O	1:A:846:LEU:N	2.52	0.42
1:D:1391:ASP:O	1:D:1393:ALA:N	2.51	0.42
1:D:1616:LYS:C	1:D:1618:LEU:N	2.71	0.42
1:D:1692:MET:O	1:D:1692:MET:HG2	2.19	0.42
1:D:743:GLN:O	1:D:745:VAL:N	2.52	0.42
1:D:992:PHE:HA	1:D:993:PRO:HB2	2.01	0.42
2:H:554:UNK:O	2:H:555:UNK:C	2.67	0.42
2:E:478:ARG:O	2:E:480:VAL:N	2.51	0.42
1:G:1460:LYS:HD3	1:G:1778:UNK:CB	2.48	0.42
2:B:261:GLY:HA2	2:B:264:ARG:CG	2.49	0.42
2:B:262:GLU:O	2:B:265:SER:HB3	2.19	0.42
2:B:265:SER:OG	2:B:266:TYR:N	2.51	0.42
2:B:439:ILE:HG13	2:B:440:ASN:N	2.33	0.42
1:G:1471:LYS:CA	1:G:1474:ALA:HB2	2.48	0.42
2:E:1778:GLN:NE2	2:E:1835:GLY:HA2	2.34	0.42
2:E:335:PRO:HA	2:E:420:PHE:HE2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1738:PHE:HB2	2:H:1755:ILE:HG21	2.00	0.42
2:H:1742:VAL:CG2	2:H:1837:THR:HA	2.50	0.42
1:D:1265:PHE:O	1:D:1265:PHE:CG	2.72	0.42
1:G:796:LEU:CG	1:G:797:THR:N	2.82	0.42
1:G:840:SER:OG	1:G:841:GLU:OE1	2.37	0.42
2:E:408:PRO:CG	2:E:409:PHE:N	2.82	0.42
2:E:1856:ALA:O	2:E:1857:ILE:HG12	2.19	0.42
2:B:1897:GLN:O	2:B:1899:VAL:N	2.53	0.42
2:E:1877:ARG:O	2:E:1878:VAL:HG13	2.19	0.42
2:H:1931:LEU:O	2:H:1934:GLU:HB3	2.19	0.42
2:E:373:GLY:HA2	2:E:519:ASN:CG	2.38	0.42
2:B:1559:UNK:HA	2:B:1564:UNK:CB	2.49	0.42
1:G:1782:UNK:C	1:G:1784:UNK:N	2.74	0.42
1:D:451:UNK:C	1:D:453:UNK:N	2.82	0.42
2:B:211:GLN:O	2:B:212:GLY:C	2.56	0.42
1:D:625:UNK:HA	1:D:628:UNK:CB	2.50	0.42
2:E:591:UNK:O	2:E:592:UNK:CB	2.66	0.42
1:G:1133:PRO:HB2	1:G:1134:PHE:H	1.59	0.42
1:G:1040:GLU:O	1:G:1606:PRO:HG3	2.19	0.42
1:G:1108:PRO:CB	1:G:1362:PRO:HB2	2.49	0.42
1:G:1522:LEU:HD12	1:G:1522:LEU:N	2.34	0.42
1:G:1547:LYS:HE3	1:G:1615:ASP:CB	2.49	0.42
1:G:1583:HIS:NE2	1:G:1588:ALA:HA	2.34	0.42
1:G:1604:ILE:CD1	1:G:1630:THR:HB	2.34	0.42
1:G:1641:ILE:H	1:G:1641:ILE:CD1	2.02	0.42
1:G:1640:SER:N	1:G:1654:ILE:HG13	2.35	0.42
1:G:1394:LEU:HA	1:G:1673:TYR:CE1	2.54	0.42
1:G:724:LYS:HD3	1:G:725:TYR:HE1	1.84	0.42
1:G:826:MET:HB2	1:G:868:ILE:HG12	2.00	0.42
1:G:871:TRP:HH2	1:G:881:ASN:O	2.02	0.42
1:G:992:PHE:HA	1:G:993:PRO:HB2	2.00	0.42
1:A:1412:ASP:O	1:A:1425:ILE:HG23	2.19	0.42
1:A:1423:LYS:CG	1:A:1424:GLY:H	2.27	0.42
1:A:1431:GLU:HG2	1:A:1522:LEU:HD13	2.01	0.42
1:A:1673:TYR:CZ	1:A:1677:VAL:HG21	2.55	0.42
1:A:796:LEU:C	1:A:800:LEU:HD23	2.40	0.42
1:A:996:LYS:NZ	1:A:1400:ILE:CG1	2.83	0.42
1:D:1083:PRO:CG	1:D:1084:VAL:N	2.83	0.42
1:D:1641:ILE:HG12	1:D:1642:THR:H	1.84	0.42
1:D:1661:LEU:O	1:D:1662:TYR:CG	2.72	0.42
1:A:1010:GLU:OE1	1:A:1013:LEU:CD1	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:149:VAL:HG22	2:H:155:GLN:CA	2.49	0.42
2:H:267:LEU:HD12	2:H:268:LYS:N	2.34	0.42
2:H:310:CYS:SG	2:H:484:ILE:HG21	2.59	0.42
2:E:131:ILE:HG21	2:E:182:VAL:HG22	2.01	0.42
2:E:98:GLY:C	2:E:100:ASP:N	2.72	0.42
1:D:1471:LYS:CA	1:D:1474:ALA:HB2	2.48	0.42
2:E:1684:SER:C	2:E:1686:ALA:N	2.72	0.42
2:B:1731:GLU:CA	2:B:1735:ALA:HB3	2.49	0.42
2:H:31:SER:O	2:H:34:GLN:N	2.52	0.42
1:A:669:UNK:O	1:A:670:UNK:O	2.38	0.42
2:B:1855:ILE:HB	2:B:1950:UNK:O	2.20	0.42
2:E:88:LEU:HD21	2:E:130:ARG:HA	2.00	0.42
1:D:1665:ILE:O	1:D:1666:THR:CB	2.67	0.42
1:G:700:GLY:CA	1:G:727:ALA:HB3	2.39	0.42
1:G:673:PHE:O	1:G:674:LYS:O	2.37	0.42
1:G:1497:ALA:O	1:G:1499:SER:N	2.52	0.42
1:A:884:ILE:HB	1:A:885:ALA:H	1.69	0.42
2:H:1042:UNK:C	2:H:1044:UNK:N	2.82	0.42
2:H:1146:UNK:O	2:H:1147:UNK:C	2.67	0.42
1:A:491:UNK:O	1:A:492:UNK:C	2.67	0.42
2:H:838:UNK:CB	2:H:841:UNK:CB	2.98	0.42
2:E:801:UNK:C	2:E:803:UNK:N	2.79	0.42
2:E:948:UNK:O	2:E:949:UNK:C	2.67	0.42
2:E:1968:UNK:C	2:E:1970:UNK:N	2.82	0.42
2:B:557:UNK:O	2:B:777:UNK:CB	2.67	0.42
2:B:775:UNK:C	2:B:776:UNK:O	2.68	0.42
1:D:563:UNK:O	1:D:564:UNK:C	2.67	0.42
2:B:1549:UNK:O	2:B:1550:UNK:O	2.36	0.42
1:G:886:GLU:C	1:G:888:ILE:H	2.22	0.42
2:H:1522:UNK:C	2:H:1524:UNK:N	2.82	0.42
3:C:29:UNK:O	3:C:32:UNK:N	2.53	0.42
1:A:1631:LEU:HB3	1:A:1634:ASP:HB2	2.00	0.42
1:A:813:ARG:HG3	1:A:813:ARG:HH11	1.83	0.42
2:B:1030:UNK:O	2:B:1031:UNK:CB	2.66	0.42
2:H:1323:UNK:O	2:H:1327:UNK:N	2.52	0.42
2:B:1323:UNK:O	2:B:1327:UNK:N	2.52	0.42
2:B:819:UNK:O	2:B:820:UNK:C	2.67	0.42
1:A:298:UNK:O	1:A:299:UNK:C	2.67	0.42
1:G:1128:GLU:CB	1:G:1177:LYS:HG2	2.49	0.42
1:G:1039:MET:CA	1:G:1039:MET:HE3	2.48	0.42
1:G:1047:LEU:O	1:G:1049:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1079:LYS:HE3	1:G:1097:ILE:HG12	2.01	0.42
1:G:1241:SER:O	1:G:1243:VAL:N	2.38	0.42
1:G:1328:ILE:O	1:G:1385:GLN:O	2.38	0.42
1:G:1547:LYS:O	1:G:1547:LYS:HG2	2.19	0.42
1:G:1378:GLU:HB3	1:G:1585:LYS:HD2	1.97	0.42
1:G:904:ASN:H	1:G:904:ASN:HD22	1.64	0.42
1:A:1060:ILE:HG22	1:A:1079:LYS:CB	2.33	0.42
1:A:1099:GLU:C	1:A:1102:GLY:H	2.14	0.42
1:A:1110:LEU:HG	1:A:1189:ILE:H	1.83	0.42
1:A:1302:VAL:CG2	1:A:1303:GLY:H	2.19	0.42
1:A:1023:GLY:N	1:A:1386:ILE:HG13	2.35	0.42
1:A:1621:PHE:O	1:A:1622:GLU:O	2.36	0.42
1:A:1641:ILE:CD1	1:A:1653:ALA:O	2.68	0.42
1:A:610:UNK:O	1:A:611:UNK:O	2.37	0.42
1:A:717:TYR:CD2	1:A:718:TYR:CE1	3.01	0.42
1:A:698:GLN:HA	1:A:725:TYR:O	2.19	0.42
1:A:867:ALA:HB1	1:A:905:LEU:CD1	2.49	0.42
1:A:904:ASN:H	1:A:904:ASN:HD22	1.67	0.42
1:D:1036:ARG:HE	1:D:1036:ARG:C	2.21	0.42
1:D:1039:MET:CE	1:D:1039:MET:HA	2.48	0.42
1:D:1604:ILE:HG22	1:D:1605:ILE:HG12	2.01	0.42
1:D:1406:MET:HB3	1:D:1654:ILE:HG22	2.02	0.42
1:D:719:GLN:OE1	1:D:1611:ALA:HB1	2.19	0.42
1:D:795:MET:HE3	1:D:839:TYR:HA	2.02	0.42
1:D:1463:VAL:O	1:D:1464:GLU:C	2.58	0.42
1:A:1453:VAL:O	1:A:1454:THR:O	2.36	0.42
1:A:1502:ARG:C	1:A:1504:ALA:N	2.71	0.42
2:H:262:GLU:O	2:H:265:SER:HB3	2.20	0.42
2:H:335:PRO:HA	2:H:420:PHE:HE2	1.83	0.42
2:E:248:HIS:C	2:E:250:VAL:N	2.68	0.42
1:G:1449:LYS:C	1:G:1451:GLN:N	2.71	0.42
2:B:344:LEU:HD13	2:B:345:THR:N	2.21	0.42
2:B:389:LEU:O	2:B:389:LEU:HD12	2.20	0.42
2:B:512:LEU:O	2:B:513:GLY:C	2.57	0.42
2:E:1702:TYR:O	2:E:1703:GLY:C	2.58	0.42
2:E:1828:VAL:CG1	2:E:1829:GLU:N	2.83	0.42
2:E:333:GLY:O	2:E:335:PRO:N	2.53	0.42
2:B:1733:TYR:HE1	2:B:1760:THR:CG2	2.32	0.42
2:B:1738:PHE:HB2	2:B:1755:ILE:HG21	2.01	0.42
2:B:1718:THR:CB	2:B:1770:LEU:HD13	2.49	0.42
2:B:1814:ALA:HA	2:B:1817:SER:OG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1814:ALA:O	2:H:1815:LEU:C	2.57	0.42
2:E:25:ALA:HB1	2:E:65:LEU:HD21	2.00	0.42
1:D:808:LYS:CE	1:D:808:LYS:HA	2.28	0.42
2:H:1938:GLY:O	2:H:1939:HIS:HB2	2.20	0.42
2:E:1939:HIS:CD2	2:E:1940:LEU:H	2.33	0.42
2:H:1867:SER:CA	2:H:1870:ALA:HB3	2.48	0.42
2:B:1857:ILE:HG22	2:B:1858:ASN:N	2.34	0.42
2:B:1871:LEU:C	2:B:1873:TYR:N	2.71	0.42
1:A:1665:ILE:HD12	1:A:1669:ARG:CB	2.49	0.42
1:G:673:PHE:HZ	1:G:906:LEU:O	2.01	0.42
2:H:1147:UNK:O	2:H:1148:UNK:CB	2.67	0.42
1:G:631:UNK:C	1:G:632:UNK:O	2.66	0.42
1:A:520:UNK:C	1:A:522:UNK:N	2.79	0.42
2:H:2040:UNK:O	2:H:2041:UNK:C	2.68	0.42
2:H:895:UNK:CB	2:H:898:UNK:CB	2.98	0.42
2:E:1332:UNK:O	2:E:1334:UNK:N	2.51	0.42
2:E:1020:UNK:C	2:E:1022:UNK:N	2.78	0.42
2:E:1420:UNK:O	2:E:1421:UNK:O	2.37	0.42
2:H:1484:UNK:O	2:H:1485:UNK:CB	2.67	0.42
2:H:1258:UNK:C	2:H:1260:UNK:N	2.82	0.42
2:H:946:UNK:C	2:H:948:UNK:N	2.83	0.42
2:E:224:ASN:O	2:E:226:PRO:HD3	2.19	0.42
1:G:622:UNK:O	1:G:623:UNK:C	2.67	0.42
2:H:2002:UNK:O	2:H:2005:UNK:CB	2.67	0.42
1:A:591:UNK:O	1:A:592:UNK:C	2.67	0.42
2:H:935:UNK:O	2:H:936:UNK:CB	2.68	0.42
1:A:173:UNK:O	1:A:174:UNK:C	2.66	0.42
2:H:1089:UNK:C	2:H:1136:UNK:N	2.83	0.42
1:D:141:UNK:C	1:D:143:UNK:N	2.80	0.42
2:B:817:UNK:O	2:B:818:UNK:C	2.66	0.42
1:G:1139:GLU:CG	1:G:1140:THR:H	2.32	0.42
1:G:1156:GLU:HG2	1:G:1170:GLY:N	2.34	0.42
1:A:1127:VAL:H	1:A:1179:LEU:HA	1.84	0.42
1:A:1179:LEU:N	1:A:1179:LEU:CD2	2.83	0.42
1:D:1160:THR:HB	1:D:1166:LYS:CE	2.43	0.42
1:G:1089:VAL:HG23	1:G:1091:ALA:HB3	2.01	0.42
1:G:1029:PRO:HA	1:G:1193:TRP:NE1	2.35	0.42
1:G:1247:SER:O	1:G:1301:PRO:HD3	2.17	0.42
1:G:901:MET:HE3	1:G:901:MET:C	2.40	0.42
1:A:1030:TRP:CD1	1:A:1030:TRP:N	2.88	0.42
1:A:1031:GLY:H	1:A:1035:THR:HG21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1108:PRO:O	1:A:1109:GLU:CB	2.67	0.42
1:A:1189:ILE:CG2	1:A:1377:MET:CB	2.75	0.42
1:A:1197:THR:CB	1:A:1200:ILE:HG22	2.50	0.42
1:A:1222:ALA:O	1:A:1225:ALA:CB	2.67	0.42
1:A:1207:GLN:NE2	1:A:1277:GLU:OE1	2.52	0.42
1:A:1367:ARG:O	1:A:1370:THR:OG1	2.38	0.42
1:A:1519:ILE:HD13	1:A:1521:PRO:HD2	1.97	0.42
1:A:1423:LYS:CA	1:A:1552:ASN:HD21	2.31	0.42
1:A:1028:GLY:CA	1:A:1591:TRP:HZ2	2.32	0.42
1:D:1089:VAL:HG23	1:D:1091:ALA:HB3	2.02	0.42
1:D:1205:ILE:HG22	1:D:1213:LEU:HD11	2.00	0.42
1:D:1295:SER:OG	1:D:1706:TYR:OH	2.35	0.42
1:D:1417:SER:C	1:D:1418:VAL:CG2	2.88	0.42
1:D:1536:LEU:N	1:D:1536:LEU:HD12	2.25	0.42
1:D:1565:GLY:O	1:D:1566:ARG:O	2.37	0.42
1:D:1600:LEU:HB3	1:D:1601:ASN:H	1.66	0.42
1:D:1700:SER:HB3	1:D:1702:GLU:OE2	2.19	0.42
1:D:769:ILE:HA	1:D:823:ILE:HG13	2.02	0.42
1:D:826:MET:HG3	1:D:867:ALA:N	2.34	0.42
2:H:209:PHE:N	2:H:209:PHE:CD1	2.88	0.42
2:H:242:GLY:O	2:H:243:VAL:C	2.57	0.42
2:H:347:GLU:O	2:H:350:GLN:HB3	2.20	0.42
2:H:439:ILE:HG13	2:H:440:ASN:N	2.34	0.42
2:H:444:VAL:C	2:H:446:ASN:N	2.68	0.42
2:E:439:ILE:HG13	2:E:440:ASN:N	2.32	0.42
2:E:540:ASP:HB2	2:E:544:LYS:NZ	2.34	0.42
1:G:1461:ASP:O	1:G:1462:TRP:C	2.55	0.42
2:B:267:LEU:HD12	2:B:269:GLY:H	1.84	0.42
2:B:345:THR:C	2:B:346:GLN:O	2.57	0.42
2:E:1689:ASP:N	2:E:1689:ASP:OD1	2.52	0.42
2:E:1825:GLU:H	2:E:1825:GLU:HG2	1.55	0.42
2:E:1822:MET:HE1	2:E:1830:VAL:CG1	2.49	0.42
1:A:1470:LEU:O	1:A:1470:LEU:HD23	2.20	0.42
2:B:1719:ILE:HG13	2:B:1719:ILE:H	1.62	0.42
2:H:1689:ASP:HA	2:H:1692:ASN:HD22	1.84	0.42
2:H:1718:THR:HG23	2:H:1765:ARG:CB	2.49	0.42
1:D:1342:GLU:C	1:D:1343:PHE:O	2.54	0.42
1:G:769:ILE:HA	1:G:823:ILE:HG13	2.01	0.42
2:E:60:LEU:O	2:E:64:PHE:HB3	2.20	0.42
2:B:729:UNK:O	2:B:731:UNK:N	2.52	0.42
1:A:1733:PHE:HB2	1:A:1734:ASN:H	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1736:LYS:HD3	1:G:1736:LYS:HA	1.86	0.42
2:B:1874:VAL:HG22	2:B:1928:GLN:OE1	2.19	0.42
1:D:670:UNK:C	1:D:671:VAL:HG23	2.48	0.42
2:E:1909:THR:HG21	2:E:1927:LEU:HD11	2.02	0.42
2:H:1875:VAL:HG22	2:H:1880:LYS:O	2.20	0.42
2:H:1928:GLN:C	2:H:1930:SER:H	2.22	0.42
2:H:1173:UNK:CB	2:H:1180:UNK:CA	2.97	0.42
1:G:521:UNK:O	1:G:523:UNK:N	2.52	0.42
1:A:884:ILE:H	1:A:884:ILE:HG13	1.62	0.42
1:A:940:THR:HA	1:A:943:LEU:HD12	2.01	0.42
2:B:1012:UNK:O	2:B:1015:UNK:CB	2.67	0.42
2:H:674:UNK:O	2:H:675:UNK:C	2.67	0.42
2:H:1519:UNK:O	2:H:1522:UNK:N	2.53	0.42
1:A:624:UNK:O	1:A:625:UNK:C	2.66	0.42
2:H:911:UNK:O	2:H:912:UNK:CB	2.67	0.42
1:G:1138:LYS:HG2	1:G:1139:GLU:H	1.84	0.42
1:A:1160:THR:CB	1:A:1166:LYS:HE3	2.40	0.42
1:G:1039:MET:HA	1:G:1039:MET:CE	2.46	0.42
1:G:1064:ASN:CG	1:G:1069:GLY:HA3	2.40	0.42
1:G:1247:SER:C	1:G:1248:GLY:O	2.58	0.42
1:G:1260:MET:HB3	1:G:1261:PHE:HD2	1.84	0.42
1:G:1118:LYS:HZ1	1:G:1337:GLU:HG3	1.82	0.42
1:G:1700:SER:CA	1:G:1701:LYS:HE3	2.49	0.42
1:G:1705:PRO:HB2	1:G:1731:LEU:HD12	2.01	0.42
1:G:717:TYR:CD2	1:G:718:TYR:CD1	3.06	0.42
1:A:1282:THR:HA	1:A:1285:ALA:HB3	2.01	0.42
1:A:1377:MET:O	1:A:1378:GLU:C	2.58	0.42
1:A:1394:LEU:HA	1:A:1673:TYR:CE1	2.54	0.42
1:A:1589:GLY:O	1:A:1592:MET:N	2.53	0.42
1:A:873:ARG:CG	1:A:874:GLY:N	2.81	0.42
1:D:1083:PRO:CG	1:D:1084:VAL:H	2.29	0.42
1:D:1094:GLU:C	1:D:1095:THR:O	2.57	0.42
1:D:1197:THR:CB	1:D:1200:ILE:HG22	2.49	0.42
1:D:1352:THR:C	1:D:1353:LEU:O	2.58	0.42
1:D:1108:PRO:CB	1:D:1362:PRO:HB2	2.50	0.42
1:D:1367:ARG:O	1:D:1370:THR:OG1	2.37	0.42
1:D:1371:THR:C	1:D:1373:ARG:N	2.73	0.42
1:D:1522:LEU:HD12	1:D:1522:LEU:N	2.35	0.42
1:D:1583:HIS:N	1:D:1583:HIS:HD2	1.99	0.42
1:D:1615:ASP:OD1	1:D:1617:ILE:HG12	2.19	0.42
1:D:693:LEU:HD13	1:D:703:VAL:HG11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:797:THR:O	1:D:800:LEU:CB	2.66	0.42
1:D:904:ASN:O	1:D:907:GLY:N	2.51	0.42
1:D:1462:TRP:CE3	1:D:1463:VAL:N	2.88	0.42
2:H:267:LEU:HG	2:H:457:ILE:HD13	2.01	0.42
2:H:427:PHE:O	2:H:428:HIS:C	2.57	0.42
2:E:239:PRO:O	2:E:243:VAL:HG23	2.20	0.42
1:G:1012:LEU:HD13	1:G:1664:ALA:HB2	2.02	0.42
2:B:160:PHE:O	2:B:273:HIS:N	2.51	0.42
2:B:333:GLY:O	2:B:335:PRO:N	2.53	0.42
2:B:335:PRO:O	2:B:336:SER:O	2.37	0.42
2:B:347:GLU:O	2:B:350:GLN:HB3	2.19	0.42
2:B:444:VAL:C	2:B:446:ASN:N	2.70	0.42
2:B:461:ASP:HB2	2:B:464:ASP:O	2.20	0.42
2:E:1804:PHE:CD1	2:E:1804:PHE:N	2.87	0.42
2:B:1705:SER:OG	2:B:1708:ASP:CB	2.68	0.42
2:B:1724:GLU:O	2:B:1729:ILE:CB	2.66	0.42
2:B:1830:VAL:CG1	2:B:1831:VAL:N	2.80	0.42
2:H:1696:ASN:C	2:H:1698:PHE:N	2.72	0.42
2:H:1737:ILE:HD12	2:H:1755:ILE:HG21	2.01	0.42
2:H:37:PHE:O	2:H:41:LEU:HD11	2.20	0.42
2:B:71:LEU:HD12	2:B:76:LYS:HZ3	1.84	0.42
2:E:41:LEU:HB3	2:E:46:GLU:OE2	2.19	0.42
1:G:1719:LEU:CB	1:G:1737:ASN:OD1	2.68	0.42
1:A:670:UNK:C	1:A:671:VAL:HG23	2.49	0.42
2:H:95:TYR:O	2:H:104:LEU:HD13	2.20	0.42
2:H:998:UNK:O	2:H:999:UNK:C	2.67	0.42
1:D:491:UNK:C	1:D:493:UNK:N	2.82	0.42
2:E:2036:UNK:O	2:E:2039:UNK:N	2.53	0.42
2:E:882:UNK:O	2:E:884:UNK:N	2.53	0.42
1:G:398:UNK:O	1:G:401:UNK:N	2.52	0.42
2:H:649:UNK:O	2:H:650:UNK:C	2.67	0.42
2:B:799:UNK:O	2:B:802:UNK:N	2.53	0.42
2:H:1455:UNK:O	2:H:1458:UNK:N	2.52	0.42
2:H:1632:UNK:O	2:H:1633:UNK:CB	2.67	0.42
2:E:1995:UNK:O	2:E:1996:UNK:O	2.37	0.42
2:B:2028:UNK:O	2:B:2029:UNK:O	2.37	0.42
2:H:760:UNK:O	2:H:761:UNK:C	2.68	0.42
2:E:355:LYS:O	2:E:358:SER:HB2	2.20	0.42
2:H:1594:UNK:C	2:H:1596:UNK:N	2.83	0.42
2:H:591:UNK:O	2:H:592:UNK:CB	2.66	0.42
1:G:1103:ILE:HB	1:G:1104:ARG:H	1.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1189:ILE:CB	1:G:1190:PRO:HD3	2.48	0.42
1:G:1208:VAL:HB	1:G:1212:THR:CB	2.50	0.42
1:G:1232:TYR:HE1	1:G:1705:PRO:CD	2.28	0.42
1:G:1329:VAL:HG11	1:G:1385:GLN:HB2	2.02	0.42
1:G:1546:THR:C	1:G:1548:ALA:H	2.21	0.42
1:G:1688:PHE:C	1:G:1690:ASN:N	2.72	0.42
1:G:860:ASN:HB2	1:G:861:GLN:NE2	2.34	0.42
1:A:1104:ARG:HA	1:A:1104:ARG:CZ	2.49	0.42
1:A:1198:TYR:HD2	1:A:1217:VAL:HG22	1.84	0.42
1:A:1248:GLY:O	1:A:1249:SER:HB3	2.20	0.42
1:A:1394:LEU:HD23	1:A:1673:TYR:CZ	2.55	0.42
1:A:1552:ASN:OD1	1:A:1552:ASN:O	2.37	0.42
1:A:1405:ALA:CB	1:A:1654:ILE:O	2.62	0.42
1:A:1396:MET:CA	1:A:1676:LYS:HD3	2.21	0.42
1:A:680:ILE:CD1	1:A:705:VAL:HA	2.50	0.42
1:A:684:GLY:O	1:A:690:ALA:HB2	2.20	0.42
1:A:742:LYS:HA	1:A:745:VAL:HB	2.01	0.42
1:A:784:ILE:O	1:A:785:ASP:O	2.38	0.42
1:A:792:HIS:ND1	1:A:796:LEU:CD2	2.83	0.42
1:D:1067:LEU:HA	1:D:1074:GLY:O	2.19	0.42
1:D:1260:MET:HB3	1:D:1261:PHE:HD2	1.83	0.42
1:D:1294:SER:C	1:D:1296:GLY:N	2.71	0.42
1:D:1431:GLU:HG2	1:D:1522:LEU:HD13	2.01	0.42
1:D:1547:LYS:O	1:D:1547:LYS:HG2	2.19	0.42
1:D:1625:LEU:HD11	1:D:1626:TYR:CD1	2.54	0.42
1:D:1706:TYR:HB2	1:D:1707:THR:H	1.65	0.42
1:D:749:ILE:HD12	1:D:806:VAL:CG2	2.46	0.42
1:D:843:LYS:O	1:D:844:LEU:C	2.58	0.42
1:D:1502:ARG:O	1:D:1504:ALA:N	2.52	0.42
1:A:1451:GLN:CG	1:A:1452:LEU:N	2.78	0.42
1:A:1454:THR:CG2	1:A:1455:ARG:N	2.59	0.42
2:H:433:VAL:HA	2:H:436:SER:HB3	2.01	0.42
2:H:540:ASP:HB2	2:H:544:LYS:NZ	2.34	0.42
2:E:209:PHE:CD1	2:E:209:PHE:N	2.87	0.42
2:E:296:VAL:O	2:E:297:ARG:C	2.58	0.42
2:B:311:TYR:O	2:B:315:PRO:HB3	2.20	0.42
2:B:1830:VAL:HA	2:B:1833:TYR:HB2	2.01	0.42
2:B:75:SER:C	2:B:77:VAL:N	2.68	0.42
1:G:797:THR:O	1:G:798:ASN:C	2.58	0.42
2:E:52:ASP:HB2	2:E:113:ASP:OD1	2.20	0.42
2:E:1390:UNK:HA	2:E:1408:UNK:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1867:SER:O	2:E:1868:GLN:C	2.58	0.42
2:B:1904:LEU:O	2:B:1908:ASP:HB2	2.20	0.42
3:I:2:UNK:C	3:I:4:UNK:N	2.82	0.42
2:B:1857:ILE:HG23	2:B:1949:UNK:CB	2.50	0.42
2:E:1146:UNK:O	2:E:1147:UNK:C	2.67	0.42
2:E:928:UNK:O	2:E:931:UNK:N	2.52	0.42
1:D:776:GLU:HB3	1:D:779:ILE:HD11	2.02	0.42
2:H:599:UNK:HA	2:H:602:UNK:CB	2.50	0.42
2:B:649:UNK:O	2:B:651:UNK:N	2.53	0.42
2:B:653:UNK:O	2:B:655:UNK:N	2.52	0.42
2:B:796:UNK:O	2:B:797:UNK:O	2.37	0.42
1:A:890:LYS:C	1:A:892:GLY:N	2.71	0.42
1:D:565:UNK:O	1:D:569:UNK:N	2.53	0.42
1:D:622:UNK:O	1:D:623:UNK:C	2.67	0.42
1:D:625:UNK:O	1:D:628:UNK:N	2.53	0.42
2:H:2028:UNK:O	2:H:2029:UNK:O	2.37	0.42
2:B:1502:UNK:O	2:B:1503:UNK:C	2.67	0.42
1:D:1161:GLY:O	1:D:1162:GLU:O	2.38	0.42
1:G:1033:ALA:O	1:G:1034:ARG:C	2.57	0.42
1:G:1188:GLN:CD	1:G:1188:GLN:N	2.73	0.42
1:G:1288:ASN:ND2	1:G:1292:ILE:O	2.53	0.42
1:G:1376:PHE:N	1:G:1376:PHE:CD1	2.79	0.42
1:G:1393:ALA:HB1	1:G:1398:VAL:HG11	2.00	0.42
1:G:1639:VAL:HG21	1:G:1655:VAL:HG12	2.01	0.42
1:G:852:ARG:C	1:G:854:HIS:N	2.73	0.42
1:A:1038:GLU:OE2	1:A:1049:GLY:HA3	2.20	0.42
1:A:1211:ILE:O	1:A:1212:THR:C	2.56	0.42
1:A:1398:VAL:HG22	1:A:1399:PRO:N	2.34	0.42
1:A:1408:ALA:CB	1:A:1652:GLN:N	2.82	0.42
1:A:1700:SER:CA	1:A:1701:LYS:HE3	2.50	0.42
1:A:1700:SER:HB3	1:A:1702:GLU:OE2	2.19	0.42
1:A:792:HIS:ND1	1:A:796:LEU:HD21	2.34	0.42
1:D:1030:TRP:CZ2	1:D:1580:LEU:CD1	3.02	0.42
1:D:1039:MET:SD	1:D:1043:GLY:O	2.78	0.42
1:D:1328:ILE:O	1:D:1385:GLN:O	2.38	0.42
1:D:1379:ALA:N	1:D:1583:HIS:HB3	2.18	0.42
1:D:1585:LYS:HE3	1:D:1585:LYS:HB3	1.79	0.42
1:D:1614:VAL:HG12	1:D:1618:LEU:HD12	2.02	0.42
1:D:1002:LYS:CE	1:D:1670:TYR:OH	2.68	0.42
1:D:997:PRO:HG2	1:D:1002:LYS:CE	2.45	0.42
1:A:1504:ALA:C	1:A:1506:GLN:N	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:260:PRO:CG	2:H:292:PHE:HB2	2.39	0.42
2:H:375:LYS:HG3	2:H:376:ASN:N	2.30	0.42
2:H:99:ASN:O	2:H:100:ASP:CB	2.68	0.42
1:G:1502:ARG:C	1:G:1504:ALA:N	2.70	0.42
2:B:149:VAL:O	2:B:266:TYR:CD2	2.73	0.42
2:B:354:ASN:O	2:B:356:THR:N	2.53	0.42
2:B:488:VAL:O	2:B:490:TRP:N	2.53	0.42
2:B:525:VAL:HG22	2:B:554:UNK:N	2.35	0.42
2:B:98:GLY:C	2:B:100:ASP:N	2.72	0.42
2:E:1680:LEU:C	2:E:1680:LEU:CD2	2.88	0.42
2:E:1738:PHE:HB2	2:E:1755:ILE:CB	2.50	0.42
2:B:1825:GLU:HB2	2:B:1826:SER:H	1.52	0.42
2:H:1726:GLY:O	2:H:1728:ARG:N	2.53	0.42
2:H:1830:VAL:CG1	2:H:1831:VAL:N	2.79	0.42
2:B:164:GLY:O	2:B:166:THR:N	2.49	0.42
1:G:1264:ARG:C	1:G:1266:LYS:H	2.21	0.42
2:E:22:VAL:N	2:E:23:PRO:HD2	2.35	0.42
2:E:71:LEU:HD12	2:E:76:LYS:HZ3	1.84	0.42
1:G:462:UNK:CB	1:G:1632:LYS:NZ	2.82	0.42
2:H:408:PRO:O	2:H:410:SER:N	2.53	0.42
2:H:1874:VAL:CG2	2:H:1928:GLN:HE22	2.30	0.42
1:D:779:ILE:HD12	1:D:837:GLY:HA3	2.01	0.42
2:E:1559:UNK:HA	2:E:1564:UNK:CB	2.50	0.42
1:G:927:ASN:HD21	1:G:931:GLN:N	2.13	0.42
1:A:927:ASN:HD21	1:A:931:GLN:N	2.13	0.42
2:H:1013:UNK:C	2:H:1015:UNK:N	2.80	0.42
2:E:676:UNK:N	2:E:680:UNK:CB	2.83	0.42
1:D:398:UNK:O	1:D:401:UNK:N	2.52	0.42
2:E:1587:UNK:O	2:E:1590:UNK:N	2.52	0.42
2:B:1582:UNK:O	2:B:1583:UNK:CB	2.68	0.42
1:A:563:UNK:O	1:A:564:UNK:C	2.68	0.42
2:E:1550:UNK:O	2:E:1552:UNK:N	2.53	0.42
1:D:624:UNK:O	1:D:625:UNK:C	2.67	0.42
2:H:1056:UNK:C	2:H:1058:UNK:N	2.77	0.42
1:A:622:UNK:C	1:A:624:UNK:N	2.80	0.42
1:A:625:UNK:O	1:A:628:UNK:CB	2.68	0.42
1:D:177:UNK:O	1:D:178:UNK:C	2.68	0.42
1:G:1067:LEU:CG	1:G:1074:GLY:H	2.32	0.42
1:G:1398:VAL:HG13	1:G:1399:PRO:C	2.41	0.42
1:A:1039:MET:SD	1:A:1043:GLY:O	2.78	0.42
1:A:1074:GLY:O	1:A:1075:TRP:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1229:THR:HG23	1:A:1229:THR:O	2.20	0.42
1:A:1423:LYS:N	1:A:1425:ILE:HB	2.35	0.42
1:A:1433:HIS:ND1	1:A:1434:SER:O	2.50	0.42
1:A:678:VAL:HG21	1:A:767:ALA:HB3	2.00	0.42
1:A:692:VAL:HG22	1:A:902:ALA:HB1	2.00	0.42
1:D:1030:TRP:HB3	1:D:1035:THR:HG22	2.01	0.42
1:D:1080:THR:HG1	1:D:1083:PRO:HD2	1.85	0.42
1:D:1283:MET:HE1	1:D:1283:MET:H	1.85	0.42
1:D:1290:LEU:HA	1:D:1701:LYS:CE	2.50	0.42
1:D:1241:SER:HB2	1:D:1295:SER:HB2	2.02	0.42
1:D:1319:ILE:CD1	1:D:1325:ARG:HA	2.48	0.42
1:D:1428:THR:HG22	1:D:1428:THR:O	2.20	0.42
1:D:1519:ILE:HG12	1:D:1521:PRO:CD	2.49	0.42
1:D:1575:VAL:O	1:D:1576:PHE:CB	2.67	0.42
1:D:1378:GLU:HB3	1:D:1585:LYS:HD2	2.00	0.42
1:D:1700:SER:HA	1:D:1701:LYS:HE3	2.02	0.42
1:D:684:GLY:CA	1:D:718:TYR:OH	2.67	0.42
1:D:742:LYS:HG3	1:D:743:GLN:H	1.84	0.42
1:D:748:LEU:O	1:D:749:ILE:C	2.58	0.42
2:H:286:THR:HG21	2:H:292:PHE:CD1	2.44	0.42
2:H:333:GLY:O	2:H:335:PRO:N	2.52	0.42
1:G:1504:ALA:O	1:G:1506:GLN:N	2.52	0.42
2:B:131:ILE:CD1	2:B:182:VAL:CG1	2.98	0.42
2:B:161:GLY:HA2	2:B:512:LEU:CD1	2.49	0.42
2:B:517:HIS:CE1	2:B:538:ASP:OD1	2.72	0.42
2:E:1814:ALA:O	2:E:1815:LEU:C	2.58	0.42
2:H:1719:ILE:HG22	2:H:1721:PHE:CD1	2.54	0.42
2:H:59:GLU:HB3	2:H:125:ASN:ND2	2.34	0.42
2:H:23:PRO:HA	2:H:26:SER:HB2	2.00	0.42
2:H:169:TYR:O	2:H:172:GLU:N	2.48	0.42
1:G:676:LYS:O	1:G:677:TYR:O	2.38	0.42
1:G:742:LYS:HA	1:G:745:VAL:HB	2.02	0.42
1:D:1737:ASN:OD1	1:D:1739:GLN:N	2.53	0.42
2:E:1864:ALA:N	2:E:1866:PHE:HB2	2.35	0.42
2:H:409:PHE:O	2:H:410:SER:CB	2.66	0.42
1:G:1665:ILE:O	1:G:1666:THR:CB	2.68	0.42
2:H:393:LEU:HG	2:H:418:ASN:OD1	2.19	0.42
2:E:1929:LYS:HE2	2:E:1929:LYS:HA	2.01	0.42
2:B:1924:ILE:O	2:B:1926:GLU:N	2.53	0.42
2:B:221:ASN:C	2:B:223:SER:H	2.23	0.42
2:B:1042:UNK:O	2:B:1044:UNK:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:468:UNK:CB	1:G:523:UNK:CB	2.98	0.42
2:E:1584:UNK:O	2:E:1586:UNK:N	2.53	0.42
1:A:1162:GLU:O	1:A:1163:TYR:CG	2.72	0.42
2:H:1432:UNK:O	2:H:1433:UNK:CB	2.68	0.42
1:D:972:SER:O	1:D:973:ALA:CB	2.67	0.42
1:A:238:UNK:O	1:A:239:UNK:CB	2.68	0.42
2:H:1799:PRO:O	2:H:1800:ALA:C	2.58	0.42
1:G:534:UNK:HA	1:G:537:UNK:CB	2.49	0.42
2:B:232:LEU:C	2:B:232:LEU:HD23	2.40	0.42
2:E:232:LEU:C	2:E:232:LEU:HD23	2.39	0.42
2:H:2000:UNK:O	2:H:2002:UNK:N	2.53	0.42
1:A:622:UNK:O	1:A:623:UNK:C	2.67	0.42
2:B:591:UNK:O	2:B:592:UNK:CB	2.68	0.42
2:H:88:LEU:HD21	2:H:130:ARG:HA	2.01	0.42
1:D:1745:UNK:C	1:D:1747:UNK:N	2.82	0.42
2:E:674:UNK:O	2:E:675:UNK:C	2.68	0.42
1:G:1144:PHE:H	1:G:1144:PHE:HD1	1.67	0.41
1:G:1060:ILE:HG22	1:G:1079:LYS:CB	2.34	0.41
1:G:1286:TRP:HA	1:G:1289:MET:HG3	2.01	0.41
1:G:1118:LYS:HZ3	1:G:1337:GLU:HG3	1.80	0.41
1:A:1208:VAL:HB	1:A:1212:THR:CB	2.50	0.41
1:A:1215:VAL:HG23	1:A:1216:LEU:N	2.35	0.41
1:A:1376:PHE:O	1:A:1377:MET:CG	2.67	0.41
1:A:1557:ILE:HA	1:A:1560:MET:SD	2.60	0.41
1:A:1583:HIS:N	1:A:1583:HIS:HD2	1.98	0.41
1:A:1385:GLN:NE2	1:A:1593:MET:CG	2.69	0.41
1:A:1616:LYS:C	1:A:1618:LEU:N	2.72	0.41
1:A:742:LYS:HG3	1:A:743:GLN:H	1.84	0.41
1:D:1201:SER:HB3	1:D:1204:ILE:HG12	1.96	0.41
1:D:1216:LEU:HD11	1:D:1290:LEU:HD22	2.02	0.41
1:D:1237:TYR:O	1:D:1238:VAL:CG2	2.68	0.41
1:D:1240:VAL:HG13	1:D:1242:GLU:H	1.85	0.41
1:D:1245:ASN:O	1:D:1246:CYS:O	2.38	0.41
1:A:1455:ARG:C	1:A:1457:ALA:N	2.73	0.41
1:A:1456:GLU:CA	1:A:1459:ILE:HG13	2.50	0.41
1:A:1501:LEU:HD23	1:A:1501:LEU:C	2.40	0.41
2:H:499:THR:O	2:H:500:HIS:ND1	2.52	0.41
2:E:294:VAL:O	2:E:297:ARG:HB3	2.20	0.41
2:B:267:LEU:HD12	2:B:268:LYS:N	2.35	0.41
2:B:463:PHE:CE1	2:B:489:LYS:HD2	2.55	0.41
2:B:541:TYR:O	2:B:543:PHE:CD1	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1478:PRO:HB2	1:G:1479:SER:H	1.63	0.41
2:E:1692:ASN:O	2:E:1696:ASN:CB	2.67	0.41
2:B:1689:ASP:HA	2:B:1692:ASN:HD22	1.84	0.41
2:B:1694:ALA:O	2:B:1698:PHE:HB2	2.20	0.41
2:B:1729:ILE:CG2	2:B:1730:ARG:N	2.80	0.41
2:H:1718:THR:CB	2:H:1770:LEU:HD13	2.49	0.41
2:H:1716:ASN:C	2:H:1718:THR:N	2.72	0.41
2:H:1753:LYS:C	2:H:1755:ILE:N	2.73	0.41
2:H:1790:GLU:O	2:H:1791:ASP:C	2.57	0.41
2:B:14:GLY:O	2:B:18:HIS:ND1	2.53	0.41
2:B:22:VAL:H	2:B:23:PRO:HD2	1.85	0.41
2:B:1:MET:HB3	2:B:2:ASP:H	1.58	0.41
2:B:52:ASP:HB2	2:B:113:ASP:OD1	2.18	0.41
1:G:792:HIS:ND1	1:G:796:LEU:CD2	2.83	0.41
2:B:1931:LEU:HA	2:B:1934:GLU:CB	2.50	0.41
2:H:404:GLN:C	2:H:406:ARG:N	2.72	0.41
1:G:1667:GLU:O	1:G:1669:ARG:N	2.53	0.41
1:D:1003:GLN:HG3	1:D:1666:THR:OG1	2.20	0.41
1:D:1665:ILE:HD12	1:D:1669:ARG:CB	2.50	0.41
1:G:655:UNK:O	1:G:656:UNK:C	2.68	0.41
2:H:1931:LEU:HA	2:H:1934:GLU:CB	2.50	0.41
1:D:495:UNK:O	1:D:496:UNK:C	2.68	0.41
2:B:1013:UNK:C	2:B:1015:UNK:N	2.80	0.41
1:G:434:UNK:O	1:G:435:UNK:CB	2.68	0.41
2:E:1049:UNK:O	2:E:1051:UNK:N	2.53	0.41
2:B:841:UNK:O	2:B:843:UNK:N	2.52	0.41
1:A:455:UNK:O	1:A:459:UNK:N	2.53	0.41
2:B:224:ASN:O	2:B:226:PRO:HD3	2.20	0.41
1:D:1273:ASP:O	1:D:1273:ASP:CG	2.58	0.41
1:A:221:UNK:O	1:A:222:UNK:C	2.67	0.41
2:E:1089:UNK:C	2:E:1136:UNK:N	2.83	0.41
1:G:1148:HIS:C	1:G:1150:ASP:N	2.60	0.41
1:G:1155:PHE:O	1:G:1156:GLU:CB	2.63	0.41
1:G:1127:VAL:H	1:G:1179:LEU:HA	1.85	0.41
1:A:1179:LEU:N	1:A:1179:LEU:HD23	2.35	0.41
1:D:1139:GLU:OE2	1:D:1166:LYS:O	2.36	0.41
1:G:1028:GLY:C	1:G:1193:TRP:HE1	2.23	0.41
1:G:1036:ARG:O	1:G:1039:MET:N	2.52	0.41
1:G:1073:THR:CG2	1:G:1074:GLY:H	2.33	0.41
1:G:1094:GLU:C	1:G:1095:THR:O	2.57	0.41
1:G:1210:PRO:HB2	1:G:1211:ILE:H	1.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1275:LEU:HD13	1:G:1275:LEU:O	2.19	0.41
1:G:1423:LYS:CA	1:G:1552:ASN:HD21	2.33	0.41
1:G:1618:LEU:O	1:G:1619:GLU:HB2	2.20	0.41
1:G:1641:ILE:O	1:G:1642:THR:HB	2.19	0.41
1:G:1641:ILE:HG12	1:G:1642:THR:H	1.84	0.41
1:G:1646:PHE:O	1:G:1648:GLN:N	2.53	0.41
1:G:691:GLU:O	1:G:694:GLN:HB2	2.20	0.41
1:A:1020:VAL:HG22	1:A:1403:ILE:CA	2.46	0.41
1:A:1079:LYS:C	1:A:1080:THR:HG1	2.23	0.41
1:A:1112:ASN:C	1:A:1114:TYR:N	2.57	0.41
1:A:1230:ASP:HA	1:A:1231:PRO:HD2	1.76	0.41
1:A:1333:ASP:HB2	1:A:1586:GLY:HA3	2.01	0.41
1:A:1368:PRO:O	1:A:1369:ALA:O	2.38	0.41
1:A:1528:THR:O	1:A:1529:TYR:CD1	2.73	0.41
1:A:1704:ALA:CB	1:A:1705:PRO:CD	2.93	0.41
1:A:786:SER:O	1:A:788:SER:N	2.54	0.41
1:A:841:GLU:CD	1:A:841:GLU:H	2.23	0.41
1:A:850:PHE:CE2	1:A:864:VAL:CG1	3.03	0.41
1:D:1062:TYR:HB2	1:D:1077:ASP:OD1	2.20	0.41
1:D:1089:VAL:O	1:D:1090:LYS:C	2.58	0.41
1:D:1425:ILE:O	1:D:1426:LEU:CG	2.68	0.41
1:D:1658:PRO:C	1:D:1660:TYR:H	2.22	0.41
1:D:1701:LYS:CD	1:D:1701:LYS:N	2.83	0.41
1:D:911:PRO:O	1:D:913:VAL:N	2.52	0.41
1:A:1447:TYR:O	1:A:1449:LYS:N	2.53	0.41
2:H:239:PRO:O	2:H:243:VAL:HG23	2.20	0.41
2:H:259:THR:C	2:H:261:GLY:N	2.73	0.41
2:H:259:THR:HG22	2:H:288:SER:HA	2.00	0.41
2:H:355:LYS:HA	2:H:358:SER:OG	2.20	0.41
2:E:474:SER:O	2:E:475:ILE:CB	2.67	0.41
1:G:1010:GLU:O	1:G:1011:GLY:C	2.56	0.41
1:G:1462:TRP:HE3	1:G:1462:TRP:C	2.23	0.41
2:B:296:VAL:O	2:B:297:ARG:C	2.58	0.41
2:B:515:LEU:O	2:B:518:ARG:HB2	2.19	0.41
2:E:1674:GLN:HE21	2:E:1712:ASN:HA	1.85	0.41
2:E:383:PRO:HG2	2:E:384:GLN:H	1.84	0.41
2:B:1818:LEU:O	2:B:1819:ALA:O	2.37	0.41
2:H:1698:PHE:O	2:H:1702:TYR:N	2.50	0.41
2:H:1724:GLU:O	2:H:1729:ILE:HA	2.20	0.41
2:H:1738:PHE:C	2:H:1740:THR:H	2.22	0.41
2:H:1806:GLY:HA3	2:H:1811:GLU:CG	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1830:VAL:O	2:H:1834:ARG:N	2.49	0.41
2:E:1:MET:HB3	2:E:2:ASP:H	1.57	0.41
1:G:1184:LEU:HD12	1:G:1185:VAL:N	2.35	0.41
1:G:1737:ASN:OD1	1:G:1739:GLN:N	2.53	0.41
3:F:2:UNK:C	3:F:4:UNK:N	2.82	0.41
2:B:1875:VAL:HG22	2:B:1880:LYS:O	2.19	0.41
2:B:1903:ASP:O	2:B:1904:LEU:C	2.58	0.41
2:B:1905:ARG:HA	2:B:1908:ASP:HB3	2.02	0.41
1:D:586:UNK:O	1:D:588:UNK:N	2.53	0.41
2:B:1867:SER:O	2:B:1868:GLN:C	2.59	0.41
1:A:999:LYS:C	1:A:1001:VAL:N	2.74	0.41
1:D:574:UNK:O	1:D:575:UNK:C	2.66	0.41
2:B:1929:LYS:HE2	2:B:1929:LYS:N	2.34	0.41
2:H:1012:UNK:O	2:H:1013:UNK:O	2.38	0.41
2:B:1280:UNK:O	2:B:1282:UNK:N	2.53	0.41
1:D:1572:VAL:HG23	1:D:1572:VAL:O	2.20	0.41
1:A:1438:TYR:CD1	1:A:1439:ALA:N	2.88	0.41
2:E:817:UNK:O	2:E:825:UNK:HA	2.20	0.41
2:E:1502:UNK:O	2:E:1503:UNK:C	2.68	0.41
2:E:935:UNK:O	2:E:936:UNK:CB	2.68	0.41
2:H:342:SER:OG	2:H:343:ASN:N	2.53	0.41
2:H:711:UNK:O	2:H:712:UNK:CB	2.68	0.41
1:A:1151:LYS:CG	1:A:1175:ILE:CD1	2.98	0.41
1:G:1250:GLY:CA	1:G:1333:ASP:OD2	2.68	0.41
1:G:1554:SER:O	1:G:1555:ALA:HB2	2.19	0.41
1:G:1575:VAL:O	1:G:1576:PHE:CB	2.68	0.41
1:G:1705:PRO:HG2	1:G:1706:TYR:CE1	2.55	0.41
1:G:996:LYS:HZ1	1:G:1400:ILE:HG12	1.84	0.41
1:A:1064:ASN:CG	1:A:1069:GLY:HA3	2.39	0.41
1:A:1087:LYS:HB3	1:A:1088:ASP:H	1.48	0.41
1:A:1237:TYR:O	1:A:1238:VAL:CG2	2.68	0.41
1:A:1319:ILE:CD1	1:A:1325:ARG:HA	2.49	0.41
1:A:1637:ARG:HB3	1:A:1638:ALA:H	1.56	0.41
1:A:797:THR:O	1:A:800:LEU:CB	2.66	0.41
1:A:990:LEU:HD23	1:A:1685:TYR:CE2	2.55	0.41
1:D:1023:GLY:N	1:D:1386:ILE:HG13	2.34	0.41
1:D:1029:PRO:HA	1:D:1193:TRP:NE1	2.35	0.41
1:D:1416:ARG:O	1:D:1417:SER:HB3	2.21	0.41
1:D:1426:LEU:HD22	1:D:1650:GLY:CA	2.47	0.41
1:D:1544:THR:C	1:D:1546:THR:H	2.23	0.41
1:D:1581:THR:HB	1:D:1582:GLY:H	1.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1706:TYR:C	1:D:1707:THR:HG22	2.40	0.41
1:D:737:PHE:CD1	1:D:748:LEU:CD2	3.03	0.41
1:D:788:SER:O	1:D:791:ALA:HB3	2.19	0.41
2:H:478:ARG:O	2:H:480:VAL:N	2.50	0.41
2:H:515:LEU:O	2:H:518:ARG:HB2	2.20	0.41
2:H:525:VAL:HG22	2:H:554:UNK:N	2.36	0.41
2:E:195:LEU:HD11	2:E:239:PRO:HB2	2.03	0.41
2:E:432:LEU:HD21	2:E:484:ILE:HG22	2.02	0.41
1:G:1506:GLN:HA	1:G:1510:ASN:ND2	2.20	0.41
2:B:263:LEU:O	2:B:265:SER:N	2.52	0.41
2:B:334:VAL:HA	2:B:335:PRO:HD2	1.90	0.41
2:E:1807:HIS:O	2:E:1808:SER:HB3	2.21	0.41
2:B:1726:GLY:O	2:B:1728:ARG:N	2.53	0.41
2:B:1828:VAL:O	2:B:1829:GLU:C	2.58	0.41
2:H:1698:PHE:CE2	2:H:1704:PHE:CZ	3.09	0.41
2:H:1695:ASP:OD2	2:H:1705:SER:HB2	2.20	0.41
2:E:169:TYR:O	2:E:172:GLU:N	2.48	0.41
1:D:755:THR:CG2	1:D:756:GLU:N	2.82	0.41
2:H:37:PHE:HD2	2:H:37:PHE:HA	1.67	0.41
2:H:63:LYS:O	2:H:64:PHE:C	2.59	0.41
2:B:59:GLU:HB3	2:B:125:ASN:ND2	2.35	0.41
1:D:810:LYS:C	1:D:812:ALA:N	2.71	0.41
2:B:408:PRO:O	2:B:410:SER:N	2.53	0.41
2:B:1869:GLU:C	2:B:1871:LEU:H	2.23	0.41
2:E:1907:LEU:H	2:E:1907:LEU:CD2	2.12	0.41
2:B:82:GLN:O	2:B:85:ASN:N	2.53	0.41
1:D:673:PHE:HZ	1:D:906:LEU:O	2.03	0.41
1:D:927:ASN:HD21	1:D:931:GLN:N	2.15	0.41
2:H:1555:UNK:O	2:H:1557:UNK:N	2.54	0.41
2:H:670:UNK:CA	2:H:694:UNK:CB	2.97	0.41
2:B:1011:UNK:O	2:B:1012:UNK:CB	2.68	0.41
2:E:620:UNK:O	2:E:623:UNK:N	2.53	0.41
2:H:1628:UNK:O	2:H:1629:UNK:C	2.68	0.41
1:A:503:UNK:C	1:A:505:UNK:N	2.76	0.41
2:H:841:UNK:O	2:H:843:UNK:N	2.53	0.41
2:H:1477:UNK:C	2:H:1484:UNK:CB	2.98	0.41
2:H:1047:UNK:O	2:H:1048:UNK:C	2.68	0.41
1:G:389:UNK:O	1:G:391:UNK:N	2.53	0.41
2:H:775:UNK:C	2:H:776:UNK:O	2.68	0.41
2:B:1248:UNK:C	2:B:1250:UNK:N	2.84	0.41
2:H:1249:UNK:O	2:H:1251:UNK:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1280:UNK:O	2:E:1282:UNK:N	2.53	0.41
2:H:1360:UNK:O	2:H:1362:UNK:N	2.53	0.41
2:E:2002:UNK:O	2:E:2005:UNK:CB	2.68	0.41
1:A:543:UNK:C	1:A:545:UNK:N	2.82	0.41
2:E:627:UNK:C	2:E:629:UNK:H	2.32	0.41
1:A:151:UNK:C	1:A:153:UNK:N	2.83	0.41
2:E:760:UNK:O	2:E:761:UNK:C	2.67	0.41
2:B:905:UNK:C	2:B:907:UNK:N	2.83	0.41
1:G:1141:ALA:O	1:G:1142:GLU:HB2	2.21	0.41
1:G:1376:PHE:CG	1:G:1377:MET:N	2.87	0.41
1:G:1522:LEU:CD1	1:G:1522:LEU:H	2.34	0.41
1:G:1366:SER:O	1:G:1579:PHE:CD1	2.74	0.41
1:G:610:UNK:O	1:G:611:UNK:O	2.39	0.41
1:A:1369:ALA:N	1:A:1550:ASP:OD2	2.54	0.41
1:D:1079:LYS:HE3	1:D:1097:ILE:HG12	2.03	0.41
1:D:1118:LYS:O	1:D:1118:LYS:CG	2.66	0.41
1:D:1367:ARG:HB2	1:D:1370:THR:OG1	2.20	0.41
1:D:1581:THR:O	1:D:1582:GLY:C	2.58	0.41
1:D:1403:ILE:CG2	1:D:1657:HIS:O	2.69	0.41
1:D:684:GLY:O	1:D:690:ALA:HB2	2.20	0.41
1:D:853:TRP:CE2	1:D:859:ALA:HB1	2.55	0.41
1:D:901:MET:HE3	1:D:905:LEU:CD2	2.49	0.41
1:D:1015:LEU:HD23	1:D:1018:VAL:CG1	2.47	0.41
2:H:195:LEU:HD11	2:H:239:PRO:HB2	2.03	0.41
2:H:490:TRP:CD1	2:H:494:THR:HG23	2.55	0.41
2:E:474:SER:C	2:E:476:SER:H	2.24	0.41
2:E:484:ILE:O	2:E:485:ARG:HB2	2.20	0.41
2:E:490:TRP:CD1	2:E:494:THR:HG23	2.56	0.41
2:E:544:LYS:HZ1	2:E:552:UNK:CB	2.33	0.41
1:G:1010:GLU:OE1	1:G:1013:LEU:HD11	2.19	0.41
2:B:339:LEU:HB2	2:B:420:PHE:HD1	1.85	0.41
2:B:455:ILE:O	2:B:456:GLN:O	2.38	0.41
2:E:1692:ASN:O	2:E:1696:ASN:N	2.43	0.41
2:E:1726:GLY:O	2:E:1728:ARG:N	2.54	0.41
2:E:1718:THR:HG23	2:E:1765:ARG:CB	2.51	0.41
2:E:1830:VAL:HA	2:E:1833:TYR:HB2	2.03	0.41
2:E:525:VAL:HG22	2:E:554:UNK:N	2.36	0.41
2:B:1672:GLN:HB2	2:B:1676:MET:HE3	2.00	0.41
2:B:1702:TYR:O	2:B:1703:GLY:C	2.58	0.41
2:B:1707:LEU:O	2:B:1710:VAL:N	2.54	0.41
2:B:1742:VAL:CG2	2:B:1751:ILE:HD11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1771:LEU:HA	2:B:1771:LEU:HD12	1.85	0.41
2:H:1705:SER:OG	2:H:1708:ASP:CB	2.67	0.41
2:H:1715:VAL:HG23	2:H:1770:LEU:CB	2.46	0.41
2:H:1755:ILE:H	2:H:1755:ILE:HG12	1.54	0.41
2:H:56:THR:CA	2:H:59:GLU:HG2	2.50	0.41
1:G:1265:PHE:O	1:G:1265:PHE:CG	2.73	0.41
1:A:1667:GLU:O	1:A:1669:ARG:N	2.53	0.41
2:E:1928:GLN:C	2:E:1930:SER:H	2.24	0.41
2:H:135:ARG:O	2:H:136:PRO:C	2.59	0.41
2:B:2049:UNK:O	2:B:2051:UNK:N	2.53	0.41
1:G:884:ILE:H	1:G:884:ILE:HG13	1.59	0.41
1:D:1497:ALA:O	1:D:1499:SER:N	2.53	0.41
2:E:1147:UNK:O	2:E:1148:UNK:CB	2.69	0.41
2:E:421:LEU:HB3	2:E:422:PRO:CD	2.49	0.41
2:H:673:UNK:O	2:H:674:UNK:C	2.68	0.41
2:E:1047:UNK:O	2:E:1048:UNK:C	2.67	0.41
2:B:1258:UNK:C	2:B:1260:UNK:N	2.82	0.41
2:B:620:UNK:O	2:B:623:UNK:N	2.53	0.41
1:A:534:UNK:C	1:A:536:UNK:N	2.81	0.41
1:G:1572:VAL:HG23	1:G:1572:VAL:O	2.20	0.41
1:A:580:UNK:C	1:A:582:UNK:N	2.83	0.41
2:E:742:UNK:O	2:E:743:UNK:C	2.68	0.41
2:H:1638:UNK:O	2:H:1639:UNK:C	2.68	0.41
2:H:772:UNK:CB	2:H:777:UNK:O	2.68	0.41
1:D:543:UNK:C	1:D:545:UNK:N	2.83	0.41
2:H:9:LEU:CD1	2:H:58:ALA:HB2	2.50	0.41
2:E:711:UNK:O	2:E:712:UNK:CB	2.68	0.41
1:D:209:UNK:O	1:D:213:UNK:CB	2.68	0.41
2:H:819:UNK:O	2:H:820:UNK:C	2.69	0.41
1:A:1176:PRO:C	1:A:1177:LYS:HG3	2.40	0.41
1:D:1172:THR:O	1:D:1173:LEU:HB2	2.20	0.41
1:G:1301:PRO:HB2	1:G:1310:GLU:HG2	2.02	0.41
1:G:1367:ARG:HB2	1:G:1370:THR:OG1	2.20	0.41
1:G:1408:ALA:CB	1:G:1652:GLN:N	2.83	0.41
1:G:1431:GLU:HG2	1:G:1522:LEU:HD13	2.02	0.41
1:G:1641:ILE:HG12	1:G:1652:GLN:NE2	2.34	0.41
1:G:1408:ALA:CA	1:G:1652:GLN:O	2.68	0.41
1:A:1047:LEU:O	1:A:1049:GLY:N	2.54	0.41
1:A:1118:LYS:HG3	1:A:1120:GLU:CG	2.50	0.41
1:A:1189:ILE:CB	1:A:1190:PRO:CD	2.98	0.41
1:A:1202:ASP:O	1:A:1203:ASP:OD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1290:LEU:HA	1:A:1701:LYS:CE	2.50	0.41
1:A:1248:GLY:O	1:A:1301:PRO:HD2	2.21	0.41
1:A:1519:ILE:CG1	1:A:1523:ARG:HB3	2.50	0.41
1:D:1232:TYR:C	1:D:1234:MET:N	2.68	0.41
1:D:1426:LEU:HD12	1:D:1427:THR:OG1	2.20	0.41
1:D:1539:ALA:O	1:D:1541:PHE:HD1	2.04	0.41
1:D:1547:LYS:HE3	1:D:1615:ASP:CB	2.49	0.41
1:D:1642:THR:CA	1:D:1652:GLN:OE1	2.68	0.41
1:D:610:UNK:O	1:D:611:UNK:O	2.37	0.41
1:D:706:THR:OG1	1:D:737:PHE:HB3	2.21	0.41
2:H:296:VAL:O	2:H:297:ARG:C	2.58	0.41
2:E:305:PHE:CE2	2:E:442:ASP:HB3	2.55	0.41
2:E:473:GLY:O	2:E:474:SER:HB2	2.21	0.41
1:G:1455:ARG:C	1:G:1457:ALA:N	2.74	0.41
2:B:274:SER:HB3	2:B:428:HIS:NE2	2.36	0.41
2:B:473:GLY:C	2:B:475:ILE:H	2.23	0.41
2:B:544:LYS:NZ	2:B:552:UNK:CB	2.83	0.41
2:E:1715:VAL:CG1	2:E:1716:ASN:H	2.27	0.41
2:E:1726:GLY:O	2:E:1727:LYS:C	2.59	0.41
2:E:1737:ILE:CD1	2:E:1755:ILE:HD12	2.51	0.41
2:E:347:GLU:O	2:E:350:GLN:HB3	2.20	0.41
2:B:1720:HIS:CB	2:B:1762:TYR:O	2.68	0.41
2:B:1721:PHE:C	2:B:1723:GLY:N	2.70	0.41
2:H:1689:ASP:OD1	2:H:1689:ASP:N	2.53	0.41
2:H:1720:HIS:CB	2:H:1763:THR:HG1	2.34	0.41
2:H:1812:TYR:O	2:H:1816:ALA:N	2.50	0.41
2:H:1825:GLU:HG2	2:H:1825:GLU:H	1.57	0.41
1:D:1264:ARG:O	1:D:1266:LYS:N	2.54	0.41
2:B:25:ALA:HB1	2:B:65:LEU:HD21	2.03	0.41
2:B:41:LEU:HB3	2:B:46:GLU:OE2	2.20	0.41
2:E:63:LYS:HB2	2:E:125:ASN:ND2	2.35	0.41
2:E:56:THR:O	2:E:59:GLU:CB	2.69	0.41
2:B:404:GLN:O	2:B:405:SER:C	2.59	0.41
2:H:1864:ALA:N	2:H:1866:PHE:HB2	2.34	0.41
2:H:1912:ASN:O	2:H:1913:VAL:CG2	2.67	0.41
1:D:491:UNK:O	1:D:492:UNK:C	2.68	0.41
2:B:567:UNK:CA	2:B:572:UNK:O	2.68	0.41
2:B:744:UNK:O	2:B:746:UNK:N	2.53	0.41
2:E:1258:UNK:C	2:E:1260:UNK:N	2.84	0.41
2:B:838:UNK:CB	2:B:841:UNK:CB	2.98	0.41
2:B:737:UNK:O	2:B:738:UNK:C	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:625:UNK:HA	1:A:628:UNK:CB	2.50	0.41
1:G:1438:TYR:CD1	1:G:1439:ALA:N	2.86	0.41
2:H:627:UNK:C	2:H:629:UNK:H	2.34	0.41
1:D:541:UNK:C	1:D:543:UNK:N	2.80	0.41
1:D:615:UNK:C	1:D:617:UNK:N	2.82	0.41
2:B:935:UNK:O	2:B:936:UNK:CB	2.68	0.41
1:D:1860:UNK:C	1:D:1862:UNK:N	2.82	0.41
2:E:1522:UNK:C	2:E:1524:UNK:N	2.83	0.41
1:D:1811:UNK:C	1:D:1813:UNK:N	2.81	0.41
1:G:1030:TRP:HB3	1:G:1035:THR:HG22	2.02	0.41
1:G:1063:HIS:HD2	1:G:1065:GLY:CA	2.34	0.41
1:G:1094:GLU:HG3	1:G:1095:THR:H	1.85	0.41
1:G:1108:PRO:CG	1:G:1362:PRO:HB2	2.51	0.41
1:G:1230:ASP:HA	1:G:1231:PRO:HD2	1.76	0.41
1:G:1245:ASN:O	1:G:1246:CYS:O	2.38	0.41
1:G:1275:LEU:O	1:G:1278:SER:HB3	2.21	0.41
1:G:1417:SER:C	1:G:1418:VAL:CG2	2.89	0.41
1:G:1419:PRO:O	1:G:1420:ALA:CB	2.68	0.41
1:G:1427:THR:O	1:G:1430:ARG:HB3	2.21	0.41
1:G:1433:HIS:HE1	1:G:1518:ARG:HH21	1.66	0.41
1:G:1621:PHE:O	1:G:1622:GLU:O	2.39	0.41
1:G:1408:ALA:N	1:G:1653:ALA:HB2	2.33	0.41
1:G:1406:MET:CB	1:G:1654:ILE:HG22	2.50	0.41
1:G:904:ASN:N	1:G:904:ASN:ND2	2.58	0.41
1:A:1020:VAL:HG12	1:A:1021:VAL:N	2.35	0.41
1:A:1079:LYS:HE3	1:A:1097:ILE:HG12	2.02	0.41
1:A:1289:MET:C	1:A:1290:LEU:HD12	2.41	0.41
1:A:1332:TYR:N	1:A:1587:ALA:CB	2.70	0.41
1:A:1423:LYS:CG	1:A:1424:GLY:N	2.83	0.41
1:A:1538:VAL:HG21	1:A:1639:VAL:HA	1.94	0.41
1:D:1193:TRP:HB2	1:D:1194:ASN:H	1.38	0.41
1:D:1248:GLY:O	1:D:1300:THR:HA	2.19	0.41
1:D:1323:LYS:O	1:D:1324:ALA:CB	2.64	0.41
1:D:1424:GLY:C	1:D:1426:LEU:N	2.69	0.41
1:D:1028:GLY:CA	1:D:1591:TRP:HZ2	2.32	0.41
1:D:1637:ARG:HB3	1:D:1638:ALA:H	1.56	0.41
1:D:1673:TYR:CZ	1:D:1677:VAL:HG21	2.55	0.41
1:D:1713:ASP:O	1:D:1714:VAL:C	2.58	0.41
1:D:1705:PRO:HB2	1:D:1731:LEU:HD12	2.02	0.41
1:D:784:ILE:O	1:D:785:ASP:O	2.38	0.41
1:D:1455:ARG:C	1:D:1457:ALA:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1501:LEU:HD23	1:A:1501:LEU:O	2.21	0.41
2:H:244:ILE:HG22	2:H:248:HIS:NE2	2.35	0.41
2:H:98:GLY:C	2:H:100:ASP:N	2.72	0.41
2:B:259:THR:C	2:B:261:GLY:N	2.73	0.41
2:B:267:LEU:CD2	2:B:457:ILE:HD13	2.51	0.41
2:B:304:PHE:CD2	2:B:305:PHE:N	2.89	0.41
2:B:168:ASP:O	2:B:169:TYR:HB2	2.21	0.41
2:H:22:VAL:N	2:H:23:PRO:HD2	2.35	0.41
2:E:2:ASP:N	2:E:2:ASP:OD2	2.54	0.41
1:A:753:TYR:CD1	1:A:809:GLN:HG2	2.56	0.41
2:B:1880:LYS:CD	2:B:1899:VAL:HG13	2.40	0.41
2:H:1885:LEU:N	3:I:2:UNK:CB	2.77	0.41
2:E:177:TYR:CD2	2:E:219:LEU:HB3	2.56	0.41
2:E:1853:GLY:O	2:E:1854:MET:CB	2.69	0.41
1:G:948:VAL:HG12	1:G:949:GLU:N	2.35	0.41
2:H:948:UNK:O	2:H:949:UNK:C	2.67	0.41
1:A:1680:ARG:O	1:A:1683:SER:HB2	2.21	0.41
1:A:534:UNK:O	1:A:535:UNK:C	2.69	0.41
2:E:698:UNK:H	2:E:702:UNK:CB	2.33	0.41
1:G:580:UNK:C	1:G:582:UNK:N	2.83	0.41
1:D:625:UNK:O	1:D:628:UNK:CB	2.69	0.41
2:E:1638:UNK:O	2:E:1639:UNK:C	2.68	0.41
2:B:1638:UNK:O	2:B:1639:UNK:C	2.68	0.41
2:H:824:UNK:HA	2:H:837:UNK:CB	2.51	0.41
1:G:221:UNK:O	1:G:222:UNK:C	2.69	0.41
2:B:885:UNK:O	2:B:886:UNK:CB	2.67	0.41
2:H:165:ASN:HB2	2:H:510:SER:HB2	2.01	0.41
1:G:1745:UNK:C	1:G:1747:UNK:N	2.82	0.41
1:G:1158:PRO:O	1:G:1159:GLU:HB2	2.21	0.41
1:G:1094:GLU:HA	1:G:1094:GLU:OE2	2.20	0.41
1:G:1094:GLU:O	1:G:1095:THR:O	2.39	0.41
1:G:1103:ILE:HG22	1:G:1104:ARG:N	2.35	0.41
1:G:1189:ILE:CB	1:G:1190:PRO:CD	2.99	0.41
1:G:1211:ILE:O	1:G:1212:THR:C	2.58	0.41
1:G:1220:VAL:HG21	1:G:1698:PHE:CD1	2.53	0.41
1:G:1312:VAL:O	1:G:1313:ASP:C	2.58	0.41
1:G:1707:THR:HG23	1:G:1710:LEU:CD1	2.51	0.41
1:A:1039:MET:HE3	1:A:1042:PHE:O	2.21	0.41
1:A:1041:ALA:CB	1:A:1042:PHE:CD1	3.04	0.41
1:A:1063:HIS:HD2	1:A:1065:GLY:CA	2.33	0.41
1:A:1106:ILE:CG2	1:A:1106:ILE:O	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1201:SER:HB3	1:A:1204:ILE:HG12	1.97	0.41
1:A:1216:LEU:O	1:A:1219:VAL:CG1	2.67	0.41
1:A:1384:ILE:HA	1:A:1384:ILE:HD12	1.90	0.41
1:A:1560:MET:O	1:A:1560:MET:HG3	2.21	0.41
1:A:1641:ILE:O	1:A:1642:THR:HB	2.20	0.41
1:A:1705:PRO:HG2	1:A:1706:TYR:CE1	2.55	0.41
1:A:1714:VAL:CG1	1:A:1731:LEU:HD13	2.38	0.41
1:D:1067:LEU:HG	1:D:1073:THR:CG2	2.28	0.41
1:D:1248:GLY:CA	1:D:1330:GLY:HA2	2.49	0.41
1:D:1394:LEU:HD23	1:D:1673:TYR:CZ	2.55	0.41
1:D:691:GLU:O	1:D:694:GLN:HB2	2.21	0.41
2:H:382:PRO:O	2:H:383:PRO:C	2.58	0.41
2:H:515:LEU:C	2:H:515:LEU:HD12	2.41	0.41
2:H:533:LEU:O	2:H:541:TYR:CZ	2.74	0.41
2:E:267:LEU:HD12	2:E:269:GLY:H	1.85	0.41
2:E:99:ASN:O	2:E:100:ASP:CB	2.69	0.41
1:G:1453:VAL:O	1:G:1454:THR:O	2.38	0.41
2:B:432:LEU:CD2	2:B:484:ILE:HG22	2.50	0.41
2:B:541:TYR:C	2:B:543:PHE:H	2.20	0.41
1:G:1470:LEU:O	1:G:1470:LEU:HD23	2.21	0.41
2:E:1742:VAL:CG2	2:E:1837:THR:HA	2.50	0.41
2:E:1753:LYS:C	2:E:1755:ILE:N	2.74	0.41
2:B:1678:MET:HE2	2:B:1678:MET:CA	2.48	0.41
2:B:1716:ASN:C	2:B:1718:THR:N	2.72	0.41
2:H:1726:GLY:O	2:H:1727:LYS:C	2.59	0.41
2:H:1771:LEU:HD12	2:H:1771:LEU:HA	1.85	0.41
1:A:1258:ARG:HD3	1:A:1338:GLU:OE2	2.19	0.41
2:H:63:LYS:HB2	2:H:125:ASN:ND2	2.36	0.41
1:A:1732:THR:CG2	1:A:1736:LYS:HB2	2.36	0.41
2:B:1938:GLY:O	2:B:1939:HIS:HB2	2.20	0.41
2:H:1856:ALA:O	2:H:1857:ILE:HG12	2.20	0.41
2:E:393:LEU:HD21	2:E:418:ASN:CG	2.40	0.41
2:E:1912:ASN:C	2:E:1913:VAL:HG22	2.40	0.41
1:D:922:VAL:HG12	1:D:922:VAL:O	2.20	0.41
2:E:1923:ASP:O	2:E:1924:ILE:O	2.39	0.41
1:G:1491:ARG:NH1	1:G:1495:ASN:ND2	2.69	0.41
1:A:1491:ARG:NH1	1:A:1495:ASN:ND2	2.68	0.41
1:D:884:ILE:HB	1:D:885:ALA:H	1.69	0.41
1:A:942:LYS:O	1:A:943:LEU:C	2.58	0.41
2:H:373:GLY:HA2	2:H:519:ASN:CG	2.39	0.41
2:B:1893:VAL:C	2:B:1894:GLU:O	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1336:UNK:O	2:H:1337:UNK:C	2.68	0.41
1:G:933:VAL:HA	1:G:934:PRO:HD3	1.64	0.41
1:G:419:UNK:C	1:G:421:UNK:H	2.33	0.41
1:D:994:GLU:O	1:D:995:LEU:O	2.38	0.41
2:E:1012:UNK:O	2:E:1013:UNK:O	2.39	0.41
2:H:694:UNK:O	2:H:696:UNK:N	2.54	0.41
1:A:1162:GLU:O	1:A:1163:TYR:CD1	2.73	0.41
2:E:1455:UNK:O	2:E:1458:UNK:N	2.53	0.41
2:E:841:UNK:O	2:E:843:UNK:N	2.54	0.41
2:E:772:UNK:CB	2:E:776:UNK:O	2.68	0.41
3:I:26:UNK:O	3:I:30:UNK:N	2.53	0.41
2:H:357:ASN:O	2:H:360:LEU:N	2.53	0.41
2:E:1799:PRO:O	2:E:1800:ALA:C	2.58	0.41
1:G:886:GLU:O	1:G:888:ILE:N	2.54	0.41
1:A:458:UNK:HA	1:A:1631:LEU:CD2	2.50	0.41
1:D:1262:LYS:NZ	1:D:1262:LYS:HB3	2.36	0.41
2:E:191:SER:O	2:E:194:THR:HB	2.21	0.41
1:D:1168:LEU:CG	1:D:1169:LYS:H	2.34	0.41
1:G:1428:THR:HG22	1:G:1428:THR:O	2.21	0.41
1:G:1573:ILE:HG23	1:G:1624:VAL:HG11	2.01	0.41
1:A:1117:GLU:O	1:A:1118:LYS:C	2.55	0.41
1:A:1220:VAL:C	1:A:1222:ALA:N	2.74	0.41
1:A:1642:THR:CA	1:A:1652:GLN:OE1	2.68	0.41
1:A:797:THR:HA	1:A:800:LEU:HD23	2.02	0.41
1:A:852:ARG:C	1:A:854:HIS:N	2.72	0.41
1:D:1118:LYS:O	1:D:1119:LYS:C	2.59	0.41
1:D:1232:TYR:O	1:D:1235:TYR:HD2	2.03	0.41
1:D:1246:CYS:H	1:D:1328:ILE:HG23	1.86	0.41
1:D:1358:HIS:HB3	1:D:1359:GLY:H	1.58	0.41
1:D:1704:ALA:CB	1:D:1705:PRO:CD	2.96	0.41
1:D:819:PRO:HB3	1:D:861:GLN:N	2.36	0.41
1:D:824:LEU:HD13	1:D:846:LEU:HD22	2.03	0.41
1:D:839:TYR:HE1	1:D:843:LYS:CE	2.29	0.41
1:D:853:TRP:CD1	1:D:864:VAL:HG23	2.56	0.41
1:D:872:THR:O	1:D:873:ARG:O	2.38	0.41
1:D:996:LYS:HZ1	1:D:1400:ILE:CG1	2.33	0.41
2:H:488:VAL:O	2:H:490:TRP:N	2.53	0.41
2:E:259:THR:C	2:E:261:GLY:N	2.74	0.41
2:B:248:HIS:O	2:B:251:VAL:N	2.54	0.41
2:B:529:VAL:CG1	2:B:530:ALA:N	2.73	0.41
2:E:1751:ILE:O	2:E:1751:ILE:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1687:ALA:O	2:B:1688:GLN:O	2.39	0.41
2:B:1789:PHE:CZ	2:B:1798:ILE:HG13	2.55	0.41
2:H:1695:ASP:OD2	2:H:1707:LEU:N	2.54	0.41
1:A:1341:PHE:C	1:A:1343:PHE:O	2.59	0.41
1:G:451:UNK:C	1:G:453:UNK:N	2.82	0.41
2:E:1871:LEU:CD2	2:E:1872:GLN:N	2.83	0.41
2:B:91:PHE:C	2:B:93:ASN:N	2.74	0.41
2:E:173:LEU:HD22	2:E:219:LEU:HD21	2.02	0.41
1:D:468:UNK:CB	1:D:523:UNK:CB	2.99	0.41
1:D:491:UNK:O	1:D:493:UNK:N	2.54	0.41
2:E:1628:UNK:O	2:E:1629:UNK:C	2.67	0.41
2:E:649:UNK:O	2:E:650:UNK:C	2.68	0.41
2:B:647:UNK:O	2:B:648:UNK:C	2.69	0.41
2:E:4:TYR:HD1	2:E:5:SER:N	2.15	0.41
2:H:862:UNK:O	2:H:865:UNK:CB	2.69	0.41
2:B:1367:UNK:O	2:B:1369:UNK:N	2.54	0.41
2:E:357:ASN:O	2:E:360:LEU:N	2.54	0.41
1:G:567:UNK:C	1:G:569:UNK:N	2.82	0.41
2:B:208:VAL:CG1	2:B:208:VAL:O	2.69	0.41
2:E:1230:UNK:O	2:E:1231:UNK:CB	2.68	0.41
2:H:1935:GLU:C	2:H:1937:GLU:N	2.72	0.41
1:A:615:UNK:C	1:A:617:UNK:N	2.83	0.41
2:E:1935:GLU:C	2:E:1937:GLU:N	2.74	0.41
2:B:1318:UNK:CB	2:B:1366:UNK:O	2.69	0.41
1:A:1128:GLU:HB2	1:A:1177:LYS:HG2	2.02	0.41
1:D:1148:HIS:NE2	1:D:1153:ASP:HB2	2.36	0.41
1:G:1089:VAL:C	1:G:1091:ALA:H	2.23	0.41
1:G:1226:SER:O	1:G:1226:SER:OG	2.37	0.41
1:G:1248:GLY:CA	1:G:1330:GLY:HA2	2.49	0.41
1:G:1612:ASP:O	1:G:1613:ASN:O	2.39	0.41
1:G:1553:GLU:OE1	1:G:1644:PHE:CE2	2.73	0.41
1:G:1021:VAL:HG21	1:G:1597:LEU:HD11	2.03	0.41
1:G:1067:LEU:C	1:G:1069:GLY:N	2.74	0.41
1:G:1286:TRP:C	1:G:1288:ASN:H	2.24	0.41
1:G:1629:LYS:O	1:G:1630:THR:O	2.38	0.41
1:G:1062:TYR:CE2	1:G:1693:ILE:HB	2.56	0.41
1:G:826:MET:HB3	1:G:826:MET:HE2	1.84	0.41
1:A:1036:ARG:HE	1:A:1036:ARG:C	2.24	0.41
1:A:1067:LEU:CG	1:A:1074:GLY:H	2.33	0.41
1:A:1629:LYS:O	1:A:1630:THR:O	2.39	0.41
1:A:1701:LYS:HE3	1:A:1701:LYS:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1706:TYR:C	1:A:1707:THR:HG22	2.40	0.41
1:A:703:VAL:CG1	1:A:704:VAL:N	2.83	0.41
1:A:745:VAL:O	1:A:748:LEU:N	2.53	0.41
1:A:860:ASN:HB2	1:A:861:GLN:NE2	2.35	0.41
1:A:1205:ILE:HG22	1:A:1213:LEU:HD11	2.03	0.41
1:A:1213:LEU:HA	1:A:1213:LEU:HD22	1.72	0.41
1:A:1321:SER:O	1:A:1323:LYS:N	2.43	0.41
1:A:1353:LEU:O	1:A:1355:GLU:N	2.54	0.41
1:A:1575:VAL:O	1:A:1576:PHE:CB	2.69	0.41
1:A:1688:PHE:CD2	1:A:1689:HIS:N	2.89	0.41
1:A:1706:TYR:HB3	1:A:1714:VAL:HG21	2.03	0.41
1:A:741:SER:O	1:A:744:ASP:OD1	2.38	0.41
1:A:743:GLN:C	1:A:745:VAL:N	2.74	0.41
1:A:747:ALA:CA	1:A:750:GLU:HB3	2.49	0.41
1:D:1189:ILE:CB	1:D:1190:PRO:CD	2.99	0.41
1:D:1213:LEU:O	1:D:1216:LEU:N	2.53	0.41
1:D:1407:ALA:O	1:D:1408:ALA:O	2.39	0.41
1:D:1416:ARG:HG3	1:D:1416:ARG:HH11	1.84	0.41
1:D:1557:ILE:CA	1:D:1560:MET:HB3	2.50	0.41
1:D:1333:ASP:HB3	1:D:1585:LYS:O	2.20	0.41
1:D:1646:PHE:O	1:D:1648:GLN:N	2.54	0.41
1:D:610:UNK:O	1:D:611:UNK:C	2.69	0.41
1:D:852:ARG:O	1:D:853:TRP:C	2.58	0.41
1:D:1047:LEU:O	1:D:1048:GLU:C	2.59	0.41
1:D:1063:HIS:HD2	1:D:1065:GLY:CA	2.34	0.41
1:D:1198:TYR:CE2	1:D:1217:VAL:CG1	3.04	0.41
1:D:1248:GLY:O	1:D:1249:SER:HB3	2.20	0.41
1:D:1431:GLU:HA	1:D:1521:PRO:CB	2.49	0.41
1:D:792:HIS:ND1	1:D:796:LEU:HD21	2.36	0.41
1:D:796:LEU:CG	1:D:797:THR:H	2.30	0.41
1:D:873:ARG:CG	1:D:874:GLY:N	2.82	0.41
1:D:1456:GLU:CA	1:D:1459:ILE:HG13	2.51	0.41
1:A:1008:GLU:O	1:A:1010:GLU:N	2.54	0.41
1:A:1462:TRP:CE3	1:A:1463:VAL:N	2.89	0.41
2:H:209:PHE:CE1	2:H:235:PRO:HB2	2.56	0.41
2:H:306:ILE:H	2:H:306:ILE:HG13	1.73	0.41
2:H:504:PHE:O	2:H:505:GLY:C	2.59	0.41
2:E:131:ILE:HD13	2:E:182:VAL:CG1	2.45	0.41
2:E:460:TYR:CD1	2:E:496:PHE:HE2	2.39	0.41
2:E:504:PHE:O	2:E:505:GLY:C	2.59	0.41
2:E:444:VAL:CA	2:E:449:SER:OG	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1463:VAL:O	1:G:1466:GLU:N	2.54	0.41
2:B:182:VAL:O	2:B:184:VAL:N	2.48	0.41
2:B:259:THR:H	2:B:262:GLU:HB2	1.85	0.41
2:B:427:PHE:N	2:B:427:PHE:CD1	2.89	0.41
2:E:1694:ALA:O	2:E:1698:PHE:HB2	2.21	0.41
2:E:1812:TYR:C	2:E:1814:ALA:N	2.72	0.41
2:E:1698:PHE:O	2:E:1702:TYR:N	2.49	0.41
2:E:1713:ASN:O	2:E:1715:VAL:N	2.52	0.41
2:E:536:ASN:O	2:E:537:PRO:C	2.59	0.41
2:B:1738:PHE:HB2	2:B:1755:ILE:CB	2.50	0.41
2:B:1672:GLN:HB3	2:B:1781:LEU:CD1	2.49	0.41
2:B:1680:LEU:CD2	2:B:1680:LEU:C	2.89	0.41
2:B:1753:LYS:C	2:B:1755:ILE:N	2.73	0.41
2:H:1731:GLU:CA	2:H:1735:ALA:HB3	2.50	0.41
2:H:1742:VAL:CG2	2:H:1751:ILE:HD11	2.51	0.41
1:A:1258:ARG:NH1	1:A:1258:ARG:CG	2.84	0.41
2:H:56:THR:O	2:H:59:GLU:CB	2.68	0.41
2:H:71:LEU:HD12	2:H:76:LYS:HZ3	1.86	0.41
2:B:56:THR:CA	2:B:59:GLU:HG2	2.51	0.41
1:G:841:GLU:H	1:G:841:GLU:CD	2.24	0.41
1:G:761:LEU:HD11	1:G:763:TRP:CD2	2.55	0.41
1:G:792:HIS:HA	1:G:842:SER:OG	2.19	0.41
1:G:799:ILE:O	1:G:800:LEU:C	2.60	0.41
1:A:753:TYR:CG	1:A:809:GLN:CG	3.04	0.41
1:G:1719:LEU:CB	1:G:1739:GLN:HA	2.51	0.41
2:H:1855:ILE:HG13	2:H:1856:ALA:N	2.36	0.41
1:G:1665:ILE:HD12	1:G:1669:ARG:CB	2.51	0.41
1:A:999:LYS:C	1:A:1001:VAL:H	2.21	0.41
2:E:1929:LYS:HE2	2:E:1929:LYS:N	2.36	0.41
2:E:956:UNK:O	2:E:959:UNK:N	2.54	0.41
1:G:935:GLU:O	1:G:936:LEU:C	2.60	0.41
1:D:1491:ARG:NH1	1:D:1495:ASN:ND2	2.68	0.41
1:D:1491:ARG:HH12	1:D:1495:ASN:ND2	2.19	0.41
2:B:2036:UNK:O	2:B:2039:UNK:N	2.53	0.41
2:H:620:UNK:O	2:H:623:UNK:N	2.54	0.41
2:E:324:LEU:O	2:E:324:LEU:HD12	2.21	0.41
2:H:1011:UNK:O	2:H:1012:UNK:CB	2.68	0.41
2:H:1320:UNK:C	2:H:1322:UNK:N	2.78	0.41
2:E:1011:UNK:O	2:E:1012:UNK:CB	2.69	0.41
2:H:675:UNK:O	2:H:676:UNK:C	2.69	0.41
2:H:744:UNK:O	2:H:746:UNK:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:653:UNK:O	2:E:655:UNK:N	2.54	0.41
2:B:1628:UNK:O	2:B:1629:UNK:C	2.68	0.41
2:B:4:TYR:OH	2:B:30:ALA:HA	2.21	0.41
2:B:1591:UNK:O	2:B:1594:UNK:N	2.54	0.41
2:H:646:UNK:O	2:H:647:UNK:C	2.69	0.41
1:D:1631:LEU:HB3	1:D:1634:ASP:HB2	2.02	0.41
2:B:948:UNK:O	2:B:949:UNK:C	2.67	0.41
2:E:1972:UNK:O	2:E:1975:UNK:O	2.39	0.41
2:E:601:UNK:C	2:E:603:UNK:N	2.80	0.41
2:E:1307:UNK:CB	2:H:317:THR:HG23	2.51	0.41
1:G:536:UNK:O	1:G:537:UNK:C	2.68	0.41
2:H:742:UNK:O	2:H:745:UNK:N	2.53	0.41
1:A:1513:TYR:CD1	1:A:1513:TYR:N	2.81	0.41
2:E:355:LYS:HA	2:E:358:SER:OG	2.20	0.41
2:E:982:UNK:C	2:E:983:UNK:O	2.69	0.41
1:A:891:MET:O	1:A:891:MET:HG3	2.21	0.41
2:B:355:LYS:O	2:B:358:SER:HB2	2.20	0.41
2:H:191:SER:O	2:H:194:THR:HB	2.21	0.41
1:D:1072:TYR:N	1:D:1072:TYR:CD1	2.89	0.41
1:D:1151:LYS:N	1:D:1151:LYS:HD2	2.33	0.41
1:G:1229:THR:HG23	1:G:1229:THR:O	2.21	0.41
1:G:1391:ASP:C	1:G:1393:ALA:N	2.74	0.41
1:G:1393:ALA:C	1:G:1395:LYS:N	2.73	0.41
1:G:1425:ILE:HG21	1:G:1648:GLN:OE1	2.20	0.41
1:G:1614:VAL:O	1:G:1615:ASP:CB	2.53	0.41
1:A:1033:ALA:O	1:A:1034:ARG:C	2.59	0.41
1:A:1089:VAL:HG23	1:A:1091:ALA:HB3	2.03	0.41
1:A:1332:TYR:HA	1:A:1382:ALA:HA	2.03	0.41
1:A:1393:ALA:C	1:A:1395:LYS:N	2.74	0.41
1:A:1433:HIS:NE2	1:A:1523:ARG:NE	2.68	0.41
1:A:1574:GLY:O	1:A:1624:VAL:HG11	2.21	0.41
1:A:1728:SER:O	1:A:1729:GLY:C	2.58	0.41
1:A:691:GLU:O	1:A:692:VAL:C	2.57	0.41
1:A:791:ALA:O	1:A:792:HIS:C	2.60	0.41
1:A:996:LYS:HZ1	1:A:1400:ILE:CG1	2.34	0.41
1:D:1275:LEU:HD13	1:D:1275:LEU:O	2.21	0.41
1:D:1286:TRP:C	1:D:1288:ASN:H	2.23	0.41
1:D:1536:LEU:HD23	1:D:1654:ILE:CD1	2.50	0.41
1:D:703:VAL:CG1	1:D:704:VAL:N	2.82	0.41
1:D:724:LYS:C	1:D:725:TYR:HD1	2.24	0.41
1:D:747:ALA:O	1:D:748:LEU:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:797:THR:HG22	1:D:798:ASN:H	1.83	0.41
1:D:845:SER:O	1:D:847:GLU:N	2.54	0.41
1:D:1018:VAL:HG13	1:D:1018:VAL:O	2.21	0.41
1:D:1502:ARG:C	1:D:1504:ALA:N	2.71	0.41
2:H:242:GLY:O	2:H:246:LEU:HG	2.21	0.41
2:H:234:ILE:CD1	2:H:310:CYS:HB2	2.51	0.41
2:H:429:SER:OG	2:H:432:LEU:HB3	2.21	0.41
2:H:100:ASP:CB	2:H:546:UNK:CB	2.99	0.41
2:E:149:VAL:O	2:E:266:TYR:HD2	2.03	0.41
2:E:161:GLY:HA2	2:E:512:LEU:CD1	2.50	0.41
1:G:1015:LEU:O	1:G:1016:GLU:HB3	2.21	0.41
2:B:490:TRP:HZ2	2:B:516:THR:HG1	1.67	0.41
2:E:1777:THR:HG22	2:E:1781:LEU:HD12	2.02	0.41
2:E:1789:PHE:CZ	2:E:1798:ILE:HG13	2.55	0.41
2:E:1825:GLU:HB2	2:E:1826:SER:H	1.55	0.41
2:H:1738:PHE:HB2	2:H:1755:ILE:CB	2.50	0.41
2:H:1720:HIS:CB	2:H:1762:TYR:O	2.68	0.41
2:H:1828:VAL:CG1	2:H:1829:GLU:N	2.82	0.41
2:H:25:ALA:HB1	2:H:65:LEU:HD21	2.01	0.41
2:B:56:THR:O	2:B:59:GLU:CB	2.69	0.41
2:B:61:VAL:HG12	2:B:65:LEU:CD1	2.50	0.41
2:E:60:LEU:CD1	2:E:60:LEU:H	2.34	0.41
2:E:77:VAL:CG1	2:E:78:GLY:N	2.82	0.41
1:A:1737:ASN:OD1	1:A:1739:GLN:N	2.51	0.41
2:E:1857:ILE:HG23	2:E:1949:UNK:CB	2.51	0.41
2:B:1931:LEU:O	2:B:1934:GLU:HB3	2.20	0.41
2:B:1864:ALA:N	2:B:1866:PHE:HB2	2.36	0.41
2:B:1889:VAL:O	2:B:1890:ASN:HB2	2.21	0.41
2:B:387:TYR:HA	2:B:390:ASN:ND2	2.20	0.41
2:E:1874:VAL:CG2	2:E:1928:GLN:HE22	2.28	0.41
2:E:1931:LEU:O	2:E:1934:GLU:HB3	2.21	0.41
2:H:1904:LEU:O	2:H:1908:ASP:HB2	2.21	0.41
2:H:82:GLN:O	2:H:85:ASN:N	2.53	0.41
1:G:1491:ARG:HH12	1:G:1495:ASN:ND2	2.19	0.41
1:D:631:UNK:C	1:D:632:UNK:O	2.68	0.41
1:G:495:UNK:O	1:G:496:UNK:C	2.69	0.41
2:E:646:UNK:C	2:E:648:UNK:N	2.84	0.41
2:B:1594:UNK:C	2:B:1596:UNK:N	2.83	0.41
2:E:4:TYR:OH	2:E:30:ALA:HA	2.20	0.41
2:E:2006:UNK:HA	2:E:2009:UNK:O	2.20	0.41
2:H:1453:UNK:HA	2:H:1505:UNK:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1432:UNK:O	2:E:1433:UNK:CB	2.69	0.41
2:H:1972:UNK:O	2:H:1975:UNK:O	2.39	0.41
2:H:232:LEU:HD23	2:H:232:LEU:C	2.41	0.41
2:B:1969:UNK:O	2:B:1973:UNK:CB	2.69	0.41
2:H:285:GLU:HB3	2:H:454:ASP:O	2.21	0.41
1:G:1674:VAL:O	1:G:1674:VAL:HG12	2.21	0.41
1:G:209:UNK:O	1:G:213:UNK:CB	2.68	0.41
1:D:298:UNK:O	1:D:299:UNK:C	2.69	0.41
1:A:1156:GLU:HB2	1:A:1169:LYS:NZ	2.36	0.40
1:A:1156:GLU:HG2	1:A:1170:GLY:N	2.35	0.40
1:G:1024:PHE:HD2	1:G:1594:ASN:OD1	2.04	0.40
1:G:1367:ARG:O	1:G:1368:PRO:C	2.59	0.40
1:G:1585:LYS:HB3	1:G:1585:LYS:HE3	1.77	0.40
1:G:1574:GLY:O	1:G:1624:VAL:HG11	2.21	0.40
1:G:1639:VAL:CG2	1:G:1655:VAL:HG12	2.51	0.40
1:G:1691:GLY:C	1:G:1697:LEU:CD1	2.88	0.40
1:G:691:GLU:O	1:G:692:VAL:C	2.59	0.40
1:A:1047:LEU:O	1:A:1048:GLU:C	2.59	0.40
1:A:1094:GLU:C	1:A:1095:THR:O	2.58	0.40
1:A:1193:TRP:HB2	1:A:1194:ASN:H	1.38	0.40
1:A:1216:LEU:HD11	1:A:1290:LEU:HD22	2.03	0.40
1:A:1248:GLY:HA3	1:A:1332:TYR:OH	2.22	0.40
1:A:1419:PRO:O	1:A:1420:ALA:CB	2.68	0.40
1:A:1519:ILE:HD11	1:A:1524:GLY:CA	2.51	0.40
1:A:1527:ALA:O	1:A:1529:TYR:N	2.54	0.40
1:A:869:ILE:HD13	1:A:905:LEU:HD21	2.03	0.40
1:D:1002:LYS:C	1:D:1004:ILE:H	2.25	0.40
1:D:1080:THR:OG1	1:D:1083:PRO:HG3	2.21	0.40
1:D:1277:GLU:CA	1:D:1277:GLU:OE2	2.68	0.40
1:D:1304:ALA:O	1:D:1305:CYS:CB	2.69	0.40
1:D:1319:ILE:O	1:D:1320:LEU:O	2.39	0.40
1:D:1580:LEU:O	1:D:1581:THR:OG1	2.34	0.40
1:D:1062:TYR:CE2	1:D:1693:ILE:HB	2.56	0.40
1:D:997:PRO:O	1:D:1002:LYS:HE3	2.20	0.40
2:H:145:LEU:HD22	2:H:550:UNK:O	2.22	0.40
2:H:144:ALA:HA	2:H:147:ARG:HG3	2.02	0.40
2:H:346:GLN:C	2:H:348:GLN:N	2.74	0.40
2:H:354:ASN:O	2:H:355:LYS:C	2.59	0.40
2:H:517:HIS:C	2:H:517:HIS:CD2	2.94	0.40
2:E:195:LEU:HD22	2:E:304:PHE:HD1	1.86	0.40
1:G:1015:LEU:HD23	1:G:1018:VAL:CG1	2.48	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1462:TRP:CE3	1:G:1463:VAL:N	2.88	0.40
2:E:1674:GLN:HB3	2:E:1675:GLY:H	1.69	0.40
2:E:1716:ASN:C	2:E:1718:THR:N	2.73	0.40
2:E:1771:LEU:HA	2:E:1771:LEU:HD12	1.86	0.40
2:B:1742:VAL:CG1	2:B:1743:ASP:N	2.85	0.40
2:H:1674:GLN:O	2:H:1675:GLY:C	2.58	0.40
2:H:1684:SER:C	2:H:1686:ALA:N	2.73	0.40
2:H:1674:GLN:HE21	2:H:1712:ASN:HA	1.84	0.40
2:H:1807:HIS:O	2:H:1808:SER:HB3	2.21	0.40
2:H:1822:MET:HE1	2:H:1830:VAL:CG1	2.51	0.40
2:B:9:LEU:HD11	2:B:55:THR:HG23	2.04	0.40
2:E:1905:ARG:HA	2:E:1908:ASP:HB3	2.03	0.40
2:H:1899:VAL:O	2:H:1903:ASP:CB	2.62	0.40
2:E:101:ILE:HD13	2:E:101:ILE:HA	1.87	0.40
1:G:1493:ILE:O	1:G:1494:HIS:C	2.59	0.40
2:H:1853:GLY:O	2:H:1854:MET:CB	2.68	0.40
1:A:631:UNK:C	1:A:632:UNK:O	2.67	0.40
1:D:632:UNK:CB	1:D:894:ARG:HH22	2.35	0.40
1:A:468:UNK:CB	1:A:523:UNK:CB	2.99	0.40
2:E:2033:UNK:O	2:E:2034:UNK:C	2.69	0.40
2:H:597:UNK:O	2:H:600:UNK:N	2.54	0.40
2:B:321:PRO:C	2:B:323:ILE:H	2.24	0.40
2:E:681:UNK:O	2:E:685:UNK:N	2.54	0.40
1:G:412:UNK:O	1:G:415:UNK:N	2.54	0.40
2:B:1477:UNK:C	2:B:1484:UNK:CB	2.99	0.40
2:H:1582:UNK:O	2:H:1583:UNK:CB	2.69	0.40
2:E:1758:HIS:O	2:E:1759:SER:C	2.60	0.40
2:H:962:UNK:C	2:H:964:UNK:N	2.81	0.40
1:A:1860:UNK:C	1:A:1862:UNK:N	2.82	0.40
2:B:911:UNK:O	2:B:912:UNK:CB	2.68	0.40
1:G:1020:VAL:HG12	1:G:1021:VAL:N	2.35	0.40
1:G:1047:LEU:O	1:G:1048:GLU:C	2.59	0.40
1:G:1214:PHE:O	1:G:1215:VAL:C	2.57	0.40
1:G:1251:MET:N	1:G:1333:ASP:OD2	2.46	0.40
1:G:1712:GLU:O	1:G:1715:TYR:HB2	2.21	0.40
1:G:860:ASN:HB2	1:G:861:GLN:HE22	1.87	0.40
1:A:1210:PRO:HB2	1:A:1211:ILE:H	1.53	0.40
1:A:1230:ASP:C	1:A:1232:TYR:N	2.75	0.40
1:A:1257:LEU:C	1:A:1257:LEU:CD2	2.89	0.40
1:A:1108:PRO:CB	1:A:1362:PRO:HB2	2.51	0.40
1:A:1522:LEU:N	1:A:1522:LEU:HD12	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1606:PRO:CD	1:A:1607:GLY:N	2.84	0.40
1:A:737:PHE:CD1	1:A:748:LEU:CD2	3.04	0.40
1:A:681:THR:CG2	1:A:771:PHE:O	2.68	0.40
1:A:797:THR:O	1:A:798:ASN:C	2.59	0.40
1:D:1064:ASN:CG	1:D:1069:GLY:HA3	2.41	0.40
1:D:1192:GLY:C	1:D:1193:TRP:CG	2.91	0.40
1:D:1211:ILE:HG13	1:D:1283:MET:SD	2.60	0.40
1:D:1211:ILE:O	1:D:1214:PHE:N	2.53	0.40
1:D:1351:ASN:O	1:D:1352:THR:C	2.58	0.40
1:D:834:GLY:O	1:D:836:ASP:N	2.53	0.40
1:D:909:LEU:CG	1:D:909:LEU:O	2.69	0.40
1:A:1457:ALA:O	1:A:1458:GLN:C	2.60	0.40
2:H:248:HIS:O	2:H:251:VAL:N	2.54	0.40
2:H:234:ILE:HG12	2:H:307:GLY:CA	2.51	0.40
2:H:344:LEU:HD22	2:H:348:GLN:OE1	2.21	0.40
2:H:274:SER:HB3	2:H:428:HIS:NE2	2.36	0.40
2:H:484:ILE:O	2:H:485:ARG:HB2	2.21	0.40
2:E:255:LEU:C	2:E:257:GLY:N	2.75	0.40
2:E:469:ARG:HH11	2:E:475:ILE:HD11	1.85	0.40
2:B:149:VAL:HG21	2:B:156:LEU:N	2.37	0.40
2:B:239:PRO:O	2:B:243:VAL:HG23	2.22	0.40
2:B:368:ILE:HA	2:B:379:VAL:HG22	2.03	0.40
2:B:382:PRO:O	2:B:383:PRO:C	2.59	0.40
2:E:1689:ASP:HA	2:E:1692:ASN:HD22	1.86	0.40
2:E:1706:ILE:HG22	2:E:1710:VAL:HG23	2.04	0.40
1:A:1338:GLU:H	1:A:1338:GLU:CD	2.24	0.40
2:B:1:MET:N	2:B:11:LEU:O	2.46	0.40
1:G:733:ILE:HD12	1:G:761:LEU:HD13	2.03	0.40
1:G:752:ILE:HG12	1:G:761:LEU:HD23	2.02	0.40
2:E:1:MET:N	2:E:11:LEU:O	2.45	0.40
2:E:22:VAL:H	2:E:23:PRO:HD2	1.86	0.40
1:D:753:TYR:CG	1:D:809:GLN:CG	3.05	0.40
2:E:1855:ILE:HB	2:E:1950:UNK:O	2.21	0.40
1:D:1667:GLU:O	1:D:1669:ARG:N	2.53	0.40
2:E:1903:ASP:OD2	2:E:1907:LEU:HD21	2.21	0.40
2:H:1897:GLN:HG3	2:H:1898:TYR:N	2.36	0.40
2:H:126:TYR:O	2:H:127:ILE:C	2.59	0.40
2:H:1332:UNK:O	2:H:1334:UNK:N	2.54	0.40
2:E:1012:UNK:O	2:E:1015:UNK:CB	2.69	0.40
2:H:4:TYR:OH	2:H:30:ALA:HA	2.21	0.40
2:B:1047:UNK:O	2:B:1048:UNK:C	2.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1983:UNK:O	2:E:1985:UNK:N	2.55	0.40
2:H:357:ASN:HB3	2:H:365:GLN:NE2	2.36	0.40
1:D:580:UNK:C	1:D:582:UNK:N	2.83	0.40
1:G:625:UNK:HA	1:G:628:UNK:CB	2.51	0.40
2:H:726:UNK:CB	2:H:786:UNK:O	2.68	0.40
2:E:1323:UNK:O	2:E:1327:UNK:N	2.54	0.40
1:A:209:UNK:O	1:A:213:UNK:CB	2.70	0.40
2:H:1364:UNK:O	2:H:1365:UNK:O	2.40	0.40
1:D:1139:GLU:OE1	1:D:1139:GLU:N	2.53	0.40
1:G:1198:TYR:HD2	1:G:1217:VAL:HG22	1.86	0.40
1:G:1216:LEU:HD11	1:G:1290:LEU:HD22	2.03	0.40
1:G:1246:CYS:HB3	1:G:1328:ILE:CG2	2.27	0.40
1:G:1249:SER:HB3	1:G:1301:PRO:CD	2.49	0.40
1:G:1256:ALA:HB1	1:G:1274:ILE:HD11	2.02	0.40
1:G:852:ARG:O	1:G:853:TRP:C	2.60	0.40
1:A:1103:ILE:O	1:A:1106:ILE:CG1	2.70	0.40
1:A:1367:ARG:O	1:A:1368:PRO:C	2.60	0.40
1:A:1417:SER:O	1:A:1418:VAL:HG22	2.21	0.40
1:A:1040:GLU:O	1:A:1606:PRO:HG3	2.21	0.40
1:A:1406:MET:HB3	1:A:1654:ILE:HG22	2.04	0.40
1:A:1062:TYR:CE2	1:A:1693:ILE:HB	2.57	0.40
1:A:858:TRP:HA	1:A:861:GLN:HE21	1.86	0.40
1:D:1088:ASP:OD2	1:D:1097:ILE:HG21	2.21	0.40
1:D:1089:VAL:C	1:D:1091:ALA:H	2.25	0.40
1:D:1328:ILE:HA	1:D:1386:ILE:HA	2.03	0.40
1:D:1422:GLY:HA2	1:D:1425:ILE:CB	2.47	0.40
1:D:1707:THR:HG23	1:D:1710:LEU:CD1	2.52	0.40
1:D:901:MET:CE	1:D:901:MET:C	2.90	0.40
1:D:1453:VAL:O	1:D:1454:THR:O	2.39	0.40
2:H:259:THR:H	2:H:262:GLU:HG3	1.85	0.40
2:H:294:VAL:O	2:H:297:ARG:HB3	2.22	0.40
2:H:529:VAL:CG1	2:H:530:ALA:N	2.75	0.40
2:E:215:ILE:HG13	2:E:215:ILE:H	1.74	0.40
1:G:1456:GLU:CA	1:G:1459:ILE:HG13	2.51	0.40
2:B:159:ILE:HB	2:B:503:ASP:CG	2.40	0.40
2:B:195:LEU:HD22	2:B:304:PHE:HD1	1.85	0.40
2:B:346:GLN:C	2:B:348:GLN:N	2.74	0.40
2:B:99:ASN:O	2:B:100:ASP:CB	2.69	0.40
2:E:1695:ASP:OD2	2:E:1705:SER:HB2	2.20	0.40
2:B:1756:ASN:OD1	2:B:1759:SER:HB2	2.21	0.40
2:B:1789:PHE:HE1	2:B:1798:ILE:HG13	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1694:ALA:O	2:H:1698:PHE:HB2	2.21	0.40
2:H:1702:TYR:O	2:H:1703:GLY:C	2.59	0.40
2:H:1723:GLY:O	2:H:1724:GLU:O	2.40	0.40
1:A:1258:ARG:CG	1:A:1258:ARG:HH11	2.23	0.40
2:H:216:LEU:HB3	2:H:217:GLU:H	1.68	0.40
2:B:2:ASP:OD2	2:B:2:ASP:N	2.53	0.40
2:B:317:THR:HG23	2:H:1307:UNK:CB	2.51	0.40
2:E:408:PRO:O	2:E:410:SER:N	2.55	0.40
2:E:416:PHE:HB3	2:E:418:ASN:ND2	2.37	0.40
2:H:1905:ARG:HA	2:H:1908:ASP:HB3	2.03	0.40
2:H:1912:ASN:C	2:H:1913:VAL:HG22	2.41	0.40
2:H:1333:UNK:O	2:H:1334:UNK:O	2.40	0.40
2:E:895:UNK:CB	2:E:898:UNK:CB	3.00	0.40
2:E:1295:UNK:O	2:E:1297:UNK:N	2.54	0.40
2:H:1295:UNK:O	2:H:1297:UNK:N	2.53	0.40
2:B:646:UNK:O	2:B:647:UNK:C	2.69	0.40
2:E:27:PHE:HA	2:E:30:ALA:HB3	2.03	0.40
2:E:946:UNK:C	2:E:948:UNK:N	2.83	0.40
2:B:1067:UNK:C	2:B:1069:UNK:N	2.84	0.40
2:B:698:UNK:H	2:B:702:UNK:CB	2.34	0.40
2:H:1844:ARG:CG	2:H:1850:SER:HA	2.50	0.40
1:G:622:UNK:O	1:G:624:UNK:N	2.53	0.40
2:E:1360:UNK:O	2:E:1362:UNK:N	2.54	0.40
1:A:1416:ARG:HG3	1:A:1416:ARG:HH11	1.87	0.40
1:D:891:MET:HG3	1:D:891:MET:O	2.22	0.40
2:B:980:UNK:C	2:B:982:UNK:N	2.84	0.40
2:B:982:UNK:C	2:B:983:UNK:O	2.68	0.40
2:H:1373:UNK:O	2:H:1374:UNK:CB	2.68	0.40
1:A:1139:GLU:N	1:A:1139:GLU:OE1	2.54	0.40
1:G:1088:ASP:OD2	1:G:1097:ILE:HG21	2.21	0.40
1:G:1240:VAL:HG13	1:G:1242:GLU:H	1.86	0.40
1:G:1414:ILE:O	1:G:1414:ILE:HG22	2.22	0.40
1:G:1606:PRO:CD	1:G:1607:GLY:H	2.34	0.40
1:G:1637:ARG:O	1:G:1656:VAL:HA	2.21	0.40
1:G:1692:MET:HG2	1:G:1692:MET:O	2.20	0.40
1:G:901:MET:HE3	1:G:905:LEU:CD2	2.50	0.40
1:G:916:LEU:HD12	1:G:916:LEU:O	2.22	0.40
1:A:1277:GLU:CA	1:A:1277:GLU:OE2	2.70	0.40
1:A:1403:ILE:CG2	1:A:1657:HIS:O	2.70	0.40
1:A:1555:ALA:HA	1:A:1558:ASN:CB	2.51	0.40
1:A:1002:LYS:CE	1:A:1670:TYR:OH	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:752:ILE:HG12	1:A:761:LEU:HD23	2.03	0.40
1:A:794:ILE:HA	1:A:798:ASN:HD22	1.86	0.40
1:A:850:PHE:CE2	1:A:864:VAL:HG12	2.56	0.40
1:A:901:MET:HE3	1:A:905:LEU:CD2	2.47	0.40
1:A:993:PRO:HG3	1:A:1681:GLU:CB	2.43	0.40
1:D:1029:PRO:HD2	1:D:1591:TRP:HH2	1.85	0.40
1:D:1036:ARG:O	1:D:1037:TRP:C	2.60	0.40
1:D:1040:GLU:O	1:D:1606:PRO:CG	2.70	0.40
1:D:1080:THR:HG1	1:D:1083:PRO:CG	2.35	0.40
1:D:1207:GLN:NE2	1:D:1277:GLU:OE1	2.50	0.40
1:D:1288:ASN:ND2	1:D:1292:ILE:O	2.55	0.40
1:D:1329:VAL:HB	1:D:1385:GLN:O	2.22	0.40
1:D:1531:LEU:O	1:D:1532:THR:O	2.39	0.40
1:D:1573:ILE:HG23	1:D:1624:VAL:HG11	2.02	0.40
1:D:1706:TYR:HB3	1:D:1714:VAL:HG21	2.04	0.40
1:D:826:MET:CE	1:D:847:GLU:HG3	2.45	0.40
1:D:904:ASN:HD22	1:D:904:ASN:H	1.66	0.40
2:H:241:ILE:CG2	2:H:275:GLN:NE2	2.67	0.40
2:H:455:ILE:O	2:H:456:GLN:O	2.40	0.40
2:H:372:ASN:HA	2:H:490:TRP:HB3	2.04	0.40
2:E:294:VAL:O	2:E:298:LYS:HG3	2.22	0.40
2:E:511:GLY:C	2:E:513:GLY:H	2.17	0.40
2:E:529:VAL:HG12	2:E:530:ALA:H	1.80	0.40
1:G:1457:ALA:O	1:G:1458:GLN:C	2.60	0.40
1:G:1472:LEU:C	1:G:1472:LEU:HD13	2.42	0.40
1:G:1504:ALA:C	1:G:1506:GLN:N	2.73	0.40
2:B:309:ARG:HD3	2:B:312:GLU:OE1	2.22	0.40
2:B:344:LEU:HD13	2:B:348:GLN:HB2	2.04	0.40
2:B:344:LEU:HD22	2:B:348:GLN:OE1	2.22	0.40
2:E:1742:VAL:CG2	2:E:1751:ILE:HD11	2.51	0.40
2:B:1807:HIS:O	2:B:1808:SER:HB3	2.20	0.40
2:B:1815:LEU:O	2:B:1821:VAL:HG13	2.21	0.40
2:H:170:PHE:C	2:H:172:GLU:H	2.25	0.40
2:B:37:PHE:O	2:B:41:LEU:HD11	2.22	0.40
1:G:737:PHE:CD1	1:G:748:LEU:CD2	3.04	0.40
2:E:77:VAL:HG12	2:E:78:GLY:H	1.86	0.40
1:A:810:LYS:C	1:A:812:ALA:N	2.72	0.40
2:E:1867:SER:CA	2:E:1870:ALA:HB3	2.47	0.40
2:B:1897:GLN:HG3	2:B:1898:TYR:N	2.37	0.40
2:B:1927:LEU:HD23	2:B:1927:LEU:HA	1.88	0.40
2:B:1928:GLN:C	2:B:1930:SER:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:415:LYS:C	2:E:416:PHE:HD1	2.25	0.40
2:E:1904:LEU:O	2:E:1908:ASP:HB2	2.21	0.40
2:H:1884:TRP:H	2:H:1892:ASN:CB	2.32	0.40
1:D:917:CYS:O	1:D:920:SER:O	2.39	0.40
2:B:91:PHE:HZ	2:B:101:ILE:HD11	1.82	0.40
1:A:1491:ARG:HH12	1:A:1495:ASN:ND2	2.19	0.40
2:E:926:UNK:O	2:E:929:UNK:N	2.55	0.40
1:G:644:UNK:CB	1:G:647:UNK:C	2.99	0.40
2:B:1020:UNK:O	2:B:1022:UNK:N	2.36	0.40
2:H:681:UNK:O	2:H:685:UNK:N	2.55	0.40
1:D:503:UNK:C	1:D:505:UNK:N	2.76	0.40
2:H:657:UNK:O	2:H:658:UNK:C	2.68	0.40
2:E:1477:UNK:C	2:E:1484:UNK:CB	2.99	0.40
2:B:772:UNK:CB	2:B:776:UNK:O	2.70	0.40
2:E:1067:UNK:C	2:E:1069:UNK:N	2.84	0.40
1:D:886:GLU:O	1:D:888:ILE:N	2.55	0.40
2:B:1550:UNK:O	2:B:1552:UNK:N	2.55	0.40
2:E:1922:ILE:O	2:E:1922:ILE:HG22	2.21	0.40
2:H:1671:SER:OG	3:I:22:UNK:CB	2.70	0.40
1:G:151:UNK:C	1:G:153:UNK:N	2.83	0.40
2:H:486:LEU:HA	2:H:487:PRO:HD3	1.89	0.40
2:B:711:UNK:O	2:B:712:UNK:CB	2.70	0.40
2:E:1594:UNK:C	2:E:1596:UNK:N	2.85	0.40
1:G:1154:ILE:O	1:G:1155:PHE:CG	2.75	0.40
1:A:1128:GLU:CB	1:A:1177:LYS:HE3	2.42	0.40
1:G:1041:ALA:CB	1:G:1042:PHE:CD1	3.05	0.40
1:G:1083:PRO:CG	1:G:1084:VAL:N	2.84	0.40
1:G:1109:GLU:OE1	1:G:1109:GLU:HA	2.21	0.40
1:G:1114:TYR:HD2	1:G:1115:ASN:HD21	1.69	0.40
1:G:1196:LYS:C	1:G:1197:THR:HG22	2.42	0.40
1:G:1349:THR:O	1:G:1375:GLY:HA3	2.21	0.40
1:G:916:LEU:O	1:G:919:LYS:HB2	2.21	0.40
1:A:1029:PRO:HA	1:A:1193:TRP:NE1	2.36	0.40
1:A:1080:THR:HG1	1:A:1083:PRO:CD	2.35	0.40
1:A:1308:SER:OG	1:A:1589:GLY:CA	2.70	0.40
1:A:1367:ARG:HB2	1:A:1370:THR:OG1	2.21	0.40
1:A:733:ILE:HD12	1:A:761:LEU:HD13	2.03	0.40
1:D:1031:GLY:H	1:D:1035:THR:HG21	1.86	0.40
1:D:1203:ASP:O	1:D:1206:SER:N	2.55	0.40
1:D:1208:VAL:HB	1:D:1212:THR:CB	2.51	0.40
1:D:1527:ALA:O	1:D:1529:TYR:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1550:ASP:O	1:D:1551:LYS:C	2.60	0.40
1:D:1560:MET:HG3	1:D:1560:MET:O	2.22	0.40
1:D:1583:HIS:CE1	1:D:1585:LYS:C	2.95	0.40
1:D:1606:PRO:CD	1:D:1607:GLY:H	2.34	0.40
1:D:1629:LYS:O	1:D:1630:THR:O	2.39	0.40
1:D:1700:SER:CB	1:D:1702:GLU:OE2	2.70	0.40
1:D:741:SER:O	1:D:744:ASP:OD1	2.38	0.40
1:D:843:LYS:O	1:D:846:LEU:N	2.55	0.40
2:H:248:HIS:C	2:H:250:VAL:N	2.70	0.40
2:H:432:LEU:HD21	2:H:484:ILE:HG22	2.03	0.40
2:H:490:TRP:O	2:H:491:GLU:C	2.60	0.40
2:E:433:VAL:HA	2:E:436:SER:HB3	2.02	0.40
2:B:131:ILE:HG21	2:B:182:VAL:HG22	2.01	0.40
2:B:443:LEU:C	2:B:449:SER:HB3	2.42	0.40
2:B:504:PHE:O	2:B:505:GLY:C	2.58	0.40
2:E:1724:GLU:O	2:E:1729:ILE:HA	2.21	0.40
2:E:1733:TYR:CE1	2:E:1760:THR:HG23	2.50	0.40
2:B:1674:GLN:O	2:B:1675:GLY:C	2.59	0.40
2:B:1695:ASP:OD2	2:B:1705:SER:HB2	2.20	0.40
2:H:1727:LYS:C	2:H:1729:ILE:H	2.25	0.40
2:E:168:ASP:O	2:E:169:TYR:HB2	2.21	0.40
1:A:755:THR:CG2	1:A:756:GLU:N	2.83	0.40
2:H:1:MET:HB3	2:H:2:ASP:H	1.57	0.40
2:B:52:ASP:HB2	2:B:113:ASP:OD2	2.21	0.40
1:G:786:SER:O	1:G:788:SER:N	2.54	0.40
1:G:794:ILE:HA	1:G:798:ASN:HD22	1.86	0.40
2:H:406:ARG:O	2:H:407:ILE:O	2.40	0.40
2:B:1856:ALA:O	2:B:1857:ILE:HG12	2.21	0.40
2:E:87:CYS:O	2:E:88:LEU:C	2.60	0.40
2:E:126:TYR:O	2:E:127:ILE:C	2.60	0.40
2:E:961:UNK:O	2:E:962:UNK:CB	2.69	0.40
1:G:931:GLN:HG3	1:G:932:PHE:CD1	2.56	0.40
2:B:1584:UNK:O	2:B:1585:UNK:C	2.69	0.40
2:B:1336:UNK:O	2:B:1337:UNK:C	2.69	0.40
2:H:1650:UNK:O	2:H:1652:UNK:N	2.54	0.40
2:E:653:UNK:O	2:E:656:UNK:N	2.55	0.40
1:G:238:UNK:O	1:G:239:UNK:CB	2.69	0.40
2:H:698:UNK:H	2:H:702:UNK:CB	2.34	0.40
2:H:1441:UNK:O	2:H:1443:UNK:N	2.54	0.40
1:G:1359:GLY:O	1:G:1360:ARG:C	2.60	0.40
2:E:737:UNK:O	2:E:739:UNK:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1515:ARG:HG2	1:G:1515:ARG:NH1	2.36	0.40
2:B:414:LEU:H	2:B:414:LEU:HG	1.66	0.40
1:G:1273:ASP:CG	1:G:1273:ASP:O	2.59	0.40
1:A:1674:VAL:HG12	1:A:1674:VAL:O	2.21	0.40
1:A:496:UNK:CB	1:A:629:UNK:CB	3.00	0.40
1:A:1864:UNK:O	1:A:1865:UNK:CB	2.69	0.40
2:B:1364:UNK:O	2:B:1365:UNK:O	2.40	0.40

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

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

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

5.3 Torsion angles

5.3.1 Protein backbone

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

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

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

All (1750) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	871/895 (97%)	700 (80%)	171 (20%)	1	14
1	D	871/895 (97%)	697 (80%)	174 (20%)	1	13
1	G	871/895 (97%)	696 (80%)	175 (20%)	1	13
2	B	703/703 (100%)	623 (89%)	80 (11%)	7	36
2	E	703/703 (100%)	623 (89%)	80 (11%)	7	36
2	H	703/703 (100%)	622 (88%)	81 (12%)	7	36

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	4722/4794 (98%)	3961 (84%)	761 (16%)	3	22

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1069/1688 (63%)	-0.32	0 100 100	48, 122, 192, 203	0
1	D	1069/1688 (63%)	-0.29	3 (0%) 94 92	53, 123, 194, 203	0
1	G	1069/1688 (63%)	-0.34	2 (0%) 95 94	43, 112, 190, 203	0
2	B	818/2006 (40%)	-0.08	29 (3%) 48 37	107, 177, 202, 203	0
2	E	818/2006 (40%)	-0.06	18 (2%) 65 54	111, 190, 202, 203	0
2	H	818/2006 (40%)	-0.11	18 (2%) 65 54	94, 183, 202, 203	0
3	C	0/65	-	-	-	-
3	F	0/65	-	-	-	-
3	I	0/65	-	-	-	-
All	All	5661/11277 (50%)	-0.21	70 (1%) 81 72	43, 151, 201, 203	0

All (70) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	1895	ASN	9.8
2	H	451	ASN	4.9
2	H	51	ASP	4.5
2	E	1928	GLN	4.4
2	E	425	SER	4.2
2	B	1880	LYS	4.1
2	B	269	GLY	4.0
2	E	451	ASN	3.9
2	E	269	GLY	3.9
2	B	1882	THR	3.8
2	E	1880	LYS	3.8
2	E	270	ALA	3.5
2	H	1895	ASN	3.4
2	B	1879	GLY	3.4
2	E	1744	GLY	3.3
2	H	162	GLY	3.2

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Mol	Chain	Res	Type	RSRZ
2	H	73	GLU	3.2
2	B	1881	ARG	3.1
2	H	161	GLY	3.1
2	B	1821	VAL	2.9
2	B	1896	GLN	2.9
2	E	1841	ALA	2.8
2	B	1704	PHE	2.8
2	H	282	ALA	2.8
1	D	972	SER	2.7
2	B	1852	TYR	2.7
2	B	418	ASN	2.7
2	B	1676	MET	2.7
2	H	1853	GLY	2.6
2	B	1898	TYR	2.6
2	H	532	THR	2.6
2	B	1871	LEU	2.6
2	H	1880	LYS	2.5
2	H	71	LEU	2.5
2	B	1844	ARG	2.5
2	B	1874	VAL	2.5
2	H	156	LEU	2.5
2	H	50	ALA	2.5
2	E	183	LEU	2.5
1	D	1064	ASN	2.4
2	B	1822	MET	2.4
2	E	65	LEU	2.4
2	B	1878	VAL	2.4
2	E	1895	ASN	2.4
2	B	1897	GLN	2.3
1	G	1088	ASP	2.3
2	H	72	VAL	2.3
2	B	459	VAL	2.3
2	E	95	TYR	2.3
2	E	1929	LYS	2.3
2	H	205	ALA	2.3
2	B	1853	GLY	2.3
2	B	1672	GLN	2.3
2	E	61	VAL	2.3
2	B	1669	GLN	2.2
2	H	1851	ASN	2.2
2	B	1894	GLU	2.2
2	B	332	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
2	H	283	ILE	2.1
2	H	415	LYS	2.1
2	E	1924	ILE	2.1
2	B	270	ALA	2.1
2	E	414	LEU	2.1
1	G	1467	LEU	2.1
2	B	213	LEU	2.1
2	E	1745	LYS	2.1
1	D	891	MET	2.0
2	E	427	PHE	2.0
2	B	157	VAL	2.0
2	B	1867	SER	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.