



Full wwPDB X-ray Structure Validation Report ⓘ

May 28, 2020 – 10:03 pm BST

PDB ID : 2CW0
Title : Crystal structure of Thermus thermophilus RNA polymerase holoenzyme at 3.3 angstroms resolution
Authors : Tuske, S.; Sarafianos, S.G.; Wang, X.; Hudson, B.; Sineva, E.; Mukhopadhyay, J.; Birktoft, J.J.; Leroy, O.; Ismail, S.; Clark Jr., A.D.; Dharia, C.; Napoli, A.; Laptenko, O.; Lee, J.; Borukhov, S.; Ebright, R.H.; Arnold, E.
Deposited on : 2005-06-15
Resolution : 3.30 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/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
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

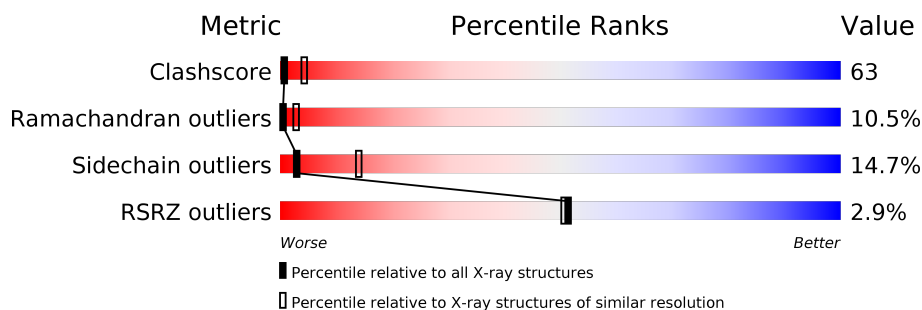
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)
RSRZ outliers	127900	1115 (3.34-3.26)

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 respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	315	
1	B	315	
1	K	315	
1	L	315	
2	C	1119	
2	M	1119	
3	D	1524	

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Mol	Chain	Length	Quality of chain
3	N	1524	<div><div></div><div>3%</div><div>21%</div><div>52%</div><div>17%</div><div>•</div><div>9%</div></div>
4	E	99	<div><div></div><div>2%</div><div>29%</div><div>52%</div><div>11%</div><div>•</div><div>•</div></div>
4	O	99	<div><div></div><div>4%</div><div>34%</div><div>47%</div><div>9%</div><div>5%</div><div>•</div></div>
5	F	423	<div><div></div><div>2%</div><div>22%</div><div>48%</div><div>10%</div><div>•</div><div>18%</div></div>
5	P	423	<div><div></div><div>2%</div><div>26%</div><div>44%</div><div>10%</div><div>•</div><div>18%</div></div>

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 53962 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 DNA-directed RNA polymerase alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	B	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	K	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	L	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			

- Molecule 2 is a protein called DNA-directed RNA polymerase beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			

- Molecule 3 is a protein called DNA-directed RNA polymerase beta' chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			

- Molecule 4 is a protein called RNA polymerase omega chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			
4	O	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			

- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			
5	P	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			

- Molecule 6 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	2	Total	Zn	0	0
			2	2		
6	N	2	Total	Zn	0	0
			2	2		

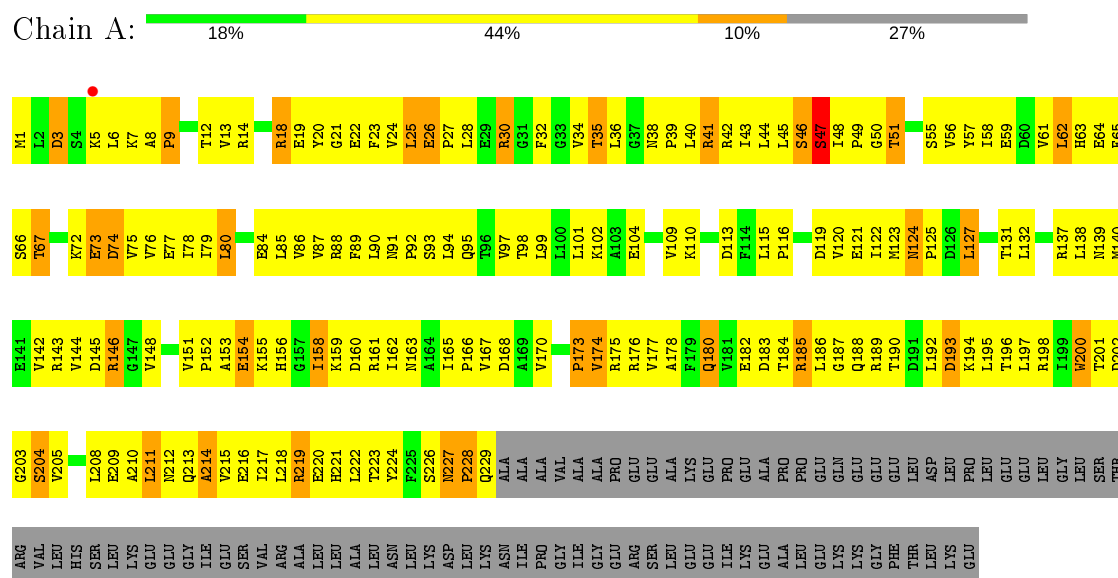
- Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	1	Total	Mg	0	0
			1	1		
7	N	1	Total	Mg	0	0
			1	1		

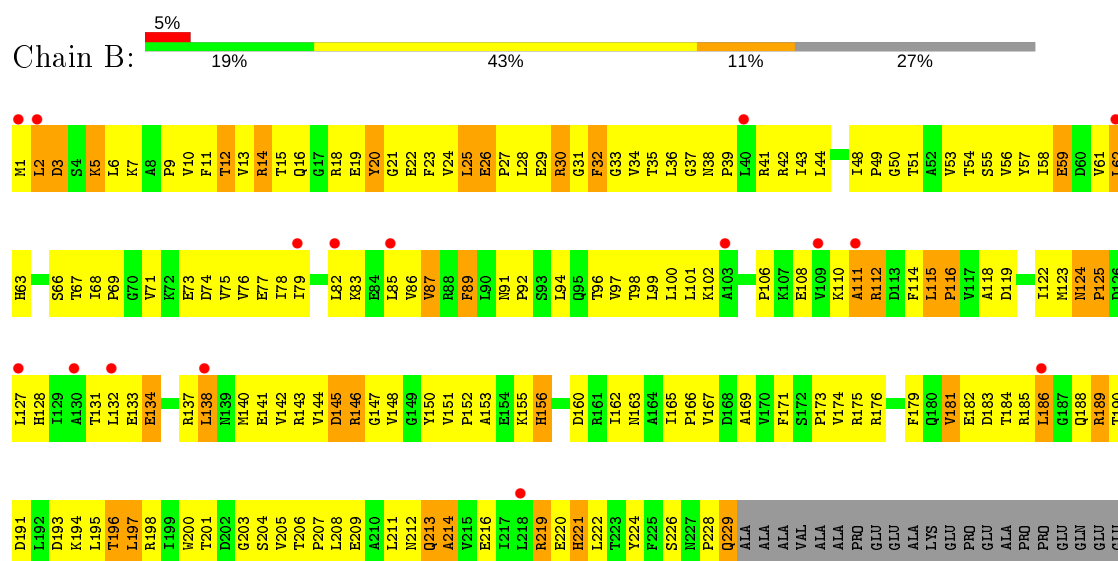
3 Residue-property plots

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

• Molecule 1: DNA-directed RNA polymerase alpha chain

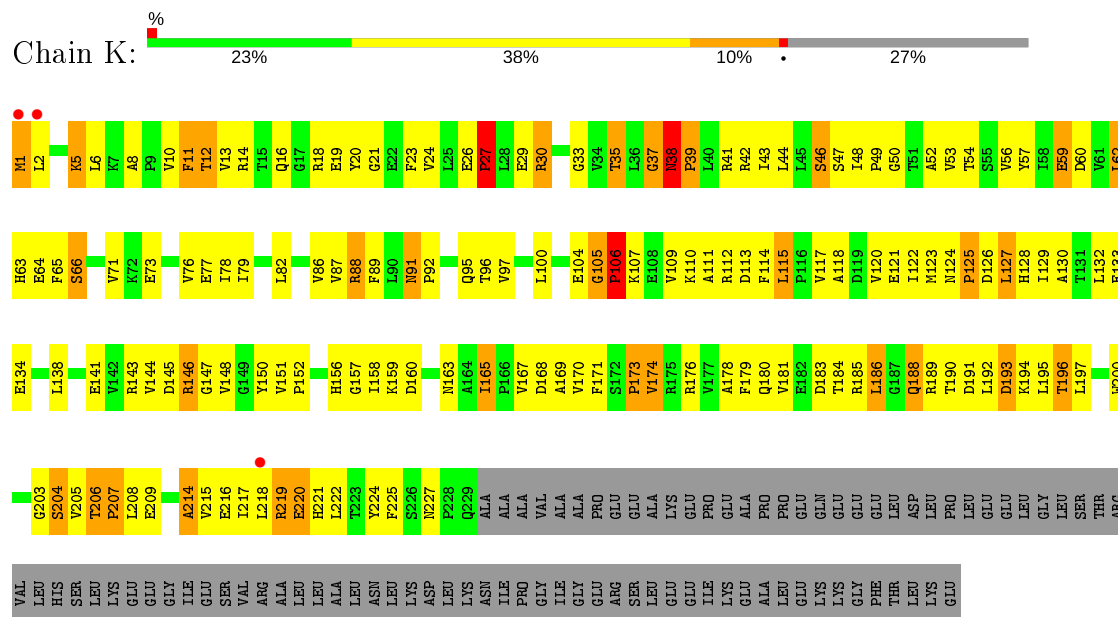


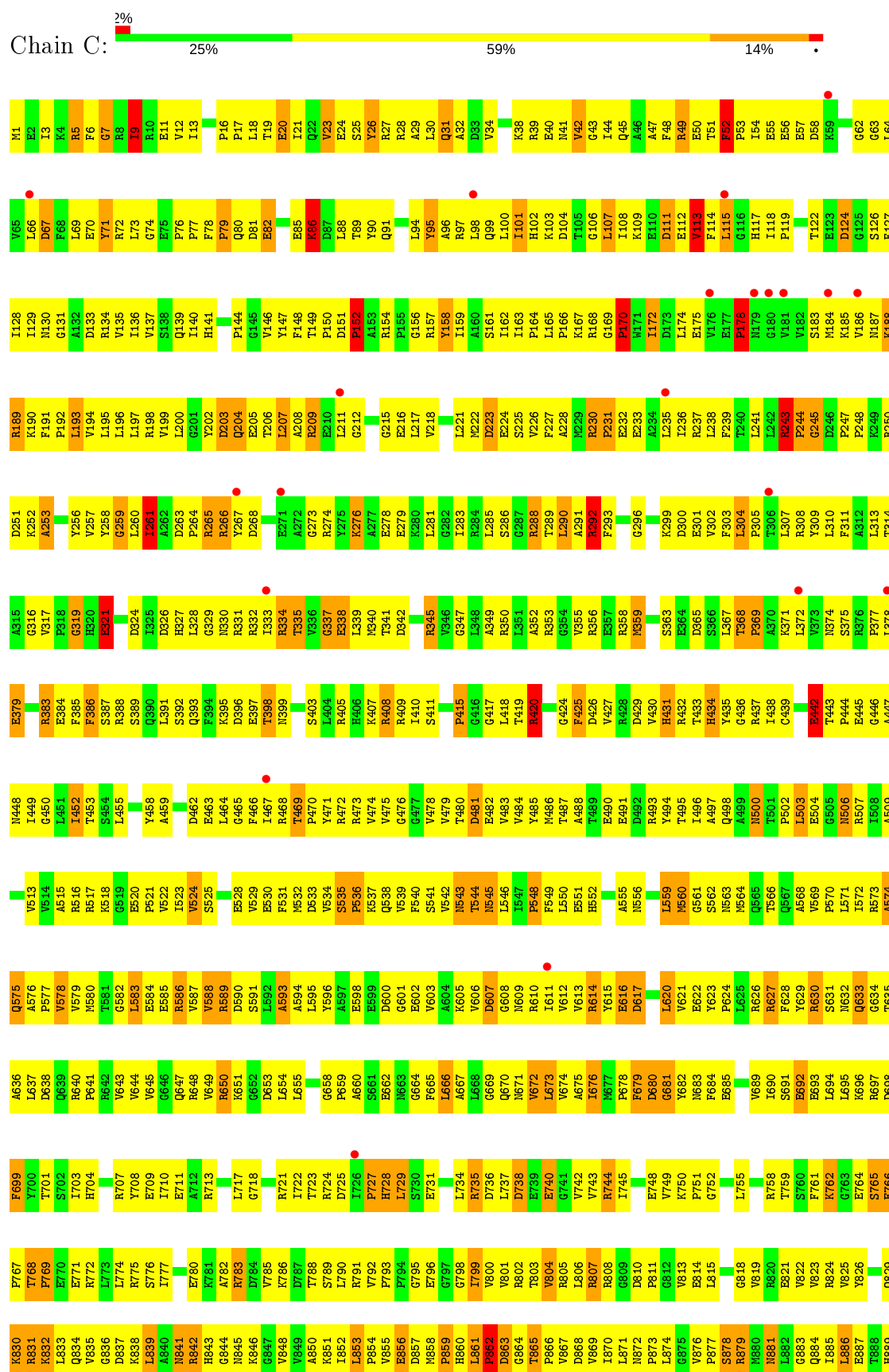
• Molecule 1: DNA-directed RNA polymerase alpha chain



GLU	LEU	ASP	LEU	PRO	LEU	GLU	LEU	GLY	LEU	THR	SER	ARG	VAL	LEU	HIS	SER	LEU	LYS	GLU	GLY	ILE	SER	VAL	ARG	ALA	LEU	ALA	LEU	ASN	LEU	LYS	ASP	LEU	LYS	PRO	GLY	ILE	GLY	GLU	ARG	SER	LEU	GLU	ILE	LYS	GLU	ALA	LEU	GLU	LYS	GLY
PHE	THR	LEU	LYS	GLU																																															

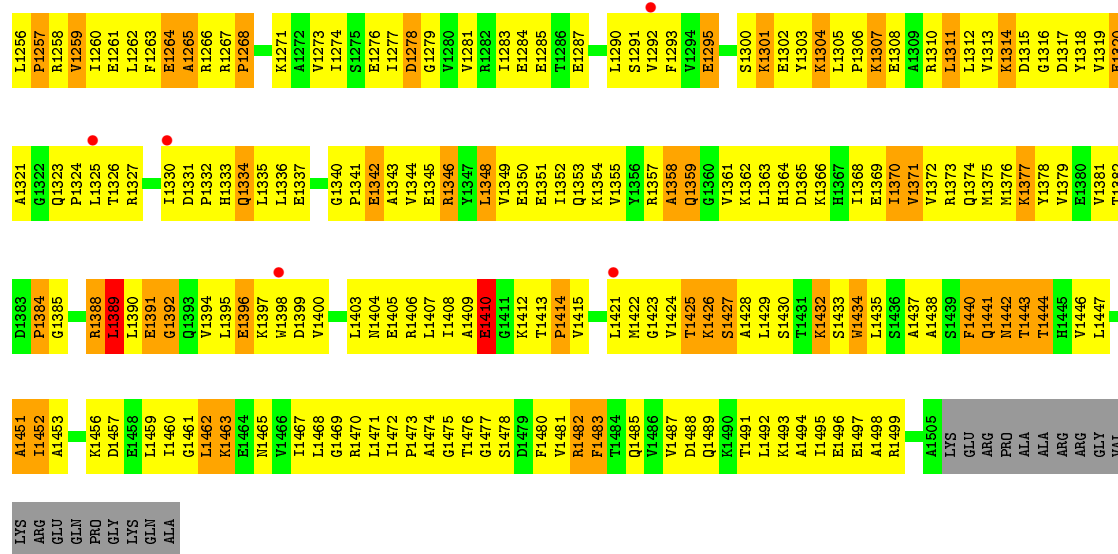
• Molecule 1: DNA-directed RNA polymerase alpha chain



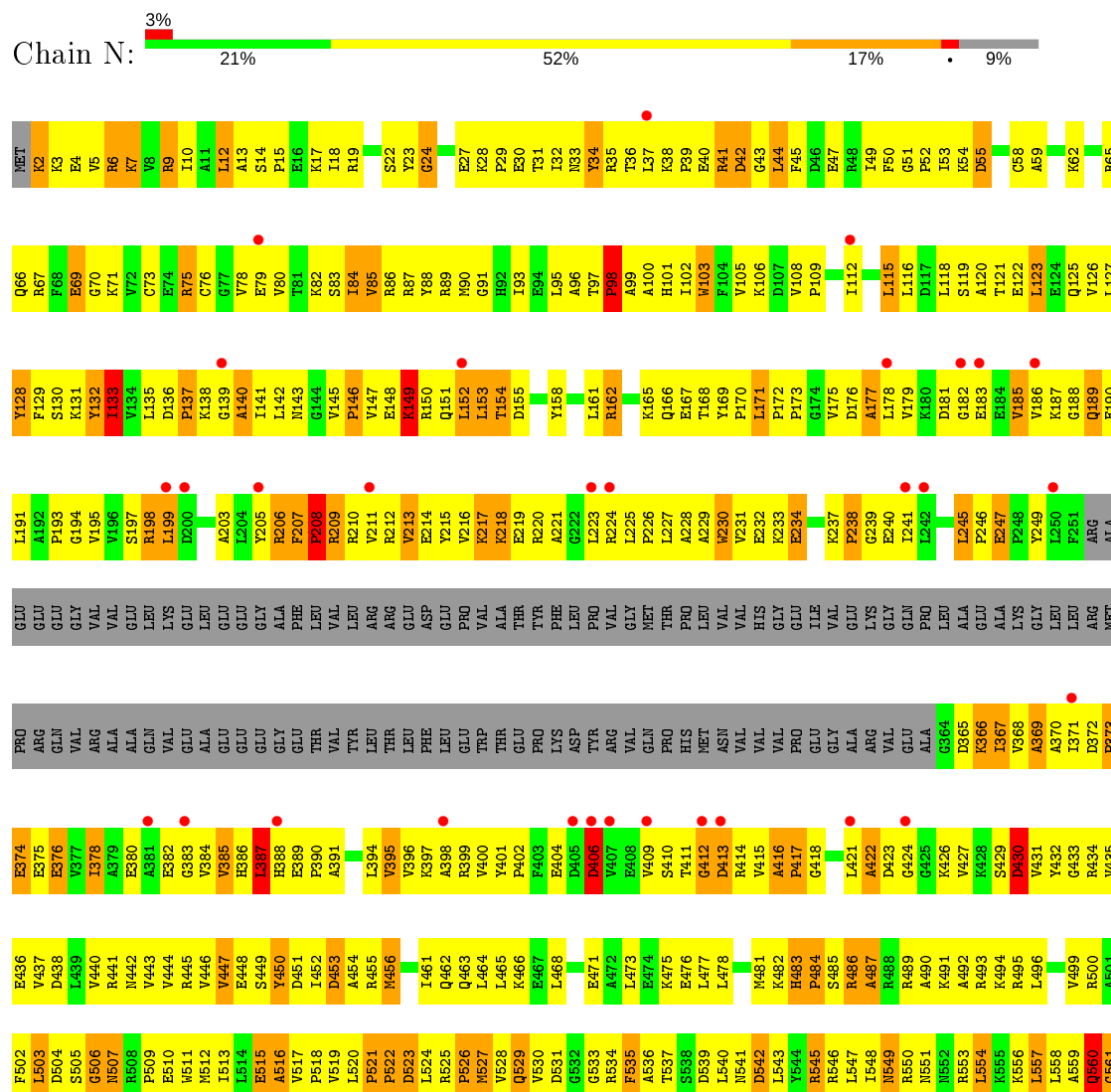




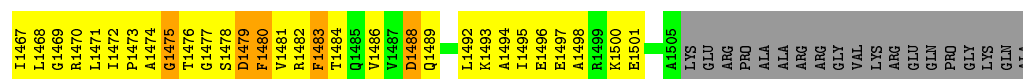
C1194	S1131	Y1070	H1010	T940	I880	E811	L751	V687	D624	E564	F502	V495	I371	LEU
Q1195	L1132	F1071	F1011	F941	L881	A812	S752	W688	I625	I885	F503	E496	D372	ARG
R1196	L1133	I1072	E1012		F882	L813	F754		S626	I566	L503	V437	P373	PRO
R1197	L1134	S1073	E1013	T944	A883	A814		L691	G627	I567	D504	D438	E374	MET
V1198	K1135	S1074	N1014	S945	R884	A815	A755	E692	R628	R568	S505	I439	E375	ARG
G1199	K1136	H1075	Y1015	G946	I885	B816	Q756	E693	S629	N569		V440	E376	GLN
V1200	R1137	G1076	P1016	T947	V886	E817	A757	V694	V630	E570	B508	R441	V377	VAL
C1201	A1138	A1077	F1017	T948	A887	R818	E758	I695	I631	K571	P509	K442	I378	ARG
K1202	D1139	R1078	N1018	T949	E888	G819	A759	H696	V632	R572	B510	V443	I379	ALA
K1203	T1140	K1079	P1019	G950	A889	E820	R760	G697	V633	R573	N511	V444	E380	ALA
K1204	E1141	G1080	L1020	T951	A890	V821	I761	K698	G634	L574	N512	R445	A381	GLN
Y1205	A1142	G1081	Y1021	D952	E891		Q762	V699	P635	D575	J513	V446	E382	VAL
G1206	G1143	A1082	V1022	D953	D892	N824	W763	V700	G636	E576		V447	E383	GLU
Y1207	L1144	D1083	M1023	A954	E893	A825	L764	L701	L637	I577	A516	E448	V384	ALA
D1208	Y1145	T1084	A1024	V955	R894	P826	L702	L702	R638	V678	V517	S449	V385	GLU
L1209	V1146	A1085	Q1025	T956	V895	I827	A766	N703	L639	D579	P518		R386	GLU
S1210	R1147	L1086	S1026	P957	A896	K828	H767	H709	H640	A580	V519	I452	L387	GLY
S1211	V1148	R1087	G1027	E958	W897	V829	A705	H710	Q641	L581	L520	I453	H388	GLY
A1212	L1149	T1088	A1028	E959	E898	A830	L769	P706	C642	L582	P521	A454	E389	GLU
R1213	A1150	A1089	R1029	V960	L899	G831	L770	T707	G643	D583	P522	R455	E390	THR
P1214	L1151		G1030		I900	R832	S771	L708	L644	N584	D523	R456		VAL
V1215	E1152	G1092	N1031	L964	Q901	E833	L778	H709	P645	I585	L524	I457	T393	TYR
S1216	V1153	Y1099	P1032	T958	R908	T834	A772	H710	R646	R586	R525	I458	L394	LEU
I1217	E1154	L1094	Q1033	R969	D903	V835	S774	Q716	R647	R587	P526	I459	V395	THR
G1218	V1155	T1095	Q1034	K970	V904	V836	G775	G712	V648	G588	N527	I460	V396	LEU
E1219	L1156	R1096	I1035	L971	P905	G837	E776	I713	L649	I589	V528	I461	K397	PHE
A1220		K1097	R1036	L972	Q906	R838	P777	Q714	L650	P590	Q529	Q462	A398	LEU
V1221	R1159	L1098	Q1037	T972	E907	E831	A779	A715	L652	V591	V530	Q463	R399	GLU
G1222	L1160	Y1099	L1038	R974	K908	T834	H785	Q717	L652	T592	D531		V400	THR
I1223	E1161	D1100	G1039	E975	N909	V842	K780	F653	P655	N593	G532	D469	Y401	THR
V1224	L1162	G1101	L1040	Q976	S910	F843	P781	P718	K654	P594	G533	L470	P402	GLU
A1225	G1163	T1102	G1041	A977	L911		S782	V719	P655	G595	R534		F403	PRO
A1226	R1164	H1103	R1042	T978	K912	P846	L783	L720	P656	S596	R535	L473	E404	LYS
Q1227	Y1165	E1104	G1043	T984	D913	A849	D784	V721	L657	D597	A536	E474	E408	ASP
S1228	L1166	T1105	L1044		R914		I785	E722	L658	R598	T537	K475		TYR
I1229	S1167	V1106	M1045	D985	V915	L850	I786	G723	K659	P599	S538	E476	V409	ARG
G1230	M1168	V1107	Q1046	R986	Y916		L787	Q724	K660	L600	D539	I477	S410	VAL
E1231	D1169	R1108	K1047	E987	Q917	V853	G788	S725	H661	R601	L540	L478	T411	GLN
P1232	D1170	E1109	P1048	R988	A918		L789	L728	E662	S602	N541	E479	Q412	PRO
G1233	V1171	A1110	S1049	F989	F919	V858	Y790		E663	L603	D542	E480	D413	HIS
T1234	H1172	D1111	G1050	D990	L920	D859	I792	H729		T604	L543	M481	R414	MET
L1235	L1173	G1112	E1051	Q991	R921	L860	P668	P730	P668	D605	V544	K482	V415	ASN
T1236	L1174	G1113	T1052	I992	L922	Q861	T793	L731	N669	I606	R545	H483	V416	VAL
T1237	T1175	T1114	F1053	L993	G923	D862	Q794	V732	V670	L607	R546	P484	A416	VAL
M1238	K1176	T1115	E1054	Q994	N924	V863	T795	C733	K671	S606	L547	S485	P417	VAL
T1240	A1177	M1116	V1055	N995	E925	V864	K796	E734	A672	G609	I548	R486	V420	PRO
T1241	E1178	Y1117	V1057	N996	K926	T865	K797	A735	A673	T610	N549	A487	L421	GLU
H1242	E1179	I1118	V1057	T997	T927	V866	E798	F736	R674	Q611	R550	R488	A422	GLY
T1243		S1119	R1058	E998	A928	E867	K799	N737	R675	G612	N551	R489	D423	ALA
G1244		V1120	S1059	T999	R929	V868	K800	A738	V676	R613	N552	I490	G424	ARG
L1245	I1183	S1060	S1060	T1000	L930	N669	G801	D739	L677	R614	R553	K491	G425	VAL
F1246	V1186	F1061	F1061	E1001	L931	R872	A802	F740	E678	R615	L554	A492	K426	GLU
A1247	P1187	R1062	R1062	K1002	D932	G803	G803	D741	R679	Q616	K555	R493	V427	ALA
G1248	V1188	E1063	E1063	V1003	A933	L873	L804	G742	Q680	N617	K494	K428	K428	ALA
A1249	R1189	G1064	G1064	T1004	L934	E874	E805	D743	R681	L618	R495	S429	D365	GLY
	D1126	L1065	L1065	Q1005	K935	T875	F806	O744	D682	L619	I496	D430	K366	GLY
	E1127	T1066	T1066	A1006	Y936	S876	A807	M745	I683	G620	R560	E497	V431	ARG
T1253	L1191	V1067	V1067	I1007	Y937	P877	T808	M745	R684	R621	G561	E498	Y432	ARG
Q1254	L1192	L1068	L1068	F1008	G938	G878	P809	V749	H622	A562	V499	G433	V368	ARG
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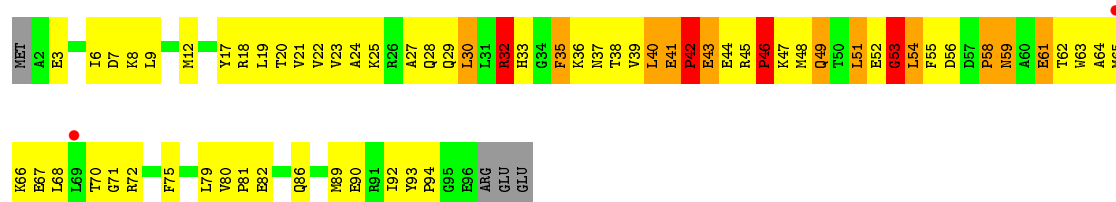
• Molecule 3: DNA-directed RNA polymerase beta' chain



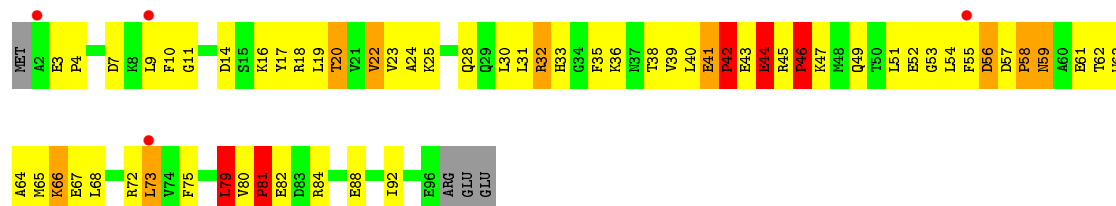
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E1141	L1144	R1147	V1148	L1149	A1150	R1151	E1152	V1153	E1154	V1155	L1156	R1159	E1160	E1161	G1163	Y1165	L1166	S1167	M1168	D1169	D1170	V1171	H1172	L1173	L1174	L1175	K1176	A1177	A1178	E1179	E1182	I1183	Q1184	E1185	V1186	P1187	V1188	R1189	S1190	P1191	L1192	Q1195	T1196	R1197	Y1198	G1199	L1200	C1201	Q1202	K1203	C1204																																																																																																																																																																																																			
Y1207	D1208	L1209	S1210	M1211	A1212	E1213	P1214	V1215	S1216	I1217	G1218	E1219	A1220	V1221	L1222	V1223	V1224	A1225	A1226	Q1227	S1228	I1229	I1230	E1231	P1232	G1233	T1234	Q1235	L1236	T1237	M1238	R1239	T1240	F1241	H1242	T1243	G1244	G1245	V1246	A1250	D1251	I1252	T1253	Q1254	G1255	L1256	P1257	R1258	V1259	I1260	E1261	L1262	L1263	P1264	A1265	R1266	A1267	P1268																																																																																																																																																																																												
K1269	A1270	K1271	A1272	V1273	I1274	S1275	E1276	L1277	D1278	G1279	V1280	V1281	R1282	I1283	E1284	L1285	T1286	E1287	L1288	K1289	L1290	S1291	V1292	F1293	V1294	E1295	G1296	L1297	L1298	Q1299	L1300	L1301	L1302	V1303	K1304	L1305	P1306	K1307	E1308	A1309	L1310	L1311	L1312	V1313	K1314	D1315	G1316	D1317	Y1318	V1319	E1320	A1321	L1322	E1323	L1324	L1325	P1326	A1327	L1328	I1329	T1330																																																																																																																																																																																									
D1331	P1332	H1333	Q1334	L1335	L1336	L1337	A1338	K1339	G1340	P1341	L1342	A1343	V1344	E1345	R1346	Y1347	L1348	L1349	L1350	L1351	L1352	L1353	L1354	L1355	L1356	L1357	L1358	L1359	L1360	L1361	L1362	L1363	H1364	D1365	K1366	H1367	L1368	E1369	L1370	V1371	V1372	R1373	Q1374	M1375	K1376	K1377	V1378	V1379	E1380	V1381	T1382	D1383	P1384	G1385	D1386	S1387	L1388	G1389	L1390	E1391	Q1392	L1393	V1394																																																																																																																																																																																							
L1395	E1396	K1397	W1398	K1399	V1400	E1401	A1402	L1403	H1404	E1405	K1406	K1407	K1408	K1409	K1410	K1411	K1412	K1413	K1414	K1415	K1416	K1417	K1418	K1419	K1420	K1421	K1422	K1423	G1424	V1425	T1426	K1427	K1428	K1429	K1430	K1431	K1432	K1433	K1434	K1435	S1436	A1437	A1438	N1439	T1440	V1441	V1442	T1443	L1444	V1445	K1446	K1447	K1448	K1449	K1450	A1451	L1452	A1453	G1454	K1455	K1456	D1457	E1458	L1459	I1460	G1461	L1462	K1463	E1464	N1465	V1466																																																																																																																																																																															
G827	R828	S829	I830	I831	I832	I833	I834	I835	I836	I837	I838	I839	I840	I841	I842	I843	I844	I845	I846	I847	I848	I849	I850	I851	I852	I853	I854	I855	I856	I857	I858	I859	I860	I861	I862	I863	I864	I865	I866	I867	I868	I869	I870	I871	I872	I873	I874	I875	I876	I877	I878	I879	I880	I881	I882	I883	I884	I885	I886	I887	I888	I889	I890	I891	I892	I893	I894	I895	I896	I897	I898	I899	I900	I901	I902	I903	I904	I905	I906	I907	I908	I909	I910	I911	I912	I913	I914	I915	I916	I917	I918	I919	I920	I921	I922	I923	I924	I925	I926	I927	I928	I929	I930	I931	I932	I933	I934	I935	I936	I937	I938	I939	I940	I941	I942	I943	I944	I945	I946	I947	I948	I949	I950	I951	I952	I953	I954	I955	I956	I957	I958	I959	I960	I961	I962	I963	I964	I965	I966	I967	I968	I969	I970	I971	I972	I973	I974	I975	I976	I977	I978	I979	I980	I981	I982	I983	I984	I985	I986	I987	I988	I989	I990	I991	I992	I993	I994	I995	I996	I997	I998	I999	F1000																																																																									
A690	L691	E692	E693	E694	E695	E696	E697	E698	E699	E700	E701	E702	E703	E704	E705	E706	E707	E708	E709	E710	E711	E712	E713	E714	E715	E716	E717	E718	E719	E720	E721	E722	E723	E724	E725	E726	E727	E728	E729	E730	E731	E732	E733	E734	E735	E736	E737	E738	E739	E740	E741	E742	E743	E744	E745	E746	E747	E748	E749	E750	E751	E752	E753																																																																																																																																																																																							
F754	A755	Q756	A757	E758	A759	R760	I761	A762	A763	A764	A765	A766	A767	A768	A769	A770	A771	A772	A773	A774	A775	A776	A777	A778	A779	A780	A781	A782	A783	A784	A785	A786	A787	A788	A789	A790	A791	A792	A793	A794	A795	A796	A797	A798	A799	A800	A801	A802	A803	A804	A805	A806	A807	A808	A809	A810	A811	A812	A813	A814	A815	A816	A817	A818	A819	A820	A821	A822	A823	A824	A825	A826	A827	A828	A829	A830	A831	A832	A833	A834	A835	A836	A837	A838	A839	A840	A841	A842	A843	A844	A845	A846	A847	A848	A849	A850	A851	A852	A853	A854	A855	A856	A857	A858	A859	A860	A861	A862	A863	A864	A865	A866	A867	A868	A869	A870	A871	A872	A873	A874	A875	A876	A877	A878	A879	A880	A881	A882	A883	A884	A885	A886	A887	A888	A889	A890	A891	A892	A893	A894	A895	A896	A897	A898	A899	A900	A901	A902	A903	A904	A905	A906	A907	A908	A909	A910	A911	A912	A913	A914	A915	A916	A917	A918	A919	A920	A921	A922	A923	A924	A925	A926	A927	A928	A929	A930	A931	A932	A933	A934	A935	A936	A937	A938	A939	A940	A941	A942	A943	A944	A945	A946	A947	A948	A949	A950	A951	A952	A953	A954	A955	A956	A957	A958	A959	A960	A961	A962	A963	A964	A965	A966	A967	A968	A969	A970	A971	A972	A973	A974	A975	A976	A977	A978	A979	A980	A981	A982	A983	A984	A985	A986	A987	A988	A989	A990	A991	A992	A993	A994	A995	A996	A997	A998	A999	F1000
K1009	M1010	E1011	E1012	Y1015	P1016	F1017	M1018	P1019	M1020	G1021	A1028	M1031	P1032	Q1033	Q1034	Q1035	Q1036	Q1037	L1038	C1039	A1040	L1041	R1042	E1043	L1044	M1045	Q1046	C1047	A1048	Y1049	E1050	E1051	T1052	F1053	E1054	V1055	P1056	V1057	S1058	Q1059	S1060	F1061	R1062	E1063	G1064	L1065	T1066	E1067	E1068	L1069	Y1070	S1073																																																																																																																																																																																																		
R1078	K1079	D1083	L1086	L1087	T1088	A1089	D1090	S1091	G1092	Y1093	L1094	T1095	R1096	K1097	L1098	V1099	D1100	L1101	T1102	H1103	E1104	I1105	V1106	L1107	R1108	E1109	A1110	D1111	C1112	G1113	T1114	T1115	M1116	Y1117	I1118	S1119	L1122	F1123	Q1124	P1125	D1126	E1127	V1128	T1129	A1130	S1131	L1132	G1133	L1135	E1136	C1137	A1138	T1140																																																																																																																																																																																																	
E1141	L1144	R1147	V1148	L1149	A1150	R1151	E1152	V1153	E1154	V1155	L1156	R1159	E1160	E1161	G1163	Y1165	L1166	S1167	M1168	D1169	D1170	V1171	H1172	L1173	L1174	L1175	K1176	A1177	A1178	E1179	E1182	I1183	Q1184	E1185	V1186	P1187	V1188	R1189	S1190	P1191	L1192	Q1195	T1196	R1197	Y1198	G1199	L1200	C1201	Q1202	K1203	C1204																																																																																																																																																																																																			
Y1207	D1208	L1209	S1210	M1211	A1212	E1213	P1214	V1215	S1216	I1217	G1218	E1219	A1220	V1221	L1222	V1223	V1224	A1225	A1226	Q1227	S1228	I1229	I1230	E1231	P1232	G1233	T1234	Q1235	L1236	T1237	M1238	R1239	T1240	F1241	H1242	T1243	G1244	G1245	V1246	A1250	D1251	I1252	T1253	Q1254	G1255	L1256	P1257	R1258	V1259	I1260	E1261	L1262	L1263	P1264	A1265	R1266	A1267	P1268																																																																																																																																																																																												
K1269	A1270	K1271	A1272	V1273	I1274	S1275	E1276	L1277	D1278	G1279	V1280	V1281	R1282	I1283	E1284	L1285	T1286	E1287	L1288	K1289	L1290	S1291	V1292	F1293	V1294	E1295	G1296	L1297	L1298	Q1299	L1300	L1301	L1302	V1303	K1304	L1305	P1306	K1307	E1308	A1309	L1310	L1311	L1312	V1313	K1314	D1315	G1316	D1317	Y1318	V1319	E1320	A1321	L1322	E1323	L1324	L1325	P1326	A1327	L1328	I1329	T1330																																																																																																																																																																																									
D1331	P1332	H1333	Q1334	L1335	L1336	L1337	A1338	K1339	G1340	P1341	L1342	A1343	V1344	E1345	R1346	Y1347	L1348	L1349	L1350	L1351	L1352	L1353	L1354	L1355	L1356	L1357	L1358	L1359	L1360	L1361	L1362	L1363	H1364	D1365																																																																																																																																																																																																																				



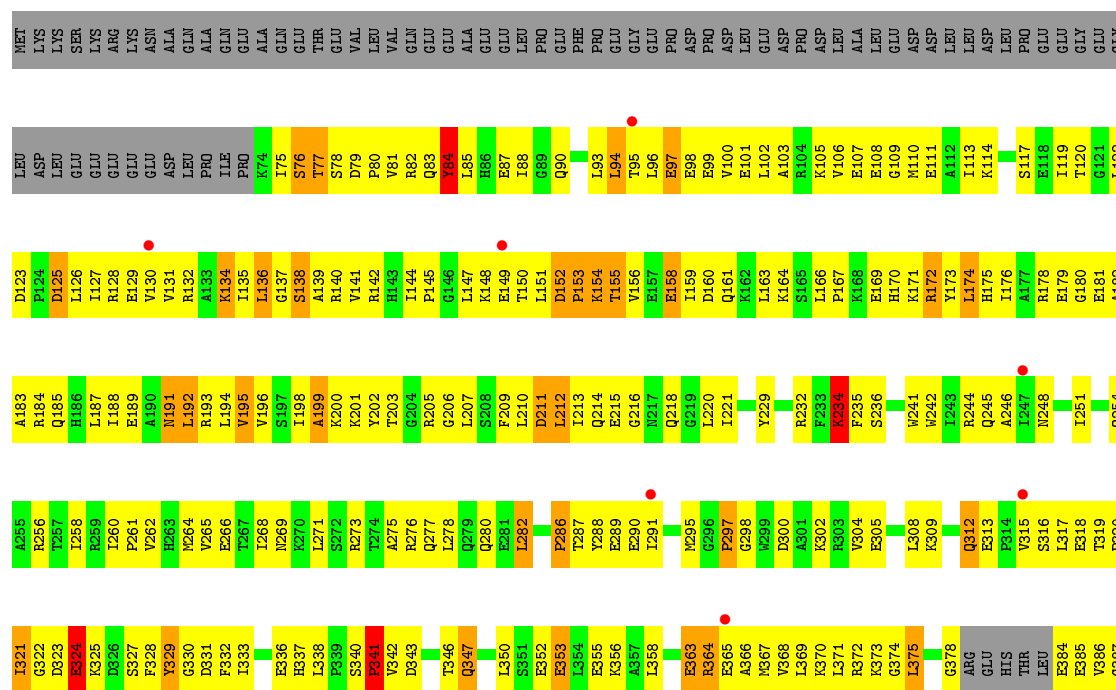
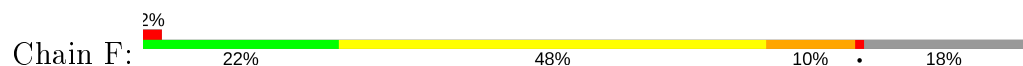
- Molecule 4: RNA polymerase omega chain



- Molecule 4: RNA polymerase omega chain

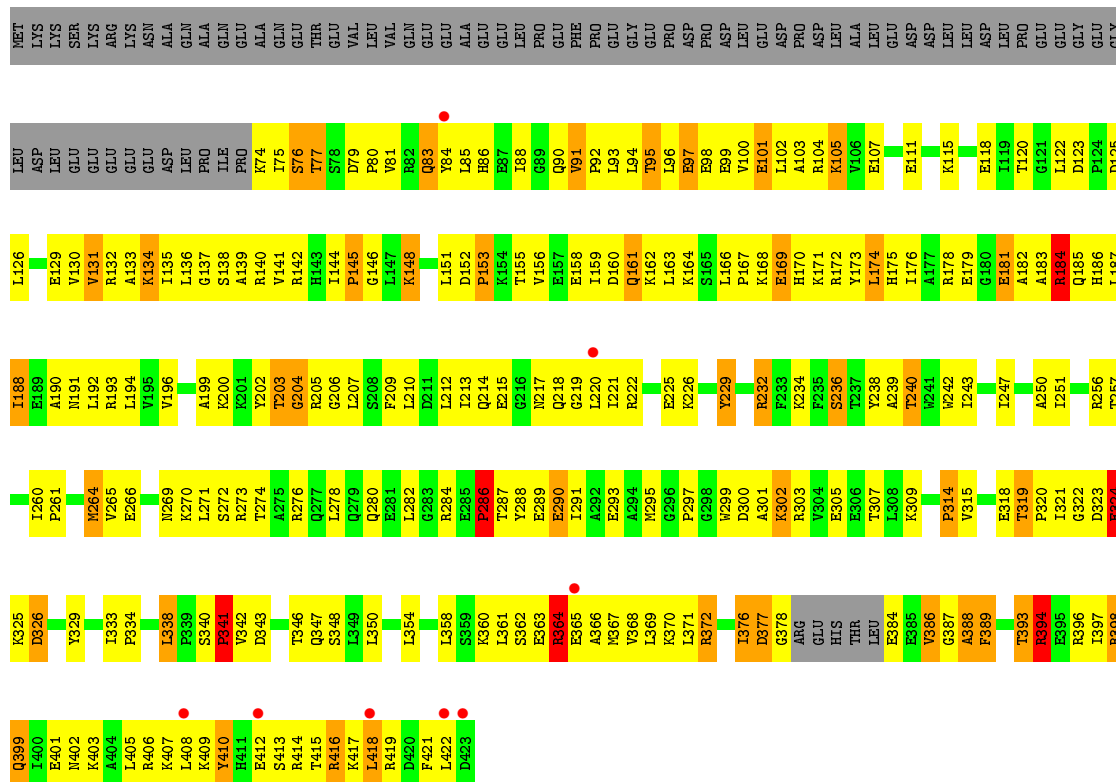


- Molecule 5: RNA polymerase sigma factor rpoD





• Molecule 5: RNA polymerase sigma factor rpoD



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	236.15Å 236.15Å 249.88Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 3.30 29.87 – 3.30	Depositor EDS
% Data completeness (in resolution range)	84.1 (30.00-3.30) 47.2 (29.87-3.30)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.10 (at 3.31Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.282 , 0.320 0.286 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	97.4	Xtriage
Anisotropy	0.295	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , -23.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.499 for h,-h-k,-l 0.064 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	53962	wwPDB-VP
Average B, all atoms (Å ²)	73.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.25% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	0.46	0/1838	0.75	0/2498
1	B	0.36	0/1838	0.64	0/2498
1	K	0.46	0/1838	0.75	0/2498
1	L	0.39	0/1838	0.68	0/2498
2	C	0.45	0/8997	0.79	8/12164 (0.1%)
2	M	0.46	0/8997	0.79	8/12164 (0.1%)
3	D	0.48	0/11165	0.83	16/15088 (0.1%)
3	N	0.46	0/11165	0.81	15/15088 (0.1%)
4	E	0.42	0/783	0.80	3/1054 (0.3%)
4	O	0.42	0/783	0.80	1/1054 (0.1%)
5	F	0.40	0/2836	0.73	0/3812
5	P	0.41	0/2836	0.72	0/3812
All	All	0.45	0/54914	0.78	51/74228 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	D	0	1
3	N	0	3
5	F	0	1
All	All	0	5

There are no bond length outliers.

All (51) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1209	LEU	N-CA-C	-10.12	83.67	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	728	HIS	N-CA-C	7.66	131.69	111.00
2	C	728	HIS	N-CA-C	7.62	131.58	111.00
3	N	1209	LEU	N-CA-C	-7.26	91.39	111.00
2	M	319	GLY	N-CA-C	-7.22	95.05	113.10
3	N	198	ARG	N-CA-C	7.01	129.94	111.00
4	O	49	GLN	N-CA-C	6.85	129.51	111.00
3	N	1126	ASP	N-CA-C	6.70	129.09	111.00
4	E	49	GLN	N-CA-C	6.62	128.87	111.00
3	D	448	GLU	N-CA-C	6.56	128.72	111.00
4	E	51	LEU	N-CA-C	-6.51	93.43	111.00
3	D	1043	GLY	N-CA-C	6.44	129.20	113.10
3	D	644	LEU	CA-CB-CG	6.33	129.86	115.30
3	N	208	PRO	N-CA-C	6.29	128.46	112.10
3	D	380	GLU	N-CA-C	-6.07	94.62	111.00
3	D	1064	GLY	N-CA-C	5.98	128.04	113.10
3	D	209	ARG	N-CA-C	5.92	126.98	111.00
2	C	319	GLY	N-CA-C	-5.89	98.39	113.10
2	M	729	LEU	N-CA-C	5.84	126.77	111.00
3	N	199	LEU	N-CA-C	5.82	126.71	111.00
2	C	729	LEU	N-CA-C	5.80	126.67	111.00
3	D	1126	ASP	N-CA-C	5.73	126.47	111.00
3	D	208	PRO	N-CA-C	5.72	126.98	112.10
2	M	795	GLY	N-CA-C	-5.63	99.04	113.10
2	C	178	PRO	N-CA-C	5.61	126.68	112.10
3	D	201	GLY	N-CA-C	-5.54	99.25	113.10
2	C	9	ILE	N-CA-C	-5.53	96.06	111.00
3	D	1127	GLU	N-CA-C	-5.51	96.12	111.00
3	D	81	THR	N-CA-C	-5.46	96.26	111.00
2	M	243	ARG	N-CA-C	5.45	125.71	111.00
3	N	527	MET	N-CA-C	-5.43	96.35	111.00
2	C	261	ILE	N-CA-C	5.42	125.63	111.00
3	N	209	ARG	N-CA-C	5.37	125.50	111.00
3	D	1125	PRO	N-CA-C	5.31	125.90	112.10
3	N	207	PHE	C-N-CD	-5.28	108.98	120.60
3	N	247	GLU	N-CA-C	5.26	125.21	111.00
2	M	442	GLU	N-CA-C	5.25	125.18	111.00
3	N	406	ASP	N-CA-C	5.24	125.16	111.00
3	D	595	GLY	N-CA-C	-5.22	100.04	113.10
3	N	1110	ALA	N-CA-C	-5.22	96.90	111.00
2	C	243	ARG	N-CA-C	5.20	125.05	111.00
2	M	260	LEU	N-CA-C	5.20	125.03	111.00
3	D	1348	LEU	CA-CB-CG	5.15	127.14	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	199	LEU	CA-CB-CG	-5.14	103.47	115.30
3	N	378	ILE	N-CA-C	5.14	124.88	111.00
2	C	591	SER	N-CA-C	-5.11	97.21	111.00
4	E	53	GLY	N-CA-C	5.05	125.72	113.10
3	N	1243	THR	N-CA-C	5.04	124.60	111.00
2	M	262	ALA	N-CA-C	5.03	124.57	111.00
3	N	1288	GLU	N-CA-C	5.02	124.55	111.00
3	N	736	PHE	N-CA-C	-5.01	97.46	111.00

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	D	132	TYR	Sidechain
5	F	84	TYR	Sidechain
3	N	1015	TYR	Sidechain
3	N	1318	TYR	Sidechain
3	N	132	TYR	Sidechain

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	1806	0	1861	249	0
1	B	1806	0	1861	193	0
1	K	1806	0	1861	190	0
1	L	1806	0	1861	208	0
2	C	8829	0	8933	1143	0
2	M	8829	0	8933	1183	0
3	D	10975	0	11211	1725	0
3	N	10975	0	11210	1681	0
4	E	769	0	775	94	0
4	O	769	0	775	83	0
5	F	2793	0	2873	301	0
5	P	2793	0	2873	364	0
6	D	2	0	0	0	0
6	N	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	D	1	0	0	0	0
7	N	1	0	0	0	0
All	All	53962	0	55027	6832	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 63.

All (6832) 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)
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.21	1.20
2:C:1016:ILE:H	2:C:1016:ILE:HD13	1.06	1.16
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.02	1.16
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.22	1.15
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.27	1.15
4:E:51:LEU:HG	4:E:53:GLY:H	1.07	1.12
3:N:1144:LEU:HD22	3:N:1166:LEU:HD11	1.29	1.12
3:N:887:ALA:HB1	3:N:893:GLU:HG3	1.30	1.11
3:D:131:LYS:HA	3:D:456:MET:HG3	1.21	1.10
2:C:1015:LEU:HB3	2:C:1016:ILE:HD13	1.33	1.10
3:D:789:LEU:HD12	3:D:911:LEU:HD21	1.32	1.09
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.29	1.09
3:D:1331:ASP:HB3	3:D:1334:GLN:HE21	1.14	1.09
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.35	1.09
3:D:598:ARG:HH12	5:F:319:THR:HA	1.11	1.08
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.34	1.08
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.13	1.07
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.36	1.06
3:D:218:LYS:HZ1	3:D:370:ALA:HA	1.19	1.06
3:N:31:THR:HG22	3:N:32:ILE:HG13	1.36	1.06
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.32	1.06
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.37	1.06
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.38	1.05
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.36	1.05
3:D:798:GLU:HG2	3:D:799:LYS:H	1.19	1.05
3:D:138:LYS:HD2	3:D:138:LYS:H	1.18	1.05
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	1.87	1.04
3:D:119:SER:HB2	3:D:123:LEU:H	1.17	1.04
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.38	1.04
5:P:163:LEU:HD22	5:P:174:LEU:HG	1.38	1.04
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	1.71	1.04
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.14	1.04
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.23	1.04
2:C:443:THR:HG21	2:C:450:GLY:H	1.17	1.03
2:C:854:PRO:HB2	2:C:856:GLU:HG2	1.39	1.03
3:D:152:LEU:H	3:D:152:LEU:HD23	1.23	1.03
5:F:210:LEU:HA	5:F:213:ILE:HD12	1.37	1.03
2:C:738:ASP:OD2	2:C:744:ARG:HG2	1.58	1.03
3:D:808:THR:HB	3:D:809:PRO:HD3	1.34	1.03
5:F:269:ASN:HB3	5:F:273:ARG:HH21	1.19	1.03
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.40	1.02
3:D:237:LYS:HB3	3:D:238:PRO:HD3	1.40	1.02
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	1.41	1.02
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.41	1.02
3:N:1320:GLU:HG3	3:N:1323:GLN:HE21	1.24	1.02
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.18	1.02
3:D:542:ASP:O	3:D:546:ARG:HG2	1.58	1.02
3:N:217:LYS:HE3	3:N:217:LYS:H	1.23	1.02
2:C:410:ILE:HD11	2:C:455:LEU:HD23	1.40	1.02
1:L:59:GLU:HG3	1:L:60:ASP:H	1.25	1.02
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.24	1.01
3:D:770:LEU:HD23	3:D:777:PRO:HA	1.38	1.01
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.21	1.01
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.43	1.00
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	1.91	1.00
3:N:845:ASN:H	3:N:848:GLU:HG3	1.23	1.00
2:C:49:ARG:HB2	2:C:49:ARG:HH11	1.27	0.99
3:D:1304:LYS:H	3:D:1304:LYS:HE2	1.27	0.99
4:E:82:GLU:H	4:E:82:GLU:CD	1.64	0.99
2:M:30:LEU:HD22	2:M:118:ILE:HD12	1.39	0.99
4:O:54:LEU:HG	4:O:58:PRO:CG	1.92	0.99
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.27	0.99
3:N:1065:LEU:O	3:N:1065:LEU:HD23	1.60	0.99
3:D:119:SER:HB2	3:D:123:LEU:N	1.77	0.99
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.45	0.99
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.45	0.99
3:N:12:LEU:HB2	3:N:507:ASN:HD22	1.27	0.98
5:P:98:GLU:HA	5:P:101:GLU:OE2	1.63	0.98
2:C:897:LEU:HD13	2:C:921:ALA:HB2	1.45	0.98
2:C:577:PRO:HA	2:C:671:ASN:HD21	1.27	0.98
3:D:218:LYS:NZ	3:D:370:ALA:HA	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.46	0.97
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.44	0.97
3:N:1393:GLN:HB3	3:N:1398:TRP:HE1	1.30	0.97
2:M:697:ARG:O	2:M:699:PHE:N	1.96	0.97
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.93	0.97
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.26	0.97
2:C:799:ILE:H	2:C:799:ILE:HD13	1.30	0.97
4:O:51:LEU:HG	4:O:53:GLY:H	1.27	0.97
3:D:1046:GLN:HB3	3:D:1052:THR:HG22	1.47	0.97
2:C:480:THR:HG22	2:C:482:GLU:H	1.30	0.97
2:C:1049:LEU:O	2:C:1053:LEU:HD23	1.64	0.97
3:D:986:ARG:HG3	3:D:990:ASP:OD1	1.65	0.97
3:D:103:TRP:HZ2	3:D:604:THR:HG1	1.07	0.96
2:M:384:GLU:HG3	2:M:388:ARG:HH21	1.24	0.96
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.47	0.96
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.29	0.96
2:C:694:LEU:HD23	2:C:697:ARG:HH21	1.28	0.96
3:N:9:ARG:HD2	3:N:1456:LYS:HG2	1.47	0.96
2:M:650:ARG:H	2:M:650:ARG:HD3	1.31	0.96
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.42	0.96
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.48	0.96
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.47	0.96
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.46	0.96
2:M:86:LYS:HG3	2:M:813:VAL:HG12	1.47	0.96
1:K:91:ASN:ND2	1:K:92:PRO:HD2	1.81	0.96
3:N:175:VAL:HG13	3:N:217:LYS:HD3	1.47	0.95
3:N:590:PRO:HB2	3:N:600:LEU:HD11	1.45	0.95
3:N:558:LEU:HD22	5:P:145:PRO:HB3	1.48	0.95
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.31	0.95
3:N:455:ARG:HE	3:N:463:GLN:NE2	1.64	0.95
4:E:54:LEU:HG	4:E:58:PRO:CG	1.96	0.95
3:D:907:GLU:HG2	3:D:1027:GLY:N	1.81	0.95
2:C:49:ARG:HB2	2:C:49:ARG:NH1	1.82	0.95
3:N:231:VAL:HA	3:N:378:ILE:HG12	1.48	0.95
3:N:546:ARG:NH1	3:N:550:ARG:HH22	1.65	0.95
1:L:77:GLU:HG2	3:N:872:ARG:HH21	1.30	0.94
2:C:420:ARG:HD2	2:C:420:ARG:H	1.28	0.94
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.29	0.94
2:C:1081:VAL:HB	2:C:1086:ARG:NE	1.82	0.94
5:P:169:GLU:H	5:P:169:GLU:CD	1.66	0.94
5:P:350:LEU:HA	5:P:422:LEU:HD13	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1009:SER:HB2	3:N:651:GLU:OE1	1.67	0.94
5:P:141:VAL:O	5:P:145:PRO:HD2	1.68	0.94
2:C:695:LEU:HD13	2:C:832:LYS:HE3	1.50	0.94
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.48	0.94
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.49	0.94
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.50	0.93
2:M:683:ASN:HB2	2:M:687:ALA:O	1.68	0.93
1:B:55:SER:HB3	1:B:143:ARG:HB3	1.50	0.93
2:C:1033:GLY:O	2:C:1037:VAL:HG23	1.68	0.93
3:N:616:GLN:HB2	5:P:326:ASP:HB2	1.51	0.93
3:D:1207:TYR:H	3:D:1366:LYS:HZ1	1.08	0.93
3:D:945:SER:OG	3:D:947:ILE:HG23	1.66	0.93
3:N:141:ILE:H	3:N:141:ILE:HD12	1.30	0.93
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.49	0.93
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.49	0.93
3:D:374:GLU:HG2	3:D:386:HIS:HA	1.51	0.92
3:N:427:VAL:HB	3:N:435:VAL:HB	1.51	0.92
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.51	0.92
2:M:265:ARG:HE	2:M:267:TYR:HA	1.35	0.92
2:C:711:GLU:HG2	2:C:822:VAL:HG12	1.52	0.92
3:D:711:LEU:HG	3:D:778:LEU:HD23	1.52	0.92
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.49	0.92
3:N:897:TRP:CH2	3:N:902:LEU:HD21	2.03	0.92
1:K:2:LEU:HA	1:K:6:LEU:HD22	1.52	0.92
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.50	0.92
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.52	0.92
2:C:438:ILE:HD13	2:C:453:THR:HG21	1.49	0.92
2:C:334:ARG:HB3	2:C:338:GLU:OE2	1.69	0.91
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.51	0.91
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.33	0.91
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.69	0.91
3:N:764:LEU:HG	3:N:765:SER:H	1.34	0.91
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.51	0.91
3:D:1457:ASP:OD1	3:D:1459:LEU:HD23	1.69	0.91
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.52	0.91
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.71	0.91
2:M:1083:GLU:O	2:M:1087:VAL:HG23	1.70	0.91
2:C:516:ARG:NH1	2:C:521:PRO:HB3	1.86	0.91
5:P:364:ARG:O	5:P:368:VAL:HG23	1.69	0.91
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.52	0.90
5:F:161:GLN:HA	5:F:164:LYS:HE3	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1201:CYS:SG	3:N:1204:CYS:HB2	2.11	0.90
5:F:138:SER:O	5:F:141:VAL:HG12	1.70	0.90
2:M:137:VAL:HG21	2:M:393:GLN:HE22	1.36	0.90
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.52	0.90
3:D:911:LEU:O	3:D:913:ASP:N	2.04	0.90
2:M:491:GLU:HB2	2:M:496:ILE:HD11	1.50	0.90
2:M:578:VAL:HG13	2:M:671:ASN:ND2	1.87	0.90
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.51	0.90
3:D:217:LYS:HB2	3:D:217:LYS:NZ	1.86	0.90
3:N:1219:GLU:HG2	3:N:1221:VAL:HG22	1.52	0.90
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.06	0.90
2:C:676:ILE:O	3:D:948:THR:HB	1.72	0.90
1:K:206:THR:HG22	1:K:209:GLU:H	1.36	0.90
2:M:680:ASP:OD1	3:N:943:THR:HG21	1.72	0.90
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.51	0.90
3:N:1372:VAL:O	3:N:1375:MET:HG3	1.71	0.90
4:O:79:LEU:HD12	4:O:80:VAL:HG23	1.54	0.90
2:M:269:LEU:HA	2:M:288:ARG:HE	1.36	0.89
3:N:1258:ARG:HG3	3:N:1258:ARG:HH11	1.36	0.89
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.37	0.89
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.52	0.89
5:P:123:ASP:HB3	5:P:125:ASP:OD1	1.71	0.89
3:D:65:ARG:HD2	3:D:66:GLN:HE21	1.38	0.89
2:M:194:VAL:HG22	2:M:221:LEU:HD12	1.52	0.89
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.37	0.89
3:D:699:VAL:H	3:D:756:GLN:HE22	1.15	0.89
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.37	0.89
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.38	0.89
3:D:932:ASP:OD1	3:D:935:LYS:HD3	1.72	0.89
2:C:426:ASP:HA	2:C:429:ASP:OD2	1.72	0.89
3:D:601:ARG:HD3	3:D:613:ARG:HH21	1.35	0.89
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	1.88	0.89
3:N:126:VAL:HG13	3:N:132:TYR:HB2	1.54	0.89
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.53	0.89
1:K:156:HIS:HD2	1:K:158:ILE:HG12	1.38	0.89
1:A:152:PRO:HD2	1:A:155:LYS:HD2	1.55	0.88
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.52	0.88
2:C:879:ARG:H	2:C:879:ARG:HD2	1.38	0.88
3:D:646:LYS:HG3	3:D:647:ARG:H	1.38	0.88
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.08	0.88
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.56	0.88
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	1.88	0.88
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.56	0.88
3:N:1426:LYS:O	3:N:1429:LEU:HB2	1.74	0.88
2:C:650:ARG:HD3	2:C:650:ARG:N	1.88	0.87
2:C:1016:ILE:HD13	2:C:1016:ILE:N	1.89	0.87
2:C:734:LEU:HA	2:C:737:LEU:HD13	1.54	0.87
1:L:77:GLU:CG	3:N:872:ARG:HH21	1.87	0.87
2:C:949:LYS:HD3	3:D:796:ARG:CZ	2.03	0.87
3:D:1076:GLY:HA2	3:D:1079:LYS:HG2	1.56	0.87
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.57	0.87
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.56	0.87
3:D:1101:VAL:HG21	3:D:1424:VAL:CG2	2.04	0.87
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.56	0.87
5:F:81:VAL:O	5:F:85:LEU:HG	1.74	0.87
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.54	0.87
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.10	0.87
2:M:420:ARG:HD2	2:M:420:ARG:H	1.38	0.87
3:N:521:PRO:O	3:N:525:ARG:NH1	2.08	0.87
3:D:907:GLU:CG	3:D:1027:GLY:H	1.87	0.87
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.54	0.87
2:M:516:ARG:NE	3:N:1068:LEU:HD13	1.90	0.87
2:M:715:THR:HG22	2:M:717:LEU:H	1.40	0.87
1:L:5:LYS:HA	1:L:5:LYS:HE3	1.56	0.87
2:C:101:ILE:HG22	2:C:102:HIS:H	1.40	0.86
2:C:200:LEU:HD22	2:C:300:ASP:HB3	1.57	0.86
2:C:952:LEU:HD12	2:C:969:GLN:NE2	1.91	0.86
3:N:194:GLY:H	3:N:206:ARG:HA	1.39	0.86
2:M:979:THR:HG23	2:M:981:GLU:H	1.38	0.86
3:D:570:GLU:HB2	5:F:214:GLN:HE21	1.41	0.86
3:D:637:LEU:HD11	3:D:642:CYS:HA	1.57	0.86
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.57	0.86
5:P:402:ASN:HB3	5:P:406:ARG:CZ	2.05	0.86
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.10	0.86
3:N:1320:GLU:H	3:N:1323:GLN:NE2	1.72	0.86
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.57	0.86
3:N:1023:MET:O	3:N:1028:ALA:HB3	1.73	0.86
3:N:22:SER:HA	3:N:90:MET:O	1.74	0.86
2:C:682:TYR:HD1	3:D:635:PRO:HG2	1.41	0.86
4:E:51:LEU:HG	4:E:53:GLY:N	1.90	0.86
3:D:149:LYS:HD3	3:D:149:LYS:H	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:950:GLY:N	3:D:953:ASP:OD1	2.07	0.86
5:F:163:LEU:HD13	5:F:174:LEU:HG	1.57	0.86
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.57	0.86
2:C:1087:VAL:O	2:C:1091:GLU:HB2	1.74	0.86
3:D:1331:ASP:HB3	3:D:1334:GLN:NE2	1.90	0.86
3:D:764:LEU:HB3	3:D:767:HIS:HD2	1.39	0.86
2:M:551:GLU:CD	2:M:551:GLU:H	1.74	0.86
3:D:583:ASP:OD1	3:D:604:THR:HG22	1.75	0.86
2:C:1083:GLU:O	2:C:1087:VAL:HG23	1.74	0.85
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.11	0.85
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	1.91	0.85
2:M:413:LEU:HD11	2:M:451:LEU:HD22	1.57	0.85
5:F:164:LYS:HA	5:F:171:LYS:NZ	1.91	0.85
3:D:1313:VAL:HG22	3:D:1314:LYS:H	1.41	0.85
3:D:1345:GLU:O	3:D:1349:VAL:HG23	1.76	0.85
1:A:18:ARG:NH1	1:A:88:ARG:HE	1.74	0.85
5:F:152:ASP:OD2	5:F:153:PRO:HD3	1.75	0.85
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.11	0.85
3:N:149:LYS:HD3	3:N:149:LYS:H	1.42	0.85
4:O:40:LEU:HB2	4:O:45:ARG:HD2	1.58	0.85
1:B:132:LEU:HD21	1:B:138:LEU:HD22	1.58	0.85
3:D:1292:VAL:HG11	3:D:1325:LEU:HD21	1.58	0.85
2:M:759:THR:HB	2:M:785:VAL:HG11	1.57	0.85
3:N:374:GLU:HG2	3:N:386:HIS:HA	1.59	0.85
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.77	0.85
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	1.75	0.85
3:D:584:ASN:OD1	3:D:590:PRO:HD2	1.77	0.85
1:A:12:THR:HG22	1:B:229:GLN:HB3	1.57	0.85
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.12	0.85
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.59	0.85
1:K:26:GLU:HB3	1:K:27:PRO:HD2	1.58	0.85
3:N:12:LEU:H	3:N:507:ASN:ND2	1.75	0.85
3:D:568:ARG:HA	3:D:571:LYS:NZ	1.91	0.84
1:L:107:LYS:HE2	1:L:109:VAL:HG22	1.58	0.84
2:M:405:ARG:NH2	2:M:409:ARG:HH21	1.75	0.84
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.59	0.84
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.59	0.84
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.11	0.84
3:D:661:MET:HE2	3:D:677:LEU:HD11	1.60	0.84
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.60	0.84
3:D:916:TYR:HE2	3:D:920:LEU:HD22	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:290:LEU:H	2:M:290:LEU:HD23	1.41	0.84
1:B:108:GLU:HG2	1:B:131:THR:HG22	1.58	0.84
2:C:200:LEU:HD13	2:C:300:ASP:CG	1.98	0.84
5:F:287:THR:HG23	5:F:289:GLU:H	1.42	0.84
5:P:367:MET:HG3	5:P:370:LYS:HE2	1.59	0.84
1:A:34:VAL:HB	1:B:42:ARG:HH21	1.41	0.84
2:M:545:ASN:OD1	2:M:905:ILE:HD13	1.77	0.84
2:M:630:ARG:HH21	2:M:707:ARG:H	1.24	0.84
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.18	0.84
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.59	0.84
2:M:385:PHE:O	2:M:389:SER:HB3	1.78	0.84
5:F:368:VAL:O	5:F:372:ARG:HB2	1.77	0.84
3:N:368:VAL:HG22	3:N:369:ALA:H	1.43	0.84
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.43	0.83
3:N:1295:GLU:HB3	3:N:1300:SER:HA	1.60	0.83
3:N:436:GLU:HB2	3:N:445:ARG:HB3	1.58	0.83
3:N:126:VAL:HG11	3:N:152:LEU:HD13	1.59	0.83
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.07	0.83
3:D:1333:HIS:O	3:D:1336:LEU:HB3	1.77	0.83
1:L:156:HIS:CD2	1:L:157:GLY:H	1.96	0.83
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.59	0.83
3:N:468:LEU:HD12	3:N:468:LEU:O	1.78	0.83
5:P:196:VAL:HG22	5:P:213:ILE:CD1	2.07	0.83
1:A:184:THR:O	1:A:192:LEU:HB2	1.79	0.83
2:C:1014:SER:HB3	2:C:1017:THR:O	1.79	0.83
3:D:911:LEU:O	3:D:914:LEU:N	2.12	0.83
3:N:1320:GLU:H	3:N:1323:GLN:HE21	1.23	0.83
2:C:710:ILE:HD12	2:C:790:LEU:HB2	1.59	0.83
1:L:89:PHE:HB3	1:L:94:LEU:HD13	1.59	0.83
2:M:910:LYS:H	2:M:913:GLU:HG3	1.42	0.83
2:C:841:ASN:C	2:C:841:ASN:HD22	1.76	0.83
2:M:535:SER:O	2:M:538:GLN:HG2	1.78	0.83
3:N:556:LYS:NZ	5:P:218:GLN:HE22	1.76	0.83
3:N:76:CYS:SG	3:N:78:VAL:HG23	2.19	0.83
3:N:814:ALA:O	3:N:818:ARG:HG3	1.78	0.83
3:D:1149:LEU:HG	3:D:1166:LEU:HD21	1.61	0.83
2:M:1037:VAL:HG12	2:M:1041:GLU:OE1	1.78	0.83
2:M:103:LYS:HA	2:M:103:LYS:HE2	1.60	0.83
2:M:350:ARG:HB2	2:M:377:PRO:HB3	1.59	0.83
2:M:859:PRO:O	2:M:867:VAL:HG22	1.78	0.83
3:D:546:ARG:NH2	3:D:550:ARG:HH22	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1065:LEU:HG	3:N:1069:GLU:OE2	1.79	0.83
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.60	0.83
1:A:123:MET:C	1:A:125:PRO:HD3	1.98	0.82
1:A:72:LYS:HB3	1:A:131:THR:OG1	1.77	0.82
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.61	0.82
3:D:477:LEU:HA	3:D:480:GLU:HB3	1.61	0.82
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.43	0.82
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.60	0.82
2:M:376:ARG:HH21	2:M:379:GLU:HG2	1.41	0.82
3:N:12:LEU:HB2	3:N:507:ASN:ND2	1.93	0.82
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.58	0.82
5:P:354:LEU:HA	5:P:418:LEU:HD11	1.59	0.82
3:D:382:GLU:HG2	3:D:383:GLY:H	1.43	0.82
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.60	0.82
3:N:603:LEU:O	3:N:606:ILE:HB	1.79	0.82
3:D:377:VAL:HG13	3:D:382:GLU:HG2	1.58	0.82
2:M:328:LEU:HB2	2:M:433:THR:HB	1.62	0.82
3:N:976:GLN:O	3:N:979:GLU:HB2	1.79	0.82
4:O:45:ARG:HH12	4:O:72:ARG:HH21	1.22	0.82
2:C:1003:ASP:HA	3:D:744:GLN:HE22	1.44	0.82
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.61	0.82
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.62	0.82
2:C:1118:LYS:HA	3:D:23:TYR:CE1	2.13	0.82
3:D:1342:GLU:HA	3:D:1345:GLU:OE1	1.79	0.82
3:D:235:ALA:HB2	3:D:241:ILE:HB	1.61	0.82
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.60	0.82
3:N:212:ARG:HB3	3:N:394:LEU:HD13	1.62	0.82
1:A:66:SER:O	1:A:75:VAL:HG23	1.78	0.82
2:C:679:PHE:O	2:C:681:GLY:N	2.12	0.82
3:D:1049:SER:OG	3:D:1051:GLU:HG2	1.80	0.82
2:M:65:VAL:HG23	2:M:101:ILE:HB	1.60	0.82
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.09	0.82
1:A:86:VAL:HG12	1:A:124:ASN:ND2	1.94	0.82
3:D:679:ARG:HH22	3:D:681:ARG:NE	1.77	0.82
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.61	0.82
2:C:1081:VAL:CB	2:C:1086:ARG:HE	1.93	0.82
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	1.95	0.82
3:D:609:GLY:CA	3:D:613:ARG:HB3	2.09	0.81
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.61	0.81
1:K:219:ARG:HB3	1:K:219:ARG:HH11	1.45	0.81
1:B:219:ARG:HH21	1:B:220:GLU:HB2	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:528:VAL:HB	3:D:536:ALA:HB3	1.61	0.81
3:N:388:HIS:HB2	5:P:94:LEU:HD21	1.59	0.81
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.60	0.81
2:M:91:GLN:HA	2:M:119:PRO:HA	1.63	0.81
3:D:1262:LEU:HD23	3:D:1352:ILE:HG12	1.61	0.81
3:N:798:GLU:HG2	3:N:799:LYS:H	1.45	0.81
3:D:217:LYS:HZ3	3:D:217:LYS:HB2	1.43	0.81
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.62	0.81
1:K:189:ARG:HG2	1:K:190:THR:H	1.45	0.81
2:M:815:LEU:HG	2:M:819:VAL:HB	1.60	0.81
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.45	0.81
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.45	0.81
3:N:1330:ILE:HG21	3:N:1335:LEU:HD12	1.62	0.81
2:C:695:LEU:HD22	2:C:832:LYS:HG2	1.62	0.81
4:E:54:LEU:O	4:E:54:LEU:HD23	1.80	0.81
2:C:1045:ALA:HA	3:D:758:GLU:OE1	1.79	0.81
3:D:783:ARG:NH2	3:D:1029:ARG:NH1	2.28	0.81
1:L:91:ASN:H	1:L:94:LEU:HD12	1.45	0.81
3:N:217:LYS:HD2	3:N:218:LYS:H	1.43	0.81
3:N:397:LYS:HE2	3:N:399:ARG:HE	1.44	0.81
2:C:1043:TYR:CE2	3:D:710:ARG:HD3	2.16	0.81
3:N:1307:LYS:HG3	3:N:1308:GLU:H	1.45	0.81
2:C:100:LEU:HD21	2:C:368:THR:HA	1.62	0.81
3:D:426:LYS:HB3	5:F:134:LYS:O	1.79	0.81
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.16	0.81
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.63	0.81
2:C:878:SER:HB2	3:D:1029:ARG:HD3	1.60	0.80
3:D:704:ARG:HG3	3:D:705:ALA:N	1.95	0.80
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.63	0.80
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.63	0.80
2:C:710:ILE:CD1	2:C:790:LEU:HB2	2.11	0.80
3:N:984:THR:HG23	3:N:987:GLU:H	1.47	0.80
2:C:21:ILE:HD12	2:C:21:ILE:H	1.45	0.80
3:D:1154:GLU:HG3	3:D:1159:ARG:HH11	1.46	0.80
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.11	0.80
3:D:774:SER:HB3	3:D:1362:LYS:O	1.81	0.80
1:B:2:LEU:O	1:B:6:LEU:HB3	1.80	0.80
3:D:1003:VAL:O	3:D:1006:ALA:HB3	1.81	0.80
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.09	0.80
3:D:570:GLU:HB2	5:F:214:GLN:NE2	1.97	0.80
2:M:1014:SER:HB3	2:M:1017:THR:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:234:GLU:HB3	3:D:240:GLU:HB2	1.64	0.80
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.61	0.80
5:P:196:VAL:CG1	5:P:200:LYS:HE3	2.12	0.80
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.17	0.80
2:C:670:GLN:HG2	2:C:699:PHE:CD2	2.16	0.80
1:A:1:MET:O	1:A:6:LEU:HD22	1.81	0.80
2:C:474:VAL:HG23	2:C:478:VAL:O	1.82	0.80
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.12	0.80
1:A:58:ILE:HB	1:A:61:VAL:HB	1.61	0.80
2:C:915:LYS:NZ	3:D:952:ASP:OD1	2.15	0.80
2:M:1055:LEU:N	2:M:1055:LEU:HD23	1.97	0.80
2:M:89:THR:HA	2:M:129:ILE:O	1.81	0.80
2:M:21:ILE:HD12	2:M:21:ILE:H	1.45	0.80
2:M:674:VAL:HG21	2:M:992:MET:HE1	1.64	0.80
3:N:486:ARG:HH21	3:N:489:ARG:CZ	1.95	0.80
5:P:132:ARG:O	5:P:136:LEU:HG	1.82	0.80
2:M:910:LYS:H	2:M:913:GLU:CG	1.94	0.79
3:N:1271:LYS:HZ3	3:N:1273:VAL:HA	1.44	0.79
2:M:1109:VAL:HG22	3:N:3:LYS:HB2	1.64	0.79
5:P:105:LYS:HB3	5:P:105:LYS:NZ	1.98	0.79
5:F:386:VAL:HG13	5:F:387:GLY:H	1.47	0.79
1:K:33:GLY:HA2	1:K:195:LEU:HB2	1.64	0.79
1:L:133:GLU:HG3	1:L:134:GLU:H	1.47	0.79
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.62	0.79
1:A:195:LEU:HD12	1:A:196:THR:N	1.97	0.79
2:C:1076:VAL:HG22	3:D:752:SER:HB3	1.63	0.79
3:N:1115:THR:HB	3:N:1151:ARG:NH2	1.97	0.79
1:L:201:THR:HG21	1:L:205:VAL:O	1.82	0.79
2:M:1018:GLN:HG3	2:M:1060:ILE:CD1	2.12	0.79
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.64	0.79
3:D:1154:GLU:HG2	3:D:1159:ARG:HG2	1.63	0.79
1:L:137:ARG:NH1	1:L:139:ASN:HB3	1.97	0.79
3:N:36:THR:HG22	3:N:38:LYS:HG3	1.62	0.79
1:A:1:MET:HB2	1:A:6:LEU:HD13	1.65	0.79
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.63	0.79
3:N:195:VAL:HB	3:N:205:TYR:HB2	1.64	0.79
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.17	0.79
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.65	0.79
2:M:205:GLU:O	2:M:209:ARG:HD2	1.83	0.79
3:N:1156:LEU:HD12	3:N:1177:ALA:HB2	1.65	0.79
4:O:54:LEU:CG	4:O:58:PRO:HG2	2.06	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1052:MET:HA	2:C:1056:LYS:HD2	1.63	0.79
2:C:436:GLY:HA2	2:C:538:GLN:O	1.83	0.79
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.65	0.79
2:M:1055:LEU:HD21	2:M:1079:PRO:CG	2.12	0.79
3:N:461:ILE:HG22	3:N:465:LEU:HD12	1.65	0.79
3:N:710:ARG:HH11	3:N:772:PRO:HG2	1.48	0.79
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.65	0.78
4:E:45:ARG:NH2	4:E:72:ARG:HH21	1.81	0.78
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.48	0.78
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.64	0.78
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.66	0.78
3:D:1462:LEU:HD13	3:D:1472:ILE:HG23	1.63	0.78
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.65	0.78
3:D:691:LEU:HD23	3:D:720:LEU:HD21	1.64	0.78
1:K:189:ARG:HD2	1:K:191:ASP:OD1	1.83	0.78
2:M:432:ARG:HH22	3:N:1047:LYS:CD	1.97	0.78
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.18	0.78
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.04	0.78
2:M:534:VAL:H	2:M:538:GLN:HE22	1.28	0.78
3:N:387:LEU:HD12	5:P:96:LEU:HD12	1.63	0.78
2:C:399:ASN:ND2	2:C:568:ALA:O	2.16	0.78
3:N:9:ARG:HB2	3:N:1456:LYS:HA	1.64	0.78
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.84	0.78
3:D:1087:ARG:HE	3:D:1238:MET:HB2	1.48	0.78
3:D:1129:THR:HG23	3:D:1130:ARG:N	1.97	0.78
3:D:1304:LYS:CE	3:D:1304:LYS:H	1.95	0.78
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.18	0.78
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.65	0.78
3:N:954:ALA:HA	3:N:1039:CYS:SG	2.24	0.78
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.17	0.78
3:N:584:ASN:ND2	3:N:590:PRO:HD2	1.97	0.78
2:C:504:GLU:HB2	2:C:507:ARG:HB3	1.63	0.78
3:D:40:GLU:HG3	3:D:41:ARG:H	1.48	0.78
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.64	0.78
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.04	0.78
3:N:23:TYR:CE2	3:N:89:ARG:HD3	2.19	0.78
2:C:291:ALA:O	2:C:299:LYS:HE2	1.83	0.78
2:C:769:PRO:HB2	3:D:65:ARG:HH22	1.49	0.78
3:N:1281:VAL:HG22	3:N:1294:VAL:HG22	1.66	0.78
1:A:201:THR:HG22	1:A:203:GLY:H	1.46	0.78
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.65	0.78
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.65	0.78
2:C:1094:ALA:CB	3:D:603:LEU:HD22	2.14	0.77
2:M:18:LEU:HD22	2:M:590:ASP:OD2	1.85	0.77
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.66	0.77
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.14	0.77
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.65	0.77
2:C:420:ARG:CD	2:C:420:ARG:H	1.98	0.77
2:C:863:ASP:OD2	2:C:864:GLY:N	2.16	0.77
3:D:1198:TYR:OH	3:D:1394:VAL:HG21	1.84	0.77
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.13	0.77
2:M:351:LEU:HD11	2:M:373:VAL:HG13	1.66	0.77
2:M:726:ILE:HD11	2:M:754:ILE:HG21	1.66	0.77
5:P:389:PHE:CD2	5:P:397:ILE:HD11	2.18	0.77
5:P:74:LYS:HE2	5:P:74:LYS:HA	1.67	0.77
2:C:468:ARG:HG2	2:C:487:THR:HA	1.66	0.77
3:D:1229:ILE:HD11	3:D:1368:ILE:HG12	1.66	0.77
3:D:773:ALA:O	3:D:1363:LEU:HA	1.84	0.77
3:N:1191:PRO:HD2	3:N:1369:GLU:OE1	1.85	0.77
2:C:854:PRO:HB2	2:C:856:GLU:CG	2.14	0.77
3:D:131:LYS:CA	3:D:456:MET:HG3	2.10	0.77
5:F:395:GLU:O	5:F:399:GLN:HB2	1.83	0.77
1:L:71:VAL:HG22	1:L:132:LEU:HG	1.65	0.77
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.19	0.77
2:C:474:VAL:HG23	2:C:478:VAL:C	2.05	0.77
2:C:966:LEU:HD21	2:C:986:PRO:HG3	1.66	0.77
3:D:194:GLY:H	3:D:206:ARG:HA	1.50	0.77
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.65	0.77
2:M:553:ASP:OD2	2:M:881:ASN:HB2	1.84	0.77
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.82	0.77
3:N:37:LEU:HD11	3:N:529:GLN:HE21	1.49	0.77
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.65	0.77
5:F:271:LEU:HD12	5:F:308:LEU:HD21	1.65	0.77
5:F:373:LYS:HA	5:F:378:GLY:HA2	1.67	0.77
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.67	0.77
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.65	0.77
5:P:196:VAL:HG12	5:P:200:LYS:HE3	1.67	0.77
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.47	0.77
2:M:1109:VAL:HG12	2:M:1110:ASP:H	1.50	0.77
2:M:328:LEU:H	2:M:433:THR:HG21	1.48	0.77
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG21	2.20	0.77
3:D:609:GLY:HA3	3:D:614:PHE:H	1.48	0.77
3:D:937:TYR:HD1	3:D:937:TYR:H	1.33	0.77
3:N:709:HIS:NE2	3:N:711:LEU:HB2	1.99	0.77
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.66	0.77
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.15	0.77
2:M:795:GLY:O	2:M:796:GLU:HG2	1.85	0.77
3:N:1136:LYS:HB2	3:N:1139:ASP:OD1	1.83	0.77
3:N:1321:ALA:O	3:N:1339:LYS:HD3	1.84	0.77
3:N:387:LEU:HD21	5:P:97:GLU:OE2	1.85	0.77
2:C:627:ARG:HG3	2:C:628:PHE:H	1.49	0.77
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.00	0.77
5:P:95:THR:O	5:P:96:LEU:HD23	1.86	0.77
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.67	0.76
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.67	0.76
2:C:1032:PHE:O	3:D:620:GLY:HA2	1.84	0.76
5:F:102:LEU:O	5:F:106:VAL:HG23	1.85	0.76
2:M:1016:ILE:HD13	2:M:1016:ILE:N	1.98	0.76
2:M:56:GLU:H	2:M:64:LEU:HB3	1.50	0.76
1:B:152:PRO:HB2	1:B:155:LYS:HB2	1.67	0.76
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.66	0.76
3:D:525:ARG:N	3:D:526:PRO:HD3	1.98	0.76
3:N:840:LYS:HZ3	3:N:840:LYS:HB2	1.49	0.76
5:P:88:ILE:HD13	5:P:193:ARG:HD2	1.66	0.76
1:A:158:ILE:HD13	1:A:159:LYS:N	2.00	0.76
3:N:1042:ARG:HH12	3:N:1045:MET:CE	1.98	0.76
3:N:376:GLU:HB3	3:N:384:VAL:HG13	1.66	0.76
3:D:1155:VAL:HG13	3:D:1183:ILE:HD11	1.66	0.76
3:D:549:ASN:ND2	5:F:254:GLN:HE21	1.83	0.76
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.19	0.76
2:C:870:ILE:O	2:C:871:LEU:HD12	1.86	0.76
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.10	0.76
3:D:1471:LEU:HD23	3:D:1482:ARG:NH1	2.01	0.76
3:D:90:MET:HE2	3:D:519:VAL:H	1.49	0.76
4:O:51:LEU:HG	4:O:52:GLU:H	1.51	0.76
2:C:1099:VAL:HG12	3:D:10:ILE:HG12	1.66	0.76
2:C:102:HIS:HE1	2:C:367:LEU:HD21	1.50	0.76
2:C:504:GLU:OE1	2:C:507:ARG:HD2	1.83	0.76
2:C:650:ARG:HD3	2:C:650:ARG:H	1.50	0.76
3:D:1304:LYS:N	3:D:1304:LYS:HE2	2.00	0.76
3:D:131:LYS:HA	3:D:456:MET:CG	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:628:ARG:HG2	3:D:629:SER:H	1.51	0.76
3:D:714:GLN:HE22	3:D:735:ALA:CB	1.99	0.76
1:L:156:HIS:HD2	1:L:157:GLY:H	1.30	0.76
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.50	0.76
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.68	0.76
3:D:28:LYS:O	3:D:43:GLY:HA2	1.86	0.76
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.14	0.76
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.01	0.76
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.66	0.76
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.21	0.76
3:D:646:LYS:HG3	3:D:647:ARG:N	2.00	0.76
3:D:79:GLU:HG2	3:D:80:VAL:H	1.50	0.76
1:K:219:ARG:NH1	1:K:220:GLU:N	2.33	0.76
1:K:26:GLU:CB	1:K:27:PRO:HD2	2.16	0.76
2:M:798:GLY:C	2:M:799:ILE:HD13	2.07	0.76
3:D:112:ILE:HD11	3:D:124:GLU:HG2	1.66	0.76
3:D:724:GLN:HG2	3:D:724:GLN:O	1.85	0.76
3:D:868:TYR:CD1	3:D:869:MET:HG3	2.20	0.76
2:M:42:VAL:HG12	2:M:43:GLY:H	1.51	0.76
3:N:1183:ILE:HG22	3:N:1184:GLN:H	1.51	0.76
3:N:950:GLY:O	3:N:953:ASP:HB2	1.84	0.76
4:O:45:ARG:HH12	4:O:72:ARG:NH2	1.83	0.76
4:O:45:ARG:NH1	4:O:72:ARG:HH21	1.83	0.76
5:P:416:ARG:HD3	5:P:419:ARG:HG3	1.68	0.76
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.25	0.76
3:N:455:ARG:HE	3:N:463:GLN:HE21	1.33	0.76
2:C:578:VAL:HG11	2:C:991:GLN:OE1	1.85	0.75
3:D:425:GLY:O	3:D:427:VAL:HG23	1.85	0.75
2:M:622:GLU:HG2	2:M:624:PRO:HD3	1.68	0.75
3:N:1320:GLU:HG3	3:N:1323:GLN:NE2	1.98	0.75
4:O:22:VAL:HG11	4:O:68:LEU:HD21	1.68	0.75
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.21	0.75
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.51	0.75
3:D:234:GLU:CD	3:D:234:GLU:H	1.89	0.75
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.67	0.75
2:M:366:SER:O	2:M:371:LYS:HE3	1.86	0.75
3:D:711:LEU:HG	3:D:778:LEU:CD2	2.16	0.75
2:M:798:GLY:O	2:M:799:ILE:HD13	1.86	0.75
5:P:406:ARG:HA	5:P:409:LYS:HE2	1.68	0.75
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.51	0.75
1:A:46:SER:O	1:A:47:SER:HB2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.21	0.75
3:D:1437:ALA:O	3:D:1446:VAL:HG21	1.86	0.75
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.85	0.75
3:D:947:ILE:O	3:D:947:ILE:HD12	1.87	0.75
1:K:64:GLU:HG2	1:K:76:VAL:HG22	1.69	0.75
2:M:1044:GLY:CA	3:N:762:GLN:HE22	2.00	0.75
2:M:910:LYS:HB2	2:M:913:GLU:HG3	1.69	0.75
1:A:25:LEU:HD23	1:A:25:LEU:O	1.87	0.75
1:B:62:LEU:HA	1:B:163:ASN:HB3	1.68	0.75
3:D:592:THR:OG1	3:D:600:LEU:HD21	1.87	0.75
3:D:804:LEU:HD21	3:D:829:VAL:HG11	1.66	0.75
1:K:218:LEU:HD23	1:L:222:LEU:HD11	1.68	0.75
2:M:445:GLU:OE2	2:M:560:MET:HG2	1.86	0.75
2:M:863:ASP:O	2:M:865:THR:N	2.19	0.75
3:N:699:VAL:H	3:N:756:GLN:NE2	1.83	0.75
3:N:834:THR:HB	3:N:838:ARG:HB2	1.68	0.75
5:P:123:ASP:HB3	5:P:125:ASP:CG	2.07	0.75
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.68	0.75
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.52	0.75
3:D:161:LEU:O	3:D:449:SER:HB2	1.86	0.75
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.69	0.75
2:M:137:VAL:HG21	2:M:393:GLN:NE2	2.00	0.75
2:C:632:ASN:HB2	2:C:633:GLN:NE2	2.02	0.75
3:D:119:SER:CB	3:D:123:LEU:HB2	2.16	0.75
3:D:1396:GLU:HG2	3:D:1399:ASP:HB2	1.69	0.75
2:M:957:LYS:HD3	2:M:961:GLU:HB3	1.69	0.75
3:D:73:CYS:HB3	3:D:76:CYS:O	1.87	0.75
3:D:783:ARG:HE	3:D:1029:ARG:NE	1.84	0.75
5:F:179:GLU:O	5:F:182:ALA:HB3	1.87	0.75
2:M:775:ARG:HD2	2:M:782:ALA:HB3	1.68	0.75
3:N:853:VAL:HG11	3:N:860:LEU:HG	1.67	0.75
2:M:886:LEU:HD11	3:N:951:ILE:HG13	1.69	0.75
3:N:984:THR:CG2	3:N:987:GLU:H	2.00	0.75
2:C:1095:LEU:HA	3:D:582:LEU:HD22	1.69	0.74
2:C:682:TYR:CZ	2:C:851:LYS:HE2	2.22	0.74
3:D:1370:ILE:HG22	3:D:1371:VAL:N	2.01	0.74
3:D:734:GLU:HG2	3:D:780:LYS:HE2	1.67	0.74
2:M:876:VAL:HG22	2:M:884:GLN:NE2	2.02	0.74
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.60	0.74
3:N:988:ARG:NH1	3:N:992:ILE:HD11	2.01	0.74
5:P:105:LYS:HE3	5:P:179:GLU:HG2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.68	0.74
2:C:1091:GLU:OE2	3:D:606:ILE:HG21	1.87	0.74
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.02	0.74
1:L:108:GLU:HB3	1:L:128:HIS:HE1	1.52	0.74
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.69	0.74
2:C:471:TYR:CD2	2:C:496:ILE:HD13	2.23	0.74
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.18	0.74
2:C:674:VAL:HG23	2:C:869:VAL:HG13	1.69	0.74
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.87	0.74
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.69	0.74
1:K:143:ARG:HD3	1:K:158:ILE:HG21	1.67	0.74
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	1.68	0.74
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.69	0.74
2:M:549:PHE:HE2	2:M:887:GLU:HA	1.52	0.74
2:M:430:VAL:HG23	3:N:1078:ARG:NH1	2.02	0.74
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.49	0.74
4:E:51:LEU:HG	4:E:52:GLU:N	2.03	0.74
2:M:1008:ARG:HD2	2:M:1029:GLY:N	2.02	0.74
5:P:369:LEU:HD12	5:P:401:GLU:HG3	1.68	0.74
3:D:729:HIS:CE1	3:D:731:LEU:H	2.05	0.74
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.70	0.74
1:A:226:SER:O	1:A:228:PRO:HD3	1.87	0.74
3:D:1065:LEU:HD23	3:D:1070:TYR:CD2	2.22	0.74
3:D:1095:THR:OG1	3:D:1230:GLY:HA3	1.86	0.74
3:N:139:GLY:HA2	3:N:452:ILE:HG13	1.70	0.74
2:C:694:LEU:HD23	2:C:697:ARG:NH2	2.03	0.74
2:C:771:GLU:HG2	2:C:771:GLU:O	1.87	0.74
3:D:1207:TYR:O	3:D:1208:ASP:O	2.06	0.74
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.69	0.74
2:M:565:GLN:C	2:M:567:GLN:H	1.89	0.74
3:N:576:GLU:HA	3:N:579:ASP:OD2	1.88	0.74
2:M:1071:ILE:HG23	3:N:670:VAL:HG21	1.68	0.74
4:O:24:ALA:O	4:O:28:GLN:HG3	1.87	0.74
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.69	0.74
3:D:570:GLU:OE2	5:F:214:GLN:HG3	1.87	0.74
1:K:194:LYS:HG2	1:K:194:LYS:O	1.88	0.74
2:M:1008:ARG:HH12	2:M:1010:THR:HA	1.52	0.74
2:M:259:GLY:O	2:M:291:ALA:HB2	1.87	0.74
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.70	0.74
3:N:959:GLU:HB2	3:N:963:TYR:CE1	2.22	0.74
2:C:844:GLY:O	2:C:846:LYS:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:139:GLY:HA3	3:D:452:ILE:HD12	1.70	0.74
2:M:1088:LEU:O	2:M:1091:GLU:HB2	1.88	0.74
2:M:545:ASN:HB3	2:M:583:LEU:HD12	1.67	0.74
3:N:231:VAL:HA	3:N:378:ILE:CG1	2.18	0.74
1:B:133:GLU:HG3	1:B:134:GLU:H	1.52	0.74
3:D:224:ARG:HD3	3:D:224:ARG:H	1.52	0.74
3:D:367:ILE:CD1	3:D:368:VAL:H	2.01	0.74
3:D:770:LEU:CD2	3:D:777:PRO:HA	2.18	0.74
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.36	0.74
3:N:1167:SER:N	3:N:1170:ASP:OD2	2.16	0.74
3:N:438:ASP:HB3	3:N:443:VAL:HB	1.70	0.74
1:A:152:PRO:HB3	1:A:154:GLU:OE1	1.88	0.73
2:C:79:PRO:HG2	2:C:82:GLU:HB2	1.70	0.73
3:D:1331:ASP:OD1	3:D:1334:GLN:HG3	1.88	0.73
1:K:56:VAL:HG21	1:K:79:ILE:HG22	1.70	0.73
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.23	0.73
5:P:362:SER:O	5:P:366:ALA:HB3	1.88	0.73
3:D:225:LEU:HD12	3:D:440:VAL:HG21	1.70	0.73
3:D:619:LEU:HG	3:D:619:LEU:O	1.88	0.73
2:M:516:ARG:CZ	3:N:1068:LEU:HD13	2.18	0.73
3:N:385:VAL:HB	3:N:387:LEU:HD11	1.70	0.73
5:P:79:ASP:HB3	5:P:80:PRO:HD3	1.68	0.73
2:C:884:GLN:HG2	2:C:885:ILE:HD13	1.70	0.73
3:D:1340:GLY:O	3:D:1343:ALA:HB3	1.87	0.73
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.70	0.73
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.68	0.73
2:C:869:VAL:HG22	2:C:870:ILE:H	1.54	0.73
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.50	0.73
3:D:1376:MET:O	3:D:1378:TYR:N	2.18	0.73
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.03	0.73
3:D:601:ARG:HD3	3:D:613:ARG:NH2	2.03	0.73
3:D:616:GLN:CA	3:D:619:LEU:HB3	2.18	0.73
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.24	0.73
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.52	0.73
2:M:838:LYS:HD3	2:M:846:LYS:HZ1	1.54	0.73
3:N:133:ILE:HG23	3:N:456:MET:SD	2.27	0.73
2:C:207:LEU:HD22	2:C:221:LEU:HD21	1.71	0.73
2:C:738:ASP:HB2	2:C:744:ARG:HB3	1.71	0.73
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.85	0.73
3:N:423:ASP:H	5:P:178:ARG:HH12	1.35	0.73
3:N:473:LEU:HD12	3:N:476:GLU:OE1	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:764:LEU:CG	3:N:765:SER:H	2.00	0.73
5:P:88:ILE:HD11	5:P:193:ARG:HB2	1.68	0.73
1:B:188:GLN:HG3	1:B:189:ARG:HD2	1.71	0.73
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.69	0.73
2:C:235:LEU:O	2:C:239:PHE:HB2	1.88	0.73
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.71	0.73
3:D:1130:ARG:HD2	3:D:1131:SER:H	1.54	0.73
5:F:287:THR:HG22	5:F:290:GLU:OE1	1.89	0.73
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.24	0.73
3:N:215:TYR:OH	5:P:101:GLU:HB2	1.89	0.73
2:C:63:GLY:HA3	2:C:103:LYS:HG3	1.69	0.73
2:C:562:SER:C	2:C:563:ASN:HD22	1.92	0.73
2:M:534:VAL:H	2:M:538:GLN:NE2	1.86	0.73
3:N:679:ARG:NH1	3:N:682:ASP:OD1	2.22	0.73
1:B:181:VAL:HG12	1:B:193:ASP:HB3	1.70	0.73
2:C:1031:ARG:HD3	3:D:619:LEU:O	1.89	0.73
2:C:226:VAL:HG13	2:C:227:PHE:H	1.53	0.73
2:C:874:LEU:O	3:D:1029:ARG:HD2	1.89	0.73
3:D:820:GLU:HB2	3:D:836:VAL:HG21	1.68	0.73
5:F:234:LYS:HD2	5:F:236:SER:H	1.54	0.73
5:F:205:ARG:NE	5:F:251:ILE:HD13	2.03	0.73
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.70	0.73
1:L:100:LEU:HD12	1:L:115:LEU:HD11	1.70	0.73
5:P:88:ILE:HD13	5:P:193:ARG:HH11	1.52	0.73
3:D:1109:GLU:CD	3:D:1110:ALA:N	2.41	0.73
3:D:616:GLN:HA	3:D:619:LEU:CB	2.19	0.73
2:M:565:GLN:O	2:M:567:GLN:N	2.20	0.73
2:M:630:ARG:HH21	2:M:707:ARG:N	1.87	0.73
2:C:769:PRO:HG2	3:D:65:ARG:HH12	1.51	0.73
3:D:1353:GLN:HB3	3:D:1357:ARG:CZ	2.19	0.73
3:D:598:ARG:NH1	5:F:320:PRO:HD3	2.04	0.73
3:D:423:ASP:OD1	5:F:175:HIS:CE1	2.42	0.73
2:M:901:TYR:HE2	2:M:917:LEU:CD1	2.02	0.73
3:N:601:ARG:HG2	3:N:606:ILE:HG13	1.68	0.73
5:P:169:GLU:N	5:P:169:GLU:CD	2.39	0.73
2:C:966:LEU:HD11	2:C:986:PRO:HG2	1.71	0.72
2:C:988:VAL:HG12	3:D:948:THR:OG1	1.88	0.72
3:D:679:ARG:HH22	3:D:681:ARG:CD	2.02	0.72
3:N:1066:THR:HG23	3:N:1069:GLU:HG3	1.71	0.72
5:P:416:ARG:NH1	5:P:419:ARG:HD2	2.04	0.72
2:C:593:ALA:HB1	2:C:659:PRO:CD	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:679:ARG:HH22	3:D:681:ARG:HE	1.37	0.72
3:D:918:ALA:O	3:D:922:LEU:HB2	1.89	0.72
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.70	0.72
3:N:228:ALA:O	3:N:231:VAL:HG22	1.88	0.72
3:N:515:GLU:HG3	3:N:515:GLU:O	1.89	0.72
2:C:98:LEU:HD12	2:C:113:VAL:HG21	1.68	0.72
3:D:783:ARG:HH21	3:D:1029:ARG:NH1	1.85	0.72
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.89	0.72
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.69	0.72
5:P:234:LYS:HE3	5:P:236:SER:HB3	1.71	0.72
3:D:1382:THR:O	3:D:1384:PRO:HD3	1.89	0.72
3:D:416:ALA:H	3:D:417:PRO:CD	2.02	0.72
3:N:560:GLN:HA	3:N:560:GLN:HE21	1.53	0.72
1:A:5:LYS:HE2	1:A:5:LYS:HA	1.71	0.72
2:C:695:LEU:HD21	2:C:833:LEU:HB3	1.70	0.72
3:D:783:ARG:NH2	3:D:1029:ARG:CZ	2.52	0.72
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.53	0.72
1:K:62:LEU:H	1:K:62:LEU:HD12	1.54	0.72
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.25	0.72
3:N:675:ARG:HH11	3:N:675:ARG:HB3	1.54	0.72
5:P:181:GLU:O	5:P:184:ARG:HB3	1.88	0.72
3:D:1331:ASP:CB	3:D:1334:GLN:HE21	1.98	0.72
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.72	0.72
3:D:185:VAL:HG12	3:D:191:LEU:HD21	1.72	0.72
3:D:367:ILE:HD13	3:D:368:VAL:H	1.54	0.72
3:D:826:PRO:HB2	3:D:829:VAL:HG22	1.71	0.72
1:K:2:LEU:HA	1:K:6:LEU:CD2	2.20	0.72
2:M:95:TYR:CE2	2:M:114:PHE:HB3	2.25	0.72
2:M:575:GLN:HE21	2:M:900:ARG:HH22	1.36	0.72
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.52	0.72
3:N:175:VAL:HG13	3:N:217:LYS:CD	2.20	0.72
3:N:35:ARG:HB3	3:N:35:ARG:HH11	1.54	0.72
2:M:949:LYS:HZ3	3:N:796:ARG:HH21	1.37	0.72
5:P:163:LEU:HB3	5:P:174:LEU:HD12	1.72	0.72
2:C:605:LYS:HB3	2:C:610:ARG:NH1	2.04	0.72
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.19	0.72
3:D:994:GLN:HE21	3:D:998:GLU:CG	2.02	0.72
5:F:128:ARG:HG2	5:F:132:ARG:HH12	1.54	0.72
3:N:216:VAL:HG11	3:N:221:ALA:HA	1.72	0.72
2:M:1103:ASP:OD1	3:N:3:LYS:HB3	1.89	0.72
3:N:701:LEU:HD21	3:N:763:MET:CE	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1009:SER:HB2	3:D:651:GLU:O	1.90	0.72
3:D:387:LEU:CB	5:F:97:GLU:HG2	2.20	0.72
1:K:205:VAL:HG23	1:K:206:THR:N	2.05	0.72
3:D:911:LEU:O	3:D:912:LYS:C	2.28	0.72
2:M:1008:ARG:NH1	2:M:1010:THR:HA	2.05	0.72
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.55	0.72
3:N:1087:ARG:HB3	3:N:1234:THR:HG23	1.72	0.72
3:N:150:ARG:HH12	3:N:464:LEU:HD22	1.55	0.72
3:N:880:ILE:O	3:N:883:ALA:HB3	1.90	0.72
3:N:975:GLU:CD	3:N:988:ARG:HH12	1.92	0.72
3:N:385:VAL:HG13	5:P:232:ARG:NH1	2.04	0.72
1:A:18:ARG:HH12	1:A:88:ARG:HE	1.36	0.71
2:M:1055:LEU:HD23	2:M:1055:LEU:H	1.53	0.71
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.54	0.71
3:N:1498:ALA:HA	3:N:1501:GLU:CD	2.10	0.71
3:N:673:ALA:O	3:N:676:MET:N	2.22	0.71
2:C:19:THR:HG21	2:C:124:ASP:O	1.91	0.71
2:C:497:ALA:HA	2:C:515:ALA:HA	1.71	0.71
2:C:587:VAL:HG11	2:C:666:LEU:HD22	1.72	0.71
2:C:905:ILE:HG23	2:C:906:PHE:N	2.05	0.71
3:D:1194:CYS:SG	3:D:1201:CYS:SG	2.88	0.71
5:F:77:THR:O	5:F:81:VAL:HG23	1.89	0.71
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.55	0.71
3:D:1149:LEU:HD23	3:D:1187:PRO:O	1.90	0.71
2:M:73:LEU:HD11	2:M:118:ILE:HD11	1.72	0.71
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.71	0.71
2:M:910:LYS:N	2:M:913:GLU:HG3	2.05	0.71
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.05	0.71
2:C:158:TYR:O	2:C:310:LEU:HD11	1.90	0.71
2:M:436:GLY:HA2	2:M:538:GLN:O	1.89	0.71
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.71	0.71
2:C:693:GLU:OE1	2:C:696:LYS:HD2	1.90	0.71
2:C:728:HIS:C	2:C:729:LEU:HD22	2.11	0.71
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.21	0.71
3:D:1346:ARG:NH1	3:D:1346:ARG:HA	2.05	0.71
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	1.70	0.71
3:D:960:LYS:HG2	3:D:964:LEU:HD12	1.71	0.71
1:K:65:PHE:HE2	2:M:830:LYS:HG3	1.55	0.71
2:M:749:VAL:HG11	2:M:755:LEU:CD2	2.20	0.71
3:N:569:ASN:O	3:N:572:ARG:HB3	1.90	0.71
3:N:840:LYS:NZ	3:N:840:LYS:HB2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.71	0.71
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.89	0.71
2:M:838:LYS:CE	2:M:846:LYS:HZ1	2.04	0.71
4:O:39:VAL:HG22	4:O:67:GLU:CD	2.11	0.71
2:C:349:ALA:O	2:C:353:ARG:HG3	1.91	0.71
2:C:731:GLU:HA	2:C:734:LEU:HD23	1.71	0.71
2:C:801:VAL:HG22	2:C:826:TYR:O	1.90	0.71
3:D:1341:PRO:O	3:D:1345:GLU:HG3	1.89	0.71
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.91	0.71
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.54	0.71
1:K:219:ARG:NH1	1:K:220:GLU:H	1.88	0.71
2:M:909:ALA:C	2:M:910:LYS:HD2	2.11	0.71
3:N:1036:ARG:HB3	3:N:1036:ARG:NH1	2.05	0.71
3:N:1183:ILE:HG22	3:N:1184:GLN:N	2.06	0.71
3:N:864:VAL:HG12	3:N:865:THR:H	1.56	0.71
1:B:201:THR:HG21	1:B:205:VAL:O	1.90	0.71
3:D:86:ARG:O	3:D:522:PRO:HD2	1.90	0.71
3:D:808:THR:HB	3:D:809:PRO:CD	2.17	0.71
2:M:181:VAL:HG12	2:M:182:VAL:H	1.56	0.71
3:N:84:ILE:O	3:N:86:ARG:N	2.23	0.71
5:P:191:ASN:O	5:P:220:LEU:HD22	1.91	0.71
1:B:185:ARG:HB2	1:B:190:THR:HG23	1.72	0.71
2:C:1105:LYS:O	2:C:1107:ASN:N	2.24	0.71
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	2.06	0.71
2:C:593:ALA:HB1	2:C:659:PRO:HD3	1.73	0.71
2:C:785:VAL:HG22	2:C:786:LYS:H	1.56	0.71
3:D:90:MET:HE2	3:D:519:VAL:N	2.03	0.71
1:K:13:VAL:HG12	1:K:14:ARG:N	2.05	0.71
1:K:219:ARG:NH2	1:K:220:GLU:HA	2.06	0.71
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.73	0.71
2:M:943:VAL:HG13	2:M:985:GLY:H	1.55	0.71
3:N:1479:ASP:OD1	3:N:1482:ARG:HD3	1.90	0.71
2:C:877:PRO:HG3	3:D:1023:MET:HE3	1.71	0.71
3:D:130:SER:HG	3:D:132:TYR:HE1	1.38	0.71
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.09	0.71
5:F:88:ILE:HG21	5:F:193:ARG:HD3	1.73	0.71
3:N:1124:GLN:OE1	3:N:1135:ARG:HG3	1.91	0.71
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.39	0.71
3:N:224:ARG:HD2	3:N:224:ARG:C	2.11	0.71
2:C:172:ILE:H	2:C:172:ILE:HD12	1.55	0.70
2:C:332:ARG:HH21	2:C:464:LEU:HD11	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:549:PHE:HE2	2:C:887:GLU:N	1.89	0.70
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.25	0.70
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.73	0.70
2:M:1066:ALA:O	2:M:1069:ALA:HB3	1.91	0.70
2:M:269:LEU:CA	2:M:288:ARG:HE	2.03	0.70
2:C:957:LYS:HD2	2:C:965:GLU:OE2	1.91	0.70
3:N:590:PRO:O	3:N:600:LEU:HD21	1.91	0.70
3:N:983:LEU:HA	3:N:987:GLU:OE2	1.90	0.70
2:C:368:THR:HB	2:C:369:PRO:HD3	1.74	0.70
2:M:760:SER:O	2:M:785:VAL:HG13	1.90	0.70
1:B:87:VAL:HG12	1:B:122:ILE:HG12	1.72	0.70
3:D:25:GLU:OE1	3:D:27:GLU:HB3	1.91	0.70
3:D:387:LEU:HB3	5:F:97:GLU:HG2	1.73	0.70
3:N:171:LEU:HB3	3:N:390:PRO:HA	1.74	0.70
3:N:387:LEU:CD2	5:P:97:GLU:HB2	2.21	0.70
3:N:546:ARG:HH12	3:N:550:ARG:HH22	1.39	0.70
2:C:1044:GLY:O	2:C:1045:ALA:C	2.28	0.70
2:C:1059:ASP:OD1	2:C:1080:SER:HB2	1.90	0.70
2:C:893:ALA:O	2:C:897:LEU:HB2	1.92	0.70
3:D:234:GLU:C	3:D:238:PRO:HD2	2.12	0.70
3:D:644:LEU:O	3:D:721:VAL:HG22	1.91	0.70
1:K:1:MET:SD	1:K:5:LYS:HB3	2.30	0.70
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.22	0.70
3:N:1122:LEU:HG	3:N:1140:ILE:HD13	1.72	0.70
3:D:952:ASP:HA	3:D:1062:ARG:HH22	1.56	0.70
3:D:798:GLU:HG2	3:D:799:LYS:N	2.00	0.70
5:F:142:ARG:HH12	5:F:150:THR:HG21	1.56	0.70
2:M:176:VAL:HG12	2:M:182:VAL:HG22	1.73	0.70
2:M:469:THR:O	2:M:485:TYR:HA	1.90	0.70
3:N:701:LEU:HD21	3:N:763:MET:HE3	1.74	0.70
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.72	0.70
5:F:271:LEU:O	5:F:271:LEU:HD13	1.91	0.70
2:M:167:LYS:HD3	2:M:167:LYS:C	2.12	0.70
2:M:198:ARG:HH22	2:M:203:ASP:HB3	1.57	0.70
2:M:953:VAL:HA	2:M:965:GLU:OE1	1.92	0.70
3:N:1165:TYR:OH	3:N:1203:LYS:HA	1.92	0.70
3:N:478:LEU:CD2	3:N:1388:ARG:HH12	2.05	0.70
2:C:1096:ALA:HB3	3:D:101:HIS:ND1	2.07	0.70
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.73	0.70
3:D:87:ARG:HG3	3:D:88:TYR:CD2	2.27	0.70
3:D:969:ARG:O	3:D:972:LEU:HB3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.06	0.70
2:C:1010:THR:HG22	2:C:1011:GLY:N	2.07	0.70
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.74	0.70
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.73	0.70
2:C:829:GLN:OE1	2:C:831:ARG:NH1	2.25	0.70
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.74	0.70
1:K:1:MET:O	1:K:6:LEU:HD22	1.92	0.70
3:N:1459:LEU:HD11	3:N:1468:LEU:HD13	1.73	0.70
3:N:40:GLU:HG3	3:N:41:ARG:H	1.54	0.70
2:M:1071:ILE:CG2	3:N:670:VAL:HG21	2.21	0.70
1:A:34:VAL:HB	1:B:42:ARG:NH2	2.06	0.70
1:B:189:ARG:HG3	1:B:189:ARG:HH11	1.57	0.70
2:C:134:ARG:HH12	2:C:392:SER:C	1.94	0.70
3:D:1103:HIS:HD2	3:D:1462:LEU:N	1.89	0.70
3:D:907:GLU:HG2	3:D:908:LYS:H	1.56	0.70
2:M:568:ALA:CB	2:M:668:LEU:HB3	2.21	0.70
3:N:1069:GLU:O	3:N:1073:SER:HB2	1.91	0.70
3:N:1106:VAL:HG13	3:N:1219:GLU:O	1.91	0.70
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.56	0.70
2:C:807:ARG:HH21	2:C:808:ARG:HB2	1.57	0.69
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.73	0.69
2:C:877:PRO:HG3	3:D:1023:MET:CE	2.22	0.69
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.57	0.69
3:D:1312:LEU:CD1	3:D:1327:ARG:HG3	2.22	0.69
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.74	0.69
3:D:994:GLN:HE21	3:D:998:GLU:CD	1.95	0.69
2:M:380:ALA:O	2:M:384:GLU:HB2	1.92	0.69
3:N:115:LEU:HD13	3:N:499:VAL:HG22	1.73	0.69
3:N:138:LYS:N	3:N:138:LYS:HD2	2.06	0.69
3:N:187:LYS:HZ1	3:N:213:VAL:HG12	1.56	0.69
3:N:834:THR:OG1	3:N:839:LEU:HD21	1.92	0.69
3:N:984:THR:HG22	3:N:987:GLU:CG	2.22	0.69
5:P:402:ASN:HB3	5:P:406:ARG:NH2	2.07	0.69
2:C:701:THR:HG21	2:C:830:LYS:HD2	1.75	0.69
3:D:1290:LEU:HD23	3:D:1291:SER:H	1.56	0.69
3:D:1207:TYR:N	3:D:1366:LYS:HZ1	1.87	0.69
3:D:951:ILE:HG23	3:D:1062:ARG:HH21	1.57	0.69
5:F:234:LYS:HD2	5:F:236:SER:N	2.06	0.69
1:K:106:PRO:HD3	1:K:134:GLU:HA	1.74	0.69
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.21	0.69
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:LEU:O	1:A:222:LEU:HD23	1.91	0.69
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.75	0.69
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.92	0.69
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.74	0.69
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.07	0.69
3:D:382:GLU:O	3:D:384:VAL:HG23	1.92	0.69
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.27	0.69
2:C:1115:LEU:HD22	3:D:88:TYR:CD1	2.28	0.69
4:E:40:LEU:HD22	4:E:45:ARG:NH1	2.06	0.69
3:N:699:VAL:H	3:N:756:GLN:HE21	1.38	0.69
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.74	0.69
4:O:51:LEU:HG	4:O:52:GLU:N	2.07	0.69
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.58	0.69
3:D:1139:ASP:OD2	3:D:1357:ARG:HD3	1.92	0.69
3:D:228:ALA:O	3:D:231:VAL:HG22	1.92	0.69
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.56	0.69
3:D:714:GLN:HE22	3:D:735:ALA:HB1	1.57	0.69
3:D:910:SER:O	3:D:913:ASP:HB2	1.92	0.69
3:D:994:GLN:HG3	3:D:998:GLU:CD	2.12	0.69
2:M:722:ILE:HD12	2:M:823:VAL:HG21	1.75	0.69
3:N:1155:VAL:HG22	3:N:1183:ILE:HD11	1.72	0.69
3:N:423:ASP:OD2	5:P:178:ARG:HG3	1.92	0.69
2:C:265:ARG:HG3	2:C:288:ARG:HG3	1.75	0.69
2:C:420:ARG:HD2	2:C:420:ARG:N	2.05	0.69
2:C:42:VAL:HG12	2:C:43:GLY:H	1.57	0.69
2:C:842:ARG:HH21	2:C:887:GLU:CD	1.96	0.69
3:D:205:TYR:HA	3:D:393:ILE:HD13	1.75	0.69
3:D:457:GLY:HA3	3:D:568:ARG:HH12	1.55	0.69
4:E:48:MET:HG2	4:E:49:GLN:H	1.57	0.69
1:L:111:ALA:HB2	1:L:127:LEU:HB3	1.75	0.69
3:N:486:ARG:O	3:N:489:ARG:HG2	1.92	0.69
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.92	0.69
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	1.75	0.69
2:C:139:GLN:HA	2:C:411:SER:O	1.92	0.69
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.02	0.69
2:C:622:GLU:O	2:C:624:PRO:HD3	1.91	0.69
5:F:209:PHE:O	5:F:213:ILE:HG13	1.93	0.69
5:F:363:GLU:O	5:F:367:MET:HG2	1.92	0.69
1:L:44:LEU:HB3	1:L:177:VAL:HG21	1.75	0.69
3:N:461:ILE:O	3:N:465:LEU:HD12	1.91	0.69
2:C:612:VAL:HA	2:C:621:VAL:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:848:VAL:HB	3:D:740:PHE:O	1.92	0.69
2:C:86:LYS:HG3	2:C:813:VAL:HG12	1.75	0.69
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.92	0.69
2:M:137:VAL:O	2:M:391:LEU:HG	1.92	0.69
3:N:105:VAL:HG22	3:N:112:ILE:HG12	1.73	0.69
3:N:1258:ARG:HG3	3:N:1258:ARG:NH1	2.05	0.69
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.07	0.69
3:N:32:ILE:HG22	3:N:33:ASN:H	1.56	0.69
2:C:326:ASP:HA	2:C:331:ARG:HD2	1.74	0.69
3:D:474:GLU:HG3	3:D:496:LEU:HD11	1.73	0.69
5:F:152:ASP:CG	5:F:153:PRO:HD3	2.13	0.69
2:M:1003:ASP:O	2:M:1005:MET:N	2.26	0.69
2:M:253:ALA:O	2:M:256:TYR:HB2	1.93	0.69
1:A:55:SER:HB2	1:A:158:ILE:HG23	1.75	0.69
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.75	0.69
3:D:1346:ARG:NH2	3:D:1369:GLU:OE2	2.26	0.69
1:K:219:ARG:HH22	1:K:220:GLU:HG3	1.58	0.69
2:M:692:GLU:O	2:M:696:LYS:HG3	1.93	0.69
3:N:225:LEU:HD22	3:N:440:VAL:HG21	1.75	0.69
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.73	0.69
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.22	0.69
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.58	0.69
2:M:676:ILE:O	2:M:676:ILE:HG23	1.92	0.69
2:M:946:ARG:NH1	2:M:984:GLU:OE2	2.26	0.69
2:M:432:ARG:NH2	3:N:1047:LYS:HZ2	1.90	0.69
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.75	0.69
3:N:135:LEU:HD21	3:N:452:ILE:HD11	1.74	0.69
3:N:546:ARG:NH1	3:N:550:ARG:NH2	2.39	0.69
1:B:201:THR:HG22	1:B:203:GLY:H	1.58	0.69
3:D:1147:ARG:NH1	3:D:1190:SER:HB2	2.07	0.69
3:D:368:VAL:HG12	3:D:369:ALA:N	2.08	0.69
5:F:300:ASP:OD2	5:F:302:LYS:HB3	1.93	0.69
1:L:74:ASP:O	1:L:78:ILE:HG13	1.93	0.69
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.56	0.69
3:N:1047:LYS:HD2	3:N:1051:GLU:O	1.93	0.69
3:N:699:VAL:HG12	3:N:717:GLN:HG2	1.74	0.69
3:N:794:GLN:NE2	3:N:795:VAL:N	2.41	0.69
2:C:290:LEU:H	2:C:290:LEU:HD23	1.58	0.68
2:C:636:ALA:O	2:C:637:LEU:HD23	1.93	0.68
3:D:245:LEU:HD21	3:D:249:TYR:HB2	1.74	0.68
3:D:711:LEU:O	3:D:714:GLN:NE2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.74	0.68
2:M:518:LYS:O	2:M:518:LYS:HG3	1.92	0.68
2:M:86:LYS:HB3	2:M:88:LEU:HG	1.74	0.68
3:N:15:PRO:CB	3:N:19:ARG:HH12	2.07	0.68
1:A:14:ARG:O	1:A:21:GLY:HA2	1.92	0.68
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.23	0.68
3:D:179:VAL:HG11	3:D:217:LYS:HZ1	1.58	0.68
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.13	0.68
1:L:201:THR:HG22	1:L:203:GLY:H	1.56	0.68
2:M:252:LYS:HD2	2:M:252:LYS:H	1.56	0.68
2:M:340:MET:C	2:M:340:MET:SD	2.71	0.68
3:N:218:LYS:HB3	3:N:373:PRO:HA	1.75	0.68
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.74	0.68
4:O:40:LEU:HB2	4:O:45:ARG:CD	2.23	0.68
1:A:50:GLY:O	1:A:51:THR:HG23	1.94	0.68
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.28	0.68
3:D:1175:ILE:O	3:D:1179:GLU:HG3	1.94	0.68
3:D:244:GLU:OE1	3:D:366:LYS:HG3	1.93	0.68
4:E:17:TYR:O	4:E:21:VAL:HG23	1.93	0.68
2:M:285:LEU:HD13	2:M:302:VAL:HG23	1.76	0.68
3:N:586:ARG:O	3:N:587:ARG:HG2	1.92	0.68
2:C:333:ILE:CD1	2:C:467:ILE:HD11	2.24	0.68
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.74	0.68
3:D:1344:VAL:O	3:D:1348:LEU:HD13	1.93	0.68
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.58	0.68
3:D:807:ALA:HB2	3:D:833:GLU:HB3	1.75	0.68
1:K:59:GLU:HG3	1:K:60:ASP:H	1.58	0.68
1:L:26:GLU:HG2	1:L:27:PRO:HA	1.75	0.68
2:M:1092:LEU:O	2:M:1095:LEU:O	2.12	0.68
3:N:1223:ILE:O	3:N:1227:GLN:HG3	1.94	0.68
3:N:224:ARG:HD2	3:N:224:ARG:O	1.93	0.68
3:N:34:TYR:HE2	5:P:260:ILE:HG13	1.58	0.68
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.07	0.68
3:N:660:LYS:HG2	3:N:694:VAL:HG22	1.74	0.68
3:N:769:LEU:HD23	3:N:927:THR:HG22	1.75	0.68
1:B:19:GLU:HG3	1:B:201:THR:O	1.94	0.68
2:C:129:ILE:HG12	2:C:386:PHE:O	1.93	0.68
3:D:1076:GLY:CA	3:D:1079:LYS:HG2	2.22	0.68
3:D:81:THR:O	3:D:82:LYS:O	2.12	0.68
2:M:1004:LYS:HE3	2:M:1027:PHE:HZ	1.58	0.68
2:M:139:GLN:O	2:M:334:ARG:HG2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:964:LYS:O	2:M:968:LEU:HG	1.94	0.68
3:N:444:VAL:O	3:N:446:VAL:HG23	1.94	0.68
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.75	0.68
5:P:135:ILE:HD11	5:P:178:ARG:HD2	1.74	0.68
5:P:222:ARG:HD2	5:P:242:TRP:HE3	1.59	0.68
1:A:88:ARG:HH12	1:A:90:LEU:CD2	2.07	0.68
1:A:30:ARG:HG3	2:C:938:LYS:NZ	2.08	0.68
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.94	0.68
3:D:247:GLU:H	3:D:248:PRO:HD2	1.59	0.68
3:D:539:ASP:HB2	5:F:318:GLU:OE2	1.94	0.68
2:M:1047:HIS:O	2:M:1050:GLN:N	2.27	0.68
2:C:1024:LYS:NZ	2:C:1024:LYS:HB2	2.09	0.68
3:D:172:PRO:HD2	3:D:389:GLU:O	1.94	0.68
5:F:181:GLU:OE2	5:F:184:ARG:HD3	1.94	0.68
5:F:405:LEU:O	5:F:408:LEU:HB3	1.92	0.68
2:M:193:LEU:HG	2:M:307:LEU:HD22	1.76	0.68
3:N:1144:LEU:HD21	3:N:1186:VAL:HG11	1.74	0.68
3:N:1185:GLU:O	3:N:1186:VAL:HG23	1.93	0.68
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.76	0.68
2:M:1051:GLU:OE2	3:N:752:SER:HB3	1.94	0.68
1:B:36:LEU:O	1:B:39:PRO:HD2	1.94	0.68
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.75	0.68
1:L:56:VAL:HG21	1:L:79:ILE:HG22	1.76	0.68
3:N:1320:GLU:CG	3:N:1323:GLN:HE21	2.04	0.68
5:P:389:PHE:HD2	5:P:397:ILE:HD11	1.56	0.68
2:C:188:LYS:C	2:C:188:LYS:HE2	2.14	0.68
2:C:574:ALA:O	2:C:575:GLN:HG3	1.94	0.68
2:C:724:ARG:HB2	2:C:740:GLU:HA	1.76	0.68
1:B:77:GLU:HB2	3:D:872:ARG:HH22	1.58	0.68
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.76	0.68
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.76	0.68
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.75	0.68
2:M:640:ARG:HH11	2:M:640:ARG:HB3	1.58	0.68
3:N:172:PRO:HB3	3:N:178:LEU:HD13	1.76	0.68
3:N:422:ALA:HB1	5:P:178:ARG:HH22	1.58	0.68
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.75	0.68
1:A:13:VAL:HG12	1:A:14:ARG:N	2.09	0.68
1:B:7:LYS:HE3	1:B:186:LEU:HD22	1.73	0.68
2:M:690:ILE:O	2:M:852:ILE:HA	1.94	0.68
3:N:1078:ARG:NH1	3:N:1078:ARG:HG3	2.06	0.68
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.29	0.67
2:C:490:GLU:HG3	2:C:493:ARG:HD2	1.75	0.67
2:C:9:ILE:HG13	2:C:9:ILE:O	1.95	0.67
3:D:704:ARG:CG	3:D:705:ALA:N	2.56	0.67
3:D:899:LEU:HD13	3:D:899:LEU:H	1.59	0.67
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.75	0.67
1:K:27:PRO:HG3	1:K:186:LEU:HD22	1.75	0.67
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.74	0.67
2:M:111:ASP:HB3	2:M:112:GLU:OE2	1.93	0.67
3:N:1135:ARG:O	3:N:1136:LYS:O	2.12	0.67
3:N:12:LEU:H	3:N:507:ASN:HD21	1.41	0.67
5:P:94:LEU:HB2	5:P:98:GLU:OE1	1.94	0.67
2:C:158:TYR:HE1	2:C:314:THR:HA	1.59	0.67
2:C:227:PHE:HA	2:C:230:ARG:NE	2.09	0.67
3:D:1092:GLY:O	3:D:1096:ARG:HB2	1.93	0.67
3:D:470:LEU:HD12	3:D:508:ARG:HH12	1.57	0.67
3:D:637:LEU:HD11	3:D:642:CYS:CA	2.23	0.67
3:D:955:VAL:HG11	3:D:1015:TYR:CE2	2.28	0.67
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.94	0.67
2:M:215:GLY:O	2:M:218:VAL:HG23	1.94	0.67
3:N:1078:ARG:HH11	3:N:1078:ARG:HG3	1.58	0.67
3:N:1227:GLN:O	3:N:1229:ILE:N	2.22	0.67
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.76	0.67
2:C:670:GLN:HG2	2:C:699:PHE:CE2	2.30	0.67
2:C:802:ARG:NH1	2:C:804:VAL:HG22	2.10	0.67
1:K:73:GLU:OE1	1:K:130:ALA:HA	1.94	0.67
2:M:30:LEU:HD12	2:M:30:LEU:O	1.94	0.67
3:N:39:PRO:HB3	3:N:45:PHE:O	1.94	0.67
3:N:654:LYS:O	3:N:657:LEU:N	2.27	0.67
4:O:23:VAL:HG21	4:O:65:MET:HG2	1.75	0.67
5:P:376:ILE:HG22	5:P:377:ASP:H	1.60	0.67
2:C:1085:PHE:O	2:C:1088:LEU:N	2.28	0.67
2:C:281:LEU:HD23	2:C:281:LEU:H	1.59	0.67
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.08	0.67
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.60	0.67
3:N:1031:ASN:HB3	3:N:1034:GLN:CB	2.23	0.67
4:O:39:VAL:HG22	4:O:67:GLU:OE2	1.95	0.67
5:P:396:ARG:HA	5:P:399:GLN:HB2	1.77	0.67
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.60	0.67
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.95	0.67
2:C:329:GLY:HA2	2:C:488:ALA:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:89:THR:O	2:C:91:GLN:HG3	1.93	0.67
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.76	0.67
3:D:994:GLN:HG3	3:D:998:GLU:OE1	1.94	0.67
2:M:352:ALA:O	2:M:356:ARG:HG3	1.95	0.67
3:N:232:GLU:OE2	3:N:234:GLU:HB2	1.93	0.67
3:N:736:PHE:O	3:N:737:ASN:C	2.29	0.67
3:N:794:GLN:C	3:N:794:GLN:HE21	1.96	0.67
1:A:195:LEU:HD12	1:A:196:THR:H	1.58	0.67
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.76	0.67
3:D:1310:ARG:HG3	3:D:1327:ARG:HB2	1.74	0.67
3:D:1403:LEU:O	3:D:1407:LEU:HB2	1.95	0.67
3:D:231:VAL:HA	3:D:378:ILE:CD1	2.24	0.67
5:F:319:THR:O	5:F:329:TYR:HB2	1.94	0.67
1:K:143:ARG:CD	1:K:158:ILE:HG21	2.25	0.67
1:L:117:VAL:HB	1:L:120:VAL:HB	1.75	0.67
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.76	0.67
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.75	0.67
3:N:486:ARG:HA	3:N:489:ARG:CD	2.25	0.67
5:P:181:GLU:CD	5:P:185:GLN:HE21	1.98	0.67
2:C:1094:ALA:HB1	3:D:603:LEU:HD22	1.76	0.67
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.24	0.67
3:D:789:LEU:HD12	3:D:911:LEU:CD2	2.20	0.67
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.04	0.67
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.24	0.67
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.30	0.67
2:C:115:LEU:HA	2:C:375:SER:OG	1.93	0.67
3:D:138:LYS:N	3:D:138:LYS:HD2	2.03	0.67
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.95	0.67
2:M:458:TYR:HB3	2:M:470:PRO:HG2	1.77	0.67
2:M:486:MET:HE3	2:M:491:GLU:HA	1.77	0.67
2:M:441:VAL:O	2:M:559:LEU:HD13	1.95	0.67
2:M:834:GLN:O	2:M:837:ASP:HB2	1.95	0.67
2:C:443:THR:HG21	2:C:450:GLY:N	2.01	0.67
3:D:1171:VAL:O	3:D:1175:ILE:HG13	1.95	0.67
5:F:200:LYS:HD2	5:F:209:PHE:HZ	1.59	0.67
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.25	0.67
1:L:59:GLU:HG3	1:L:60:ASP:N	2.04	0.67
3:N:1437:ALA:O	3:N:1446:VAL:HG21	1.93	0.67
3:N:569:ASN:HD21	5:P:80:PRO:HG3	1.60	0.67
5:P:137:GLY:HA3	5:P:141:VAL:HG21	1.75	0.67
3:D:1074:SER:O	3:D:1077:ALA:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.10	0.67
3:D:194:GLY:N	3:D:206:ARG:HA	2.10	0.67
3:N:1031:ASN:CB	3:N:1034:GLN:HB2	2.22	0.67
3:N:1148:VAL:CG1	3:N:1189:ARG:HG3	2.25	0.67
3:N:218:LYS:NZ	3:N:218:LYS:HB2	2.10	0.67
2:C:444:PRO:O	2:C:449:ILE:HG12	1.96	0.66
2:C:480:THR:HG22	2:C:482:GLU:N	2.06	0.66
3:D:827:ILE:HG23	3:D:837:GLY:HA3	1.77	0.66
2:M:682:TYR:CE1	2:M:851:LYS:HD2	2.30	0.66
2:M:953:VAL:HA	2:M:965:GLU:CD	2.15	0.66
5:F:200:LYS:HD2	5:F:209:PHE:CZ	2.29	0.66
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.07	0.66
2:M:397:GLU:HG3	2:M:632:ASN:H	1.60	0.66
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.76	0.66
3:N:481:MET:O	3:N:489:ARG:HB2	1.95	0.66
3:N:764:LEU:HG	3:N:765:SER:N	2.08	0.66
3:D:177:ALA:C	3:D:199:LEU:HD13	2.14	0.66
1:K:18:ARG:HH22	1:K:88:ARG:NH2	1.91	0.66
2:M:1043:TYR:C	2:M:1045:ALA:H	1.98	0.66
3:N:1295:GLU:CB	3:N:1300:SER:HA	2.25	0.66
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.31	0.66
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.77	0.66
3:D:1225:ALA:O	3:D:1228:SER:OG	2.13	0.66
3:D:1424:VAL:HG13	3:D:1425:THR:N	2.10	0.66
5:F:151:LEU:HG	5:F:155:THR:OG1	1.95	0.66
1:K:203:GLY:O	1:K:204:SER:C	2.32	0.66
1:L:133:GLU:CG	1:L:134:GLU:H	2.07	0.66
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.78	0.66
2:M:838:LYS:O	2:M:838:LYS:HG3	1.94	0.66
3:N:1171:VAL:O	3:N:1175:ILE:HG13	1.96	0.66
3:N:1492:LEU:HD13	3:N:1492:LEU:O	1.95	0.66
1:A:154:GLU:H	1:A:154:GLU:CD	1.97	0.66
2:C:19:THR:HG22	2:C:23:VAL:HG23	1.77	0.66
3:D:1154:GLU:HG3	3:D:1159:ARG:NH1	2.10	0.66
3:D:1412:LYS:HG3	3:D:1414:PRO:HD3	1.78	0.66
2:M:579:VAL:O	2:M:579:VAL:HG22	1.95	0.66
3:N:478:LEU:HD23	3:N:1388:ARG:HH12	1.59	0.66
2:M:1071:ILE:O	3:N:659:LYS:HD3	1.96	0.66
3:N:845:ASN:N	3:N:848:GLU:HG3	2.04	0.66
5:P:368:VAL:O	5:P:371:LEU:HB2	1.96	0.66
1:A:51:THR:HG22	1:A:146:ARG:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:ARG:HA	1:A:177:VAL:HG11	1.77	0.66
2:C:552:HIS:CE1	3:D:1062:ARG:O	2.49	0.66
3:D:135:LEU:HD11	3:D:452:ILE:HD11	1.78	0.66
3:D:377:VAL:CG1	3:D:382:GLU:HG2	2.25	0.66
3:D:679:ARG:NH2	3:D:681:ARG:HG2	2.11	0.66
3:D:897:TRP:CH2	3:D:902:LEU:HD21	2.31	0.66
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.78	0.66
5:F:367:MET:O	5:F:371:LEU:HG	1.95	0.66
5:F:393:THR:O	5:F:397:ILE:HG13	1.96	0.66
1:K:219:ARG:HB3	1:K:219:ARG:NH1	2.11	0.66
3:N:1258:ARG:O	3:N:1262:LEU:HD13	1.95	0.66
3:N:777:PRO:HG2	3:N:915:VAL:HB	1.76	0.66
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.29	0.66
2:M:1032:PHE:HB2	3:N:623:VAL:HG23	1.78	0.66
3:N:1087:ARG:CZ	3:N:1238:MET:HG3	2.25	0.66
3:N:976:GLN:HA	3:N:979:GLU:OE1	1.96	0.66
5:P:205:ARG:HB3	5:P:251:ILE:HD13	1.76	0.66
2:C:290:LEU:HD22	2:C:302:VAL:HG21	1.78	0.66
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.78	0.66
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.78	0.66
3:D:1475:GLY:C	3:D:1477:GLY:H	1.98	0.66
3:D:225:LEU:HD22	3:D:225:LEU:H	1.61	0.66
3:D:404:GLU:HB3	3:D:414:ARG:NE	2.10	0.66
3:D:756:GLN:O	3:D:760:ARG:HG2	1.96	0.66
3:D:907:GLU:HG3	3:D:1025:GLN:O	1.95	0.66
5:F:352:GLU:O	5:F:356:LYS:HG3	1.96	0.66
3:N:1015:TYR:O	3:N:1017:PHE:N	2.28	0.66
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.77	0.66
3:N:955:VAL:HB	3:N:1011:PHE:CE1	2.30	0.66
2:C:1014:SER:OG	5:F:331:ASP:HA	1.95	0.66
2:C:480:THR:HG22	2:C:481:ASP:N	2.10	0.66
2:C:572:ILE:HD13	2:C:701:THR:HB	1.78	0.66
3:D:1192:LEU:HD22	3:D:1345:GLU:HB3	1.76	0.66
3:D:546:ARG:CZ	3:D:550:ARG:HH22	2.09	0.66
3:D:694:VAL:O	3:D:694:VAL:HG12	1.94	0.66
3:D:715:ALA:O	3:D:716:PHE:CG	2.49	0.66
2:C:988:VAL:HG11	3:D:949:ILE:O	1.96	0.66
2:M:578:VAL:N	2:M:671:ASN:HD21	1.94	0.66
2:M:700:TYR:CB	2:M:833:LEU:HD22	2.26	0.66
1:K:176:ARG:NH2	2:M:865:THR:HB	2.11	0.66
3:N:426:LYS:HB3	5:P:134:LYS:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:17:PRO:HA	2:C:586:ARG:HH12	1.61	0.66
2:C:691:SER:HB3	2:C:868:ASP:HA	1.78	0.66
2:C:979:THR:C	2:C:981:GLU:H	1.99	0.66
3:D:1336:LEU:HB2	3:D:1344:VAL:HG11	1.78	0.66
5:F:129:GLU:HB3	5:F:142:ARG:NH2	2.11	0.66
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.78	0.66
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.77	0.66
1:L:77:GLU:HG2	3:N:872:ARG:NH2	2.09	0.66
2:M:1097:LEU:HD13	2:M:1097:LEU:H	1.59	0.66
2:M:759:THR:HG21	2:M:783:ARG:HH12	1.61	0.66
3:N:554:LEU:HD23	3:N:570:GLU:HG3	1.77	0.66
5:P:273:ARG:HA	5:P:276:ARG:HG3	1.78	0.66
5:P:94:LEU:O	5:P:96:LEU:N	2.28	0.66
3:D:245:LEU:HD22	3:D:245:LEU:O	1.96	0.65
3:D:792:ILE:HG23	3:D:793:THR:HG23	1.78	0.65
3:D:900:ILE:HG22	3:D:914:LEU:HG	1.77	0.65
5:F:137:GLY:HA2	5:F:140:ARG:NH2	2.11	0.65
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.79	0.65
2:M:325:ILE:HD12	2:M:325:ILE:H	1.61	0.65
2:M:738:ASP:HB2	2:M:744:ARG:HB3	1.77	0.65
3:N:455:ARG:NE	3:N:463:GLN:NE2	2.41	0.65
3:N:958:GLU:OE2	3:N:961:LYS:NZ	2.29	0.65
2:C:682:TYR:CE2	2:C:851:LYS:HG2	2.32	0.65
2:C:73:LEU:H	2:C:73:LEU:HD12	1.60	0.65
3:D:452:ILE:HG23	3:D:452:ILE:O	1.96	0.65
3:N:1260:ILE:C	3:N:1262:LEU:H	1.99	0.65
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.79	0.65
3:N:214:GLU:HB3	3:N:215:TYR:CD1	2.31	0.65
3:N:465:LEU:O	3:N:468:LEU:HG	1.96	0.65
3:N:813:LEU:HD12	3:N:814:ALA:N	2.11	0.65
3:D:531:ASP:H	3:D:534:ARG:HB2	1.61	0.65
3:D:879:ARG:HD3	3:D:902:LEU:O	1.97	0.65
2:M:749:VAL:HG11	2:M:755:LEU:HD21	1.78	0.65
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.27	0.65
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.12	0.65
1:B:153:ALA:HB1	1:B:166:PRO:HB2	1.76	0.65
2:C:496:ILE:O	2:C:515:ALA:HB1	1.96	0.65
2:C:523:ILE:HG23	2:C:523:ILE:O	1.95	0.65
3:D:559:ALA:O	3:D:561:GLY:N	2.29	0.65
3:D:739:ASP:O	3:D:740:PHE:CD2	2.49	0.65
2:M:577:PRO:HB3	2:M:842:ARG:NH2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1109:VAL:HG13	3:N:3:LYS:HG2	1.79	0.65
3:N:525:ARG:N	3:N:526:PRO:HD3	2.12	0.65
3:N:733:CYS:SG	3:N:738:ALA:O	2.54	0.65
5:P:196:VAL:HG22	5:P:213:ILE:HD13	1.77	0.65
3:N:598:ARG:NH2	5:P:318:GLU:HG3	2.12	0.65
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.11	0.65
5:P:361:LEU:HD11	5:P:408:LEU:HD12	1.78	0.65
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.60	0.65
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.78	0.65
3:N:30:GLU:HG3	3:N:41:ARG:NE	2.10	0.65
3:N:427:VAL:HB	3:N:435:VAL:CB	2.26	0.65
2:C:403:SER:HB2	2:C:407:LYS:HZ3	1.61	0.65
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.78	0.65
3:D:925:GLU:OE1	4:E:6:ILE:HG22	1.96	0.65
5:F:154:LYS:O	5:F:158:GLU:HB2	1.95	0.65
1:L:59:GLU:OE1	1:L:138:LEU:HA	1.97	0.65
2:M:676:ILE:HG22	2:M:988:VAL:HG13	1.79	0.65
3:N:1465:ASN:ND2	3:N:1473:PRO:HG3	2.12	0.65
3:N:106:LYS:HB3	3:N:586:ARG:HD3	1.78	0.65
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.09	0.65
5:P:160:ASP:O	5:P:164:LYS:HG3	1.97	0.65
1:B:194:LYS:HG2	1:B:194:LYS:O	1.95	0.65
3:D:907:GLU:CG	3:D:1027:GLY:N	2.55	0.65
3:D:223:LEU:N	3:D:365:ASP:HB2	2.12	0.65
5:F:120:THR:HG21	5:F:122:LEU:HD22	1.79	0.65
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.78	0.65
2:M:495:THR:HG23	2:M:517:ARG:HE	1.61	0.65
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.77	0.65
4:O:41:GLU:H	4:O:42:PRO:HD2	1.61	0.65
5:P:105:LYS:HZ3	5:P:105:LYS:HB3	1.62	0.65
5:P:115:LYS:O	5:P:118:GLU:HB3	1.97	0.65
2:C:1016:ILE:CD1	2:C:1016:ILE:H	1.79	0.65
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.79	0.65
3:D:493:ARG:HH21	3:D:1389:LEU:HD21	1.61	0.65
3:D:1478:SER:O	3:D:1482:ARG:N	2.29	0.65
2:M:376:ARG:NH2	2:M:379:GLU:HG2	2.11	0.65
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.60	0.65
3:N:828:LYS:HD2	3:N:862:ASP:OD2	1.97	0.65
1:A:124:ASN:N	1:A:125:PRO:HD3	2.12	0.65
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.11	0.65
3:D:228:ALA:HA	3:D:231:VAL:HG13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.79	0.65
3:D:39:PRO:HB3	3:D:45:PHE:O	1.97	0.65
4:E:51:LEU:CG	4:E:53:GLY:H	1.97	0.65
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.27	0.65
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.79	0.65
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.27	0.65
3:N:486:ARG:HH21	3:N:489:ARG:NE	1.94	0.65
3:N:112:ILE:HG22	3:N:512:MET:SD	2.37	0.65
3:N:604:THR:C	3:N:606:ILE:H	1.98	0.65
2:M:1048:THR:HG23	3:N:750:PRO:HB3	1.78	0.65
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.32	0.65
2:C:288:ARG:NE	2:C:288:ARG:HA	2.11	0.65
2:C:577:PRO:HA	2:C:671:ASN:ND2	2.09	0.65
3:D:225:LEU:HB2	3:D:227:LEU:HD23	1.78	0.65
3:D:40:GLU:O	3:D:41:ARG:O	2.15	0.65
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.78	0.65
3:D:491:LYS:HD3	3:D:492:ALA:N	2.11	0.65
3:D:828:LYS:HD3	3:D:828:LYS:N	2.11	0.65
5:F:386:VAL:HG13	5:F:387:GLY:N	2.12	0.65
1:K:88:ARG:HD3	1:K:89:PHE:O	1.97	0.65
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.26	0.65
2:M:137:VAL:CG2	2:M:393:GLN:HE22	2.08	0.65
2:M:226:VAL:HG13	2:M:227:PHE:H	1.62	0.65
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.79	0.65
3:N:1275:SER:HB2	3:N:1325:LEU:HD11	1.79	0.65
3:N:371:ILE:HD12	3:N:372:ASP:N	2.12	0.65
2:C:317:VAL:HG13	2:C:319:GLY:O	1.96	0.64
2:C:493:ARG:O	2:C:494:TYR:CD2	2.50	0.64
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.27	0.64
2:C:841:ASN:C	2:C:841:ASN:ND2	2.50	0.64
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.79	0.64
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.12	0.64
3:D:1465:ASN:HD21	3:D:1470:ARG:NH1	1.95	0.64
3:D:563:PRO:HB2	5:F:189:GLU:HG2	1.79	0.64
2:M:838:LYS:CD	2:M:846:LYS:HZ1	2.09	0.64
2:M:841:ASN:CG	2:M:843:HIS:H	2.00	0.64
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.12	0.64
3:N:629:SER:CB	3:N:726:ILE:HG13	2.27	0.64
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.79	0.64
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.61	0.64
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:916:TYR:C	3:D:916:TYR:CD2	2.71	0.64
3:D:970:LYS:HA	3:D:973:GLN:HE21	1.62	0.64
2:M:441:VAL:HG11	2:M:544:THR:HG21	1.78	0.64
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.78	0.64
2:M:52:PHE:CE2	2:M:98:LEU:HD21	2.33	0.64
3:N:820:GLU:HA	3:N:825:ALA:O	1.97	0.64
3:D:1207:TYR:H	3:D:1366:LYS:NZ	1.89	0.64
2:C:766:GLU:CD	3:D:54:LYS:HD2	2.18	0.64
3:D:733:CYS:HG	3:D:740:PHE:HZ	1.42	0.64
1:L:206:THR:HG22	1:L:209:GLU:CD	2.16	0.64
2:M:511:GLU:O	2:M:526:PRO:HD3	1.97	0.64
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.62	0.64
3:N:569:ASN:ND2	3:N:572:ARG:NH1	2.45	0.64
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.77	0.64
3:D:1130:ARG:HH21	3:D:1132:LEU:HG	1.62	0.64
3:D:441:ARG:O	3:D:443:VAL:HG23	1.97	0.64
3:D:459:GLU:O	3:D:463:GLN:HG2	1.96	0.64
3:D:502:PHE:CE2	3:D:509:PRO:HB3	2.31	0.64
2:C:1003:ASP:HA	3:D:744:GLN:NE2	2.11	0.64
1:K:38:ASN:O	1:K:39:PRO:C	2.34	0.64
3:N:58:CYS:SG	3:N:59:ALA:N	2.70	0.64
3:D:1292:VAL:O	3:D:1303:TYR:HB2	1.98	0.64
3:D:1292:VAL:CG1	3:D:1325:LEU:HD21	2.26	0.64
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.79	0.64
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.79	0.64
3:D:932:ASP:O	3:D:935:LYS:N	2.30	0.64
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.11	0.64
4:E:45:ARG:HH22	4:E:72:ARG:HH21	1.45	0.64
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.79	0.64
2:M:839:LEU:HD21	2:M:849:VAL:HG22	1.77	0.64
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	1.98	0.64
3:N:237:LYS:HB3	3:N:238:PRO:HD3	1.80	0.64
3:N:629:SER:HB3	3:N:726:ILE:HG13	1.79	0.64
5:P:394:ARG:HB2	5:P:394:ARG:HH11	1.61	0.64
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.62	0.64
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	1.97	0.64
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.80	0.64
3:D:1424:VAL:CG1	3:D:1425:THR:N	2.60	0.64
5:F:353:GLU:HG3	5:F:417:LYS:HD3	1.78	0.64
1:K:97:VAL:HG11	1:K:120:VAL:HG21	1.79	0.64
2:M:1071:ILE:HD12	3:N:670:VAL:HG13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:882:LEU:CD1	3:N:1061:PHE:HB3	2.27	0.64
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.80	0.64
3:N:613:ARG:HG3	3:N:613:ARG:HH11	1.62	0.64
3:N:807:ALA:HB2	3:N:833:GLU:HB2	1.79	0.64
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.33	0.64
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.12	0.64
2:C:572:ILE:HG13	2:C:573:ARG:HG2	1.78	0.64
2:C:676:ILE:O	2:C:676:ILE:HG12	1.97	0.64
3:D:534:ARG:HH21	5:F:315:VAL:HG21	1.62	0.64
3:D:768:ASN:ND2	3:D:1210:SER:CB	2.60	0.64
3:D:868:TYR:HD1	3:D:869:MET:HG3	1.63	0.64
2:M:20:GLU:HG3	2:M:460:ARG:NH2	2.13	0.64
2:M:881:ASN:ND2	2:M:884:GLN:NE2	2.46	0.64
4:O:54:LEU:O	4:O:54:LEU:HD23	1.97	0.64
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.78	0.64
5:P:340:SER:O	5:P:342:VAL:N	2.31	0.64
3:D:1174:LEU:HD13	3:D:1186:VAL:HG21	1.78	0.64
3:D:1389:LEU:H	3:D:1389:LEU:HD23	1.61	0.64
3:D:646:LYS:HA	3:D:720:LEU:HD23	1.79	0.64
2:M:129:ILE:HG22	2:M:130:ASN:N	2.12	0.64
3:N:1274:ILE:HD11	3:N:1334:GLN:HE21	1.61	0.64
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.18	0.64
5:P:367:MET:O	5:P:370:LYS:HG2	1.97	0.64
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	1.80	0.64
3:N:493:ARG:HD3	3:N:1388:ARG:HB3	1.80	0.64
3:N:959:GLU:HB2	3:N:963:TYR:HE1	1.62	0.64
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.78	0.64
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.63	0.64
2:C:332:ARG:HE	2:C:464:LEU:HG	1.62	0.64
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.33	0.64
2:C:408:ARG:NH1	2:C:542:VAL:CG2	2.61	0.64
2:C:576:ALA:H	2:C:662:GLU:CD	2.00	0.64
2:C:573:ARG:HG3	2:C:698:ASP:O	1.97	0.64
3:D:421:LEU:HG	3:D:422:ALA:O	1.97	0.64
3:D:767:HIS:CE1	4:E:6:ILE:HG12	2.33	0.64
1:L:2:LEU:HD12	1:L:3:ASP:N	2.13	0.64
2:M:1036:GLU:O	2:M:1039:ALA:HB3	1.97	0.64
2:M:1033:GLY:O	2:M:1037:VAL:HG23	1.98	0.64
5:P:222:ARG:HD2	5:P:242:TRP:CE3	2.33	0.64
2:C:273:GLY:HA2	2:C:276:LYS:NZ	2.13	0.63
3:D:807:ALA:HB2	3:D:833:GLU:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:65:VAL:CG2	2:M:101:ILE:HB	2.28	0.63
2:M:502:PRO:CB	2:M:509:ALA:HB3	2.28	0.63
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.79	0.63
3:N:455:ARG:NE	3:N:463:GLN:HE21	1.96	0.63
3:N:605:ASP:HB3	3:N:610:LYS:HB3	1.79	0.63
3:N:962:GLN:O	3:N:966:GLU:HG3	1.98	0.63
4:O:53:GLY:HA2	4:O:55:PHE:CD2	2.32	0.63
1:A:62:LEU:HD12	1:A:62:LEU:H	1.63	0.63
1:B:13:VAL:HG22	1:B:23:PHE:HD1	1.63	0.63
2:C:204:GLN:NE2	2:C:222:MET:HA	2.13	0.63
2:C:517:ARG:HG3	2:C:517:ARG:HH11	1.63	0.63
3:D:118:LEU:HD23	3:D:123:LEU:HD22	1.78	0.63
1:K:53:VAL:HG12	1:K:167:VAL:HG21	1.81	0.63
1:L:190:THR:HG22	1:L:190:THR:O	1.98	0.63
1:L:26:GLU:HG2	1:L:27:PRO:CA	2.28	0.63
2:M:1059:ASP:O	2:M:1063:ARG:HG2	1.99	0.63
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.80	0.63
2:M:713:ARG:O	2:M:720:GLU:HG3	1.99	0.63
2:M:838:LYS:NZ	2:M:846:LYS:HZ1	1.97	0.63
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.33	0.63
2:C:333:ILE:HG12	2:C:467:ILE:HD11	1.80	0.63
3:D:1011:PHE:O	3:D:1015:TYR:O	2.15	0.63
4:E:23:VAL:HG13	4:E:64:ALA:HB3	1.80	0.63
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.80	0.63
5:F:191:ASN:HD22	5:F:191:ASN:H	1.45	0.63
5:F:194:LEU:O	5:F:194:LEU:HD13	1.98	0.63
1:L:158:ILE:HG22	1:L:159:LYS:H	1.64	0.63
2:M:720:GLU:HB3	2:M:758:ARG:HD2	1.78	0.63
3:N:1378:TYR:HB3	3:N:1420:LEU:HD23	1.79	0.63
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.79	0.63
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.80	0.63
2:C:469:THR:O	2:C:485:TYR:HA	1.98	0.63
3:D:1462:LEU:HD13	3:D:1472:ILE:CG2	2.29	0.63
3:D:711:LEU:CG	3:D:778:LEU:HD23	2.27	0.63
3:D:533:GLY:HA3	5:F:309:LYS:HB3	1.78	0.63
2:M:1004:LYS:O	2:M:1005:MET:C	2.37	0.63
2:M:536:PRO:O	2:M:539:VAL:HG23	1.98	0.63
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.19	0.63
3:N:590:PRO:CB	3:N:600:LEU:HD11	2.26	0.63
3:N:792:ILE:CG2	3:N:793:THR:HG23	2.28	0.63
5:P:408:LEU:O	5:P:412:GLU:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:259:GLY:HA2	2:C:290:LEU:O	1.99	0.63
3:D:1140:ILE:O	3:D:1141:GLU:C	2.37	0.63
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.44	0.63
5:F:99:GLU:OE1	5:F:235:PHE:HB3	1.98	0.63
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.13	0.63
2:M:1031:ARG:HD3	3:N:621:LYS:O	1.99	0.63
2:M:25:SER:OG	2:M:335:THR:HB	1.99	0.63
3:N:1336:LEU:CB	3:N:1344:VAL:HG21	2.28	0.63
3:N:648:MET:O	3:N:652:LEU:HD23	1.98	0.63
3:N:758:GLU:HG2	4:O:20:THR:HG21	1.80	0.63
3:N:794:GLN:NE2	3:N:794:GLN:C	2.52	0.63
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.11	0.63
1:A:13:VAL:HG12	1:A:14:ARG:H	1.63	0.63
1:B:133:GLU:HG3	1:B:134:GLU:N	2.13	0.63
2:C:1094:ALA:HB1	3:D:603:LEU:CD2	2.28	0.63
3:D:540:LEU:HD12	3:D:606:ILE:HD11	1.78	0.63
4:E:18:ARG:O	4:E:22:VAL:HG23	1.99	0.63
2:M:744:ARG:NH2	2:M:747:ALA:HA	2.13	0.63
2:C:1097:LEU:HD11	3:D:1451:ALA:HB2	1.81	0.63
2:C:952:LEU:CD1	2:C:969:GLN:HE22	2.06	0.63
3:D:159:ARG:HG3	3:D:159:ARG:HH11	1.63	0.63
3:D:216:VAL:HG12	3:D:217:LYS:H	1.63	0.63
1:K:11:PHE:HE1	1:L:225:PHE:CD2	2.16	0.63
1:K:20:TYR:CD2	1:K:21:GLY:N	2.63	0.63
1:K:219:ARG:HH12	1:K:220:GLU:HB2	1.64	0.63
2:M:1047:HIS:ND1	3:N:754:PHE:HB3	2.14	0.63
2:M:13:ILE:HD11	2:M:470:PRO:HB3	1.80	0.63
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.13	0.63
2:M:1071:ILE:HG23	3:N:670:VAL:CG2	2.28	0.63
3:N:556:LYS:CE	5:P:218:GLN:HE22	2.12	0.63
2:C:1044:GLY:HA3	3:D:762:GLN:OE1	1.98	0.63
2:C:238:LEU:HA	2:C:241:LEU:HD12	1.80	0.63
2:C:383:ARG:HH11	2:C:383:ARG:HB2	1.63	0.63
3:D:1036:ARG:HG2	3:D:1036:ARG:O	1.98	0.63
3:D:1491:THR:HG21	4:E:89:MET:CE	2.29	0.63
3:D:470:LEU:HD12	3:D:508:ARG:NH1	2.14	0.63
2:C:949:LYS:NZ	3:D:862:ASP:OD1	2.31	0.63
2:M:886:LEU:CD1	3:N:951:ILE:HG13	2.29	0.63
2:M:901:TYR:HE2	2:M:917:LEU:HD12	1.64	0.63
3:N:1267:ARG:CZ	3:N:1271:LYS:HG3	2.28	0.63
3:N:486:ARG:NE	3:N:489:ARG:HD3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1046:ALA:HB3	3:N:758:GLU:OE1	1.99	0.63
2:C:611:ILE:HD11	2:C:641:PRO:HG3	1.81	0.63
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.13	0.63
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.80	0.63
2:M:422:ARG:HG3	2:M:423:ALA:H	1.62	0.63
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.99	0.63
3:N:139:GLY:C	3:N:147:VAL:HG22	2.20	0.63
1:A:44:LEU:HA	1:A:48:ILE:HD11	1.80	0.62
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.33	0.62
3:D:1130:ARG:HD2	3:D:1131:SER:N	2.14	0.62
3:D:1232:PRO:O	3:D:1234:THR:N	2.32	0.62
3:D:1306:PRO:O	3:D:1308:GLU:N	2.32	0.62
3:D:10:ILE:CD1	3:D:1434:TRP:CE2	2.82	0.62
3:D:729:HIS:ND1	3:D:731:LEU:N	2.43	0.62
5:F:78:SER:O	5:F:82:ARG:HB2	1.99	0.62
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.80	0.62
2:C:259:GLY:O	2:C:291:ALA:HB2	1.98	0.62
2:C:829:GLN:CD	2:C:831:ARG:HH11	2.03	0.62
3:D:601:ARG:NH2	3:D:611:GLN:HB2	2.14	0.62
3:D:628:ARG:HG2	3:D:629:SER:N	2.12	0.62
5:F:403:LYS:O	5:F:407:LYS:HB2	1.97	0.62
2:M:51:THR:HG21	2:M:348:LEU:HB3	1.79	0.62
2:M:691:SER:HB2	2:M:858:MET:SD	2.39	0.62
3:N:1129:THR:HG23	3:N:1130:ARG:N	2.13	0.62
3:N:368:VAL:HG22	3:N:369:ALA:N	2.14	0.62
3:N:461:ILE:HG22	3:N:465:LEU:CD1	2.28	0.62
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.99	0.62
3:N:661:MET:HB3	3:N:667:ALA:HB3	1.81	0.62
3:N:976:GLN:HG2	3:N:979:GLU:OE1	1.99	0.62
1:A:153:ALA:HB2	1:A:167:VAL:C	2.18	0.62
2:C:12:VAL:HG13	2:C:13:ILE:H	1.65	0.62
2:C:148:PHE:HB3	2:C:313:LEU:HD22	1.81	0.62
2:C:28:ARG:HG2	2:C:40:GLU:OE1	1.98	0.62
2:C:516:ARG:HH11	2:C:521:PRO:CB	2.12	0.62
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.30	0.62
2:C:67:ASP:HB2	2:C:99:GLN:HG3	1.81	0.62
3:D:1031:ASN:O	3:D:1034:GLN:N	2.33	0.62
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.81	0.62
3:D:400:VAL:C	3:D:402:PRO:HD3	2.19	0.62
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.81	0.62
3:N:591:VAL:HA	3:N:600:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1087:VAL:HG12	2:C:1091:GLU:OE1	2.00	0.62
2:C:129:ILE:HG22	2:C:130:ASN:CG	2.20	0.62
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.81	0.62
2:C:1:MET:SD	2:C:900:ARG:HD3	2.38	0.62
2:C:971:LYS:HA	2:C:988:VAL:HA	1.81	0.62
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.80	0.62
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.34	0.62
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.29	0.62
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.29	0.62
2:M:712:ALA:O	2:M:820:ARG:HB2	1.99	0.62
3:N:141:ILE:H	3:N:141:ILE:CD1	2.07	0.62
3:N:590:PRO:HB2	3:N:600:LEU:CD1	2.25	0.62
5:P:354:LEU:HD23	5:P:418:LEU:HD11	1.81	0.62
2:C:274:ARG:N	2:C:288:ARG:HH12	1.97	0.62
2:C:301:GLU:O	2:C:305:PRO:HG2	2.00	0.62
2:C:588:VAL:HG21	2:C:664:GLY:HA2	1.81	0.62
3:D:166:GLN:HB3	3:D:395:VAL:HG23	1.80	0.62
3:D:426:LYS:HD3	5:F:134:LYS:O	1.99	0.62
5:F:164:LYS:CA	5:F:171:LYS:NZ	2.62	0.62
5:F:340:SER:O	5:F:342:VAL:N	2.33	0.62
2:M:1051:GLU:CD	3:N:752:SER:H	2.02	0.62
2:M:700:TYR:HB2	2:M:833:LEU:HD22	1.81	0.62
3:N:1119:SER:O	3:N:1346:ARG:NH2	2.33	0.62
3:N:13:ALA:HA	3:N:17:LYS:HD2	1.81	0.62
3:N:69:GLU:O	3:N:80:VAL:HG13	1.99	0.62
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.34	0.62
2:C:100:LEU:HD12	2:C:100:LEU:O	1.99	0.62
2:C:3:ILE:HD13	2:C:900:ARG:HG3	1.80	0.62
2:C:47:ALA:O	2:C:50:GLU:HB3	2.00	0.62
2:C:946:ARG:HD2	2:C:984:GLU:HB2	1.81	0.62
3:D:1140:ILE:HG22	3:D:1141:GLU:N	2.13	0.62
5:F:77:THR:CA	5:F:80:PRO:HD2	2.29	0.62
1:L:143:ARG:HD2	1:L:160:ASP:OD1	2.00	0.62
2:M:288:ARG:HA	2:M:288:ARG:NE	2.13	0.62
3:N:1108:ARG:HG3	3:N:1108:ARG:O	1.99	0.62
3:N:387:LEU:HD21	5:P:97:GLU:HB2	1.81	0.62
3:N:545:ARG:NH1	3:N:545:ARG:HB3	2.14	0.62
3:N:642:CYS:HB3	3:N:716:PHE:CD2	2.33	0.62
5:P:398:ARG:HD3	5:P:399:GLN:N	2.14	0.62
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.80	0.62
1:A:7:LYS:NZ	1:A:188:GLN:HE21	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:713:ARG:HA	2:C:818:GLY:O	2.00	0.62
2:C:799:ILE:H	2:C:799:ILE:CD1	2.10	0.62
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.15	0.62
3:D:1140:ILE:O	3:D:1143:GLY:N	2.20	0.62
3:D:234:GLU:O	3:D:238:PRO:HD2	1.99	0.62
3:D:659:LYS:HE2	3:D:663:GLU:CD	2.19	0.62
2:M:413:LEU:N	2:M:413:LEU:HD12	2.14	0.62
2:M:328:LEU:N	2:M:433:THR:HG21	2.12	0.62
2:M:599:GLU:HA	2:M:651:LYS:HG3	1.81	0.62
3:N:1291:SER:HB3	3:N:1293:PHE:HE1	1.65	0.62
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.29	0.62
3:N:195:VAL:CB	3:N:205:TYR:HB2	2.29	0.62
3:N:367:ILE:HD13	3:N:367:ILE:H	1.65	0.62
1:L:170:VAL:HG11	3:N:848:GLU:OE1	1.99	0.62
5:P:276:ARG:HH11	5:P:276:ARG:HG3	1.65	0.62
5:P:406:ARG:HG2	5:P:409:LYS:NZ	2.15	0.62
2:C:486:MET:CE	2:C:496:ILE:HD11	2.30	0.62
2:C:6:PHE:O	2:C:7:GLY:O	2.17	0.62
2:C:841:ASN:ND2	2:C:843:HIS:H	1.98	0.62
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.26	0.62
3:D:1168:MET:HE1	3:D:1171:VAL:HB	1.82	0.62
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.81	0.62
3:D:525:ARG:HG3	3:D:525:ARG:O	1.98	0.62
3:D:638:LYS:HB2	3:D:641:GLN:OE1	1.98	0.62
4:E:68:LEU:HD11	4:E:75:PHE:HE2	1.63	0.62
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.35	0.62
2:M:242:LEU:N	2:M:242:LEU:HD22	2.15	0.62
2:M:442:GLU:HG3	2:M:442:GLU:O	1.99	0.62
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.82	0.62
3:N:70:GLY:C	3:N:71:LYS:HD2	2.19	0.62
3:N:385:VAL:HG13	5:P:232:ARG:HH12	1.62	0.62
1:A:170:VAL:HG11	2:C:696:LYS:HD3	1.81	0.62
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.15	0.62
2:C:795:GLY:O	2:C:796:GLU:HG2	2.00	0.62
3:D:100:ALA:HB3	3:D:128:TYR:HE2	1.65	0.62
3:D:139:GLY:HA2	3:D:452:ILE:HA	1.82	0.62
3:D:192:ALA:O	3:D:195:VAL:HG23	2.00	0.62
3:D:367:ILE:HG23	3:D:368:VAL:N	2.14	0.62
3:D:380:GLU:O	3:D:382:GLU:N	2.33	0.62
3:D:493:ARG:HE	3:D:1389:LEU:HD21	1.64	0.62
3:D:498:VAL:HG13	3:D:499:VAL:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:528:VAL:CB	3:D:536:ALA:HB3	2.28	0.62
2:C:1043:TYR:HE2	3:D:710:ARG:HD3	1.64	0.62
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.65	0.62
5:F:180:GLY:O	5:F:183:ALA:N	2.33	0.62
1:K:176:ARG:HH22	2:M:865:THR:HB	1.64	0.62
1:L:12:THR:HG23	1:L:24:VAL:HB	1.82	0.62
2:M:534:VAL:N	2:M:538:GLN:HE22	1.97	0.62
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.15	0.62
3:N:570:GLU:C	3:N:572:ARG:H	2.03	0.62
4:O:40:LEU:HD13	4:O:45:ARG:HD2	1.82	0.62
5:P:289:GLU:O	5:P:293:GLU:HG3	2.00	0.62
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.64	0.62
2:C:1054:THR:CG2	2:C:1059:ASP:HB2	2.29	0.62
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.35	0.62
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.34	0.62
2:C:690:ILE:HG21	2:C:833:LEU:HD21	1.81	0.62
3:D:1112:CYS:SG	3:D:1201:CYS:SG	2.97	0.62
5:F:394:ARG:O	5:F:397:ILE:HB	2.00	0.62
5:F:413:SER:O	5:F:416:ARG:HD3	1.99	0.62
3:D:572:ARG:NH2	5:F:83:GLN:NE2	2.47	0.62
2:M:880:MET:HE3	3:N:1034:GLN:HG2	1.81	0.62
3:N:1242:HIS:HB3	3:N:1269:LYS:NZ	2.14	0.62
2:M:1109:VAL:CG2	3:N:3:LYS:HB2	2.29	0.62
1:A:158:ILE:C	1:A:158:ILE:HD13	2.20	0.61
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.23	0.61
2:C:722:ILE:O	2:C:722:ILE:HG12	2.00	0.61
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.82	0.61
3:D:1126:ASP:OD2	3:D:1129:THR:HA	2.00	0.61
3:D:136:ASP:CB	3:D:137:PRO:CD	2.76	0.61
3:D:396:VAL:HG13	3:D:446:VAL:C	2.21	0.61
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.27	0.61
3:D:659:LYS:HE3	3:D:662:GLU:OE2	2.00	0.61
4:E:54:LEU:HD21	4:E:63:TRP:HE1	1.65	0.61
2:M:413:LEU:HD21	2:M:451:LEU:HD13	1.82	0.61
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.82	0.61
3:N:413:ASP:HB2	3:N:444:VAL:HG11	1.82	0.61
3:N:601:ARG:HB3	5:P:318:GLU:OE2	2.00	0.61
3:N:609:GLY:HA2	3:N:613:ARG:HB3	1.81	0.61
3:N:669:ASN:OD1	3:N:672:ALA:HB2	1.99	0.61
3:N:675:ARG:O	3:N:678:GLU:HG2	1.99	0.61
3:N:728:LEU:HD22	3:N:745:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1015:LEU:HB3	2:C:1016:ILE:CD1	2.21	0.61
2:C:300:ASP:C	2:C:302:VAL:H	2.02	0.61
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.82	0.61
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.20	0.61
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	1.99	0.61
3:D:601:ARG:HH12	3:D:611:GLN:CB	2.13	0.61
4:E:25:LYS:HA	4:E:28:GLN:CD	2.20	0.61
2:M:744:ARG:HG3	2:M:744:ARG:O	1.99	0.61
2:M:794:PRO:O	2:M:1004:LYS:HD2	2.00	0.61
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	2.13	0.61
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.81	0.61
4:O:40:LEU:HD12	4:O:40:LEU:O	2.00	0.61
1:A:28:LEU:HB2	1:A:193:ASP:O	2.00	0.61
3:D:923:GLY:O	3:D:927:THR:OG1	2.15	0.61
2:M:250:ARG:HB3	2:M:253:ALA:CB	2.30	0.61
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.82	0.61
3:N:1389:LEU:HD23	3:N:1389:LEU:N	2.15	0.61
3:N:216:VAL:HG11	3:N:221:ALA:CA	2.29	0.61
2:C:755:LEU:HD11	2:C:792:VAL:HG22	1.81	0.61
2:C:682:TYR:OH	2:C:851:LYS:HE2	2.00	0.61
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.00	0.61
3:D:1078:ARG:C	3:D:1080:GLY:N	2.52	0.61
3:D:1188:VAL:HG22	3:D:1189:ARG:N	2.15	0.61
3:D:1353:GLN:HG3	3:D:1365:ASP:OD2	1.99	0.61
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.35	0.61
4:E:48:MET:N	4:E:54:LEU:HB2	2.15	0.61
2:M:1063:ARG:HG3	2:M:1064:ASN:N	2.15	0.61
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.83	0.61
3:N:1148:VAL:HG12	3:N:1189:ARG:HB2	1.83	0.61
3:N:218:LYS:O	3:N:370:ALA:HB1	2.01	0.61
3:N:565:ILE:H	3:N:565:ILE:HD12	1.65	0.61
3:N:643:GLY:O	3:N:726:ILE:HG23	2.00	0.61
2:C:1043:TYR:CE2	3:D:710:ARG:HB2	2.35	0.61
3:D:1102:THR:HG22	3:D:1102:THR:O	2.01	0.61
5:F:271:LEU:CD1	5:F:308:LEU:HD21	2.29	0.61
2:M:1009:SER:N	3:N:651:GLU:OE2	2.34	0.61
2:M:8:ARG:HD2	2:M:10:ARG:HH12	1.64	0.61
2:M:110:GLU:HG2	2:M:369:PRO:HA	1.82	0.61
2:M:15:LEU:HB2	2:M:586:ARG:HH22	1.65	0.61
2:M:244:PRO:HG2	2:M:246:ASP:H	1.65	0.61
3:N:1330:ILE:HB	3:N:1347:TYR:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1488:ASP:O	3:N:1492:LEU:HB2	2.00	0.61
3:N:34:TYR:CE2	5:P:260:ILE:HG13	2.36	0.61
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.15	0.61
3:N:817:GLU:HA	3:N:836:VAL:HG23	1.83	0.61
5:P:102:LEU:O	5:P:105:LYS:N	2.31	0.61
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.36	0.61
2:C:367:LEU:H	2:C:367:LEU:HD23	1.65	0.61
3:D:1065:LEU:HD23	3:D:1070:TYR:HD2	1.64	0.61
3:D:1148:VAL:HA	3:D:1164:ARG:O	1.99	0.61
3:D:1459:LEU:HD12	3:D:1470:ARG:NH1	2.15	0.61
3:D:387:LEU:HD13	5:F:97:GLU:H	1.66	0.61
3:D:528:VAL:N	3:D:536:ALA:O	2.33	0.61
1:L:209:GLU:O	1:L:212:ASN:HB2	2.00	0.61
2:M:159:ILE:HG22	2:M:175:GLU:HG3	1.82	0.61
3:N:1065:LEU:CD2	3:N:1065:LEU:O	2.44	0.61
3:N:1495:ILE:HG12	4:O:80:VAL:CG1	2.31	0.61
5:P:187:LEU:O	5:P:190:ALA:HB3	2.00	0.61
5:P:93:LEU:HD13	5:P:99:GLU:HG2	1.81	0.61
2:C:589:ARG:HH11	2:C:589:ARG:HB2	1.66	0.61
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.83	0.61
3:D:1190:SER:OG	3:D:1369:GLU:OE1	2.11	0.61
3:D:573:MET:SD	5:F:210:LEU:HB3	2.41	0.61
5:F:333:ILE:HD12	5:F:333:ILE:N	2.15	0.61
2:M:1071:ILE:HD11	3:N:658:LEU:HD12	1.81	0.61
2:M:129:ILE:HD12	2:M:129:ILE:N	2.15	0.61
2:M:949:LYS:HZ3	3:N:796:ARG:NH2	1.99	0.61
2:M:1047:HIS:N	3:N:758:GLU:OE1	2.30	0.61
5:P:163:LEU:CD2	5:P:174:LEU:HG	2.21	0.61
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.82	0.61
3:D:1451:ALA:O	3:D:1453:ALA:N	2.33	0.61
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.31	0.61
5:F:260:ILE:HG12	5:F:264:MET:HB2	1.83	0.61
2:M:3:ILE:CD1	2:M:900:ARG:HB2	2.31	0.61
2:M:422:ARG:HG3	2:M:423:ALA:N	2.16	0.61
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.83	0.61
3:N:564:GLU:HG2	3:N:565:ILE:HD12	1.83	0.61
1:A:94:LEU:CD1	1:A:119:ASP:HB3	2.31	0.61
2:C:869:VAL:HG22	2:C:870:ILE:N	2.15	0.61
3:D:783:ARG:HH21	3:D:1029:ARG:CZ	2.14	0.61
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.25	0.61
3:D:1118:ILE:HG21	3:D:1190:SER:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:171:LEU:HB3	3:D:390:PRO:HA	1.81	0.61
3:D:434:ARG:CB	3:D:447:VAL:HG13	2.31	0.61
3:D:552:ASN:O	3:D:555:LYS:N	2.34	0.61
2:C:1029:GLY:HA3	3:D:622:ARG:HB3	1.83	0.61
2:M:534:VAL:N	2:M:538:GLN:NE2	2.49	0.61
2:M:881:ASN:ND2	2:M:881:ASN:H	1.98	0.61
3:N:1344:VAL:O	3:N:1348:LEU:HD23	2.00	0.61
3:N:245:LEU:O	3:N:245:LEU:HD13	2.00	0.61
5:P:406:ARG:CB	5:P:409:LYS:HE2	2.30	0.61
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.00	0.61
3:D:421:LEU:H	3:D:421:LEU:HD23	1.65	0.61
5:F:277:GLN:O	5:F:280:GLN:HB3	2.01	0.61
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.82	0.61
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.65	0.61
2:M:203:ASP:O	2:M:207:LEU:HB2	2.01	0.61
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.31	0.61
2:M:971:LYS:HD2	2:M:986:PRO:HB2	1.83	0.61
3:N:149:LYS:N	3:N:149:LYS:HD3	2.13	0.61
1:A:228:PRO:O	1:A:229:GLN:HG2	2.00	0.60
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.82	0.60
2:C:345:ARG:HB3	2:C:345:ARG:NH1	2.16	0.60
3:D:1114:THR:HG21	3:D:1195:GLN:N	2.16	0.60
3:D:1311:LEU:HD23	3:D:1311:LEU:N	2.13	0.60
1:K:50:GLY:O	1:K:146:ARG:HA	2.01	0.60
1:L:131:THR:C	1:L:132:LEU:HD12	2.21	0.60
2:M:1044:GLY:O	2:M:1046:ALA:N	2.34	0.60
2:M:500:ASN:HD21	3:N:1067:VAL:HG23	1.66	0.60
3:N:1242:HIS:HB3	3:N:1269:LYS:HZ1	1.65	0.60
3:N:433:GLY:H	3:N:448:GLU:HA	1.66	0.60
3:N:765:SER:O	3:N:767:HIS:N	2.33	0.60
3:N:799:LYS:O	3:N:799:LYS:HD3	2.01	0.60
3:N:804:LEU:O	3:N:830:ALA:O	2.19	0.60
2:C:274:ARG:H	2:C:288:ARG:HH12	1.49	0.60
2:C:430:VAL:HB	3:D:1078:ARG:NH1	2.16	0.60
2:C:926:PHE:HE2	2:C:960:GLU:OE1	1.84	0.60
3:D:1267:ARG:HH21	3:D:1271:LYS:HG3	1.66	0.60
3:D:1278:ASP:OD1	3:D:1321:ALA:HB2	2.01	0.60
3:D:142:LEU:O	3:D:142:LEU:HD12	2.01	0.60
3:D:14:SER:O	3:D:17:LYS:N	2.33	0.60
3:D:783:ARG:CZ	3:D:1029:ARG:CZ	2.79	0.60
4:E:86:GLN:O	4:E:90:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:751:PRO:HG3	2:M:796:GLU:HA	1.83	0.60
2:M:432:ARG:HH12	3:N:1047:LYS:HG2	1.66	0.60
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.42	0.60
3:N:1336:LEU:CD1	3:N:1341:PRO:HA	2.30	0.60
3:N:167:GLU:CD	5:P:90:GLN:HE21	2.04	0.60
3:N:583:ASP:OD1	3:N:604:THR:CB	2.49	0.60
3:N:984:THR:O	3:N:987:GLU:N	2.34	0.60
5:P:130:VAL:HG13	5:P:156:VAL:HG23	1.82	0.60
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.65	0.60
3:D:601:ARG:HD2	5:F:318:GLU:OE1	2.01	0.60
1:K:42:ARG:NH1	2:M:856:GLU:O	2.35	0.60
2:M:1114:GLY:C	2:M:1116:ALA:H	2.03	0.60
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.32	0.60
2:M:332:ARG:HG3	2:M:465:GLY:O	2.00	0.60
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.66	0.60
2:M:575:GLN:O	2:M:667:ALA:HB1	2.02	0.60
3:N:808:THR:HB	3:N:809:PRO:HD3	1.83	0.60
5:P:160:ASP:O	5:P:163:LEU:HB2	2.02	0.60
1:B:162:ILE:HG23	1:B:163:ASN:ND2	2.17	0.60
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.35	0.60
2:C:497:ALA:O	2:C:532:MET:HG3	2.01	0.60
3:D:30:GLU:OE1	3:D:40:GLU:HG2	2.00	0.60
3:D:843:PHE:HD1	3:D:849:ALA:HA	1.64	0.60
1:K:170:VAL:O	1:K:170:VAL:HG23	2.01	0.60
2:M:1000:MET:SD	2:M:1001:VAL:N	2.74	0.60
2:M:683:ASN:HA	2:M:687:ALA:CB	2.31	0.60
3:N:1225:ALA:O	3:N:1226:ALA:C	2.40	0.60
3:N:1384:PRO:HG2	3:N:1389:LEU:N	2.16	0.60
3:N:558:LEU:O	3:N:561:GLY:N	2.32	0.60
3:N:691:LEU:O	3:N:694:VAL:HB	2.01	0.60
3:N:858:VAL:HG12	3:N:859:ASP:O	2.00	0.60
3:D:223:LEU:CA	3:D:365:ASP:HB2	2.31	0.60
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.67	0.60
1:K:64:GLU:HB2	1:K:165:ILE:HG21	1.83	0.60
1:K:26:GLU:CD	1:K:27:PRO:HD2	2.22	0.60
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.83	0.60
2:M:838:LYS:NZ	2:M:846:LYS:NZ	2.49	0.60
3:N:366:LYS:NZ	3:N:366:LYS:HB2	2.16	0.60
3:N:616:GLN:CB	5:P:326:ASP:HB2	2.29	0.60
2:C:912:PRO:HA	2:C:915:LYS:HB2	1.83	0.60
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:785:ILE:HD11	3:D:939:PHE:CZ	2.37	0.60
2:C:1102:LEU:HD22	3:D:9:ARG:HD3	1.81	0.60
5:F:128:ARG:HG2	5:F:132:ARG:NH1	2.15	0.60
3:D:423:ASP:HB2	5:F:178:ARG:HG3	1.83	0.60
5:F:205:ARG:HE	5:F:251:ILE:HD13	1.65	0.60
1:K:26:GLU:HB3	1:K:27:PRO:CD	2.30	0.60
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.82	0.60
3:N:182:GLY:O	3:N:186:VAL:HB	2.02	0.60
3:N:32:ILE:HG23	3:N:38:LYS:O	2.00	0.60
3:N:106:LYS:HE2	3:N:587:ARG:HD3	1.84	0.60
3:N:953:ASP:OD2	3:N:1019:PRO:HD2	2.00	0.60
5:P:88:ILE:CD1	5:P:193:ARG:HH11	2.15	0.60
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.16	0.60
2:C:1081:VAL:HB	2:C:1086:ARG:CZ	2.31	0.60
2:C:144:PRO:HA	2:C:163:ILE:O	2.01	0.60
2:C:571:LEU:HD13	2:C:669:GLY:HA2	1.83	0.60
2:C:860:HIS:CD2	2:C:975:TYR:HB2	2.37	0.60
3:D:633:VAL:C	3:D:635:PRO:HD3	2.22	0.60
5:F:288:TYR:CE2	5:F:305:GLU:HG3	2.37	0.60
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.83	0.60
2:M:1109:VAL:HG13	3:N:3:LYS:H	1.66	0.60
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.83	0.60
3:N:1090:ASP:HB3	3:N:1093:TYR:HB2	1.82	0.60
3:N:601:ARG:CG	3:N:606:ILE:HG13	2.31	0.60
1:A:14:ARG:HH22	1:A:24:VAL:CG2	2.14	0.60
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.82	0.60
3:D:1101:VAL:HG12	3:D:1374:GLN:CB	2.32	0.60
3:D:1459:LEU:HD12	3:D:1470:ARG:HH11	1.67	0.60
3:D:602:SER:O	3:D:606:ILE:HG13	2.02	0.60
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.83	0.60
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.28	0.60
2:M:553:ASP:OD2	2:M:881:ASN:CB	2.50	0.60
2:M:690:ILE:HB	2:M:852:ILE:HD13	1.84	0.60
3:N:1008:PHE:CZ	3:N:1032:PRO:HA	2.37	0.60
1:B:153:ALA:O	1:B:156:HIS:HD2	1.84	0.60
2:C:209:ARG:N	2:C:209:ARG:HD2	2.17	0.60
2:C:328:LEU:HD13	2:C:433:THR:HG22	1.83	0.60
2:C:695:LEU:HD13	2:C:832:LYS:CE	2.28	0.60
2:C:859:PRO:HB3	2:C:974:LEU:HD23	1.84	0.60
3:D:1114:THR:HG22	3:D:1195:GLN:HB2	1.82	0.60
5:F:150:THR:HB	5:F:155:THR:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:62:LEU:H	1:L:62:LEU:HD12	1.66	0.60
2:M:554:ASP:OD1	2:M:555:ALA:N	2.35	0.60
3:N:1258:ARG:HG2	3:N:1262:LEU:HD13	1.84	0.60
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.17	0.60
3:N:1265:ALA:HB1	3:N:1333:HIS:CE1	2.36	0.60
3:N:1459:LEU:CD1	3:N:1470:ARG:HH11	2.15	0.60
3:N:560:GLN:O	3:N:560:GLN:HG3	2.02	0.60
5:P:196:VAL:HG13	5:P:209:PHE:HZ	1.66	0.60
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.67	0.60
2:C:728:HIS:HB3	2:C:729:LEU:HD22	1.84	0.60
2:C:807:ARG:NH2	2:C:808:ARG:HB2	2.16	0.60
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.84	0.60
2:C:1096:ALA:HB3	3:D:101:HIS:CE1	2.37	0.60
3:D:1209:LEU:CD1	3:D:1219:GLU:OE1	2.50	0.60
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.65	0.60
5:F:392:VAL:HG11	5:F:396:ARG:HD2	1.84	0.60
1:K:38:ASN:O	1:K:41:ARG:N	2.35	0.60
2:M:66:LEU:HD13	2:M:100:LEU:HB3	1.84	0.60
2:M:350:ARG:HG2	2:M:350:ARG:HH11	1.67	0.60
2:M:484:VAL:O	2:M:484:VAL:HG12	2.01	0.60
2:M:877:PRO:HG2	3:N:1023:MET:HE1	1.82	0.60
2:M:516:ARG:HH11	3:N:1068:LEU:HD22	1.65	0.60
3:N:1233:GLY:O	3:N:1236:LEU:HB2	2.02	0.60
3:N:1260:ILE:O	3:N:1262:LEU:N	2.34	0.60
3:N:175:VAL:O	3:N:179:VAL:HG21	2.02	0.60
3:N:629:SER:HB3	3:N:726:ILE:CD1	2.32	0.60
3:N:890:VAL:HG23	3:N:890:VAL:O	2.02	0.60
2:C:650:ARG:CD	2:C:650:ARG:N	2.61	0.59
3:D:237:LYS:HE3	3:D:237:LYS:HA	1.84	0.59
3:D:637:LEU:O	3:D:637:LEU:HD23	2.02	0.59
3:D:834:THR:HA	3:D:838:ARG:HE	1.67	0.59
5:F:164:LYS:CA	5:F:171:LYS:HZ2	2.14	0.59
2:M:650:ARG:HE	2:M:653:ASP:CG	2.05	0.59
3:N:601:ARG:HD2	3:N:613:ARG:HH21	1.66	0.59
5:P:300:ASP:CG	5:P:301:ALA:H	2.06	0.59
5:P:372:ARG:NE	5:P:388:ALA:HA	2.17	0.59
1:A:178:ALA:O	1:A:197:LEU:HD23	2.01	0.59
2:C:208:ALA:O	2:C:218:VAL:HG21	2.01	0.59
2:C:660:ALA:HB1	2:C:667:ALA:O	2.01	0.59
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.15	0.59
3:D:1459:LEU:CD1	3:D:1470:ARG:HH11	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:542:ASP:OD2	3:D:545:ARG:NH2	2.34	0.59
3:D:681:ARG:HH11	3:D:681:ARG:HB2	1.67	0.59
5:F:136:LEU:HD12	5:F:137:GLY:H	1.67	0.59
5:F:408:LEU:HD23	5:F:409:LYS:N	2.17	0.59
1:K:215:VAL:HG23	1:K:216:GLU:N	2.18	0.59
2:M:755:LEU:O	2:M:756:VAL:HG23	2.03	0.59
3:N:786:ILE:HD13	3:N:1027:GLY:HA3	1.83	0.59
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.67	0.59
3:N:754:PHE:HA	4:O:24:ALA:HB1	1.83	0.59
5:P:266:GLU:O	5:P:270:LYS:HG3	2.03	0.59
5:P:77:THR:O	5:P:81:VAL:HG23	2.01	0.59
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.17	0.59
3:D:598:ARG:NH1	5:F:319:THR:HA	1.97	0.59
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.82	0.59
2:M:91:GLN:HG2	2:M:119:PRO:HG3	1.84	0.59
2:M:325:ILE:N	2:M:325:ILE:HD12	2.17	0.59
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.37	0.59
2:M:557:ARG:HD3	2:M:879:ARG:HG2	1.83	0.59
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.01	0.59
3:N:15:PRO:HB3	3:N:19:ARG:HH12	1.67	0.59
3:N:525:ARG:N	3:N:526:PRO:CD	2.66	0.59
3:N:125:GLN:OE1	3:N:587:ARG:NH2	2.36	0.59
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.84	0.59
2:C:946:ARG:NH1	2:C:984:GLU:HG3	2.16	0.59
3:D:1154:GLU:CG	3:D:1159:ARG:HG2	2.32	0.59
3:D:1397:LYS:O	3:D:1400:VAL:HB	2.02	0.59
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.65	0.59
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.83	0.59
3:D:755:ALA:HA	3:D:758:GLU:HG2	1.84	0.59
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.67	0.59
3:N:715:ALA:O	3:N:764:LEU:HD12	2.02	0.59
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.85	0.59
5:P:398:ARG:HH11	5:P:398:ARG:HG2	1.66	0.59
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.02	0.59
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.83	0.59
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.23	0.59
3:D:163:TYR:CZ	3:D:394:LEU:HD21	2.38	0.59
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.32	0.59
4:E:40:LEU:HD22	4:E:45:ARG:CZ	2.32	0.59
5:F:169:GLU:CD	5:F:169:GLU:H	2.02	0.59
3:D:553:ARG:HD3	5:F:214:GLN:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG22	1:L:209:GLU:CG	2.32	0.59
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.17	0.59
2:M:44:ILE:HD11	2:M:340:MET:CE	2.33	0.59
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.84	0.59
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.84	0.59
3:N:1161:GLU:HG3	3:N:1164:ARG:HB2	1.83	0.59
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.67	0.59
3:N:231:VAL:HG12	3:N:378:ILE:HG23	1.84	0.59
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.18	0.59
3:N:681:ARG:HG3	3:N:682:ASP:OD1	2.03	0.59
3:N:710:ARG:NH1	3:N:772:PRO:HG2	2.15	0.59
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.83	0.59
1:B:62:LEU:HD13	1:B:63:HIS:CD2	2.37	0.59
2:C:203:ASP:O	2:C:207:LEU:HB2	2.03	0.59
2:C:697:ARG:O	2:C:699:PHE:N	2.36	0.59
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.85	0.59
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.01	0.59
3:D:709:HIS:O	3:D:710:ARG:C	2.41	0.59
3:D:762:GLN:NE2	4:E:20:THR:OG1	2.34	0.59
3:D:925:GLU:HG2	4:E:7:ASP:OD2	2.03	0.59
2:M:1097:LEU:HD21	3:N:103:TRP:HZ3	1.68	0.59
2:M:15:LEU:HB2	2:M:586:ARG:NH2	2.18	0.59
2:M:742:VAL:HG12	2:M:743:VAL:H	1.66	0.59
3:N:1096:ARG:NH1	3:N:1096:ARG:HG2	2.16	0.59
3:N:427:VAL:CB	3:N:435:VAL:HB	2.31	0.59
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.37	0.59
3:N:12:LEU:CB	3:N:507:ASN:HD22	2.09	0.59
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.32	0.59
5:P:181:GLU:OE2	5:P:184:ARG:HG2	2.01	0.59
5:P:229:TYR:H	5:P:229:TYR:HD1	1.51	0.59
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.67	0.59
2:C:227:PHE:HA	2:C:230:ARG:CZ	2.32	0.59
2:C:455:LEU:HD13	2:C:459:ALA:HB3	1.83	0.59
1:A:77:GLU:HB2	2:C:640:ARG:NH2	2.18	0.59
1:A:180:GLN:NE2	2:C:934:PHE:HB2	2.17	0.59
2:C:673:LEU:HG	2:C:990:GLY:O	2.02	0.59
2:C:99:GLN:HG3	2:C:99:GLN:O	2.03	0.59
3:D:1229:ILE:CD1	3:D:1368:ILE:HG12	2.30	0.59
3:D:583:ASP:OD2	3:D:604:THR:HB	2.03	0.59
3:D:795:VAL:CG1	3:D:863:VAL:HG22	2.33	0.59
5:F:309:LYS:O	5:F:312:GLN:HG3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:76:SER:O	5:F:78:SER:N	2.36	0.59
2:M:626:ARG:HG2	2:M:629:TYR:CD1	2.38	0.59
2:M:674:VAL:HG11	2:M:992:MET:CE	2.33	0.59
2:M:801:VAL:O	2:M:802:ARG:HB2	2.00	0.59
5:P:403:LYS:O	5:P:407:LYS:HG2	2.02	0.59
2:C:192:PRO:HB2	2:C:195:LEU:HB2	1.85	0.59
2:C:140:ILE:HA	2:C:332:ARG:O	2.02	0.59
3:D:118:LEU:O	3:D:120:ALA:N	2.36	0.59
3:D:521:PRO:O	3:D:525:ARG:NH1	2.36	0.59
3:D:789:LEU:HD13	3:D:882:PHE:HE1	1.67	0.59
1:L:115:LEU:O	1:L:115:LEU:HD12	2.03	0.59
2:M:64:LEU:O	2:M:65:VAL:HG13	2.03	0.59
3:N:172:PRO:HB3	3:N:178:LEU:HD22	1.84	0.59
3:N:411:THR:HG22	3:N:412:GLY:H	1.67	0.59
2:C:1021:LEU:HG	2:C:1022:GLY:H	1.67	0.59
2:C:907:ASP:O	2:C:907:ASP:CG	2.41	0.59
3:D:1258:ARG:O	3:D:1260:ILE:N	2.35	0.59
3:D:739:ASP:OD2	3:D:741:ASP:OD2	2.20	0.59
3:D:785:ILE:HG13	3:D:939:PHE:CE2	2.38	0.59
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.85	0.59
5:F:269:ASN:HB3	5:F:273:ARG:NH2	2.04	0.59
2:M:183:SER:CB	2:M:190:LYS:HG2	2.29	0.59
2:M:244:PRO:CG	2:M:245:GLY:H	2.15	0.59
3:N:1046:GLN:HG3	3:N:1047:LYS:O	2.03	0.59
3:N:1377:LYS:HE2	3:N:1394:VAL:HG22	1.85	0.59
3:N:769:LEU:C	3:N:770:LEU:HD23	2.23	0.59
3:N:899:LEU:HD22	3:N:900:ILE:N	2.17	0.59
3:N:99:ALA:HB1	3:N:575:GLN:OE1	2.03	0.59
5:P:401:GLU:O	5:P:405:LEU:HB2	2.03	0.59
2:C:289:THR:HG22	2:C:290:LEU:H	1.67	0.59
3:D:237:LYS:HB3	3:D:238:PRO:CD	2.25	0.59
3:D:609:GLY:HA3	3:D:614:PHE:N	2.16	0.59
3:D:875:THR:HG22	3:D:879:ARG:HD2	1.84	0.59
3:D:916:TYR:C	3:D:916:TYR:HD2	2.07	0.59
3:D:93:ILE:CD1	3:D:547:LEU:HD23	2.32	0.59
2:M:200:LEU:HD22	2:M:300:ASP:OD1	2.03	0.59
2:M:276:LYS:O	2:M:279:GLU:HG2	2.02	0.59
2:M:368:THR:HB	2:M:369:PRO:HD3	1.85	0.59
2:M:565:GLN:C	2:M:567:GLN:N	2.57	0.59
2:M:949:LYS:NZ	3:N:796:ARG:HH21	2.01	0.59
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:84:ILE:C	3:N:86:ARG:N	2.55	0.59
3:N:947:ILE:O	3:N:947:ILE:HG13	2.02	0.59
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.68	0.58
2:C:108:ILE:HD11	2:C:365:ASP:OD1	2.03	0.58
2:C:408:ARG:HH11	2:C:542:VAL:CG2	2.16	0.58
3:D:1209:LEU:HD23	3:D:1211:MET:SD	2.43	0.58
2:C:1091:GLU:CD	3:D:606:ILE:HG21	2.24	0.58
3:D:19:ARG:NE	3:D:94:GLU:OE2	2.34	0.58
4:E:82:GLU:N	4:E:82:GLU:CD	2.45	0.58
5:F:139:ALA:HB1	5:F:152:ASP:HB3	1.85	0.58
5:F:261:PRO:O	5:F:265:VAL:HG23	2.02	0.58
5:F:355:GLU:O	5:F:358:LEU:HB3	2.03	0.58
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.27	0.58
2:M:404:LEU:O	2:M:404:LEU:HG	2.02	0.58
2:M:703:ILE:HG12	2:M:830:LYS:HG2	1.84	0.58
2:M:432:ARG:HH22	3:N:1047:LYS:CG	2.15	0.58
2:M:432:ARG:HD3	3:N:1048:PRO:HG2	1.84	0.58
3:N:188:GLY:HA2	3:N:210:ARG:HH11	1.67	0.58
3:N:646:LYS:HG2	3:N:721:VAL:O	2.02	0.58
2:M:1039:ALA:CB	3:N:713:ILE:HD12	2.32	0.58
3:N:702:LEU:HD12	3:N:747:VAL:HB	1.84	0.58
5:P:247:ILE:O	5:P:250:ALA:HB3	2.03	0.58
2:C:1005:MET:CE	3:D:645:PRO:HG2	2.33	0.58
2:C:575:GLN:O	2:C:576:ALA:C	2.40	0.58
2:C:572:ILE:CD1	2:C:701:THR:HB	2.33	0.58
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.33	0.58
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.85	0.58
3:D:646:LYS:O	3:D:649:ALA:HB3	2.03	0.58
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.37	0.58
1:L:47:SER:HB3	1:L:217:ILE:HD13	1.85	0.58
3:N:1058:ARG:HH11	3:N:1058:ARG:CG	2.16	0.58
3:N:1273:VAL:HG21	3:N:1305:LEU:HD21	1.85	0.58
2:M:1102:LEU:O	3:N:4:GLU:O	2.20	0.58
3:N:845:ASN:ND2	3:N:846:PRO:HD2	2.18	0.58
1:A:62:LEU:HD22	2:C:745:ILE:HG21	1.86	0.58
1:A:99:LEU:N	1:A:99:LEU:HD12	2.18	0.58
2:C:722:ILE:HD11	2:C:823:VAL:HG21	1.85	0.58
2:C:89:THR:HG23	2:C:129:ILE:HA	1.84	0.58
3:D:119:SER:O	3:D:121:THR:N	2.35	0.58
3:D:530:VAL:HB	3:D:534:ARG:CB	2.33	0.58
3:D:820:GLU:HG2	3:D:825:ALA:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:101:ILE:HG22	2:C:102:HIS:N	2.17	0.58
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.67	0.58
3:D:704:ARG:HH11	3:D:738:ALA:HB2	1.68	0.58
4:E:51:LEU:HG	4:E:52:GLU:H	1.67	0.58
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.86	0.58
3:N:1292:VAL:HG11	3:N:1325:LEU:HD23	1.85	0.58
3:N:126:VAL:HG13	3:N:132:TYR:CB	2.30	0.58
3:N:1479:ASP:HA	3:N:1482:ARG:HB2	1.86	0.58
3:N:978:TYR:HE1	3:N:985:ASP:HA	1.68	0.58
5:P:196:VAL:HG22	5:P:213:ILE:HD11	1.83	0.58
2:C:1104:GLU:OE1	2:C:1104:GLU:N	2.36	0.58
2:C:122:THR:HG22	2:C:124:ASP:H	1.68	0.58
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.86	0.58
3:D:1304:LYS:CD	3:D:1304:LYS:H	2.17	0.58
3:D:860:LEU:HB2	3:D:861:GLN:HE21	1.69	0.58
3:D:911:LEU:C	3:D:913:ASP:N	2.53	0.58
1:L:132:LEU:HD21	1:L:138:LEU:CB	2.34	0.58
3:N:233:LYS:HD2	3:N:237:LYS:HZ3	1.68	0.58
3:N:792:ILE:HG23	3:N:793:THR:CG2	2.32	0.58
5:P:376:ILE:HG22	5:P:377:ASP:N	2.18	0.58
1:A:175:ARG:O	1:A:176:ARG:HG3	2.03	0.58
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.86	0.58
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.04	0.58
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.15	0.58
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	1.85	0.58
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.85	0.58
3:D:223:LEU:HA	3:D:365:ASP:HB2	1.86	0.58
3:D:26:VAL:CG1	3:D:44:LEU:HD23	2.24	0.58
3:D:669:ASN:O	3:D:672:ALA:HB3	2.04	0.58
3:D:710:ARG:HG3	3:D:711:LEU:N	2.19	0.58
5:F:358:LEU:HD11	5:F:370:LYS:CD	2.34	0.58
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.85	0.58
2:M:47:ALA:HB1	2:M:345:ARG:HB2	1.84	0.58
2:M:751:PRO:HA	2:M:792:VAL:HB	1.85	0.58
3:N:1088:THR:O	3:N:1089:ALA:C	2.41	0.58
3:N:1219:GLU:HG2	3:N:1221:VAL:CG2	2.31	0.58
3:N:1495:ILE:CD1	4:O:88:GLU:HG3	2.34	0.58
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.34	0.58
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.03	0.58
5:P:243:ILE:O	5:P:247:ILE:HG13	2.03	0.58
2:C:172:ILE:HA	2:C:185:LYS:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:605:LYS:HD3	2:C:610:ARG:CZ	2.33	0.58
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.38	0.58
3:D:502:PHE:CD2	3:D:509:PRO:HB3	2.39	0.58
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.86	0.58
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.19	0.58
1:K:189:ARG:HH11	1:L:155:LYS:HZ1	1.52	0.58
2:M:1032:PHE:CZ	2:M:1052:MET:HG2	2.38	0.58
2:M:124:ASP:HB2	2:M:407:LYS:HZ2	1.68	0.58
2:M:288:ARG:CZ	2:M:288:ARG:HA	2.33	0.58
2:M:909:ALA:HA	2:M:913:GLU:OE1	2.03	0.58
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.38	0.58
3:N:1215:VAL:HG22	3:N:1216:SER:N	2.19	0.58
3:N:137:PRO:CB	3:N:138:LYS:HD2	2.34	0.58
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.85	0.58
3:N:807:ALA:CB	3:N:833:GLU:HB2	2.33	0.58
5:P:343:ASP:O	5:P:346:THR:HB	2.04	0.58
1:A:51:THR:CG2	1:A:146:ARG:HA	2.34	0.58
2:C:286:SER:HB2	2:C:299:LYS:NZ	2.19	0.58
2:C:749:VAL:HG23	2:C:749:VAL:O	2.03	0.58
3:D:1031:ASN:HD21	3:D:1033:GLN:HB3	1.69	0.58
3:D:1231:GLU:HB3	3:D:1232:PRO:CD	2.31	0.58
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.85	0.58
3:D:65:ARG:HG3	3:D:66:GLN:H	1.67	0.58
1:K:194:LYS:O	1:K:196:THR:HG22	2.02	0.58
1:K:50:GLY:O	1:K:146:ARG:HG2	2.02	0.58
1:K:225:PHE:HE2	1:L:211:LEU:HD11	1.68	0.58
2:M:722:ILE:O	2:M:722:ILE:HG12	2.04	0.58
2:M:841:ASN:OD1	2:M:843:HIS:HB2	2.04	0.58
3:N:601:ARG:HH22	3:N:611:GLN:N	2.02	0.58
1:B:115:LEU:O	1:B:115:LEU:HD12	2.04	0.58
2:C:1010:THR:HG22	2:C:1011:GLY:H	1.66	0.58
2:C:517:ARG:NH2	2:C:524:VAL:HG23	2.19	0.58
3:D:1087:ARG:CZ	3:D:1236:LEU:O	2.52	0.58
1:K:39:PRO:HA	1:L:35:THR:HG23	1.86	0.58
1:K:50:GLY:HA3	1:K:171:PHE:O	2.04	0.58
2:M:173:ASP:HB2	2:M:185:LYS:HE3	1.86	0.58
2:M:599:GLU:HA	2:M:651:LYS:CG	2.33	0.58
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.84	0.58
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.85	0.58
3:N:1383:ASP:N	3:N:1384:PRO:HD3	2.19	0.58
3:N:625:TYR:CE2	3:N:751:LEU:HD21	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:367:MET:O	5:P:371:LEU:HG	2.04	0.58
2:C:162:ILE:HD12	2:C:172:ILE:HD13	1.86	0.58
2:C:302:VAL:O	2:C:305:PRO:HD2	2.03	0.58
2:C:869:VAL:O	2:C:870:ILE:HG13	2.03	0.58
2:C:91:GLN:CD	2:C:117:HIS:HB3	2.24	0.58
3:D:906:GLN:OE1	3:D:906:GLN:HA	2.04	0.58
3:D:947:ILE:C	3:D:947:ILE:HD12	2.23	0.58
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.85	0.58
2:M:344:PHE:HD2	2:M:382:ILE:HD11	1.68	0.58
2:M:749:VAL:HG11	2:M:755:LEU:HD23	1.86	0.58
2:M:846:LYS:NZ	3:N:741:ASP:O	2.37	0.58
3:N:553:ARG:CD	5:P:214:GLN:HB3	2.33	0.58
2:M:1047:HIS:CD2	3:N:754:PHE:CD2	2.91	0.58
5:P:398:ARG:HD3	5:P:399:GLN:H	1.67	0.58
5:P:406:ARG:CA	5:P:409:LYS:HE2	2.32	0.58
2:C:494:TYR:HB3	2:C:530:GLU:OE2	2.04	0.57
2:C:802:ARG:HH12	2:C:804:VAL:HG22	1.68	0.57
3:D:231:VAL:HA	3:D:378:ILE:HG13	1.86	0.57
5:F:358:LEU:HD11	5:F:370:LYS:HD2	1.85	0.57
5:F:416:ARG:NH2	5:F:419:ARG:HD3	2.18	0.57
2:M:449:ILE:HG23	2:M:449:ILE:O	2.03	0.57
3:N:1220:ALA:O	3:N:1223:ILE:HG22	2.03	0.57
3:N:1260:ILE:C	3:N:1262:LEU:N	2.57	0.57
3:N:166:GLN:NE2	3:N:167:GLU:H	2.02	0.57
3:N:170:PRO:HD2	3:N:391:ALA:O	2.04	0.57
3:N:185:VAL:HA	3:N:189:GLN:HG3	1.86	0.57
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.86	0.57
5:P:257:THR:HB	5:P:314:PRO:HG2	1.86	0.57
5:P:273:ARG:O	5:P:276:ARG:HB2	2.04	0.57
2:C:1094:ALA:C	3:D:603:LEU:HD13	2.25	0.57
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.35	0.57
2:C:192:PRO:HB2	2:C:195:LEU:CB	2.35	0.57
2:C:328:LEU:HD13	2:C:433:THR:CG2	2.34	0.57
2:C:799:ILE:N	2:C:799:ILE:HD13	2.11	0.57
3:D:178:LEU:HD23	3:D:178:LEU:O	2.03	0.57
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.69	0.57
5:F:94:LEU:HD13	5:F:95:THR:N	2.19	0.57
2:M:705:ILE:HG12	2:M:828:ALA:HB2	1.86	0.57
3:N:1267:ARG:NE	3:N:1271:LYS:HG3	2.19	0.57
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.04	0.57
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:365:GLU:O	5:P:368:VAL:HB	2.04	0.57
1:A:152:PRO:HD2	1:A:155:LYS:CD	2.32	0.57
1:A:211:LEU:HG	1:A:211:LEU:O	2.03	0.57
2:C:250:ARG:NH2	2:C:253:ALA:HB1	2.20	0.57
3:D:964:LEU:HD22	3:D:1058:ARG:HG3	1.85	0.57
2:C:1049:LEU:HD23	3:D:1472:ILE:HD11	1.85	0.57
3:D:527:MET:HE1	3:D:535:PHE:HB3	1.86	0.57
4:E:70:THR:O	4:E:72:ARG:N	2.37	0.57
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.85	0.57
2:M:1097:LEU:H	2:M:1097:LEU:CD1	2.16	0.57
2:M:737:LEU:HD11	2:M:754:ILE:HG21	1.85	0.57
2:M:910:LYS:O	2:M:913:GLU:N	2.37	0.57
3:N:224:ARG:HH12	3:N:229:ALA:HB2	1.69	0.57
3:N:826:PRO:HD2	3:N:829:VAL:CG1	2.34	0.57
1:A:7:LYS:NZ	1:A:188:GLN:NE2	2.52	0.57
2:C:193:LEU:HG	2:C:307:LEU:HD22	1.86	0.57
2:C:3:ILE:CD1	2:C:900:ARG:HG3	2.33	0.57
3:D:1065:LEU:HD11	3:D:1069:GLU:HB3	1.87	0.57
3:D:1346:ARG:HH22	3:D:1349:VAL:HG11	1.67	0.57
5:F:98:GLU:HA	5:F:101:GLU:HB2	1.86	0.57
2:M:583:LEU:O	2:M:587:VAL:HG23	2.03	0.57
2:M:700:TYR:CG	2:M:833:LEU:HD22	2.40	0.57
3:N:1166:LEU:CD2	3:N:1166:LEU:H	2.17	0.57
3:N:896:ALA:O	3:N:899:LEU:HD13	2.04	0.57
3:N:785:ILE:HD11	3:N:939:PHE:CE2	2.39	0.57
4:O:23:VAL:HG13	4:O:64:ALA:HB3	1.86	0.57
5:P:287:THR:HG23	5:P:290:GLU:H	1.70	0.57
5:P:376:ILE:CG2	5:P:377:ASP:H	2.13	0.57
5:P:77:THR:O	5:P:80:PRO:HD2	2.03	0.57
2:C:1081:VAL:HB	2:C:1086:ARG:HH21	1.70	0.57
2:C:30:LEU:HD12	2:C:30:LEU:O	2.04	0.57
2:C:334:ARG:HB3	2:C:338:GLU:CD	2.24	0.57
2:C:593:ALA:HB1	2:C:659:PRO:HD2	1.87	0.57
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.85	0.57
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.87	0.57
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.34	0.57
3:D:699:VAL:H	3:D:756:GLN:NE2	1.95	0.57
3:D:699:VAL:N	3:D:756:GLN:HE22	1.94	0.57
3:D:806:PHE:O	3:D:808:THR:N	2.37	0.57
4:E:25:LYS:HA	4:E:28:GLN:OE1	2.04	0.57
5:F:291:ILE:HD13	5:F:304:VAL:HG11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:388:HIS:NE2	5:F:94:LEU:HG	2.20	0.57
2:M:683:ASN:CA	2:M:687:ALA:HB3	2.33	0.57
3:N:1466:VAL:HG12	3:N:1467:ILE:N	2.18	0.57
1:A:227:ASN:H	1:A:227:ASN:HD22	1.50	0.57
1:A:30:ARG:HG3	2:C:938:LYS:HZ1	1.69	0.57
1:B:74:ASP:O	1:B:78:ILE:HG13	2.05	0.57
2:C:140:ILE:HG21	2:C:331:ARG:NH1	2.19	0.57
3:D:1001:GLU:C	3:D:1001:GLU:OE2	2.42	0.57
3:D:1036:ARG:HH21	3:D:1037:GLN:HG2	1.69	0.57
3:D:387:LEU:HD13	5:F:97:GLU:HB2	1.87	0.57
2:C:846:LYS:NZ	3:D:741:ASP:O	2.38	0.57
3:D:740:PHE:C	3:D:742:GLY:H	2.07	0.57
5:F:105:LYS:O	5:F:180:GLY:HA2	2.05	0.57
2:M:470:PRO:HG3	2:M:485:TYR:OH	2.05	0.57
2:M:709:GLU:OE2	2:M:824:ARG:NH1	2.38	0.57
3:N:414:ARG:HB2	3:N:418:GLY:O	2.05	0.57
3:N:517:VAL:HG12	3:N:518:PRO:O	2.04	0.57
3:N:604:THR:C	3:N:606:ILE:N	2.57	0.57
3:N:812:ALA:O	3:N:816:HIS:HB2	2.05	0.57
1:A:35:THR:HG22	1:A:35:THR:O	2.04	0.57
2:C:1046:ALA:HB1	3:D:1472:ILE:HB	1.86	0.57
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.86	0.57
2:C:748:GLU:HA	2:C:799:ILE:HA	1.85	0.57
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.87	0.57
2:C:548:PRO:HG2	2:C:842:ARG:NH2	2.20	0.57
2:C:979:THR:O	2:C:981:GLU:N	2.34	0.57
3:D:1008:PHE:O	3:D:1009:LYS:C	2.43	0.57
3:D:1071:PHE:O	3:D:1071:PHE:HD1	1.87	0.57
3:D:1201:CYS:SG	3:D:1204:CYS:HB2	2.44	0.57
3:D:1341:PRO:C	3:D:1343:ALA:H	2.08	0.57
3:D:530:VAL:N	3:D:534:ARG:O	2.35	0.57
3:D:833:GLU:HG2	3:D:834:THR:HG23	1.87	0.57
2:M:302:VAL:C	2:M:305:PRO:HD2	2.24	0.57
2:M:498:GLN:CG	2:M:516:ARG:HE	2.18	0.57
2:M:893:ALA:HB2	2:M:918:LEU:HD12	1.87	0.57
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.18	0.57
3:N:131:LYS:HD2	5:P:83:GLN:HE22	1.69	0.57
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.05	0.57
3:N:423:ASP:H	5:P:178:ARG:NH1	2.03	0.57
1:A:210:ALA:O	1:A:212:ASN:N	2.38	0.57
1:A:44:LEU:HA	1:A:48:ILE:CD1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:ARG:HG3	1:B:189:ARG:NH1	2.20	0.57
3:D:714:GLN:HB3	3:D:765:SER:HB3	1.86	0.57
5:F:241:TRP:O	5:F:245:GLN:OE1	2.21	0.57
2:M:184:MET:HE1	2:M:186:VAL:HG22	1.87	0.57
3:N:1286:THR:HG22	3:N:1287:GLU:N	2.19	0.57
3:N:135:LEU:HG	3:N:153:LEU:HD21	1.86	0.57
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.04	0.57
2:C:1005:MET:SD	3:D:648:MET:HB2	2.44	0.57
2:C:1045:ALA:HB2	3:D:758:GLU:OE2	2.05	0.57
2:C:395:LYS:O	2:C:397:GLU:HG2	2.04	0.57
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.20	0.57
3:D:771:SER:HB2	3:D:778:LEU:HD22	1.86	0.57
5:F:393:THR:HG22	5:F:394:ARG:H	1.70	0.57
2:M:1063:ARG:O	2:M:1066:ALA:N	2.36	0.57
2:M:208:ALA:CB	2:M:218:VAL:HG11	2.35	0.57
2:M:211:LEU:HD11	2:M:308:ARG:HB2	1.86	0.57
2:M:355:VAL:HG23	2:M:372:LEU:HB3	1.87	0.57
3:N:1271:LYS:HZ1	3:N:1273:VAL:HA	1.70	0.57
3:N:1314:LYS:CD	3:N:1314:LYS:H	2.18	0.57
3:N:96:ALA:N	3:N:551:ASN:HD21	2.03	0.57
2:M:1047:HIS:H	3:N:758:GLU:CD	2.06	0.57
1:L:154:GLU:OE1	3:N:840:LYS:HG3	2.05	0.57
5:P:138:SER:C	5:P:140:ARG:H	2.06	0.57
5:P:88:ILE:O	5:P:92:PRO:HG3	2.04	0.57
2:C:549:PHE:HE2	2:C:887:GLU:CA	2.18	0.57
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.86	0.57
3:D:1267:ARG:NH2	3:D:1271:LYS:HE3	2.19	0.57
3:D:72:VAL:HG22	3:D:73:CYS:N	2.19	0.57
1:K:24:VAL:HG22	1:K:196:THR:HB	1.87	0.57
2:M:184:MET:HE1	2:M:186:VAL:N	2.19	0.57
2:M:269:LEU:HA	2:M:288:ARG:NE	2.14	0.57
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.18	0.57
3:N:1113:GLY:O	3:N:1114:THR:C	2.44	0.57
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.86	0.57
3:N:37:LEU:CD1	3:N:529:GLN:HE21	2.15	0.57
3:N:486:ARG:CZ	3:N:489:ARG:HD3	2.35	0.57
3:N:579:ASP:O	3:N:583:ASP:N	2.34	0.57
2:C:469:THR:HG23	2:C:471:TYR:HE1	1.69	0.56
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.87	0.56
3:D:1258:ARG:C	3:D:1260:ILE:N	2.56	0.56
3:D:498:VAL:HG13	3:D:499:VAL:N	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:564:GLU:O	3:D:566:ILE:N	2.37	0.56
3:D:790:TYR:O	3:D:791:TYR:C	2.42	0.56
1:L:142:VAL:HG23	1:L:142:VAL:O	2.05	0.56
2:M:490:GLU:O	2:M:493:ARG:HB2	2.05	0.56
2:M:640:ARG:HB2	2:M:642:ARG:HH12	1.69	0.56
3:N:86:ARG:O	3:N:522:PRO:HD2	2.05	0.56
3:N:600:LEU:CD2	3:N:600:LEU:H	2.12	0.56
5:P:101:GLU:HG2	5:P:102:LEU:N	2.20	0.56
5:P:171:LYS:O	5:P:175:HIS:HD2	1.88	0.56
5:P:203:THR:HG22	5:P:204:GLY:N	2.20	0.56
5:P:225:GLU:HG2	5:P:226:LYS:NZ	2.20	0.56
5:P:286:PRO:HB3	5:P:290:GLU:HB3	1.86	0.56
1:B:108:GLU:O	1:B:110:LYS:HG3	2.05	0.56
1:B:197:LEU:O	1:B:197:LEU:HD23	2.05	0.56
2:C:337:GLY:O	2:C:340:MET:N	2.37	0.56
2:C:433:THR:O	2:C:435:TYR:N	2.36	0.56
2:C:55:GLU:HA	2:C:64:LEU:O	2.05	0.56
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.88	0.56
3:D:1031:ASN:HB3	3:D:1034:GLN:NE2	2.20	0.56
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.69	0.56
3:D:36:THR:O	3:D:38:LYS:N	2.38	0.56
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.20	0.56
1:K:39:PRO:O	1:K:43:ILE:HG12	2.04	0.56
1:L:58:ILE:HG22	1:L:59:GLU:HG2	1.87	0.56
2:M:680:ASP:C	2:M:682:TYR:H	2.08	0.56
2:M:742:VAL:HG12	2:M:743:VAL:N	2.20	0.56
3:N:233:LYS:NZ	3:N:233:LYS:HB3	2.20	0.56
3:N:583:ASP:OD1	3:N:604:THR:HB	2.05	0.56
3:N:55:ASP:CB	3:N:82:LYS:HE2	2.32	0.56
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.17	0.56
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.85	0.56
1:B:219:ARG:NH2	1:B:220:GLU:HB2	2.18	0.56
2:C:861:LEU:O	2:C:863:ASP:O	2.23	0.56
1:A:30:ARG:HA	2:C:938:LYS:NZ	2.20	0.56
3:D:1376:MET:C	3:D:1378:TYR:H	2.05	0.56
3:D:218:LYS:HD3	3:D:370:ALA:HB1	1.87	0.56
3:D:704:ARG:HE	3:D:705:ALA:HB3	1.70	0.56
5:F:95:THR:HG23	5:F:234:LYS:NZ	2.21	0.56
2:M:1047:HIS:CE1	3:N:754:PHE:CD1	2.94	0.56
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.87	0.56
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.34	0.56
3:N:30:GLU:HG3	3:N:41:ARG:CD	2.35	0.56
3:N:970:LYS:HD2	3:N:995:LEU:HD13	1.86	0.56
3:N:455:ARG:HH22	5:P:140:ARG:HB3	1.69	0.56
5:P:234:LYS:HE3	5:P:236:SER:CB	2.35	0.56
2:C:1081:VAL:HB	2:C:1086:ARG:NH2	2.21	0.56
2:C:374:ASN:O	2:C:377:PRO:HD2	2.05	0.56
2:C:384:GLU:O	2:C:384:GLU:HG2	2.05	0.56
2:C:126:SER:HB3	2:C:395:LYS:NZ	2.20	0.56
2:C:691:SER:CB	2:C:868:ASP:HA	2.34	0.56
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.35	0.56
3:D:221:ALA:H	3:D:367:ILE:HG22	1.69	0.56
3:D:34:TYR:HE2	5:F:260:ILE:HG13	1.70	0.56
3:D:650:LEU:HD12	3:D:657:LEU:HD22	1.88	0.56
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.40	0.56
3:D:860:LEU:HB2	3:D:861:GLN:NE2	2.19	0.56
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.21	0.56
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.88	0.56
3:D:566:ILE:HG13	5:F:192:LEU:HD11	1.87	0.56
5:F:321:ILE:HD13	5:F:322:GLY:H	1.69	0.56
2:M:434:HIS:O	2:M:435:TYR:HB2	2.05	0.56
2:M:575:GLN:NE2	2:M:900:ARG:HH22	2.03	0.56
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.87	0.56
3:N:436:GLU:HB2	3:N:445:ARG:CB	2.34	0.56
3:N:785:ILE:HG13	3:N:939:PHE:CE2	2.40	0.56
3:N:82:LYS:C	3:N:84:ILE:H	2.09	0.56
3:N:96:ALA:N	3:N:551:ASN:ND2	2.52	0.56
5:P:94:LEU:HD13	5:P:95:THR:N	2.20	0.56
1:A:88:ARG:HH12	1:A:90:LEU:HD21	1.70	0.56
1:B:112:ARG:NH1	1:B:112:ARG:HB3	2.20	0.56
2:C:200:LEU:CD2	2:C:300:ASP:HB3	2.31	0.56
2:C:804:VAL:HG23	2:C:824:ARG:HB2	1.87	0.56
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.35	0.56
3:D:1131:SER:O	3:D:1132:LEU:C	2.44	0.56
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.06	0.56
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.21	0.56
3:D:117:ASP:OD1	3:D:495:ARG:NE	2.39	0.56
3:D:770:LEU:HD23	3:D:777:PRO:CA	2.27	0.56
5:F:188:ILE:HD13	5:F:221:ILE:HG12	1.87	0.56
5:F:333:ILE:HD12	5:F:333:ILE:H	1.70	0.56
3:D:572:ARG:HH21	5:F:83:GLN:NE2	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:13:VAL:CG1	1:K:14:ARG:N	2.67	0.56
1:L:156:HIS:CD2	1:L:157:GLY:N	2.69	0.56
2:M:1044:GLY:N	3:N:762:GLN:HE22	2.02	0.56
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.40	0.56
2:M:680:ASP:O	2:M:682:TYR:N	2.39	0.56
2:M:960:GLU:O	2:M:962:GLN:N	2.37	0.56
3:N:1087:ARG:HD2	3:N:1087:ARG:N	2.21	0.56
3:N:127:LEU:HD12	3:N:127:LEU:O	2.04	0.56
3:N:194:GLY:N	3:N:206:ARG:HA	2.17	0.56
3:N:231:VAL:O	3:N:378:ILE:HD13	2.06	0.56
3:N:426:LYS:HA	3:N:434:ARG:CD	2.35	0.56
3:N:625:TYR:OH	3:N:655:PRO:HG2	2.05	0.56
3:N:930:LEU:O	3:N:933:ALA:HB3	2.05	0.56
5:P:226:LYS:HG3	5:P:242:TRP:CZ2	2.40	0.56
2:C:24:GLU:O	2:C:27:ARG:HB3	2.06	0.56
2:C:842:ARG:NH2	2:C:887:GLU:OE1	2.37	0.56
2:C:923:GLU:O	2:C:927:GLY:N	2.38	0.56
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.40	0.56
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.05	0.56
3:D:1161:GLU:O	3:D:1164:ARG:HB2	2.04	0.56
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.56
3:D:914:LEU:O	3:D:914:LEU:HD23	2.06	0.56
3:D:785:ILE:HG23	3:D:938:GLY:HA3	1.86	0.56
3:D:984:THR:HG23	3:D:987:GLU:H	1.69	0.56
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.87	0.56
2:M:674:VAL:HG11	2:M:992:MET:HE1	1.87	0.56
3:N:1027:GLY:O	3:N:1028:ALA:O	2.22	0.56
3:N:1115:THR:CB	3:N:1151:ARG:HH22	2.19	0.56
3:N:1302:GLU:O	3:N:1303:TYR:CD2	2.59	0.56
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.69	0.56
3:N:135:LEU:HD12	3:N:148:GLU:HB2	1.87	0.56
3:N:219:GLU:O	3:N:370:ALA:HB2	2.04	0.56
3:N:654:LYS:HB2	3:N:655:PRO:HD3	1.88	0.56
3:N:893:GLU:O	3:N:896:ALA:HB3	2.04	0.56
3:N:917:GLN:O	3:N:918:ALA:C	2.44	0.56
4:O:80:VAL:HG13	4:O:81:PRO:HD2	1.88	0.56
1:A:142:VAL:O	1:A:142:VAL:HG23	2.04	0.56
2:C:158:TYR:CE1	2:C:314:THR:HA	2.39	0.56
2:C:480:THR:HG22	2:C:481:ASP:H	1.70	0.56
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.35	0.56
2:C:854:PRO:HB2	2:C:856:GLU:OE2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:837:ASP:OD1	2:C:996:LYS:HG3	2.04	0.56
2:C:435:TYR:HD1	3:D:1071:PHE:CD2	2.23	0.56
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.35	0.56
3:D:195:VAL:HB	3:D:205:TYR:HB2	1.86	0.56
5:F:244:ARG:HH11	5:F:244:ARG:HG3	1.70	0.56
2:M:102:HIS:NE2	2:M:365:ASP:OD2	2.39	0.56
2:M:551:GLU:CD	2:M:551:GLU:N	2.53	0.56
3:N:1148:VAL:HG12	3:N:1189:ARG:HG3	1.87	0.56
3:N:1459:LEU:HD11	3:N:1468:LEU:CD1	2.35	0.56
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.69	0.56
1:B:89:PHE:HZ	1:B:144:VAL:HG12	1.70	0.56
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.21	0.56
2:C:195:LEU:O	2:C:199:VAL:HG23	2.06	0.56
2:C:148:PHE:HB3	2:C:313:LEU:CD2	2.35	0.56
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.86	0.56
2:C:916:GLU:OE1	2:C:917:LEU:N	2.38	0.56
2:C:967:PHE:CD1	2:C:972:VAL:HG12	2.41	0.56
3:D:116:LEU:O	3:D:118:LEU:N	2.31	0.56
3:D:1396:GLU:O	3:D:1399:ASP:N	2.39	0.56
3:D:416:ALA:H	3:D:417:PRO:HD2	1.70	0.56
3:D:525:ARG:N	3:D:526:PRO:CD	2.69	0.56
3:D:581:LEU:O	3:D:603:LEU:HG	2.05	0.56
3:D:694:VAL:O	3:D:695:ILE:HD12	2.05	0.56
3:D:915:VAL:O	3:D:916:TYR:C	2.42	0.56
3:D:919:PHE:C	3:D:919:PHE:CD2	2.79	0.56
1:K:215:VAL:HG23	1:K:216:GLU:H	1.69	0.56
1:L:221:HIS:HA	1:L:224:TYR:CE2	2.41	0.56
2:M:207:LEU:HD13	2:M:221:LEU:HD21	1.87	0.56
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.88	0.56
3:N:1141:GLU:HB3	3:N:1168:MET:HE1	1.87	0.56
3:N:177:ALA:HB1	3:N:199:LEU:HD13	1.88	0.56
3:N:187:LYS:NZ	3:N:213:VAL:HG12	2.19	0.56
1:A:91:ASN:H	1:A:94:LEU:HD12	1.70	0.56
2:C:106:GLY:O	2:C:107:LEU:HD23	2.05	0.56
2:C:54:ILE:HG23	2:C:54:ILE:O	2.06	0.56
2:C:776:SER:OG	2:C:780:GLU:HB3	2.05	0.56
2:C:854:PRO:CB	2:C:856:GLU:OE2	2.54	0.56
3:D:1046:GLN:CA	3:D:1052:THR:HA	2.32	0.56
3:D:1146:GLY:O	3:D:1207:TYR:HB2	2.06	0.56
3:D:424:GLY:N	3:D:437:VAL:HG23	2.21	0.56
3:D:951:ILE:O	3:D:951:ILE:HD13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:535:SER:OG	2:M:536:PRO:HD2	2.05	0.56
2:M:695:LEU:HD21	2:M:833:LEU:O	2.06	0.56
2:M:89:THR:HG23	2:M:129:ILE:HA	1.88	0.56
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.41	0.56
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.86	0.56
5:P:138:SER:H	5:P:140:ARG:CZ	2.18	0.56
3:N:556:LYS:HZ1	5:P:218:GLN:HE22	1.53	0.56
5:P:222:ARG:O	5:P:225:GLU:HB3	2.06	0.56
1:B:219:ARG:HH21	1:B:220:GLU:CB	2.15	0.56
2:C:204:GLN:CD	2:C:222:MET:HA	2.26	0.56
2:C:333:ILE:CG1	2:C:467:ILE:HD11	2.36	0.56
2:C:595:LEU:HD21	2:C:623:TYR:HB3	1.88	0.56
2:C:654:LEU:HG	2:C:654:LEU:O	2.05	0.56
3:D:368:VAL:HG12	3:D:369:ALA:H	1.70	0.56
3:D:387:LEU:HD23	3:D:388:HIS:H	1.70	0.56
3:D:644:LEU:C	3:D:721:VAL:HG22	2.26	0.56
3:D:764:LEU:HB3	3:D:767:HIS:CD2	2.31	0.56
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.41	0.56
3:D:984:THR:HG22	3:D:987:GLU:CG	2.36	0.56
5:F:151:LEU:HD12	5:F:154:LYS:HB3	1.88	0.56
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.41	0.56
2:M:892:LEU:O	2:M:895:TYR:HB3	2.06	0.56
2:M:432:ARG:CD	3:N:1048:PRO:HG2	2.36	0.56
3:N:1141:GLU:HB3	3:N:1168:MET:CE	2.36	0.56
3:N:1335:LEU:HD22	3:N:1344:VAL:HG22	1.87	0.56
3:N:560:GLN:HA	3:N:560:GLN:NE2	2.21	0.56
3:N:619:LEU:O	3:N:619:LEU:HD23	2.06	0.56
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.87	0.56
3:D:568:ARG:HA	3:D:571:LYS:HZ2	1.67	0.56
3:D:601:ARG:HH12	3:D:611:GLN:HB2	1.69	0.56
4:E:61:GLU:C	4:E:61:GLU:CD	2.65	0.56
3:N:1086:LEU:HD23	3:N:1238:MET:SD	2.45	0.56
3:N:1115:THR:HB	3:N:1151:ARG:HH22	1.69	0.56
3:N:1236:LEU:HD11	3:N:1356:TYR:CE2	2.41	0.56
3:N:141:ILE:HD11	3:N:450:TYR:H	1.69	0.56
3:N:1474:ALA:O	3:N:1475:GLY:C	2.44	0.56
3:N:795:VAL:HG23	3:N:879:ARG:NH1	2.20	0.56
3:N:887:ALA:HB1	3:N:893:GLU:CG	2.21	0.56
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.88	0.56
1:A:170:VAL:CG1	2:C:696:LYS:HD3	2.36	0.55
1:B:151:VAL:HB	1:B:169:ALA:CB	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:139:GLN:O	2:C:333:ILE:HA	2.06	0.55
5:F:141:VAL:O	5:F:145:PRO:HD2	2.06	0.55
5:F:79:ASP:O	5:F:83:GLN:N	2.35	0.55
5:F:87:GLU:HA	5:F:90:GLN:NE2	2.21	0.55
2:M:564:MET:O	2:M:567:GLN:HB2	2.05	0.55
2:M:640:ARG:HB3	2:M:640:ARG:NH1	2.20	0.55
2:M:695:LEU:HD12	2:M:852:ILE:HG21	1.87	0.55
3:N:399:ARG:O	3:N:443:VAL:HA	2.06	0.55
3:N:485:SER:O	3:N:487:ALA:N	2.40	0.55
3:N:936:TYR:O	3:N:937:TYR:C	2.42	0.55
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.36	0.55
5:P:214:GLN:NE2	5:P:214:GLN:HA	2.21	0.55
5:P:94:LEU:HB3	5:P:98:GLU:H	1.72	0.55
2:C:468:ARG:HD3	2:C:485:TYR:O	2.05	0.55
1:A:42:ARG:HH12	2:C:978:ARG:HA	1.71	0.55
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.88	0.55
3:D:112:ILE:HD11	3:D:124:GLU:CG	2.36	0.55
3:D:645:PRO:O	3:D:648:MET:N	2.39	0.55
2:M:1007:ALA:HB1	3:N:651:GLU:HB3	1.88	0.55
2:M:1012:PRO:O	2:M:1013:TYR:CG	2.59	0.55
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.89	0.55
2:M:108:ILE:HD11	2:M:365:ASP:OD2	2.06	0.55
3:N:1372:VAL:C	3:N:1375:MET:HG3	2.25	0.55
3:N:1377:LYS:O	3:N:1395:LEU:HB2	2.06	0.55
3:N:18:ILE:HG21	3:N:516:ALA:O	2.07	0.55
3:N:40:GLU:O	3:N:41:ARG:O	2.23	0.55
3:N:843:PHE:CD1	3:N:849:ALA:HA	2.42	0.55
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.09	0.55
5:P:282:LEU:C	5:P:284:ARG:H	2.10	0.55
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.71	0.55
1:A:26:GLU:HB2	1:A:27:PRO:HA	1.89	0.55
2:C:1019:GLN:HA	2:C:1057:SER:O	2.06	0.55
2:C:437:ARG:NH2	2:C:491:GLU:OE2	2.39	0.55
2:C:679:PHE:HE2	2:C:853:LEU:HD21	1.72	0.55
2:C:863:ASP:CG	2:C:864:GLY:N	2.58	0.55
3:D:1001:GLU:O	3:D:1004:THR:HB	2.06	0.55
3:D:1094:LEU:O	3:D:1096:ARG:N	2.38	0.55
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.22	0.55
3:D:112:ILE:O	3:D:116:LEU:HB2	2.06	0.55
3:D:902:LEU:HD23	3:D:902:LEU:H	1.71	0.55
2:M:268:ASP:O	2:M:288:ARG:HG2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:3:ILE:HD11	2:M:900:ARG:HB2	1.88	0.55
2:M:397:GLU:CG	2:M:632:ASN:H	2.20	0.55
2:M:738:ASP:CB	2:M:744:ARG:HB3	2.35	0.55
2:M:890:LEU:HD11	2:M:901:TYR:CE2	2.42	0.55
2:C:154:ARG:O	2:C:156:GLY:N	2.38	0.55
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.06	0.55
2:C:233:GLU:HA	2:C:236:ILE:HD12	1.88	0.55
2:C:338:GLU:HA	2:C:341:THR:CG2	2.36	0.55
2:C:923:GLU:O	2:C:927:GLY:HA3	2.06	0.55
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.86	0.55
3:D:709:HIS:O	3:D:712:GLY:N	2.37	0.55
3:D:841:TYR:HB3	3:D:843:PHE:CZ	2.42	0.55
5:F:96:LEU:O	5:F:100:VAL:HG23	2.06	0.55
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.42	0.55
2:M:673:LEU:HD13	2:M:895:TYR:CZ	2.42	0.55
3:N:1155:VAL:HG21	3:N:1174:LEU:HD21	1.87	0.55
3:N:1365:ASP:O	3:N:1366:LYS:C	2.45	0.55
3:N:1384:PRO:HB3	3:N:1387:SER:O	2.05	0.55
3:N:169:TYR:N	3:N:170:PRO:HD3	2.21	0.55
3:N:585:GLY:O	3:N:587:ARG:N	2.38	0.55
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.89	0.55
3:N:573:MET:SD	5:P:210:LEU:HB3	2.47	0.55
5:P:319:THR:HG22	5:P:320:PRO:HD2	1.88	0.55
2:C:102:HIS:C	2:C:104:ASP:H	2.10	0.55
2:C:252:LYS:HE2	2:C:296:GLY:HA3	1.89	0.55
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.22	0.55
2:C:694:LEU:CD2	2:C:697:ARG:HH21	2.11	0.55
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.70	0.55
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.88	0.55
3:D:388:HIS:HE2	5:F:94:LEU:HG	1.72	0.55
3:D:525:ARG:HA	3:D:538:SER:OG	2.07	0.55
3:D:628:ARG:O	3:D:629:SER:HB2	2.06	0.55
3:D:704:ARG:CD	3:D:705:ALA:H	2.19	0.55
5:F:369:LEU:CD2	5:F:373:LYS:HE2	2.37	0.55
1:L:184:THR:O	1:L:192:LEU:HB2	2.06	0.55
2:M:157:ARG:CZ	2:M:314:THR:HA	2.36	0.55
2:M:561:GLY:C	2:M:563:ASN:H	2.09	0.55
2:M:654:LEU:HD11	2:M:657:ASP:HA	1.87	0.55
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.05	0.55
3:N:376:GLU:H	3:N:376:GLU:CD	2.10	0.55
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.88	0.55
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.31	0.55
5:P:138:SER:C	5:P:140:ARG:N	2.60	0.55
5:P:367:MET:HG2	5:P:371:LEU:HG	1.88	0.55
2:C:1097:LEU:HD23	3:D:101:HIS:HE1	1.72	0.55
2:C:905:ILE:CG2	2:C:906:PHE:N	2.70	0.55
5:F:358:LEU:O	5:F:358:LEU:HD23	2.06	0.55
3:D:387:LEU:CD1	5:F:97:GLU:H	2.20	0.55
1:K:169:ALA:HB1	1:K:171:PHE:CE1	2.42	0.55
2:M:99:GLN:NE2	2:M:101:ILE:HD11	2.21	0.55
3:N:126:VAL:HG11	3:N:152:LEU:CD1	2.34	0.55
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.36	0.55
1:B:25:LEU:HD21	1:B:28:LEU:HD11	1.88	0.55
2:C:238:LEU:HA	2:C:241:LEU:HB2	1.88	0.55
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.41	0.55
3:D:1078:ARG:C	3:D:1080:GLY:H	2.09	0.55
1:K:63:HIS:CD2	1:K:66:SER:HG	2.24	0.55
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.87	0.55
2:M:458:TYR:CB	2:M:470:PRO:HG2	2.36	0.55
2:M:458:TYR:HB3	2:M:470:PRO:CG	2.35	0.55
3:N:1289:LYS:HG2	3:N:1306:PRO:HA	1.89	0.55
3:N:527:MET:HE3	3:N:537:THR:HB	1.87	0.55
3:N:701:LEU:HD23	3:N:713:ILE:CG2	2.36	0.55
3:N:936:TYR:O	3:N:938:GLY:N	2.39	0.55
5:P:163:LEU:HD13	5:P:174:LEU:CG	2.37	0.55
5:P:280:GLN:HG2	5:P:280:GLN:O	2.06	0.55
5:P:346:THR:HB	5:P:347:GLN:OE1	2.06	0.55
2:C:1012:PRO:O	2:C:1013:TYR:CD2	2.59	0.55
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.71	0.55
2:C:724:ARG:HG2	2:C:724:ARG:O	2.06	0.55
3:D:1147:ARG:CB	3:D:1188:VAL:HG21	2.37	0.55
3:D:1346:ARG:HA	3:D:1346:ARG:HH11	1.71	0.55
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.87	0.55
2:M:517:ARG:O	2:M:519:GLY:N	2.40	0.55
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.37	0.55
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	2.06	0.55
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.36	0.55
3:N:18:ILE:HD12	3:N:518:PRO:HG3	1.88	0.55
2:M:1005:MET:CE	3:N:648:MET:HB2	2.36	0.55
3:N:819:GLY:O	3:N:822:ALA:HB3	2.07	0.55
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1035:MET:HG2	2:C:1038:TRP:CZ3	2.42	0.55
2:C:1091:GLU:HA	3:D:520:LEU:HD13	1.89	0.55
2:C:472:ARG:HD2	2:C:480:THR:O	2.07	0.55
2:C:697:ARG:HB2	2:C:699:PHE:HD1	1.72	0.55
3:D:1159:ARG:HG2	3:D:1159:ARG:HH11	1.71	0.55
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.30	0.55
3:D:768:ASN:ND2	3:D:1210:SER:OG	2.40	0.55
5:F:194:LEU:C	5:F:194:LEU:HD13	2.28	0.55
2:M:1054:THR:CB	2:M:1079:PRO:HB3	2.37	0.55
3:N:1314:LYS:HZ2	3:N:1314:LYS:H	1.55	0.55
3:N:676:MET:O	3:N:676:MET:SD	2.65	0.55
3:N:690:ALA:O	3:N:694:VAL:HG23	2.07	0.55
3:N:740:PHE:CD1	3:N:740:PHE:N	2.74	0.55
3:N:702:LEU:HG	3:N:745:MET:HE2	1.88	0.55
3:N:804:LEU:O	3:N:831:GLY:HA2	2.06	0.55
3:N:795:VAL:HG23	3:N:879:ARG:HH12	1.72	0.55
3:N:918:ALA:HA	3:N:922:LEU:HD12	1.89	0.55
1:A:227:ASN:HD22	1:A:227:ASN:N	2.05	0.55
2:C:690:ILE:HG21	2:C:833:LEU:CD2	2.36	0.55
3:D:179:VAL:HG11	3:D:217:LYS:HE3	1.89	0.55
3:D:396:VAL:HG22	3:D:447:VAL:HB	1.90	0.55
3:D:679:ARG:NH2	3:D:681:ARG:NE	2.51	0.55
5:F:371:LEU:HA	5:F:375:LEU:HB2	1.88	0.55
1:K:147:GLY:HA3	1:K:171:PHE:CD2	2.41	0.55
1:L:25:LEU:CD2	1:L:28:LEU:HD11	2.37	0.55
2:M:1043:TYR:O	2:M:1045:ALA:N	2.40	0.55
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.36	0.55
2:M:292:ARG:HG2	2:M:297:GLU:O	2.07	0.55
2:M:486:MET:CG	2:M:490:GLU:HB3	2.37	0.55
2:M:734:LEU:HD13	2:M:737:LEU:HD12	1.87	0.55
2:M:976:ASP:O	2:M:978:ARG:N	2.40	0.55
3:N:181:ASP:OD2	3:N:198:ARG:HB2	2.07	0.55
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.22	0.55
3:N:79:GLU:HG2	3:N:80:VAL:H	1.72	0.55
2:M:984:GLU:OE1	3:N:945:SER:HA	2.07	0.55
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.89	0.55
5:P:350:LEU:HD12	5:P:422:LEU:HB2	1.89	0.55
2:C:1036:GLU:HG2	3:D:703:ASN:OD1	2.06	0.54
2:C:139:GLN:HG2	2:C:140:ILE:N	2.21	0.54
2:C:332:ARG:CG	2:C:465:GLY:HA3	2.35	0.54
2:C:949:LYS:HZ2	3:D:859:ASP:CG	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:54:LEU:HA	4:E:58:PRO:CG	2.36	0.54
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.89	0.54
1:K:121:GLU:HG2	1:K:123:MET:SD	2.47	0.54
1:K:63:HIS:HD2	1:K:65:PHE:H	1.55	0.54
2:M:375:SER:O	2:M:379:GLU:HB2	2.06	0.54
2:M:730:SER:OG	2:M:731:GLU:N	2.39	0.54
2:M:432:ARG:NH1	3:N:1053:PHE:CZ	2.75	0.54
3:N:1102:THR:O	3:N:1102:THR:HG22	2.07	0.54
3:N:1228:SER:C	3:N:1229:ILE:HG13	2.27	0.54
3:N:1269:LYS:HA	3:N:1269:LYS:HE2	1.89	0.54
3:N:132:TYR:CD2	3:N:154:THR:HG22	2.41	0.54
2:M:1047:HIS:CG	3:N:754:PHE:CD2	2.95	0.54
3:N:1209:LEU:CD2	4:O:16:LYS:HD2	2.37	0.54
1:A:152:PRO:HB2	1:A:155:LYS:HB2	1.90	0.54
1:B:25:LEU:HD22	1:B:195:LEU:HD23	1.88	0.54
2:C:573:ARG:O	2:C:574:ALA:O	2.25	0.54
3:D:1290:LEU:HD23	3:D:1291:SER:N	2.22	0.54
3:D:457:GLY:CA	3:D:568:ARG:HH12	2.19	0.54
3:D:569:ASN:O	3:D:569:ASN:ND2	2.39	0.54
3:D:609:GLY:HA2	3:D:613:ARG:HD2	1.90	0.54
3:D:645:PRO:O	3:D:646:LYS:C	2.45	0.54
3:D:813:LEU:O	3:D:817:GLU:HB2	2.06	0.54
5:F:214:GLN:HA	5:F:214:GLN:OE1	2.06	0.54
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.37	0.54
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.71	0.54
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.21	0.54
2:M:921:ALA:O	2:M:924:VAL:N	2.41	0.54
2:M:962:GLN:O	2:M:964:LYS:N	2.40	0.54
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.88	0.54
3:N:976:GLN:HA	3:N:979:GLU:CG	2.37	0.54
3:N:1495:ILE:HD12	4:O:88:GLU:HG3	1.90	0.54
5:P:358:LEU:HD21	5:P:370:LYS:NZ	2.22	0.54
5:P:76:SER:O	5:P:79:ASP:N	2.37	0.54
1:A:146:ARG:O	1:A:146:ARG:HD3	2.07	0.54
1:B:53:VAL:HG13	1:B:142:VAL:HB	1.90	0.54
2:C:1067:TYR:O	2:C:1070:ILE:HB	2.06	0.54
2:C:290:LEU:HB3	2:C:302:VAL:CG2	2.37	0.54
2:C:424:GLY:O	2:C:427:VAL:N	2.40	0.54
2:C:926:PHE:CD1	2:C:929:ARG:HG3	2.43	0.54
3:D:1426:LYS:O	3:D:1428:ALA:N	2.40	0.54
3:D:229:ALA:O	3:D:236:TYR:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:422:ALA:HB3	3:D:427:VAL:HG13	1.88	0.54
2:C:682:TYR:HA	3:D:635:PRO:HG2	1.89	0.54
3:D:752:SER:C	3:D:754:PHE:H	2.11	0.54
3:D:85:VAL:O	3:D:89:ARG:HG3	2.07	0.54
3:D:886:VAL:HG11	3:D:914:LEU:HD21	1.89	0.54
5:F:256:ARG:NH2	5:F:258:ILE:O	2.41	0.54
5:F:386:VAL:C	5:F:388:ALA:H	2.10	0.54
1:L:223:THR:C	1:L:225:PHE:H	2.10	0.54
2:M:1044:GLY:N	3:N:762:GLN:NE2	2.56	0.54
2:M:184:MET:SD	2:M:191:PHE:CZ	3.00	0.54
2:M:116:GLY:HA3	2:M:378:LEU:HD23	1.88	0.54
2:M:616:GLU:OE1	2:M:616:GLU:HA	2.08	0.54
3:N:1156:LEU:HG	3:N:1182:GLU:OE2	2.07	0.54
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.08	0.54
3:N:1155:VAL:HG13	3:N:1183:ILE:HD11	1.88	0.54
3:N:583:ASP:OD1	3:N:604:THR:HG21	2.07	0.54
3:N:699:VAL:CG1	3:N:717:GLN:HG2	2.37	0.54
3:N:918:ALA:O	3:N:922:LEU:N	2.39	0.54
2:C:728:HIS:HB3	2:C:729:LEU:CD2	2.38	0.54
2:C:842:ARG:NH2	2:C:887:GLU:CD	2.61	0.54
2:C:918:LEU:HD23	2:C:967:PHE:O	2.07	0.54
3:D:1054:GLU:O	3:D:1056:PRO:HD3	2.07	0.54
3:D:152:LEU:CD2	3:D:152:LEU:H	2.03	0.54
3:D:554:LEU:C	3:D:554:LEU:HD13	2.28	0.54
3:D:554:LEU:O	3:D:554:LEU:HD13	2.07	0.54
3:D:869:MET:CE	3:D:894:LYS:HE3	2.37	0.54
3:D:932:ASP:HA	3:D:935:LYS:HB3	1.88	0.54
1:L:153:ALA:HB2	1:L:168:ASP:N	2.22	0.54
2:M:283:ILE:HG22	2:M:284:ARG:HG3	1.89	0.54
2:M:535:SER:OG	2:M:536:PRO:CD	2.55	0.54
2:M:398:THR:CG2	2:M:635:THR:HG21	2.37	0.54
2:M:962:GLN:O	2:M:965:GLU:N	2.40	0.54
3:N:1396:GLU:O	3:N:1399:ASP:HB2	2.08	0.54
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.72	0.54
3:N:533:GLY:HA3	5:P:309:LYS:HB3	1.89	0.54
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.87	0.54
2:C:674:VAL:HG11	2:C:992:MET:HB2	1.90	0.54
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.90	0.54
3:D:9:ARG:HH12	3:D:11:ALA:HB2	1.72	0.54
3:D:160:GLU:HG3	3:D:165:LYS:HA	1.90	0.54
4:E:52:GLU:HA	4:E:52:GLU:OE2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:671:LYS:HE3	5:F:421:PHE:O	2.07	0.54
1:L:64:GLU:O	1:L:76:VAL:HG22	2.07	0.54
2:M:405:ARG:CZ	2:M:566:THR:HG21	2.38	0.54
2:M:904:PRO:HD2	2:M:908:GLY:CA	2.37	0.54
3:N:1065:LEU:HA	3:N:1069:GLU:OE2	2.08	0.54
3:N:1159:ARG:CZ	3:N:1159:ARG:HB2	2.38	0.54
5:P:276:ARG:NH1	5:P:276:ARG:HG3	2.23	0.54
1:B:174:VAL:HG13	1:B:200:TRP:O	2.07	0.54
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.28	0.54
2:C:548:PRO:CG	2:C:842:ARG:CZ	2.86	0.54
2:C:884:GLN:HG2	2:C:885:ILE:CD1	2.37	0.54
3:D:1023:MET:HA	3:D:1028:ALA:HB3	1.89	0.54
2:C:1038:TRP:HH2	3:D:1096:ARG:HD3	1.73	0.54
3:D:218:LYS:HD3	3:D:370:ALA:C	2.27	0.54
3:D:377:VAL:HG22	3:D:382:GLU:OE2	2.08	0.54
3:D:377:VAL:CG1	3:D:383:GLY:H	2.21	0.54
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.42	0.54
2:M:1037:VAL:HG12	2:M:1041:GLU:CD	2.27	0.54
2:M:397:GLU:O	2:M:631:SER:HB2	2.08	0.54
2:M:949:LYS:HZ3	3:N:828:LYS:NZ	2.06	0.54
3:N:1057:VAL:HG13	3:N:1069:GLU:CG	2.38	0.54
3:N:1466:VAL:CG1	3:N:1467:ILE:N	2.70	0.54
3:N:826:PRO:HD2	3:N:829:VAL:CG2	2.37	0.54
4:O:62:THR:HG22	4:O:62:THR:O	2.07	0.54
5:P:105:LYS:HE3	5:P:179:GLU:CG	2.38	0.54
5:P:377:ASP:CG	5:P:378:GLY:H	2.10	0.54
1:A:55:SER:HB2	1:A:158:ILE:CG2	2.36	0.54
2:C:252:LYS:HD3	2:C:296:GLY:HA2	1.90	0.54
2:C:495:THR:CG2	2:C:517:ARG:HE	2.21	0.54
3:D:1078:ARG:O	3:D:1080:GLY:N	2.41	0.54
3:D:1481:VAL:O	3:D:1483:PHE:N	2.39	0.54
3:D:480:GLU:O	3:D:484:PRO:HD2	2.08	0.54
3:D:568:ARG:HA	3:D:571:LYS:HZ3	1.68	0.54
3:D:79:GLU:O	3:D:80:VAL:HB	2.08	0.54
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.90	0.54
3:D:976:GLN:C	3:D:978:TYR:H	2.11	0.54
5:F:88:ILE:HD13	5:F:193:ARG:CB	2.36	0.54
1:K:180:GLN:O	1:K:195:LEU:HA	2.08	0.54
1:L:121:GLU:HG2	1:L:122:ILE:N	2.23	0.54
1:L:44:LEU:HD11	1:L:199:ILE:CD1	2.37	0.54
2:M:683:ASN:CB	2:M:687:ALA:O	2.49	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:74:GLY:O	2:M:76:PRO:HD3	2.08	0.54
3:N:190:GLU:CD	3:N:190:GLU:H	2.11	0.54
3:N:441:ARG:HG2	3:N:442:ASN:H	1.73	0.54
3:N:887:ALA:CB	3:N:893:GLU:HG3	2.22	0.54
1:A:85:LEU:HB2	1:A:127:LEU:HD21	1.90	0.54
1:B:49:PRO:HA	1:B:147:GLY:O	2.07	0.54
2:C:205:GLU:HG3	2:C:206:THR:N	2.22	0.54
2:C:21:ILE:HG22	2:C:335:THR:HG22	1.89	0.54
2:C:257:VAL:HG13	2:C:263:ASP:OD2	2.07	0.54
2:C:290:LEU:CD2	2:C:302:VAL:HG21	2.37	0.54
3:D:378:ILE:H	3:D:378:ILE:CD1	2.21	0.54
3:D:648:MET:O	3:D:652:LEU:HB2	2.08	0.54
3:D:858:VAL:HG12	3:D:859:ASP:O	2.06	0.54
3:D:387:LEU:HD13	5:F:97:GLU:CB	2.38	0.54
1:K:133:GLU:HG2	1:K:134:GLU:H	1.72	0.54
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.22	0.54
1:L:158:ILE:HG22	1:L:159:LYS:N	2.21	0.54
2:M:1083:GLU:O	2:M:1087:VAL:CG2	2.50	0.54
2:M:218:VAL:HG12	2:M:222:MET:HG3	1.90	0.54
2:M:427:VAL:C	2:M:429:ASP:H	2.11	0.54
3:N:1078:ARG:O	3:N:1079:LYS:C	2.45	0.54
3:N:1271:LYS:HE3	3:N:1334:GLN:OE1	2.08	0.54
3:N:32:ILE:HG22	3:N:33:ASN:N	2.22	0.54
3:N:218:LYS:HB3	3:N:373:PRO:CA	2.38	0.54
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.89	0.54
3:N:490:ALA:O	3:N:494:LYS:HG3	2.07	0.54
3:N:545:ARG:HH11	3:N:545:ARG:HB3	1.73	0.54
3:N:658:LEU:O	3:N:661:MET:HB2	2.08	0.54
1:A:153:ALA:O	1:A:155:LYS:N	2.41	0.54
1:B:151:VAL:CB	1:B:169:ALA:HB3	2.36	0.54
2:C:762:LYS:NZ	2:C:762:LYS:HB2	2.22	0.54
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.08	0.54
3:D:1081:GLY:C	3:D:1083:ASP:H	2.12	0.54
3:D:1357:ARG:O	3:D:1359:GLN:N	2.40	0.54
3:D:435:VAL:HA	3:D:445:ARG:O	2.08	0.54
3:D:890:VAL:HG23	3:D:890:VAL:O	2.07	0.54
3:D:897:TRP:CH2	3:D:902:LEU:HD11	2.43	0.54
2:C:983:ILE:HG23	3:D:944:THR:HA	1.88	0.54
3:D:560:GLN:O	5:F:184:ARG:NH2	2.41	0.54
5:F:244:ARG:O	5:F:248:ASN:ND2	2.41	0.54
5:F:414:ARG:O	5:F:416:ARG:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:137:ARG:HH22	1:L:139:ASN:ND2	2.05	0.54
1:L:36:LEU:O	1:L:39:PRO:HD2	2.07	0.54
3:N:1241:PHE:O	3:N:1257:PRO:HB3	2.07	0.54
3:N:657:LEU:HD13	3:N:691:LEU:HA	1.90	0.54
3:N:792:ILE:HD11	3:N:881:LEU:CD2	2.31	0.54
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.71	0.54
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.90	0.54
3:D:1109:GLU:OE1	3:D:1110:ALA:C	2.46	0.54
3:D:1274:ILE:HD12	3:D:1274:ILE:O	2.08	0.54
3:D:127:LEU:C	3:D:127:LEU:HD12	2.28	0.54
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.90	0.54
3:D:1357:ARG:C	3:D:1359:GLN:N	2.62	0.54
3:D:493:ARG:NH2	3:D:1389:LEU:HD21	2.22	0.54
3:D:149:LYS:H	3:D:149:LYS:CD	2.12	0.54
5:F:415:THR:HG21	5:F:417:LYS:HZ1	1.73	0.54
1:L:88:ARG:HH11	1:L:88:ARG:HG2	1.73	0.54
2:M:139:GLN:HG3	2:M:411:SER:O	2.08	0.54
2:M:926:PHE:O	2:M:930:LYS:HG3	2.08	0.54
3:N:786:ILE:HG21	3:N:1028:ALA:H	1.73	0.54
3:N:1243:THR:OG1	3:N:1253:THR:HB	2.07	0.54
3:N:1256:LEU:O	3:N:1259:VAL:N	2.39	0.54
3:N:22:SER:OG	3:N:91:GLY:HA2	2.08	0.54
3:N:482:LYS:HG2	3:N:482:LYS:O	2.07	0.54
3:N:759:ALA:O	3:N:763:MET:HB3	2.08	0.54
3:N:701:LEU:HD21	3:N:763:MET:HE2	1.90	0.54
5:P:151:LEU:HB2	5:P:155:THR:CB	2.38	0.54
5:P:163:LEU:HD22	5:P:174:LEU:CG	2.26	0.54
1:A:90:LEU:HD12	1:A:119:ASP:C	2.28	0.53
1:B:68:ILE:HB	1:B:71:VAL:HG21	1.90	0.53
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.90	0.53
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.23	0.53
3:D:1094:LEU:O	3:D:1095:THR:C	2.47	0.53
3:D:225:LEU:N	3:D:225:LEU:HD22	2.22	0.53
3:D:558:LEU:HD13	5:F:145:PRO:HB3	1.90	0.53
3:D:633:VAL:O	3:D:635:PRO:HD3	2.07	0.53
3:D:78:VAL:O	3:D:78:VAL:HG12	2.08	0.53
3:D:85:VAL:CG1	3:D:89:ARG:HE	2.21	0.53
1:L:216:GLU:OE2	1:L:220:GLU:HG3	2.08	0.53
2:M:444:PRO:HD2	2:M:448:ASN:O	2.08	0.53
2:M:561:GLY:O	2:M:563:ASN:N	2.41	0.53
2:M:18:LEU:HD13	2:M:590:ASP:OD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.43	0.53
3:N:1015:TYR:C	3:N:1017:PHE:H	2.12	0.53
3:N:1047:LYS:HG3	3:N:1053:PHE:CD1	2.43	0.53
3:N:1466:VAL:CG2	3:N:1472:ILE:HD11	2.34	0.53
3:N:195:VAL:HB	3:N:205:TYR:CD1	2.43	0.53
3:N:604:THR:O	3:N:606:ILE:N	2.41	0.53
3:N:669:ASN:ND2	3:N:672:ALA:H	2.06	0.53
3:N:785:ILE:CD1	3:N:939:PHE:CE2	2.91	0.53
3:N:97:THR:O	3:N:98:PRO:O	2.26	0.53
3:N:988:ARG:CZ	3:N:992:ILE:HD11	2.37	0.53
1:A:89:PHE:HD1	1:A:120:VAL:HG22	1.73	0.53
1:B:226:SER:O	1:B:228:PRO:HD3	2.08	0.53
2:C:973:VAL:HG12	2:C:973:VAL:O	2.07	0.53
3:D:1012:GLU:HG2	3:D:1012:GLU:O	2.08	0.53
3:D:1188:VAL:HG22	3:D:1189:ARG:H	1.73	0.53
3:D:1426:LYS:C	3:D:1428:ALA:H	2.12	0.53
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.90	0.53
5:F:276:ARG:HH11	5:F:276:ARG:HG3	1.72	0.53
5:F:309:LYS:HA	5:F:312:GLN:OE1	2.08	0.53
2:M:881:ASN:H	2:M:881:ASN:HD22	1.55	0.53
2:M:921:ALA:O	2:M:923:GLU:N	2.42	0.53
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.22	0.53
3:N:1065:LEU:O	3:N:1066:THR:O	2.26	0.53
2:M:516:ARG:HD2	3:N:1068:LEU:CD2	2.38	0.53
3:N:167:GLU:OE2	5:P:90:GLN:HG2	2.08	0.53
3:N:473:LEU:HD12	3:N:476:GLU:CD	2.29	0.53
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.37	0.53
3:N:537:THR:HG22	5:P:314:PRO:HB3	1.90	0.53
1:A:38:ASN:O	1:A:39:PRO:C	2.42	0.53
1:A:59:GLU:HB2	1:A:139:ASN:HB3	1.91	0.53
1:A:63:HIS:HD2	1:A:65:PHE:HB2	1.73	0.53
1:B:2:LEU:CD1	1:B:3:ASP:H	2.22	0.53
2:C:517:ARG:HH21	2:C:524:VAL:HG23	1.73	0.53
2:C:839:LEU:N	2:C:839:LEU:HD23	2.23	0.53
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.44	0.53
3:D:163:TYR:OH	3:D:394:LEU:HD11	2.07	0.53
3:D:624:ASP:HB3	3:D:625:TYR:CE1	2.43	0.53
3:D:947:ILE:O	3:D:947:ILE:CD1	2.56	0.53
4:E:8:LYS:O	4:E:12:MET:HG3	2.08	0.53
2:M:145:GLY:O	2:M:146:VAL:HG13	2.08	0.53
2:M:302:VAL:O	2:M:305:PRO:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:439:CYS:SG	2:M:541:SER:N	2.81	0.53
2:M:553:ASP:OD1	2:M:883:GLY:HA3	2.08	0.53
2:M:669:GLY:O	2:M:670:GLN:HG3	2.08	0.53
2:M:731:GLU:O	2:M:734:LEU:HB2	2.07	0.53
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.37	0.53
3:N:1225:ALA:HB1	3:N:1367:HIS:O	2.08	0.53
2:M:751:PRO:HD2	3:N:680:GLN:OE1	2.06	0.53
3:N:834:THR:HB	3:N:838:ARG:CB	2.38	0.53
3:N:882:PHE:CZ	3:N:906:GLN:HG3	2.43	0.53
1:B:206:THR:HG23	1:B:207:PRO:HD2	1.89	0.53
2:C:1092:LEU:HD13	2:C:1099:VAL:HG11	1.91	0.53
2:C:20:GLU:OE2	2:C:21:ILE:HG13	2.07	0.53
2:C:749:VAL:HG22	2:C:798:GLY:O	2.09	0.53
3:D:1253:THR:HG23	3:D:1258:ARG:HH11	1.74	0.53
3:D:1346:ARG:NH2	3:D:1349:VAL:HG11	2.23	0.53
3:D:149:LYS:HD3	3:D:149:LYS:N	2.17	0.53
3:D:553:ARG:HH12	5:F:211:ASP:CA	2.14	0.53
3:D:85:VAL:HG12	3:D:89:ARG:HE	1.73	0.53
3:D:945:SER:CB	3:D:947:ILE:HG23	2.37	0.53
5:F:201:LYS:C	5:F:203:THR:H	2.12	0.53
5:F:77:THR:HA	5:F:80:PRO:HD2	1.89	0.53
1:K:49:PRO:HA	1:K:147:GLY:O	2.08	0.53
1:L:108:GLU:O	1:L:110:LYS:HG3	2.07	0.53
2:M:1086:ARG:HD3	2:M:1112:PHE:CD2	2.43	0.53
2:M:80:GLN:O	2:M:83:CYS:N	2.35	0.53
3:N:1135:ARG:O	3:N:1136:LYS:C	2.46	0.53
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.39	0.53
3:N:1330:ILE:O	3:N:1332:PRO:HD3	2.09	0.53
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.91	0.53
3:N:217:LYS:CE	3:N:217:LYS:H	2.09	0.53
3:N:637:LEU:O	3:N:638:LYS:HG3	2.08	0.53
1:A:184:THR:HB	1:A:194:LYS:HB2	1.90	0.53
1:A:9:PRO:HA	1:A:26:GLU:O	2.08	0.53
2:C:1056:LYS:HA	3:D:624:ASP:HB2	1.90	0.53
2:C:765:SER:HB2	2:C:766:GLU:OE2	2.09	0.53
3:D:123:LEU:O	3:D:126:VAL:HG12	2.09	0.53
3:D:1276:GLU:HG3	3:D:1303:TYR:OH	2.09	0.53
3:D:179:VAL:HG11	3:D:217:LYS:NZ	2.22	0.53
3:D:528:VAL:HG12	3:D:529:GLN:H	1.74	0.53
3:D:601:ARG:NH1	3:D:611:GLN:HB2	2.23	0.53
3:D:850:LEU:HD13	3:D:884:ARG:HH21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:415:THR:HG21	5:F:417:LYS:NZ	2.24	0.53
2:M:1087:VAL:HG12	2:M:1091:GLU:OE2	2.08	0.53
2:M:325:ILE:CD1	2:M:325:ILE:H	2.21	0.53
2:M:371:LYS:O	2:M:372:LEU:HD23	2.09	0.53
2:M:640:ARG:CB	2:M:640:ARG:HH11	2.21	0.53
3:N:1283:ILE:HD13	3:N:1311:LEU:HD11	1.90	0.53
3:N:1275:SER:HB2	3:N:1325:LEU:CD1	2.38	0.53
3:N:1271:LYS:HE3	3:N:1334:GLN:NE2	2.23	0.53
3:N:1376:MET:HE1	3:N:1421:LEU:HB2	1.90	0.53
3:N:645:PRO:O	3:N:646:LYS:C	2.46	0.53
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.44	0.53
3:N:988:ARG:HH11	3:N:988:ARG:HG2	1.73	0.53
5:P:133:ALA:O	5:P:137:GLY:O	2.26	0.53
5:P:207:LEU:HD12	5:P:212:LEU:HD21	1.90	0.53
5:P:346:THR:O	5:P:347:GLN:C	2.46	0.53
2:C:175:GLU:HB3	2:C:183:SER:OG	2.08	0.53
2:C:100:LEU:HG	2:C:368:THR:HG23	1.89	0.53
2:C:462:ASP:CG	2:C:463:GLU:H	2.11	0.53
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.90	0.53
3:D:245:LEU:HD13	3:D:245:LEU:H	1.74	0.53
3:D:429:SER:H	3:D:433:GLY:HA2	1.74	0.53
3:D:486:ARG:HH21	3:D:489:ARG:NE	2.06	0.53
3:D:700:VAL:HG13	3:D:718:PRO:HG2	1.91	0.53
5:F:135:ILE:HD11	5:F:178:ARG:HD2	1.88	0.53
2:M:1102:LEU:O	3:N:5:VAL:HA	2.09	0.53
2:M:157:ARG:NH1	2:M:314:THR:HB	2.24	0.53
2:M:759:THR:HB	2:M:785:VAL:CG1	2.34	0.53
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.73	0.53
4:O:40:LEU:HB2	4:O:45:ARG:CZ	2.39	0.53
4:O:40:LEU:HD21	4:O:67:GLU:HG2	1.91	0.53
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.91	0.53
1:B:7:LYS:HE3	1:B:186:LEU:HD13	1.91	0.53
2:C:1102:LEU:HD13	3:D:9:ARG:HB2	1.90	0.53
2:C:183:SER:HB2	2:C:190:LYS:CD	2.39	0.53
2:C:583:LEU:O	2:C:587:VAL:HG23	2.09	0.53
3:D:1243:THR:HB	3:D:1253:THR:HB	1.89	0.53
3:D:141:ILE:HG22	3:D:142:LEU:N	2.24	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.43	0.53
3:D:166:GLN:HE21	3:D:167:GLU:H	1.56	0.53
3:D:169:TYR:N	3:D:170:PRO:HD3	2.23	0.53
3:D:660:LYS:HA	3:D:663:GLU:CG	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:122:LEU:CD2	5:F:159:ILE:HG23	2.39	0.53
2:M:495:THR:HG23	2:M:517:ARG:NE	2.24	0.53
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.91	0.53
2:M:988:VAL:O	2:M:989:VAL:CG1	2.57	0.53
3:N:1087:ARG:HA	3:N:1087:ARG:NE	2.24	0.53
3:N:1231:GLU:N	3:N:1232:PRO:CD	2.71	0.53
3:N:1256:LEU:O	3:N:1258:ARG:N	2.42	0.53
3:N:1268:PRO:CB	3:N:1329:ALA:HB3	2.39	0.53
3:N:452:ILE:HG23	3:N:452:ILE:O	2.09	0.53
3:N:96:ALA:HB2	3:N:551:ASN:ND2	2.24	0.53
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.42	0.53
1:A:198:ARG:O	1:A:200:TRP:CZ3	2.61	0.53
1:A:43:ILE:HD12	1:B:32:PHE:CZ	2.43	0.53
1:B:54:THR:O	1:B:167:VAL:HB	2.09	0.53
2:C:502:PRO:CB	2:C:509:ALA:HB3	2.38	0.53
2:C:615:TYR:C	2:C:617:ASP:H	2.12	0.53
2:C:602:GLU:HA	2:C:647:GLN:O	2.09	0.53
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.43	0.53
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.91	0.53
3:D:217:LYS:CB	3:D:217:LYS:NZ	2.67	0.53
2:C:1058:ASP:HB2	3:D:621:LYS:NZ	2.23	0.53
2:C:1009:SER:O	3:D:624:ASP:O	2.27	0.53
3:D:907:GLU:CG	3:D:908:LYS:H	2.21	0.53
2:M:124:ASP:HB2	2:M:407:LYS:NZ	2.23	0.53
2:M:12:VAL:HG13	2:M:13:ILE:HG12	1.90	0.53
2:M:470:PRO:CB	2:M:534:VAL:HG21	2.38	0.53
2:M:627:ARG:HG3	2:M:628:PHE:H	1.73	0.53
2:M:674:VAL:HB	2:M:869:VAL:HG13	1.91	0.53
2:M:549:PHE:CE2	2:M:887:GLU:HA	2.40	0.53
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.90	0.53
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.38	0.53
3:N:1401:GLU:O	3:N:1405:GLU:HG3	2.09	0.53
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.91	0.53
3:N:601:ARG:NE	3:N:605:ASP:HB2	2.24	0.53
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.08	0.53
3:N:78:VAL:HG12	3:N:79:GLU:O	2.09	0.53
4:O:53:GLY:HA2	4:O:55:PHE:HD2	1.73	0.53
5:P:318:GLU:O	5:P:318:GLU:HG3	2.07	0.53
5:P:416:ARG:HD3	5:P:419:ARG:CG	2.37	0.53
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.36	0.53
2:C:517:ARG:HH21	2:C:524:VAL:CG2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:O	2:C:559:LEU:HD11	2.09	0.53
2:C:776:SER:HA	2:C:780:GLU:CA	2.39	0.53
2:C:799:ILE:HG12	2:C:799:ILE:O	2.08	0.53
2:C:97:ARG:NH2	2:C:109:LYS:HD2	2.23	0.53
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.38	0.53
3:D:374:GLU:HG2	3:D:386:HIS:CA	2.31	0.53
3:D:34:TYR:OH	5:F:264:MET:HG3	2.09	0.53
1:K:150:TYR:HA	1:K:169:ALA:O	2.08	0.53
2:M:1092:LEU:HD23	2:M:1099:VAL:HG13	1.91	0.53
2:M:326:ASP:O	2:M:327:HIS:C	2.47	0.53
2:M:551:GLU:C	2:M:553:ASP:H	2.12	0.53
3:N:1108:ARG:NH1	3:N:1198:TYR:O	2.42	0.53
3:N:197:SER:CB	3:N:203:ALA:HB3	2.39	0.53
3:N:382:GLU:HG2	3:N:383:GLY:N	2.24	0.53
3:N:563:PRO:HG2	5:P:188:ILE:HG21	1.90	0.53
3:N:568:ARG:O	3:N:571:LYS:N	2.42	0.53
3:N:609:GLY:HA3	3:N:613:ARG:HB3	1.89	0.53
2:M:1033:GLY:HA2	3:N:620:GLY:HA2	1.90	0.53
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.32	0.53
3:N:717:GLN:NE2	3:N:760:ARG:NH2	2.57	0.53
3:N:780:LYS:HG3	3:N:780:LYS:O	2.08	0.53
3:N:908:LYS:O	3:N:912:LYS:N	2.27	0.53
3:N:911:LEU:O	3:N:914:LEU:N	2.42	0.53
5:P:130:VAL:C	5:P:132:ARG:H	2.11	0.53
1:B:212:ASN:HD22	1:B:212:ASN:N	2.06	0.53
1:B:219:ARG:HE	1:B:220:GLU:N	2.07	0.53
2:C:72:ARG:HH21	2:C:112:GLU:HG3	1.73	0.53
2:C:498:GLN:NE2	2:C:533:ASP:OD2	2.41	0.53
2:C:829:GLN:CG	2:C:831:ARG:HH11	2.22	0.53
2:C:936:VAL:HB	2:C:940:GLU:HB3	1.90	0.53
3:D:1074:SER:O	3:D:1075:HIS:C	2.45	0.53
3:D:141:ILE:HG22	3:D:142:LEU:H	1.74	0.53
3:D:495:ARG:O	3:D:499:VAL:HG23	2.09	0.53
3:D:23:TYR:HE2	3:D:89:ARG:NH1	2.07	0.53
2:M:432:ARG:HH22	3:N:1047:LYS:HZ2	1.54	0.53
3:N:1090:ASP:C	3:N:1092:GLY:N	2.61	0.53
3:N:1144:LEU:CD2	3:N:1166:LEU:HD11	2.21	0.53
3:N:1150:ALA:N	3:N:1187:PRO:O	2.42	0.53
3:N:1107:VAL:HG23	3:N:1221:VAL:HG21	1.91	0.53
3:N:1376:MET:CE	3:N:1421:LEU:HB2	2.38	0.53
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:86:ARG:NH1	3:N:522:PRO:HB2	2.24	0.53
3:N:558:LEU:O	3:N:559:ALA:C	2.48	0.53
3:N:699:VAL:HB	3:N:716:PHE:O	2.08	0.53
3:N:954:ALA:CA	3:N:1039:CYS:SG	2.95	0.53
5:P:288:TYR:O	5:P:291:ILE:HG23	2.09	0.53
2:C:266:ARG:HD3	2:C:288:ARG:HH11	1.73	0.52
2:C:795:GLY:O	2:C:796:GLU:CG	2.57	0.52
2:C:919:ALA:N	2:C:968:LEU:HD21	2.22	0.52
3:D:537:THR:HG23	3:D:537:THR:O	2.08	0.52
3:D:733:CYS:SG	3:D:740:PHE:HZ	2.32	0.52
3:D:91:GLY:O	3:D:519:VAL:N	2.42	0.52
4:E:41:GLU:HB3	4:E:42:PRO:HD3	1.90	0.52
5:F:77:THR:C	5:F:80:PRO:HD2	2.29	0.52
1:K:197:LEU:HD23	1:K:197:LEU:H	1.74	0.52
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.09	0.52
2:M:41:ASN:ND2	2:M:41:ASN:H	2.07	0.52
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.44	0.52
2:M:692:GLU:HG2	2:M:692:GLU:O	2.08	0.52
3:N:1344:VAL:HG12	3:N:1344:VAL:O	2.07	0.52
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.49	0.52
3:N:1442:ASN:O	3:N:1443:THR:C	2.46	0.52
3:N:145:VAL:HG13	3:N:146:PRO:HD2	1.91	0.52
3:N:177:ALA:CB	3:N:199:LEU:HD13	2.39	0.52
3:N:49:ILE:HG22	3:N:50:PHE:N	2.24	0.52
3:N:97:THR:CG2	3:N:571:LYS:HD3	2.39	0.52
5:P:389:PHE:CE2	5:P:397:ILE:HD11	2.43	0.52
1:A:198:ARG:HD3	1:A:200:TRP:CH2	2.44	0.52
1:B:29:GLU:O	1:B:32:PHE:HB2	2.08	0.52
2:C:273:GLY:HA2	2:C:276:LYS:HZ3	1.74	0.52
2:C:575:GLN:H	2:C:667:ALA:HB1	1.75	0.52
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.74	0.52
3:D:1102:THR:O	3:D:1222:GLY:HA3	2.09	0.52
3:D:1331:ASP:HB3	3:D:1334:GLN:HG3	1.91	0.52
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.90	0.52
3:D:141:ILE:CD1	3:D:449:SER:HA	2.39	0.52
3:D:994:GLN:O	3:D:998:GLU:HG3	2.08	0.52
5:F:210:LEU:HD23	5:F:213:ILE:HD12	1.91	0.52
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.30	0.52
2:M:1054:THR:CG2	2:M:1059:ASP:HB2	2.39	0.52
2:M:1056:LYS:HE2	3:N:623:VAL:CG1	2.40	0.52
2:M:98:LEU:O	2:M:109:LYS:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1008:PHE:O	3:N:1012:GLU:HB2	2.09	0.52
3:N:1330:ILE:HD12	3:N:1347:TYR:CD1	2.43	0.52
3:N:162:ARG:HA	3:N:449:SER:HB3	1.91	0.52
3:N:660:LYS:HG2	3:N:694:VAL:CG2	2.39	0.52
3:N:656:PHE:CZ	3:N:751:LEU:HD23	2.44	0.52
3:N:388:HIS:CB	5:P:94:LEU:HD21	2.34	0.52
1:A:8:ALA:O	1:A:9:PRO:C	2.45	0.52
1:B:173:PRO:HB3	1:B:204:SER:HB3	1.90	0.52
1:B:25:LEU:CD2	1:B:195:LEU:HD23	2.39	0.52
2:C:474:VAL:HG22	2:C:476:GLY:O	2.09	0.52
3:D:1026:SER:O	3:D:1028:ALA:N	2.42	0.52
3:D:1152:GLU:O	3:D:1153:VAL:HG23	2.10	0.52
3:D:119:SER:HB2	3:D:123:LEU:CB	2.37	0.52
3:D:119:SER:N	3:D:123:LEU:HB2	2.24	0.52
3:D:1209:LEU:O	3:D:1210:SER:C	2.46	0.52
3:D:1370:ILE:HG22	3:D:1371:VAL:H	1.73	0.52
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.72	0.52
1:K:227:ASN:O	1:K:227:ASN:CG	2.48	0.52
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.90	0.52
2:M:401:LEU:HD12	2:M:401:LEU:O	2.09	0.52
3:N:1479:ASP:HA	3:N:1482:ARG:CB	2.39	0.52
3:N:525:ARG:O	3:N:526:PRO:O	2.28	0.52
3:N:84:ILE:C	3:N:86:ARG:H	2.10	0.52
3:N:871:LYS:HB3	3:N:873:LEU:HG	1.91	0.52
3:D:1129:THR:CG2	3:D:1130:ARG:H	1.98	0.52
3:D:203:ALA:O	3:D:204:LEU:HD23	2.10	0.52
3:D:218:LYS:NZ	3:D:370:ALA:CA	2.65	0.52
3:D:223:LEU:H	3:D:365:ASP:HB2	1.74	0.52
3:D:579:ASP:O	3:D:581:LEU:N	2.43	0.52
3:D:864:VAL:HG12	3:D:865:THR:N	2.24	0.52
3:D:572:ARG:NH2	5:F:79:ASP:OD1	2.42	0.52
1:L:206:THR:HG22	1:L:209:GLU:CB	2.39	0.52
1:L:2:LEU:O	1:L:6:LEU:HB3	2.10	0.52
2:M:195:LEU:O	2:M:199:VAL:HG23	2.10	0.52
2:M:276:LYS:HG2	2:M:280:LYS:HZ2	1.74	0.52
2:M:395:LYS:HE2	2:M:397:GLU:HB3	1.91	0.52
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.91	0.52
2:M:808:ARG:HH21	2:M:820:ARG:NH2	2.08	0.52
3:N:116:LEU:HB2	3:N:118:LEU:HD13	1.92	0.52
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.24	0.52
3:N:1330:ILE:HD12	3:N:1347:TYR:CE1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1382:THR:C	3:N:1384:PRO:HD3	2.29	0.52
3:N:39:PRO:HG2	3:N:47:GLU:OE2	2.10	0.52
3:N:84:ILE:O	3:N:85:VAL:C	2.46	0.52
3:N:93:ILE:HG13	3:N:519:VAL:CG2	2.40	0.52
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.74	0.52
5:P:196:VAL:HG13	5:P:209:PHE:CZ	2.43	0.52
5:P:354:LEU:HG	5:P:418:LEU:HD21	1.91	0.52
1:B:145:ASP:HB2	1:B:171:PHE:HZ	1.73	0.52
2:C:1102:LEU:HD13	3:D:9:ARG:CB	2.39	0.52
2:C:607:ASP:HB3	2:C:609:ASN:H	1.75	0.52
2:C:71:TYR:HA	2:C:96:ALA:CB	2.39	0.52
3:D:1147:ARG:HH12	3:D:1190:SER:HB2	1.74	0.52
3:D:422:ALA:CB	3:D:427:VAL:HG22	2.32	0.52
4:E:53:GLY:O	4:E:55:PHE:N	2.43	0.52
1:L:85:LEU:HA	1:L:127:LEU:HD22	1.91	0.52
1:L:76:VAL:HG13	1:L:79:ILE:HD11	1.91	0.52
2:M:1052:MET:SD	2:M:1056:LYS:NZ	2.81	0.52
3:N:1057:VAL:HG13	3:N:1069:GLU:HG2	1.91	0.52
3:N:27:GLU:CG	3:N:42:ASP:HB2	2.39	0.52
3:N:541:ASN:HD22	3:N:541:ASN:N	2.07	0.52
3:N:785:ILE:HD11	3:N:939:PHE:CZ	2.44	0.52
3:N:845:ASN:H	3:N:848:GLU:CG	2.11	0.52
5:P:134:LYS:HE3	5:P:134:LYS:HA	1.91	0.52
1:A:20:TYR:CD1	1:A:21:GLY:N	2.78	0.52
1:A:34:VAL:CB	1:B:42:ARG:NH2	2.72	0.52
1:A:94:LEU:HD11	1:A:119:ASP:CB	2.39	0.52
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.10	0.52
2:C:495:THR:HB	2:C:530:GLU:HG3	1.91	0.52
2:C:876:VAL:O	2:C:879:ARG:O	2.28	0.52
3:D:154:THR:HG22	3:D:155:ASP:N	2.24	0.52
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.40	0.52
3:D:65:ARG:HB2	5:F:375:LEU:O	2.10	0.52
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.92	0.52
1:L:123:MET:C	1:L:125:PRO:HD3	2.29	0.52
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.91	0.52
2:M:599:GLU:HA	2:M:651:LYS:HB2	1.91	0.52
2:M:700:TYR:HB2	2:M:833:LEU:HB2	1.91	0.52
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.45	0.52
2:M:579:VAL:HA	2:M:901:TYR:O	2.09	0.52
2:M:155:PRO:HG2	3:N:1246:VAL:HG12	1.92	0.52
3:N:535:PHE:O	5:P:314:PRO:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.92	0.52
1:A:209:GLU:O	1:A:213:GLN:HG3	2.10	0.52
1:A:44:LEU:O	1:A:48:ILE:HD12	2.10	0.52
2:C:410:ILE:HD12	2:C:455:LEU:HB3	1.91	0.52
2:C:69:LEU:HD21	2:C:99:GLN:OE1	2.10	0.52
3:D:139:GLY:O	3:D:147:VAL:HG22	2.09	0.52
3:D:633:VAL:HG13	3:D:635:PRO:HD3	1.92	0.52
3:D:796:ARG:HD3	3:D:862:ASP:OD1	2.10	0.52
3:D:83:SER:O	3:D:85:VAL:N	2.43	0.52
3:D:601:ARG:HB2	5:F:318:GLU:OE1	2.10	0.52
1:L:176:ARG:H	1:L:200:TRP:HB2	1.74	0.52
2:M:1031:ARG:HA	3:N:621:LYS:O	2.09	0.52
2:M:129:ILE:CD1	2:M:129:ILE:N	2.73	0.52
2:M:736:ASP:HB3	2:M:743:VAL:HG23	1.92	0.52
3:N:574:LEU:O	3:N:578:VAL:HG23	2.10	0.52
3:N:691:LEU:HD21	3:N:720:LEU:HD21	1.91	0.52
3:N:62:LYS:HE2	3:N:75:ARG:HD3	1.92	0.52
3:N:423:ASP:N	5:P:178:ARG:HH12	2.06	0.52
5:P:322:GLY:O	5:P:324:GLU:N	2.41	0.52
1:A:198:ARG:O	1:A:200:TRP:HZ3	1.92	0.52
1:B:12:THR:OG1	1:B:24:VAL:HB	2.08	0.52
2:C:194:VAL:HG21	2:C:221:LEU:O	2.10	0.52
2:C:243:ARG:O	2:C:243:ARG:HD2	2.10	0.52
2:C:548:PRO:CG	2:C:842:ARG:NH2	2.73	0.52
2:C:709:GLU:HG2	2:C:710:ILE:N	2.24	0.52
2:C:944:LEU:O	2:C:947:ALA:HB3	2.09	0.52
3:D:1008:PHE:O	3:D:1011:PHE:N	2.43	0.52
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.27	0.52
3:D:1368:ILE:O	3:D:1372:VAL:HG23	2.09	0.52
3:D:474:GLU:OE1	3:D:500:ARG:HD3	2.10	0.52
3:D:72:VAL:HG22	3:D:73:CYS:H	1.75	0.52
3:D:853:VAL:HA	3:D:858:VAL:O	2.10	0.52
5:F:269:ASN:CB	5:F:273:ARG:HH21	2.08	0.52
1:K:122:ILE:HG22	1:K:124:ASN:H	1.74	0.52
2:M:418:LEU:N	2:M:418:LEU:HD22	2.25	0.52
2:M:890:LEU:HD11	2:M:901:TYR:CD2	2.45	0.52
2:M:545:ASN:HA	2:M:905:ILE:HG21	1.90	0.52
3:N:1282:ARG:HB3	3:N:1282:ARG:CZ	2.38	0.52
3:N:1311:LEU:HA	3:N:1326:THR:HA	1.91	0.52
3:N:502:PHE:HZ	3:N:1452:ILE:HG13	1.72	0.52
3:N:455:ARG:HH11	3:N:455:ARG:HG2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:545:ARG:O	3:N:549:ASN:HB2	2.09	0.52
3:N:556:LYS:NZ	5:P:218:GLN:NE2	2.55	0.52
4:O:51:LEU:CG	4:O:52:GLU:H	2.16	0.52
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.09	0.52
1:B:24:VAL:HG12	1:B:25:LEU:N	2.25	0.52
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.44	0.52
2:C:841:ASN:O	2:C:841:ASN:ND2	2.25	0.52
3:D:604:THR:HA	3:D:607:LEU:HG	1.91	0.52
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.39	0.52
3:D:915:VAL:O	3:D:918:ALA:N	2.42	0.52
5:F:136:LEU:HD12	5:F:137:GLY:N	2.25	0.52
1:L:94:LEU:HD11	1:L:119:ASP:CB	2.40	0.52
2:M:196:LEU:HA	2:M:199:VAL:HG23	1.91	0.52
2:M:578:VAL:HG23	2:M:579:VAL:CG1	2.30	0.52
3:N:396:VAL:HG12	3:N:397:LYS:N	2.24	0.52
3:N:763:MET:O	3:N:764:LEU:O	2.28	0.52
3:N:760:ARG:HD3	4:O:61:GLU:OE1	2.10	0.52
1:A:51:THR:HG22	1:A:146:ARG:CA	2.39	0.52
1:B:138:LEU:O	1:B:138:LEU:HD23	2.10	0.52
1:B:150:TYR:HA	1:B:169:ALA:O	2.10	0.52
1:B:73:GLU:HB2	1:B:78:ILE:HG12	1.92	0.52
2:C:281:LEU:HD23	2:C:281:LEU:N	2.24	0.52
2:C:841:ASN:HD22	2:C:843:HIS:H	1.58	0.52
3:D:1099:VAL:HG22	3:D:1226:ALA:HB1	1.91	0.52
3:D:1304:LYS:O	3:D:1306:PRO:HD3	2.10	0.52
3:D:1361:VAL:O	3:D:1362:LYS:HD3	2.09	0.52
3:D:1103:HIS:CD2	3:D:1462:LEU:H	2.27	0.52
5:F:140:ARG:HG3	5:F:141:VAL:N	2.25	0.52
1:L:87:VAL:HG21	1:L:144:VAL:CG1	2.40	0.52
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.45	0.52
2:M:1043:TYR:C	2:M:1045:ALA:N	2.64	0.52
2:M:192:PRO:O	2:M:195:LEU:HB3	2.10	0.52
2:M:265:ARG:NE	2:M:267:TYR:HA	2.16	0.52
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.74	0.52
2:M:374:ASN:O	2:M:377:PRO:HD2	2.10	0.52
3:N:1096:ARG:CG	3:N:1096:ARG:HH11	2.23	0.52
3:N:28:LYS:HB3	3:N:30:GLU:HG2	1.92	0.52
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.90	0.52
3:N:646:LYS:HD3	3:N:722:GLU:OE2	2.10	0.52
5:P:169:GLU:O	5:P:172:ARG:HB3	2.09	0.52
3:N:423:ASP:N	5:P:178:ARG:NH1	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:ALA:C	1:A:212:ASN:H	2.12	0.51
1:B:108:GLU:CG	1:B:131:THR:HG22	2.36	0.51
1:B:58:ILE:HB	1:B:61:VAL:HB	1.93	0.51
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.92	0.51
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.10	0.51
2:C:979:THR:C	2:C:981:GLU:N	2.63	0.51
3:D:1442:ASN:HD22	3:D:1446:VAL:CG2	2.23	0.51
3:D:1465:ASN:ND2	3:D:1470:ARG:NH1	2.58	0.51
3:D:1475:GLY:C	3:D:1477:GLY:N	2.61	0.51
3:D:653:PHE:CG	3:D:695:ILE:HD11	2.44	0.51
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.91	0.51
3:D:940:THR:O	3:D:941:PHE:C	2.47	0.51
2:M:138:SER:HA	2:M:339:LEU:HD11	1.92	0.51
2:M:495:THR:CG2	2:M:517:ARG:HE	2.21	0.51
3:N:1116:ASN:N	3:N:1116:ASN:ND2	2.53	0.51
3:N:1271:LYS:HD3	3:N:1271:LYS:C	2.31	0.51
3:N:504:ASP:O	3:N:506:GLY:N	2.43	0.51
3:N:47:GLU:OE1	3:N:52:PRO:HA	2.10	0.51
3:N:668:PRO:HD2	3:N:672:ALA:HB1	1.91	0.51
3:N:759:ALA:HA	3:N:763:MET:HB2	1.91	0.51
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.75	0.51
5:P:102:LEU:O	5:P:103:ALA:C	2.47	0.51
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.92	0.51
3:D:1088:THR:O	3:D:1089:ALA:C	2.47	0.51
3:D:659:LYS:C	3:D:659:LYS:HD3	2.30	0.51
1:L:2:LEU:HA	1:L:6:LEU:HB2	1.92	0.51
2:M:1109:VAL:HG11	3:N:3:LYS:O	2.11	0.51
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.10	0.51
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.74	0.51
2:M:580:MET:HE3	2:M:902:ILE:HD11	1.91	0.51
3:N:1066:THR:HG23	3:N:1069:GLU:CG	2.39	0.51
3:N:1344:VAL:HG11	3:N:1421:LEU:HD22	1.92	0.51
3:N:1465:ASN:OD1	3:N:1465:ASN:O	2.28	0.51
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.92	0.51
3:N:162:ARG:HA	3:N:449:SER:CB	2.40	0.51
3:N:217:LYS:NZ	3:N:219:GLU:HB3	2.25	0.51
3:N:560:GLN:CA	3:N:560:GLN:HE21	2.18	0.51
3:N:711:LEU:O	3:N:712:GLY:C	2.48	0.51
2:C:1044:GLY:O	3:D:1475:GLY:HA3	2.11	0.51
2:C:26:TYR:HA	2:C:29:ALA:CB	2.40	0.51
2:C:7:GLY:HA3	2:C:907:ASP:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1404:ASN:CG	3:D:1408:ILE:HD12	2.31	0.51
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.11	0.51
3:D:547:LEU:O	3:D:548:ILE:C	2.48	0.51
3:D:584:ASN:OD1	3:D:590:PRO:CD	2.54	0.51
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.35	0.51
4:E:44:GLU:O	4:E:45:ARG:HD3	2.10	0.51
5:F:152:ASP:CB	5:F:153:PRO:HD3	2.40	0.51
1:K:18:ARG:O	1:K:207:PRO:HD3	2.11	0.51
2:M:1101:THR:O	2:M:1102:LEU:HD12	2.10	0.51
2:M:279:GLU:OE2	2:M:280:LYS:HE3	2.10	0.51
2:M:335:THR:O	2:M:339:LEU:HG	2.11	0.51
2:M:517:ARG:HH11	2:M:517:ARG:HG3	1.76	0.51
2:M:535:SER:OG	2:M:537:LYS:HD3	2.09	0.51
2:M:544:THR:HG22	2:M:550:LEU:HD21	1.93	0.51
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.92	0.51
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.09	0.51
3:N:1478:SER:C	3:N:1480:PHE:N	2.63	0.51
3:N:401:TYR:N	3:N:402:PRO:HD3	2.26	0.51
3:N:103:TRP:NE1	3:N:583:ASP:OD2	2.42	0.51
3:N:950:GLY:O	3:N:953:ASP:N	2.43	0.51
5:P:214:GLN:O	5:P:217:ASN:N	2.44	0.51
5:P:396:ARG:CA	5:P:399:GLN:HB2	2.40	0.51
5:P:95:THR:HG22	5:P:96:LEU:HG	1.92	0.51
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.40	0.51
2:C:759:THR:HB	2:C:785:VAL:HG21	1.91	0.51
2:C:983:ILE:O	2:C:985:GLY:N	2.43	0.51
2:C:1047:HIS:ND1	3:D:1471:LEU:HD13	2.25	0.51
3:D:159:ARG:HG3	3:D:159:ARG:NH1	2.24	0.51
3:D:135:LEU:CD1	3:D:452:ILE:HD11	2.39	0.51
3:D:137:PRO:HD2	3:D:453:ASP:HB3	1.91	0.51
3:D:895:VAL:C	3:D:897:TRP:H	2.14	0.51
3:D:935:LYS:HG2	3:D:935:LYS:O	2.10	0.51
1:K:23:PHE:O	1:K:196:THR:HA	2.10	0.51
1:K:5:LYS:HE3	1:K:5:LYS:HA	1.93	0.51
1:L:137:ARG:HH22	1:L:139:ASN:HD22	1.58	0.51
2:M:1000:MET:CE	2:M:1001:VAL:HG22	2.39	0.51
2:M:561:GLY:C	2:M:563:ASN:N	2.63	0.51
2:M:881:ASN:N	2:M:881:ASN:ND2	2.56	0.51
3:N:1425:THR:HG22	3:N:1426:LYS:N	2.24	0.51
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.10	0.51
3:N:188:GLY:HA2	3:N:210:ARG:NH1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:477:LEU:HD22	3:N:492:ALA:O	2.10	0.51
3:N:900:ILE:C	3:N:901:GLN:HG2	2.30	0.51
5:P:300:ASP:CG	5:P:301:ALA:N	2.63	0.51
5:P:325:LYS:HB3	5:P:326:ASP:OD1	2.10	0.51
5:P:365:GLU:HA	5:P:368:VAL:HB	1.91	0.51
1:A:132:LEU:HD12	1:A:132:LEU:N	2.25	0.51
1:A:210:ALA:C	1:A:212:ASN:N	2.64	0.51
1:B:59:GLU:OE1	1:B:137:ARG:HG2	2.11	0.51
2:C:266:ARG:HG2	2:C:273:GLY:HA3	1.93	0.51
2:C:549:PHE:CE2	2:C:887:GLU:N	2.76	0.51
2:C:896:PHE:CZ	2:C:925:TYR:HB2	2.46	0.51
3:D:1000:THR:HG23	3:D:1041:LEU:HD21	1.92	0.51
3:D:568:ARG:O	3:D:571:LYS:N	2.44	0.51
3:D:65:ARG:CG	3:D:66:GLN:H	2.24	0.51
3:D:91:GLY:O	3:D:519:VAL:HB	2.11	0.51
4:E:40:LEU:HD13	4:E:45:ARG:HD2	1.92	0.51
1:L:132:LEU:HD21	1:L:138:LEU:HB2	1.92	0.51
2:M:244:PRO:CD	2:M:245:GLY:N	2.74	0.51
2:M:288:ARG:HD3	2:M:288:ARG:O	2.11	0.51
2:M:393:GLN:OE1	2:M:393:GLN:N	2.40	0.51
2:M:580:MET:HB2	2:M:902:ILE:HG12	1.92	0.51
2:M:599:GLU:HA	2:M:651:LYS:CB	2.40	0.51
3:N:427:VAL:O	3:N:433:GLY:O	2.28	0.51
3:N:987:GLU:O	3:N:991:GLN:HB2	2.10	0.51
5:P:261:PRO:O	5:P:265:VAL:HG23	2.11	0.51
2:C:18:LEU:HD12	2:C:18:LEU:H	1.75	0.51
2:C:221:LEU:HG	2:C:221:LEU:O	2.10	0.51
2:C:486:MET:HE2	2:C:496:ILE:HD11	1.93	0.51
2:C:559:LEU:O	2:C:562:SER:N	2.44	0.51
3:D:1138:ALA:O	3:D:1140:ILE:N	2.43	0.51
3:D:396:VAL:HG12	3:D:397:LYS:N	2.24	0.51
3:D:541:ASN:O	3:D:545:ARG:HG3	2.11	0.51
3:D:596:SER:C	3:D:598:ARG:H	2.13	0.51
3:D:679:ARG:NH2	3:D:681:ARG:HE	2.06	0.51
3:D:681:ARG:HG3	3:D:682:ASP:N	2.26	0.51
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.92	0.51
3:D:625:TYR:CE1	3:D:751:LEU:HD11	2.45	0.51
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.25	0.51
1:K:13:VAL:HG12	1:K:14:ARG:H	1.74	0.51
1:L:132:LEU:N	1:L:132:LEU:HD12	2.25	0.51
2:M:1059:ASP:OD2	2:M:1080:SER:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.92	0.51
2:M:494:TYR:CD1	2:M:531:PHE:CE1	2.99	0.51
2:M:397:GLU:HG2	2:M:632:ASN:HB2	1.93	0.51
2:M:745:ILE:HG22	2:M:746:GLY:H	1.75	0.51
3:N:1135:ARG:CB	3:N:1135:ARG:HH11	2.22	0.51
3:N:1135:ARG:C	3:N:1136:LYS:O	2.45	0.51
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.10	0.51
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	2.07	0.51
3:N:1478:SER:O	3:N:1480:PHE:N	2.44	0.51
3:N:172:PRO:CB	3:N:178:LEU:HD22	2.41	0.51
3:N:40:GLU:CG	3:N:41:ARG:H	2.19	0.51
3:N:660:LYS:O	3:N:664:LYS:HB2	2.10	0.51
4:O:40:LEU:HB2	4:O:45:ARG:NE	2.25	0.51
5:P:170:HIS:O	5:P:173:TYR:HB2	2.11	0.51
3:N:560:GLN:HG2	5:P:221:ILE:HG21	1.93	0.51
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.31	0.51
2:C:717:LEU:HD21	2:C:764:GLU:O	2.11	0.51
2:C:704:HIS:CD2	2:C:831:ARG:HH22	2.28	0.51
3:D:1368:ILE:O	3:D:1368:ILE:HG22	2.11	0.51
3:D:493:ARG:HE	3:D:1389:LEU:CD2	2.23	0.51
3:D:783:ARG:HE	3:D:1029:ARG:CZ	2.24	0.51
4:E:40:LEU:HB2	4:E:45:ARG:NE	2.25	0.51
5:F:120:THR:CG2	5:F:122:LEU:HD13	2.20	0.51
1:K:189:ARG:NH1	1:L:155:LYS:CE	2.74	0.51
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.92	0.51
3:N:1313:VAL:HG23	3:N:1314:LYS:NZ	2.25	0.51
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	1.92	0.51
3:N:35:ARG:CB	3:N:35:ARG:HH11	2.23	0.51
1:A:101:LEU:HD12	1:A:102:LYS:N	2.26	0.51
1:A:20:TYR:OH	1:A:198:ARG:NH2	2.44	0.51
2:C:1050:GLN:HG3	3:D:1469:GLY:O	2.11	0.51
2:C:1117:SER:O	3:D:23:TYR:OH	2.19	0.51
2:C:1:MET:SD	2:C:900:ARG:NH1	2.84	0.51
2:C:607:ASP:HB2	2:C:610:ARG:CG	2.41	0.51
2:C:724:ARG:C	2:C:725:ASP:OD2	2.49	0.51
2:C:734:LEU:CD1	2:C:737:LEU:HD22	2.41	0.51
3:D:1105:ILE:HD11	3:D:1374:GLN:CD	2.30	0.51
3:D:186:VAL:HG13	3:D:187:LYS:N	2.26	0.51
5:F:101:GLU:O	5:F:105:LYS:HG3	2.11	0.51
1:K:110:LYS:N	1:K:113:ASP:OD2	2.41	0.51
1:K:109:VAL:CG2	1:K:132:LEU:HD13	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1018:GLN:CG	2:M:1060:ILE:HD11	2.30	0.51
2:M:682:TYR:CG	3:N:635:PRO:HG2	2.45	0.51
2:M:686:ASP:O	3:N:740:PHE:HB2	2.11	0.51
2:M:766:GLU:OE1	3:N:54:LYS:HG2	2.11	0.51
3:N:23:TYR:O	3:N:24:GLY:O	2.29	0.51
3:N:208:PRO:HB2	3:N:395:VAL:CG1	2.41	0.51
3:N:553:ARG:NE	5:P:214:GLN:HB3	2.25	0.51
4:O:14:ASP:OD1	4:O:18:ARG:NH1	2.44	0.51
5:P:132:ARG:HB3	5:P:136:LEU:HD21	1.91	0.51
5:P:360:LYS:O	5:P:361:LEU:HD23	2.10	0.51
1:A:124:ASN:OD1	1:A:127:LEU:HB3	2.10	0.51
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.11	0.51
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.09	0.51
3:D:1147:ARG:HB2	3:D:1188:VAL:HG21	1.93	0.51
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.46	0.51
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.93	0.51
3:D:877:PRO:O	3:D:880:ILE:HG22	2.10	0.51
5:F:368:VAL:HG11	5:F:389:PHE:HA	1.93	0.51
2:M:226:VAL:O	2:M:230:ARG:HD3	2.11	0.51
2:M:585:GLU:HG2	2:M:665:PHE:HE2	1.76	0.51
2:M:910:LYS:CB	2:M:913:GLU:HG3	2.39	0.51
2:M:99:GLN:HG3	2:M:99:GLN:O	2.10	0.51
3:N:1200:VAL:HG22	3:N:1373:ARG:NH1	2.26	0.51
3:N:1083:ASP:OD1	3:N:1238:MET:HB3	2.11	0.51
3:N:386:HIS:C	3:N:387:LEU:HD13	2.31	0.51
3:N:426:LYS:HA	3:N:434:ARG:HD2	1.92	0.51
3:N:553:ARG:O	3:N:554:LEU:C	2.49	0.51
3:N:679:ARG:HH11	3:N:682:ASP:CG	2.14	0.51
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.11	0.51
5:P:105:LYS:HZ2	5:P:105:LYS:HB3	1.73	0.51
5:P:152:ASP:CB	5:P:153:PRO:HD3	2.35	0.51
5:P:321:ILE:HG13	5:P:329:TYR:HA	1.93	0.51
1:B:86:VAL:H	1:B:124:ASN:HB2	1.75	0.51
2:C:774:LEU:HD13	2:C:775:ARG:N	2.26	0.51
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.41	0.51
2:C:946:ARG:CD	2:C:984:GLU:HB2	2.40	0.51
2:C:889:HIS:CE1	2:C:970:GLY:HA3	2.46	0.51
3:D:1202:GLN:HG2	3:D:1215:VAL:HG13	1.93	0.51
3:D:1227:GLN:O	3:D:1230:GLY:N	2.44	0.51
3:D:1313:VAL:HG22	3:D:1314:LYS:N	2.19	0.51
3:D:1404:ASN:OD1	3:D:1408:ILE:HD12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:247:GLU:H	3:D:248:PRO:CD	2.22	0.51
3:D:703:ASN:ND2	3:D:704:ARG:N	2.59	0.51
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.40	0.51
2:M:1032:PHE:HB2	3:N:623:VAL:CG2	2.41	0.51
3:N:1295:GLU:HB3	3:N:1300:SER:CA	2.35	0.51
3:N:140:ALA:N	3:N:147:VAL:HG22	2.26	0.51
3:N:637:LEU:HD23	3:N:729:HIS:N	2.25	0.51
3:N:675:ARG:HH11	3:N:675:ARG:CB	2.24	0.51
5:P:214:GLN:O	5:P:215:GLU:C	2.48	0.51
2:C:154:ARG:HB2	2:C:154:ARG:NH1	2.26	0.50
2:C:226:VAL:HG13	2:C:227:PHE:N	2.22	0.50
2:C:256:TYR:O	2:C:259:GLY:N	2.44	0.50
3:D:1312:LEU:HD11	3:D:1327:ARG:HG3	1.93	0.50
3:D:1368:ILE:O	3:D:1372:VAL:CG2	2.58	0.50
3:D:166:GLN:NE2	3:D:168:THR:OG1	2.43	0.50
3:D:378:ILE:HD13	3:D:378:ILE:H	1.76	0.50
3:D:581:LEU:HG	3:D:582:LEU:N	2.26	0.50
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.92	0.50
3:D:884:ARG:HA	3:D:887:ALA:HB3	1.92	0.50
2:C:1021:LEU:HD22	5:F:331:ASP:O	2.11	0.50
1:L:152:PRO:HG3	3:N:857:ILE:HD12	1.93	0.50
2:M:196:LEU:O	2:M:199:VAL:HB	2.11	0.50
2:M:21:ILE:HD12	2:M:21:ILE:N	2.21	0.50
2:M:404:LEU:O	2:M:408:ARG:HG2	2.10	0.50
2:M:575:GLN:O	2:M:667:ALA:CB	2.59	0.50
2:M:777:ILE:HG22	2:M:778:PHE:HD1	1.76	0.50
1:K:178:ALA:HB2	2:M:864:GLY:H	1.76	0.50
3:N:1243:THR:O	3:N:1269:LYS:HD3	2.11	0.50
3:N:142:LEU:HD12	3:N:142:LEU:O	2.11	0.50
3:N:1461:GLY:O	3:N:1473:PRO:HG2	2.11	0.50
3:N:187:LYS:HZ3	3:N:213:VAL:HB	1.75	0.50
3:N:639:LEU:HD22	3:N:765:SER:OG	2.11	0.50
3:N:65:ARG:HG3	3:N:66:GLN:N	2.27	0.50
3:N:692:GLU:O	3:N:695:ILE:HG22	2.11	0.50
3:N:930:LEU:HD11	3:N:934:LEU:CD1	2.41	0.50
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.93	0.50
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.06	0.50
1:B:179:PHE:HA	1:B:196:THR:O	2.11	0.50
1:B:25:LEU:CD2	1:B:28:LEU:HD11	2.41	0.50
2:C:1010:THR:CG2	2:C:1011:GLY:N	2.74	0.50
2:C:333:ILE:HD13	2:C:467:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.93	0.50
2:C:859:PRO:O	2:C:867:VAL:HG22	2.12	0.50
3:D:1074:SER:O	3:D:1077:ALA:CB	2.59	0.50
3:D:1278:ASP:N	3:D:1278:ASP:OD1	2.43	0.50
3:D:1487:VAL:HG12	3:D:1488:ASP:O	2.11	0.50
3:D:221:ALA:HB3	3:D:367:ILE:HB	1.93	0.50
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.46	0.50
1:L:226:SER:O	1:L:228:PRO:HD3	2.11	0.50
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.37	0.50
2:M:705:ILE:HG22	2:M:705:ILE:O	2.10	0.50
3:N:387:LEU:HG	5:P:97:GLU:HB2	1.93	0.50
3:N:685:ASP:O	3:N:687:VAL:N	2.44	0.50
2:M:949:LYS:NZ	3:N:796:ARG:NH2	2.59	0.50
3:N:959:GLU:O	3:N:963:TYR:HD1	1.94	0.50
4:O:53:GLY:C	4:O:55:PHE:H	2.14	0.50
5:P:152:ASP:HB2	5:P:153:PRO:CD	2.36	0.50
5:P:256:ARG:HG2	5:P:256:ARG:HH11	1.76	0.50
1:B:156:HIS:CD2	1:B:156:HIS:H	2.29	0.50
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.36	0.50
3:D:1033:GLN:NE2	3:D:1036:ARG:NH1	2.59	0.50
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.12	0.50
3:D:1331:ASP:CG	3:D:1334:GLN:HG3	2.32	0.50
3:D:484:PRO:O	3:D:489:ARG:HD2	2.11	0.50
3:D:818:ARG:O	3:D:821:VAL:HB	2.11	0.50
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.79	0.50
5:F:148:LYS:O	5:F:148:LYS:HE3	2.11	0.50
1:K:11:PHE:O	1:K:12:THR:C	2.50	0.50
1:K:146:ARG:NH2	1:K:148:VAL:HG13	2.26	0.50
1:L:133:GLU:CG	1:L:134:GLU:N	2.75	0.50
2:M:157:ARG:NE	2:M:314:THR:HA	2.26	0.50
2:M:545:ASN:OD1	2:M:905:ILE:HG21	2.11	0.50
2:M:586:ARG:O	2:M:589:ARG:N	2.36	0.50
2:M:607:ASP:HB2	2:M:610:ARG:H	1.75	0.50
3:N:1034:GLN:O	3:N:1038:LEU:HD13	2.12	0.50
2:M:432:ARG:HH12	3:N:1047:LYS:HZ3	1.58	0.50
3:N:1176:LYS:HA	3:N:1179:GLU:CD	2.31	0.50
3:N:119:SER:H	3:N:123:LEU:HD12	1.76	0.50
3:N:1234:THR:C	3:N:1236:LEU:H	2.14	0.50
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.92	0.50
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.76	0.50
3:N:493:ARG:NE	3:N:1389:LEU:HD21	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.93	0.50
1:A:138:LEU:O	1:A:138:LEU:HG	2.11	0.50
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.94	0.50
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.93	0.50
2:C:71:TYR:CD2	2:C:71:TYR:N	2.79	0.50
2:C:805:ARG:O	2:C:806:LEU:HD23	2.11	0.50
3:D:9:ARG:HH22	3:D:11:ALA:CB	2.24	0.50
3:D:1373:ARG:CG	3:D:1374:GLN:HE21	2.24	0.50
3:D:382:GLU:HG2	3:D:383:GLY:N	2.18	0.50
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.94	0.50
3:D:651:GLU:OE1	3:D:654:LYS:HE3	2.11	0.50
3:D:972:LEU:HD23	3:D:973:GLN:N	2.25	0.50
3:D:598:ARG:HH12	5:F:320:PRO:HD3	1.77	0.50
1:L:18:ARG:C	1:L:19:GLU:OE1	2.49	0.50
1:L:2:LEU:HD12	1:L:3:ASP:H	1.77	0.50
2:M:15:LEU:N	2:M:15:LEU:HD12	2.25	0.50
2:M:367:LEU:O	2:M:371:LYS:HB3	2.10	0.50
2:M:350:ARG:CB	2:M:377:PRO:HB3	2.38	0.50
2:M:398:THR:HG22	2:M:635:THR:HG21	1.91	0.50
2:M:465:GLY:O	2:M:466:PHE:HD1	1.95	0.50
3:N:1498:ALA:O	3:N:1501:GLU:HB2	2.12	0.50
1:A:200:TRP:O	1:A:201:THR:OG1	2.26	0.50
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.93	0.50
2:C:1038:TRP:O	3:D:1223:ILE:HG21	2.12	0.50
2:C:445:GLU:HG3	2:C:446:GLY:H	1.77	0.50
2:C:495:THR:HG23	2:C:517:ARG:HE	1.76	0.50
2:C:515:ALA:O	2:C:522:VAL:O	2.29	0.50
2:C:627:ARG:O	2:C:638:ASP:HA	2.11	0.50
3:D:493:ARG:NE	3:D:1389:LEU:HD21	2.26	0.50
3:D:659:LYS:HE2	3:D:663:GLU:OE1	2.12	0.50
3:D:724:GLN:CG	3:D:724:GLN:O	2.58	0.50
3:D:752:SER:C	3:D:754:PHE:N	2.65	0.50
3:D:843:PHE:HZ	3:D:858:VAL:HG21	1.76	0.50
5:F:155:THR:O	5:F:159:ILE:HG13	2.12	0.50
2:M:1052:MET:HG3	3:N:623:VAL:HG21	1.93	0.50
2:M:1059:ASP:OD1	2:M:1062:GLY:N	2.38	0.50
2:M:196:LEU:HA	2:M:199:VAL:CG2	2.42	0.50
2:M:397:GLU:N	2:M:633:GLN:OE1	2.45	0.50
2:M:72:ARG:HH11	2:M:72:ARG:HG3	1.77	0.50
2:M:82:GLU:O	2:M:86:LYS:HB2	2.11	0.50
2:M:839:LEU:HD12	2:M:994:ILE:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1494:ALA:HA	3:N:1497:GLU:HG2	1.94	0.50
3:N:404:GLU:OE1	3:N:414:ARG:NE	2.45	0.50
3:N:759:ALA:HA	3:N:763:MET:CB	2.42	0.50
4:O:36:LYS:C	4:O:38:THR:H	2.14	0.50
5:P:172:ARG:O	5:P:176:ILE:HG13	2.11	0.50
5:P:135:ILE:HG21	5:P:181:GLU:HB3	1.93	0.50
5:P:340:SER:O	5:P:343:ASP:N	2.43	0.50
1:A:201:THR:HG22	1:A:202:ASP:N	2.26	0.50
1:A:64:GLU:O	1:A:76:VAL:HG22	2.12	0.50
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.94	0.50
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.41	0.50
2:C:689:VAL:HG11	2:C:853:LEU:HD22	1.93	0.50
3:D:225:LEU:HB2	3:D:227:LEU:CD2	2.41	0.50
3:D:34:TYR:CE2	5:F:260:ILE:HG13	2.47	0.50
3:D:804:LEU:HD12	3:D:831:GLY:HA3	1.93	0.50
3:D:930:LEU:HA	3:D:933:ALA:HB3	1.93	0.50
4:E:46:PRO:CB	4:E:54:LEU:HD22	2.41	0.50
4:E:48:MET:H	4:E:54:LEU:HB2	1.76	0.50
1:K:13:VAL:CG1	1:K:14:ARG:H	2.25	0.50
1:K:206:THR:HG22	1:K:209:GLU:HB2	1.94	0.50
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.44	0.50
2:M:1086:ARG:HD3	2:M:1112:PHE:CE2	2.47	0.50
2:M:413:LEU:HD11	2:M:451:LEU:HB3	1.92	0.50
3:N:1131:SER:O	3:N:1132:LEU:C	2.50	0.50
3:N:1277:ILE:CG2	3:N:1278:ASP:N	2.73	0.50
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.77	0.50
3:N:793:THR:O	3:N:905:PRO:HA	2.10	0.50
5:P:410:TYR:O	5:P:414:ARG:HG3	2.12	0.50
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.12	0.50
1:B:123:MET:C	1:B:125:PRO:HD3	2.32	0.50
1:B:23:PHE:CE1	1:B:208:LEU:HD13	2.47	0.50
2:C:128:ILE:HG22	2:C:128:ILE:O	2.10	0.50
2:C:25:SER:O	2:C:29:ALA:HB2	2.11	0.50
2:C:137:VAL:HG13	2:C:409:ARG:O	2.11	0.50
2:C:534:VAL:O	2:C:535:SER:HB3	2.11	0.50
2:C:630:ARG:HD2	2:C:634:GLY:HA2	1.93	0.50
2:C:911:GLU:O	2:C:915:LYS:HG2	2.12	0.50
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.94	0.50
3:D:1406:ARG:HG2	3:D:1406:ARG:O	2.10	0.50
3:D:218:LYS:HE3	3:D:371:ILE:H	1.77	0.50
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:167:PRO:HB2	5:F:170:HIS:HD2	1.77	0.50
5:F:192:LEU:HD23	5:F:195:VAL:HG21	1.93	0.50
1:L:15:THR:O	1:L:16:GLN:OE1	2.30	0.50
1:L:86:VAL:O	1:L:86:VAL:HG13	2.12	0.50
2:M:137:VAL:CG2	2:M:393:GLN:NE2	2.70	0.50
2:M:755:LEU:O	2:M:756:VAL:CG2	2.60	0.50
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.94	0.50
3:N:1274:ILE:H	3:N:1274:ILE:HD12	1.77	0.50
3:N:230:TRP:O	3:N:378:ILE:HD11	2.12	0.50
3:N:600:LEU:HD23	3:N:600:LEU:H	1.75	0.50
3:N:629:SER:HB3	3:N:726:ILE:CG1	2.41	0.50
3:N:638:LYS:O	3:N:640:HIS:N	2.45	0.50
3:N:1209:LEU:HD23	4:O:16:LYS:HD2	1.93	0.50
4:O:19:LEU:O	4:O:22:VAL:HB	2.11	0.50
1:A:90:LEU:HD12	1:A:119:ASP:O	2.12	0.50
1:A:185:ARG:C	1:A:186:LEU:HD12	2.32	0.50
2:C:1092:LEU:HD11	3:D:1447:LEU:HD21	1.93	0.50
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.77	0.50
2:C:819:VAL:HG11	2:C:822:VAL:HG13	1.94	0.50
2:C:881:ASN:N	2:C:881:ASN:ND2	2.58	0.50
2:C:884:GLN:HG3	2:C:992:MET:CE	2.42	0.50
3:D:1443:THR:O	3:D:1444:THR:C	2.50	0.50
3:D:135:LEU:HD11	3:D:452:ILE:CD1	2.41	0.50
3:D:583:ASP:OD1	3:D:604:THR:CG2	2.55	0.50
3:D:671:LYS:O	3:D:674:ARG:HB2	2.12	0.50
5:F:191:ASN:N	5:F:191:ASN:HD22	2.10	0.50
1:L:132:LEU:HD21	1:L:138:LEU:HB3	1.94	0.50
2:M:207:LEU:CD2	2:M:211:LEU:HD22	2.42	0.50
2:M:276:LYS:HG2	2:M:280:LYS:NZ	2.27	0.50
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.93	0.50
2:M:769:PRO:O	2:M:772:ARG:HB3	2.12	0.50
2:M:838:LYS:HD3	2:M:846:LYS:HE2	1.92	0.50
3:N:1316:GLY:O	3:N:1317:ASP:OD1	2.30	0.50
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.12	0.50
3:N:172:PRO:HG3	3:N:178:LEU:HD22	1.93	0.50
3:N:769:LEU:CD2	3:N:927:THR:HG22	2.42	0.50
5:P:205:ARG:CB	5:P:251:ILE:HD13	2.42	0.50
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.39	0.50
1:B:190:THR:O	1:B:190:THR:HG22	2.12	0.50
2:C:403:SER:CB	2:C:407:LYS:HZ3	2.24	0.50
2:C:884:GLN:HG3	2:C:992:MET:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1076:GLY:C	3:D:1079:LYS:HG2	2.33	0.50
3:D:1118:ILE:HD11	3:D:1346:ARG:CZ	2.42	0.50
3:D:1487:VAL:CG1	3:D:1488:ASP:N	2.75	0.50
5:F:370:LYS:O	5:F:374:GLY:HA3	2.11	0.50
1:K:11:PHE:HE1	1:L:225:PHE:HD2	1.60	0.50
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.47	0.50
2:M:491:GLU:HB2	2:M:496:ILE:CD1	2.32	0.50
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.93	0.50
2:M:52:PHE:O	2:M:54:ILE:N	2.45	0.50
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.41	0.50
2:M:888:THR:O	2:M:892:LEU:N	2.39	0.50
1:K:181:VAL:HG12	2:M:938:LYS:HD2	1.94	0.50
3:N:1466:VAL:O	3:N:1467:ILE:C	2.50	0.50
3:N:462:GLN:HG3	3:N:466:LYS:HE3	1.94	0.50
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.12	0.50
3:N:585:GLY:C	3:N:587:ARG:H	2.15	0.50
5:P:101:GLU:O	5:P:104:ARG:HB3	2.11	0.50
5:P:135:ILE:CD1	5:P:178:ARG:HD2	2.42	0.50
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.93	0.49
1:B:87:VAL:CG1	1:B:122:ILE:HG12	2.42	0.49
2:C:129:ILE:N	2:C:129:ILE:HD12	2.27	0.49
2:C:129:ILE:HG22	2:C:130:ASN:N	2.27	0.49
2:C:774:LEU:HD13	2:C:774:LEU:C	2.32	0.49
2:C:758:ARG:NH2	2:C:788:THR:O	2.45	0.49
2:C:897:LEU:CD1	2:C:921:ALA:HB2	2.30	0.49
3:D:1093:TYR:CD1	3:D:1093:TYR:C	2.85	0.49
3:D:1441:GLN:CA	3:D:1441:GLN:HE21	2.25	0.49
3:D:225:LEU:HB3	3:D:226:PRO:CD	2.42	0.49
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.12	0.49
3:D:714:GLN:NE2	3:D:735:ALA:HB1	2.26	0.49
3:D:77:GLY:O	3:D:78:VAL:HG23	2.12	0.49
3:D:899:LEU:CD1	3:D:899:LEU:H	2.23	0.49
3:D:951:ILE:HD12	3:D:1062:ARG:HE	1.77	0.49
5:F:287:THR:HG23	5:F:289:GLU:N	2.20	0.49
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.11	0.49
1:K:146:ARG:HH21	1:K:147:GLY:HA2	1.76	0.49
1:K:147:GLY:O	1:K:148:VAL:HG13	2.12	0.49
1:L:92:PRO:C	1:L:94:LEU:H	2.15	0.49
2:M:313:LEU:HD13	2:M:321:GLU:O	2.12	0.49
2:M:533:ASP:HB3	2:M:538:GLN:NE2	2.26	0.49
3:N:119:SER:HB2	3:N:123:LEU:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1102:THR:HG22	3:N:1222:GLY:HA3	1.94	0.49
3:N:1470:ARG:HG2	3:N:1471:LEU:N	2.27	0.49
3:N:486:ARG:NH2	3:N:489:ARG:NE	2.59	0.49
3:N:601:ARG:NH1	3:N:605:ASP:O	2.45	0.49
3:N:658:LEU:HD22	3:N:673:ALA:HB3	1.94	0.49
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.41	0.49
3:N:765:SER:C	3:N:767:HIS:H	2.15	0.49
2:M:1013:TYR:HE2	5:P:341:PRO:HD2	1.77	0.49
1:A:143:ARG:HH21	1:A:158:ILE:HG13	1.76	0.49
1:A:228:PRO:HA	1:B:11:PHE:O	2.11	0.49
2:C:1024:LYS:HZ2	2:C:1024:LYS:HB2	1.78	0.49
2:C:631:SER:OG	2:C:635:THR:N	2.44	0.49
2:C:796:GLU:HA	2:C:796:GLU:OE2	2.12	0.49
2:C:919:ALA:CA	2:C:968:LEU:HD21	2.42	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.42	0.49
3:D:1334:GLN:O	3:D:1335:LEU:C	2.51	0.49
3:D:660:LYS:HA	3:D:663:GLU:HG3	1.93	0.49
3:D:710:ARG:HG3	3:D:711:LEU:H	1.75	0.49
3:D:951:ILE:HG23	3:D:1062:ARG:NH2	2.26	0.49
3:D:988:ARG:NH2	3:D:1054:GLU:OE2	2.45	0.49
5:F:385:GLU:O	5:F:388:ALA:HB3	2.12	0.49
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.60	0.49
1:K:225:PHE:CD2	1:L:215:VAL:HG11	2.47	0.49
1:L:66:SER:O	1:L:75:VAL:HG23	2.11	0.49
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.47	0.49
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.94	0.49
2:M:348:LEU:O	2:M:351:LEU:HB3	2.12	0.49
2:M:382:ILE:O	2:M:385:PHE:HB3	2.11	0.49
2:M:470:PRO:HB2	2:M:534:VAL:CG2	2.42	0.49
2:M:814:GLU:HG3	2:M:814:GLU:O	2.12	0.49
2:M:944:LEU:HD21	2:M:963:LEU:CD2	2.41	0.49
3:N:212:ARG:HB3	3:N:394:LEU:HD22	1.94	0.49
3:N:664:LYS:HB3	3:N:666:ILE:HG13	1.94	0.49
3:N:806:PHE:O	3:N:808:THR:N	2.45	0.49
5:P:284:ARG:O	5:P:286:PRO:HD3	2.11	0.49
2:C:385:PHE:HD2	2:C:386:PHE:CD1	2.30	0.49
2:C:771:GLU:CG	2:C:771:GLU:O	2.58	0.49
1:B:42:ARG:NH1	2:C:981:GLU:HG2	2.27	0.49
2:C:67:ASP:HB2	2:C:99:GLN:CG	2.42	0.49
3:D:1130:ARG:HG2	3:D:1130:ARG:HH11	1.76	0.49
3:D:1145:TYR:C	3:D:1145:TYR:CD2	2.84	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.42	0.49
3:D:679:ARG:CZ	3:D:681:ARG:HG2	2.42	0.49
1:L:2:LEU:HA	1:L:6:LEU:CB	2.42	0.49
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.12	0.49
2:M:265:ARG:HE	2:M:267:TYR:CA	2.14	0.49
2:M:474:VAL:HG13	2:M:474:VAL:O	2.13	0.49
2:M:603:VAL:HG23	2:M:647:GLN:O	2.11	0.49
2:M:677:MET:O	2:M:873:PRO:HD3	2.13	0.49
2:M:704:HIS:CE1	2:M:706:GLU:OE1	2.66	0.49
3:N:1304:LYS:O	3:N:1305:LEU:HG	2.12	0.49
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.93	0.49
3:N:1372:VAL:HA	3:N:1375:MET:SD	2.52	0.49
3:N:539:ASP:HB2	5:P:318:GLU:OE1	2.12	0.49
3:N:600:LEU:HD23	3:N:600:LEU:N	2.27	0.49
3:N:828:LYS:HB3	3:N:862:ASP:OD2	2.13	0.49
3:N:215:TYR:HH	5:P:101:GLU:HB2	1.77	0.49
5:P:350:LEU:CA	5:P:422:LEU:HD13	2.33	0.49
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.42	0.49
2:C:338:GLU:HA	2:C:341:THR:HG22	1.93	0.49
2:C:762:LYS:HZ1	2:C:762:LYS:HB2	1.75	0.49
3:D:1153:VAL:HG12	3:D:1155:VAL:HG22	1.94	0.49
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.94	0.49
3:D:564:GLU:C	3:D:566:ILE:H	2.16	0.49
3:D:785:ILE:O	3:D:789:LEU:HG	2.11	0.49
3:D:85:VAL:CG1	3:D:89:ARG:NE	2.76	0.49
5:F:242:TRP:O	5:F:245:GLN:HB2	2.12	0.49
5:F:99:GLU:O	5:F:103:ALA:HB2	2.11	0.49
1:K:44:LEU:HD23	1:K:48:ILE:HD11	1.94	0.49
2:M:91:GLN:HE21	2:M:119:PRO:HG3	1.77	0.49
2:M:417:GLY:O	2:M:418:LEU:HD13	2.12	0.49
3:N:1343:ALA:O	3:N:1346:ARG:N	2.45	0.49
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.95	0.49
3:N:661:MET:CE	3:N:673:ALA:HB1	2.43	0.49
3:N:729:HIS:CG	3:N:730:PRO:HD2	2.47	0.49
3:N:9:ARG:HG2	3:N:9:ARG:O	2.12	0.49
1:B:15:THR:HG23	1:B:15:THR:O	2.11	0.49
2:C:19:THR:CG2	2:C:23:VAL:HG23	2.42	0.49
2:C:693:GLU:OE1	2:C:696:LYS:CD	2.60	0.49
2:C:729:LEU:HD11	5:F:419:ARG:HH21	1.76	0.49
3:D:172:PRO:HB3	3:D:178:LEU:HB3	1.95	0.49
3:D:559:ALA:C	3:D:561:GLY:N	2.63	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.38	0.49
3:D:65:ARG:HG3	3:D:66:GLN:N	2.27	0.49
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.93	0.49
2:M:260:LEU:O	2:M:260:LEU:HD12	2.12	0.49
2:M:449:ILE:CG2	2:M:449:ILE:O	2.61	0.49
2:M:946:ARG:HD2	2:M:984:GLU:HB2	1.93	0.49
3:N:1343:ALA:C	3:N:1345:GLU:H	2.16	0.49
3:N:15:PRO:O	3:N:19:ARG:HG3	2.13	0.49
2:M:713:ARG:NH1	3:N:531:ASP:HB3	2.27	0.49
3:N:638:LYS:O	3:N:639:LEU:C	2.50	0.49
3:N:909:ASN:HA	3:N:912:LYS:HB3	1.94	0.49
1:A:85:LEU:HD11	1:A:122:ILE:HG23	1.94	0.49
1:A:162:ILE:HG13	1:A:163:ASN:N	2.28	0.49
2:C:1045:ALA:CB	3:D:758:GLU:OE2	2.61	0.49
2:C:432:ARG:N	2:C:432:ARG:HD3	2.28	0.49
2:C:630:ARG:HH21	2:C:707:ARG:N	2.10	0.49
2:C:721:ARG:HE	2:C:783:ARG:NH2	2.10	0.49
2:C:861:LEU:O	2:C:863:ASP:N	2.45	0.49
3:D:222:GLY:HA2	3:D:366:LYS:HA	1.94	0.49
3:D:828:LYS:H	3:D:828:LYS:HD3	1.77	0.49
3:D:838:ARG:HG2	3:D:865:THR:OG1	2.12	0.49
5:F:276:ARG:NH1	5:F:276:ARG:HG3	2.26	0.49
1:L:206:THR:CG2	1:L:209:GLU:CD	2.81	0.49
2:M:1072:LYS:O	3:N:659:LYS:NZ	2.40	0.49
2:M:1082:PRO:HG2	3:N:1469:GLY:CA	2.39	0.49
2:M:348:LEU:H	2:M:348:LEU:HD12	1.77	0.49
2:M:952:LEU:HG	2:M:986:PRO:HG2	1.93	0.49
2:M:971:LYS:CD	2:M:986:PRO:HB2	2.42	0.49
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.12	0.49
3:N:1395:LEU:HD13	3:N:1399:ASP:OD2	2.13	0.49
3:N:613:ARG:NH1	3:N:613:ARG:HG3	2.28	0.49
1:A:101:LEU:HD13	1:A:113:ASP:HB3	1.95	0.49
2:C:1092:LEU:HG	3:D:607:LEU:CD1	2.42	0.49
2:C:300:ASP:C	2:C:302:VAL:N	2.65	0.49
2:C:857:ASP:O	2:C:978:ARG:HG2	2.12	0.49
3:D:951:ILE:HD12	3:D:1062:ARG:NE	2.27	0.49
3:D:218:LYS:CD	3:D:370:ALA:HB1	2.43	0.49
3:D:582:LEU:O	3:D:603:LEU:HB2	2.13	0.49
2:M:1016:ILE:CD1	2:M:1016:ILE:H	1.94	0.49
2:M:601:GLY:O	2:M:648:ARG:HA	2.11	0.49
2:M:695:LEU:CD1	2:M:852:ILE:HG21	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:73:LEU:HD21	2:M:118:ILE:HD11	1.95	0.49
2:M:927:GLY:O	2:M:930:LYS:HB2	2.13	0.49
3:N:1027:GLY:O	3:N:1028:ALA:C	2.50	0.49
3:N:1078:ARG:O	3:N:1079:LYS:O	2.31	0.49
2:M:1038:TRP:CD1	3:N:1223:ILE:HD11	2.48	0.49
2:M:1094:ALA:HB2	3:N:520:LEU:HD13	1.95	0.49
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.42	0.49
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.43	0.49
3:N:912:LYS:HB3	3:N:912:LYS:NZ	2.28	0.49
5:P:141:VAL:O	5:P:145:PRO:CD	2.50	0.49
5:P:406:ARG:O	5:P:410:TYR:HB2	2.13	0.49
2:C:285:LEU:HD21	2:C:289:THR:HA	1.94	0.49
2:C:26:TYR:CE1	2:C:340:MET:HG3	2.47	0.49
2:C:443:THR:CG2	2:C:450:GLY:H	2.07	0.49
2:C:674:VAL:HG23	2:C:869:VAL:CG1	2.42	0.49
3:D:1152:GLU:O	3:D:1153:VAL:CG2	2.61	0.49
3:D:171:LEU:CB	3:D:390:PRO:HA	2.42	0.49
3:D:231:VAL:HA	3:D:378:ILE:CG1	2.43	0.49
3:D:205:TYR:HA	3:D:393:ILE:CD1	2.42	0.49
4:E:41:GLU:O	4:E:42:PRO:C	2.50	0.49
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.95	0.49
5:F:207:LEU:O	5:F:212:LEU:HD12	2.13	0.49
1:K:203:GLY:O	1:K:205:VAL:O	2.30	0.49
1:L:223:THR:O	1:L:225:PHE:N	2.46	0.49
2:M:855:VAL:C	2:M:857:ASP:H	2.16	0.49
2:M:580:MET:CE	2:M:902:ILE:HD11	2.42	0.49
2:M:432:ARG:NH1	3:N:1047:LYS:HG2	2.27	0.49
3:N:136:ASP:CB	3:N:137:PRO:CD	2.86	0.49
3:N:1437:ALA:C	3:N:1446:VAL:HG11	2.33	0.49
3:N:380:GLU:O	3:N:382:GLU:OE2	2.29	0.49
3:N:528:VAL:HG12	3:N:529:GLN:N	2.27	0.49
3:N:704:ARG:HG2	3:N:745:MET:HG3	1.93	0.49
3:N:798:GLU:OE1	3:N:828:LYS:HE2	2.13	0.49
3:N:965:GLU:HA	3:N:968:ASP:CB	2.34	0.49
4:O:39:VAL:O	4:O:72:ARG:NE	2.46	0.49
5:P:88:ILE:O	5:P:92:PRO:CD	2.61	0.49
1:A:76:VAL:O	1:A:76:VAL:HG12	2.13	0.49
1:B:220:GLU:O	1:B:220:GLU:HG2	2.11	0.49
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.48	0.49
2:C:469:THR:CG2	2:C:471:TYR:HE1	2.25	0.49
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.13	0.49
3:D:1207:TYR:O	3:D:1208:ASP:C	2.51	0.49
3:D:131:LYS:O	3:D:133:ILE:HG13	2.13	0.49
3:D:153:LEU:HD23	3:D:153:LEU:N	2.28	0.49
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.94	0.49
3:D:40:GLU:CG	3:D:41:ARG:H	2.20	0.49
3:D:486:ARG:HA	3:D:486:ARG:HE	1.77	0.49
3:D:79:GLU:HG2	3:D:80:VAL:N	2.25	0.49
5:F:134:LYS:HD2	5:F:160:ASP:OD2	2.13	0.49
1:K:49:PRO:HA	1:K:148:VAL:HG12	1.94	0.49
1:K:150:TYR:HD1	1:K:170:VAL:HG12	1.78	0.49
2:M:165:LEU:HA	2:M:166:PRO:C	2.32	0.49
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.78	0.49
2:M:953:VAL:CA	2:M:965:GLU:OE1	2.60	0.49
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.15	0.49
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.94	0.49
3:N:193:PRO:HB3	3:N:206:ARG:HH11	1.78	0.49
3:N:231:VAL:HA	3:N:378:ILE:CD1	2.42	0.49
3:N:47:GLU:CB	3:N:78:VAL:HG22	2.42	0.49
3:N:523:ASP:N	3:N:523:ASP:OD1	2.43	0.49
3:N:625:TYR:HD1	3:N:625:TYR:H	1.61	0.49
2:M:1047:HIS:N	3:N:758:GLU:OE2	2.46	0.49
3:N:82:LYS:O	3:N:84:ILE:N	2.45	0.49
3:N:962:GLN:O	3:N:966:GLU:CG	2.60	0.49
5:P:354:LEU:HD23	5:P:418:LEU:CD1	2.42	0.49
1:B:94:LEU:HD23	1:B:97:VAL:HG21	1.95	0.49
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.46	0.49
2:C:1087:VAL:O	2:C:1087:VAL:HG12	2.13	0.49
2:C:12:VAL:HG13	2:C:13:ILE:N	2.27	0.49
2:C:42:VAL:HG13	2:C:268:ASP:OD2	2.13	0.49
2:C:292:ARG:HD2	2:C:299:LYS:HD3	1.94	0.49
2:C:569:VAL:HG12	2:C:996:LYS:O	2.13	0.49
2:C:703:ILE:O	2:C:703:ILE:HG22	2.13	0.49
2:C:74:GLY:O	2:C:76:PRO:HD3	2.12	0.49
3:D:1081:GLY:O	3:D:1083:ASP:N	2.45	0.49
3:D:1311:LEU:CD2	3:D:1311:LEU:H	2.12	0.49
3:D:1369:GLU:O	3:D:1370:ILE:O	2.31	0.49
3:D:368:VAL:CG1	3:D:369:ALA:N	2.75	0.49
3:D:502:PHE:O	3:D:504:ASP:N	2.46	0.49
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.93	0.49
3:D:886:VAL:O	3:D:890:VAL:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG22	1:L:209:GLU:HB2	1.93	0.49
1:L:211:LEU:O	1:L:215:VAL:HG13	2.13	0.49
2:M:1051:GLU:OE1	3:N:751:LEU:N	2.46	0.49
2:M:398:THR:N	2:M:633:GLN:OE1	2.46	0.49
2:M:755:LEU:C	2:M:756:VAL:HG23	2.33	0.49
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.95	0.49
2:M:795:GLY:O	2:M:796:GLU:CG	2.58	0.49
3:N:1087:ARG:NH1	3:N:1238:MET:HG3	2.27	0.49
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.42	0.49
3:N:35:ARG:HB3	3:N:35:ARG:NH1	2.25	0.49
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.28	0.49
3:N:591:VAL:CA	3:N:600:LEU:HD21	2.43	0.49
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.47	0.49
3:N:387:LEU:CG	5:P:97:GLU:HB2	2.43	0.49
1:B:58:ILE:HG22	1:B:59:GLU:N	2.28	0.48
1:B:1:MET:HG3	1:B:6:LEU:HD13	1.94	0.48
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.46	0.48
3:D:1104:GLU:OE1	3:D:1377:LYS:HE3	2.13	0.48
3:D:9:ARG:NH2	3:D:11:ALA:HB2	2.28	0.48
3:D:1376:MET:HG2	3:D:1421:LEU:HD12	1.95	0.48
3:D:1378:TYR:CD1	3:D:1422:MET:HE2	2.48	0.48
3:D:152:LEU:HD23	3:D:152:LEU:N	2.08	0.48
3:D:389:GLU:CD	3:D:389:GLU:N	2.66	0.48
3:D:642:CYS:SG	3:D:642:CYS:O	2.71	0.48
3:D:660:LYS:HD2	3:D:663:GLU:HG3	1.95	0.48
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.52	0.48
2:M:188:LYS:HE2	2:M:188:LYS:C	2.34	0.48
2:M:86:LYS:C	2:M:88:LEU:H	2.15	0.48
3:N:1304:LYS:O	3:N:1305:LEU:HD23	2.13	0.48
2:M:1096:ALA:O	3:N:13:ALA:HB2	2.13	0.48
3:N:1466:VAL:HG23	3:N:1472:ILE:CD1	2.36	0.48
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.93	0.48
5:P:288:TYR:CE2	5:P:305:GLU:HG3	2.48	0.48
5:P:415:THR:O	5:P:417:LYS:HG3	2.12	0.48
1:A:88:ARG:HH12	1:A:90:LEU:HD23	1.77	0.48
1:B:66:SER:O	1:B:74:ASP:OD1	2.31	0.48
2:C:540:PHE:CE1	2:C:550:LEU:HD23	2.47	0.48
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.12	0.48
3:D:179:VAL:HG11	3:D:217:LYS:CE	2.43	0.48
3:D:563:PRO:HG3	5:F:188:ILE:HG22	1.94	0.48
2:C:874:LEU:HD13	3:D:783:ARG:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:907:GLU:HG2	3:D:908:LYS:N	2.26	0.48
2:C:987:ILE:HA	3:D:948:THR:HG21	1.95	0.48
3:D:951:ILE:HD12	3:D:1062:ARG:NH2	2.28	0.48
1:K:189:ARG:HH11	1:L:155:LYS:NZ	2.05	0.48
2:M:1018:GLN:HG3	2:M:1060:ILE:CG1	2.43	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.13	0.48
2:M:256:TYR:OH	2:M:293:PHE:HB2	2.13	0.48
2:M:347:GLY:O	2:M:350:ARG:HD2	2.14	0.48
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.94	0.48
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.77	0.48
3:N:1476:THR:HG22	3:N:1476:THR:O	2.13	0.48
3:N:1493:LYS:O	3:N:1496:GLU:HB3	2.13	0.48
3:N:223:LEU:HA	3:N:365:ASP:HB3	1.94	0.48
3:N:3:LYS:HD3	3:N:3:LYS:N	2.28	0.48
3:N:477:LEU:O	3:N:481:MET:HB2	2.12	0.48
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.44	0.48
3:N:570:GLU:C	3:N:572:ARG:N	2.63	0.48
3:N:654:LYS:O	3:N:655:PRO:C	2.52	0.48
3:N:939:PHE:O	3:N:942:SER:HB3	2.13	0.48
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.94	0.48
1:A:43:ILE:HD11	1:B:35:THR:HG21	1.95	0.48
2:C:1059:ASP:HB3	2:C:1062:GLY:HA3	1.95	0.48
2:C:408:ARG:HH11	2:C:542:VAL:HG23	1.78	0.48
2:C:710:ILE:HD13	2:C:790:LEU:HB2	1.94	0.48
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.95	0.48
3:D:475:LYS:O	3:D:478:LEU:HB2	2.12	0.48
3:D:588:GLY:O	3:D:590:PRO:HD3	2.12	0.48
5:F:169:GLU:O	5:F:172:ARG:HB3	2.13	0.48
5:F:174:LEU:HD22	5:F:178:ARG:HG2	1.94	0.48
5:F:93:LEU:CD1	5:F:102:LEU:HD12	2.44	0.48
1:K:33:GLY:N	1:K:193:ASP:OD2	2.44	0.48
2:M:762:LYS:NZ	2:M:784:ASP:O	2.47	0.48
3:N:949:ILE:HD11	3:N:1023:MET:HE1	1.94	0.48
3:N:1115:THR:CB	3:N:1151:ARG:NH2	2.71	0.48
3:N:1393:GLN:O	3:N:1394:VAL:C	2.51	0.48
3:N:481:MET:HG3	3:N:493:ARG:HB2	1.96	0.48
3:N:564:GLU:H	3:N:564:GLU:CD	2.17	0.48
3:N:736:PHE:O	3:N:738:ALA:N	2.47	0.48
2:M:1047:HIS:N	3:N:758:GLU:CD	2.67	0.48
1:A:14:ARG:HH12	1:A:24:VAL:HG23	1.78	0.48
1:A:79:ILE:C	1:A:79:ILE:HD12	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.48	0.48
2:C:584:GLU:O	2:C:588:VAL:HG13	2.13	0.48
3:D:783:ARG:NE	3:D:1029:ARG:NE	2.59	0.48
3:D:34:TYR:O	3:D:36:THR:N	2.46	0.48
3:D:444:VAL:HG13	3:D:444:VAL:O	2.13	0.48
3:D:486:ARG:HE	3:D:489:ARG:HD3	1.78	0.48
3:D:601:ARG:HH22	3:D:611:GLN:H	1.59	0.48
3:D:810:GLU:C	3:D:812:ALA:H	2.16	0.48
3:D:951:ILE:HD12	3:D:1062:ARG:HH21	1.78	0.48
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.95	0.48
2:C:729:LEU:CD1	5:F:419:ARG:HH21	2.26	0.48
1:K:124:ASN:N	1:K:125:PRO:HD3	2.28	0.48
1:L:23:PHE:CZ	1:L:208:LEU:HA	2.48	0.48
2:M:123:GLU:OE2	2:M:592:LEU:CD1	2.62	0.48
2:M:328:LEU:H	2:M:433:THR:CG2	2.22	0.48
2:M:49:ARG:HG2	2:M:68:PHE:CE2	2.47	0.48
2:M:728:HIS:O	2:M:729:LEU:HD22	2.14	0.48
2:M:858:MET:HE2	2:M:867:VAL:HG23	1.96	0.48
2:M:910:LYS:H	2:M:913:GLU:CB	2.26	0.48
3:N:1155:VAL:HG21	3:N:1174:LEU:CD2	2.43	0.48
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.13	0.48
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.29	0.48
3:N:411:THR:HG22	3:N:412:GLY:N	2.28	0.48
3:N:433:GLY:HA3	3:N:449:SER:O	2.13	0.48
3:N:496:LEU:HD21	3:N:500:ARG:NE	2.27	0.48
3:N:676:MET:HE1	3:N:684:LYS:H	1.79	0.48
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.94	0.48
1:B:206:THR:O	1:B:209:GLU:HB2	2.13	0.48
2:C:113:VAL:O	2:C:115:LEU:HD23	2.13	0.48
2:C:438:ILE:CD1	2:C:453:THR:HG21	2.33	0.48
2:C:535:SER:O	2:C:537:LYS:N	2.46	0.48
2:C:680:ASP:OD1	3:D:636:GLN:NE2	2.47	0.48
2:C:1034:GLU:OE1	3:D:1096:ARG:CD	2.62	0.48
3:D:1292:VAL:HG11	3:D:1325:LEU:CD2	2.39	0.48
3:D:646:LYS:HA	3:D:720:LEU:CD2	2.44	0.48
3:D:782:SER:O	3:D:786:ILE:HD12	2.13	0.48
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.95	0.48
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.43	0.48
4:E:54:LEU:CD2	4:E:63:TRP:HE1	2.26	0.48
3:D:553:ARG:NH1	5:F:214:GLN:HB2	2.28	0.48
1:K:106:PRO:HA	1:K:132:LEU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:33:GLY:O	1:K:195:LEU:HD13	2.14	0.48
2:M:115:LEU:HA	2:M:375:SER:OG	2.13	0.48
2:M:684:PHE:HB2	3:N:633:VAL:HG21	1.94	0.48
2:M:724:ARG:HG2	2:M:734:LEU:HD12	1.95	0.48
2:M:946:ARG:HH11	2:M:984:GLU:HB2	1.77	0.48
3:N:1189:ARG:HB3	3:N:1189:ARG:HH11	1.79	0.48
3:N:1253:THR:HG23	3:N:1258:ARG:HD2	1.95	0.48
3:N:1277:ILE:CG2	3:N:1278:ASP:H	2.26	0.48
3:N:1305:LEU:HB3	3:N:1309:ALA:CB	2.44	0.48
3:N:1372:VAL:HA	3:N:1375:MET:HG3	1.94	0.48
3:N:455:ARG:HE	3:N:463:GLN:HE22	1.57	0.48
3:N:473:LEU:CD1	3:N:476:GLU:OE1	2.61	0.48
2:M:1008:ARG:C	3:N:651:GLU:OE2	2.52	0.48
3:N:923:GLY:O	3:N:924:MET:C	2.51	0.48
3:N:984:THR:O	3:N:985:ASP:C	2.52	0.48
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.96	0.48
1:A:213:GLN:O	1:A:217:ILE:HG13	2.13	0.48
2:C:327:HIS:HA	2:C:431:HIS:CD2	2.49	0.48
2:C:910:LYS:O	2:C:911:GLU:C	2.52	0.48
3:D:1062:ARG:HD3	3:D:1062:ARG:C	2.34	0.48
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.78	0.48
3:D:1465:ASN:HD21	3:D:1470:ARG:HH12	1.59	0.48
3:D:172:PRO:HG3	3:D:178:LEU:HD22	1.96	0.48
3:D:578:VAL:O	3:D:582:LEU:HG	2.13	0.48
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.95	0.48
5:F:287:THR:C	5:F:289:GLU:H	2.15	0.48
1:L:170:VAL:O	1:L:170:VAL:HG23	2.13	0.48
1:L:27:PRO:O	1:L:28:LEU:HG	2.14	0.48
2:M:1009:SER:HB2	3:N:651:GLU:CD	2.33	0.48
2:M:122:THR:HG22	2:M:123:GLU:N	2.28	0.48
2:M:146:VAL:HG12	2:M:162:ILE:HG12	1.94	0.48
2:M:551:GLU:O	2:M:553:ASP:N	2.46	0.48
2:M:580:MET:N	2:M:901:TYR:O	2.47	0.48
2:M:669:GLY:C	2:M:670:GLN:HG3	2.33	0.48
2:M:854:PRO:O	2:M:857:ASP:OD2	2.31	0.48
2:M:910:LYS:HD2	2:M:910:LYS:N	2.28	0.48
3:N:1271:LYS:CE	3:N:1334:GLN:NE2	2.76	0.48
3:N:169:TYR:O	3:N:169:TYR:CG	2.66	0.48
3:N:86:ARG:NH1	3:N:522:PRO:CB	2.77	0.48
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.77	0.48
3:N:890:VAL:O	3:N:892:ASP:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.35	0.48
1:A:73:GLU:HB2	1:A:78:ILE:HG13	1.95	0.48
2:C:1016:ILE:HG12	2:C:1017:THR:H	1.79	0.48
2:C:1020:PRO:CD	2:C:1057:SER:HA	2.43	0.48
2:C:572:ILE:HG23	2:C:701:THR:O	2.14	0.48
2:C:768:THR:HG22	2:C:769:PRO:HD2	1.96	0.48
2:C:850:ALA:CB	3:D:633:VAL:HG12	2.43	0.48
2:C:945:ARG:C	2:C:947:ALA:H	2.16	0.48
3:D:1071:PHE:C	3:D:1071:PHE:CD1	2.87	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB2	2.42	0.48
3:D:1156:LEU:HD11	3:D:1177:ALA:CA	2.43	0.48
3:D:1442:ASN:HD22	3:D:1446:VAL:HG21	1.78	0.48
3:D:36:THR:CG2	3:D:38:LYS:HG3	2.43	0.48
3:D:553:ARG:HD2	3:D:570:GLU:OE1	2.14	0.48
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.41	0.48
2:M:736:ASP:O	2:M:743:VAL:HG23	2.14	0.48
2:M:554:ASP:CB	2:M:880:MET:HB2	2.39	0.48
3:N:195:VAL:CG2	3:N:205:TYR:HB2	2.43	0.48
3:N:374:GLU:HG2	3:N:386:HIS:CA	2.37	0.48
3:N:37:LEU:HD11	3:N:529:GLN:HG3	1.95	0.48
3:N:930:LEU:HD11	3:N:934:LEU:HD11	1.96	0.48
5:P:326:ASP:N	5:P:326:ASP:OD1	2.46	0.48
1:A:153:ALA:C	1:A:155:LYS:N	2.64	0.48
1:A:80:LEU:HD21	2:C:698:ASP:HB2	1.96	0.48
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.14	0.48
1:B:91:ASN:HB2	1:B:92:PRO:HD2	1.94	0.48
2:C:1085:PHE:O	2:C:1088:LEU:CB	2.62	0.48
2:C:197:LEU:CD1	2:C:207:LEU:HD11	2.44	0.48
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.49	0.48
2:C:30:LEU:O	2:C:32:ALA:N	2.47	0.48
2:C:355:VAL:HG13	2:C:356:ARG:N	2.28	0.48
2:C:516:ARG:CD	2:C:521:PRO:HA	2.43	0.48
2:C:843:HIS:NE2	2:C:887:GLU:OE2	2.47	0.48
3:D:102:ILE:HD12	3:D:579:ASP:CB	2.40	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.96	0.48
3:D:1219:GLU:O	3:D:1220:ALA:C	2.52	0.48
3:D:1377:LYS:O	3:D:1377:LYS:HG3	2.14	0.48
3:D:1398:TRP:CH2	3:D:1415:VAL:HG11	2.49	0.48
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.48	0.48
2:M:1052:MET:SD	3:N:623:VAL:HG11	2.54	0.48
2:M:1063:ARG:HG3	2:M:1064:ASN:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.95	0.48
2:M:757:GLY:HA2	2:M:789:SER:OG	2.14	0.48
3:N:1225:ALA:C	3:N:1229:ILE:HD12	2.34	0.48
3:N:1450:ALA:O	3:N:1454:GLY:N	2.45	0.48
3:N:1478:SER:C	3:N:1480:PHE:H	2.17	0.48
3:N:191:LEU:CD1	3:N:211:VAL:HG21	2.43	0.48
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.96	0.48
3:N:919:PHE:HZ	3:N:1211:MET:HB3	1.79	0.48
5:P:406:ARG:HG2	5:P:409:LYS:HE2	1.96	0.48
1:A:185:ARG:O	1:A:185:ARG:NE	2.47	0.48
1:A:24:VAL:HG12	1:A:25:LEU:N	2.29	0.48
1:B:211:LEU:O	1:B:214:ALA:HB3	2.13	0.48
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.96	0.48
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.95	0.48
2:C:572:ILE:HG13	2:C:573:ARG:N	2.27	0.48
2:C:690:ILE:HD11	2:C:839:LEU:HD11	1.95	0.48
3:D:1331:ASP:HB3	3:D:1334:GLN:CG	2.44	0.48
3:D:1336:LEU:HD22	3:D:1421:LEU:CB	2.44	0.48
3:D:625:TYR:O	3:D:749:VAL:HG23	2.13	0.48
3:D:78:VAL:C	3:D:79:GLU:O	2.48	0.48
3:D:812:ALA:O	3:D:816:HIS:HB2	2.14	0.48
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.36	0.48
2:M:244:PRO:HD2	2:M:245:GLY:N	2.28	0.48
2:M:404:LEU:HB2	2:M:591:SER:HB2	1.96	0.48
2:M:630:ARG:NH2	2:M:707:ARG:H	2.03	0.48
2:M:838:LYS:HD3	2:M:846:LYS:CE	2.43	0.48
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.95	0.48
3:N:1047:LYS:HA	3:N:1053:PHE:HE1	1.75	0.48
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	1.95	0.48
3:N:1219:GLU:C	3:N:1221:VAL:H	2.16	0.48
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.95	0.48
2:M:1095:LEU:CD2	3:N:603:LEU:HD13	2.44	0.48
3:N:637:LEU:HD23	3:N:729:HIS:CA	2.44	0.48
3:N:916:TYR:CZ	3:N:920:LEU:HD22	2.48	0.48
3:N:779:ALA:HB1	3:N:931:LEU:HD13	1.95	0.48
5:P:130:VAL:HG21	5:P:159:ILE:CD1	2.44	0.48
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.96	0.48
2:C:158:TYR:CD1	2:C:313:LEU:HG	2.48	0.48
2:C:439:CYS:SG	2:C:442:GLU:N	2.76	0.48
2:C:490:GLU:HG3	2:C:493:ARG:HH11	1.78	0.48
2:C:572:ILE:HD11	2:C:698:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1087:ARG:NH2	3:D:1237:THR:HA	2.28	0.48
3:D:1162:GLU:HG2	3:D:1163:GLY:N	2.29	0.48
3:D:1303:TYR:HA	3:D:1304:LYS:HE2	1.95	0.48
3:D:104:PHE:HD1	3:D:512:MET:SD	2.37	0.48
3:D:829:VAL:HG12	3:D:830:ALA:N	2.29	0.48
5:F:196:VAL:HA	5:F:199:ALA:HB3	1.96	0.48
1:K:189:ARG:NH1	1:L:155:LYS:HE2	2.29	0.48
1:L:100:LEU:O	1:L:114:PHE:HA	2.14	0.48
2:M:10:ARG:O	2:M:12:VAL:N	2.47	0.48
2:M:162:ILE:CD1	2:M:306:THR:HG21	2.39	0.48
2:M:640:ARG:HB2	2:M:642:ARG:NH1	2.28	0.48
2:M:737:LEU:HD11	2:M:754:ILE:CG2	2.44	0.48
2:M:751:PRO:CG	2:M:796:GLU:HA	2.44	0.48
3:N:1017:PHE:HA	3:N:1022:VAL:CG2	2.44	0.48
3:N:1271:LYS:HE3	3:N:1334:GLN:CD	2.34	0.48
3:N:1423:GLY:C	3:N:1425:THR:N	2.67	0.48
3:N:149:LYS:H	3:N:149:LYS:CD	2.20	0.48
3:N:593:ASN:O	3:N:595:GLY:N	2.47	0.48
3:N:699:VAL:N	3:N:756:GLN:HE21	2.09	0.48
5:P:138:SER:HB2	5:P:140:ARG:NE	2.29	0.48
5:P:88:ILE:HD13	5:P:193:ARG:CD	2.40	0.48
1:A:13:VAL:CG1	1:A:14:ARG:N	2.76	0.47
1:A:151:VAL:HG13	1:A:155:LYS:HD3	1.95	0.47
1:A:173:PRO:O	1:A:174:VAL:C	2.52	0.47
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.78	0.47
3:D:1072:ILE:HG22	3:D:1073:SER:N	2.28	0.47
3:D:1346:ARG:HH12	3:D:1349:VAL:HG21	1.79	0.47
3:D:1353:GLN:HB3	3:D:1357:ARG:NH1	2.29	0.47
3:D:218:LYS:HD2	3:D:372:ASP:O	2.14	0.47
3:D:729:HIS:O	3:D:732:VAL:HG22	2.14	0.47
2:M:1109:VAL:HG22	3:N:3:LYS:CB	2.40	0.47
2:M:205:GLU:HA	2:M:209:ARG:HE	1.79	0.47
2:M:242:LEU:CD2	2:M:242:LEU:N	2.77	0.47
2:M:64:LEU:HD13	2:M:359:MET:SD	2.54	0.47
2:M:497:ALA:HB2	2:M:529:VAL:HG13	1.96	0.47
2:M:557:ARG:HD3	2:M:879:ARG:CG	2.44	0.47
2:M:578:VAL:O	2:M:900:ARG:HA	2.14	0.47
3:N:786:ILE:CG2	3:N:1028:ALA:H	2.27	0.47
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.95	0.47
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.96	0.47
3:N:426:LYS:HA	3:N:434:ARG:HD3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:691:LEU:HD23	3:N:720:LEU:HD11	1.95	0.47
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.47	0.47
1:A:121:GLU:HG2	1:A:123:MET:SD	2.53	0.47
1:A:219:ARG:C	1:A:219:ARG:HD3	2.35	0.47
1:B:10:VAL:HG12	1:B:12:THR:HG22	1.96	0.47
1:B:55:SER:O	1:B:142:VAL:HA	2.15	0.47
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.29	0.47
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.29	0.47
2:C:486:MET:HE1	2:C:496:ILE:HD11	1.96	0.47
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.96	0.47
3:D:1108:ARG:O	3:D:1109:GLU:HB3	2.14	0.47
3:D:1207:TYR:CZ	3:D:1212:ALA:O	2.67	0.47
3:D:1207:TYR:N	3:D:1366:LYS:NZ	2.57	0.47
3:D:1192:LEU:CD2	3:D:1345:GLU:HB3	2.42	0.47
3:D:1254:GLN:OE1	3:D:1355:VAL:HG22	2.14	0.47
3:D:1403:LEU:HD22	3:D:1407:LEU:CD2	2.44	0.47
3:D:169:TYR:CG	3:D:169:TYR:O	2.67	0.47
3:D:93:ILE:HD12	3:D:547:LEU:HD23	1.96	0.47
3:D:583:ASP:HA	3:D:602:SER:HB2	1.96	0.47
3:D:619:LEU:CG	3:D:619:LEU:O	2.60	0.47
3:D:659:LYS:O	3:D:662:GLU:HB3	2.13	0.47
1:K:146:ARG:HE	1:K:147:GLY:N	2.12	0.47
1:K:184:THR:HG23	1:K:184:THR:O	2.14	0.47
2:M:1063:ARG:CG	2:M:1064:ASN:N	2.77	0.47
2:M:496:ILE:O	2:M:515:ALA:HB1	2.13	0.47
2:M:499:ALA:C	2:M:501:THR:H	2.17	0.47
2:M:52:PHE:CZ	2:M:98:LEU:HD21	2.49	0.47
2:M:877:PRO:HG2	3:N:1023:MET:CE	2.44	0.47
3:N:1149:LEU:HD11	3:N:1160:LEU:HB3	1.96	0.47
3:N:129:PHE:CE2	3:N:575:GLN:HG3	2.48	0.47
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	2.14	0.47
3:N:478:LEU:HD23	3:N:1388:ARG:NH1	2.27	0.47
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.15	0.47
3:N:984:THR:HG23	3:N:987:GLU:N	2.23	0.47
3:N:757:ALA:CB	4:O:24:ALA:HB2	2.44	0.47
5:P:260:ILE:CD1	5:P:264:MET:HB3	2.44	0.47
1:A:92:PRO:O	1:A:94:LEU:N	2.48	0.47
1:B:50:GLY:O	1:B:146:ARG:HA	2.15	0.47
2:C:1095:LEU:HD23	3:D:582:LEU:HB3	1.96	0.47
2:C:95:TYR:HB3	2:C:114:PHE:N	2.28	0.47
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:785:VAL:HG22	2:C:786:LYS:N	2.27	0.47
2:C:803:THR:HG22	2:C:825:VAL:HG13	1.95	0.47
2:C:945:ARG:C	2:C:947:ALA:N	2.67	0.47
3:D:1109:GLU:OE1	3:D:1110:ALA:O	2.31	0.47
3:D:124:GLU:HB3	3:D:128:TYR:CE1	2.49	0.47
3:D:1481:VAL:C	3:D:1483:PHE:N	2.67	0.47
3:D:137:PRO:HD2	3:D:453:ASP:CG	2.35	0.47
3:D:679:ARG:NH2	3:D:681:ARG:CD	2.76	0.47
3:D:869:MET:HE1	3:D:894:LYS:HE3	1.96	0.47
3:D:916:TYR:HE2	3:D:920:LEU:CD2	2.19	0.47
3:D:994:GLN:NE2	3:D:998:GLU:OE2	2.47	0.47
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.13	0.47
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.43	0.47
1:K:168:ASP:OD2	2:M:832:LYS:NZ	2.46	0.47
1:K:86:VAL:HG12	1:K:124:ASN:HB2	1.96	0.47
1:L:25:LEU:HD22	1:L:28:LEU:HD11	1.96	0.47
2:M:102:HIS:HB2	2:M:105:THR:O	2.15	0.47
2:M:1054:THR:HB	2:M:1055:LEU:HD23	1.96	0.47
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.95	0.47
2:M:442:GLU:HG2	2:M:454:SER:CB	2.45	0.47
2:M:72:ARG:O	2:M:72:ARG:HG3	2.14	0.47
2:M:567:GLN:O	2:M:997:LEU:HD23	2.15	0.47
3:N:1155:VAL:CG2	3:N:1183:ILE:HD11	2.43	0.47
3:N:1107:VAL:HG22	3:N:1200:VAL:O	2.14	0.47
3:N:1342:GLU:CD	3:N:1342:GLU:H	2.16	0.47
3:N:207:PHE:HB3	3:N:395:VAL:HG21	1.97	0.47
3:N:221:ALA:C	3:N:367:ILE:HD12	2.34	0.47
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.43	0.47
3:N:702:LEU:CD1	3:N:747:VAL:HB	2.45	0.47
3:N:895:VAL:O	3:N:898:GLU:HB2	2.14	0.47
3:N:976:GLN:C	3:N:979:GLU:HB2	2.33	0.47
2:C:391:LEU:O	2:C:391:LEU:HG	2.14	0.47
2:C:613:VAL:HG11	2:C:655:LEU:CD1	2.44	0.47
2:C:99:GLN:HE21	2:C:101:ILE:HD11	1.78	0.47
3:D:104:PHE:CE1	3:D:1452:ILE:HD11	2.50	0.47
3:D:168:THR:C	3:D:170:PRO:HD3	2.35	0.47
3:D:601:ARG:HH12	3:D:611:GLN:HB3	1.79	0.47
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.15	0.47
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.95	0.47
2:M:100:LEU:HD12	2:M:100:LEU:O	2.14	0.47
2:M:498:GLN:CD	2:M:516:ARG:HE	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:881:ASN:HD21	2:M:884:GLN:NE2	2.13	0.47
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.77	0.47
3:N:1343:ALA:C	3:N:1345:GLU:N	2.66	0.47
3:N:1495:ILE:HG12	4:O:80:VAL:HG13	1.96	0.47
3:N:779:ALA:CB	3:N:931:LEU:HD13	2.45	0.47
3:N:901:GLN:HB3	3:N:903:ASP:OD1	2.15	0.47
1:B:14:ARG:NH2	1:B:22:GLU:OE2	2.46	0.47
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.44	0.47
2:C:855:VAL:O	2:C:856:GLU:C	2.53	0.47
2:C:874:LEU:O	3:D:1029:ARG:CD	2.59	0.47
3:D:107:ASP:O	3:D:108:VAL:C	2.51	0.47
3:D:1320:GLU:O	3:D:1323:GLN:HB2	2.14	0.47
3:D:684:LYS:C	3:D:686:GLU:H	2.18	0.47
5:F:113:ILE:HG23	5:F:127:ILE:HB	1.97	0.47
5:F:218:GLN:HG3	5:F:218:GLN:O	2.15	0.47
1:K:206:THR:CB	1:K:209:GLU:HB2	2.44	0.47
2:M:673:LEU:CD1	2:M:895:TYR:CE2	2.98	0.47
2:M:949:LYS:CD	3:N:796:ARG:HH21	2.28	0.47
3:N:1104:GLU:HG3	3:N:1105:ILE:HD13	1.96	0.47
3:N:1311:LEU:H	3:N:1311:LEU:CD2	2.18	0.47
3:N:1373:ARG:O	3:N:1373:ARG:HG2	2.13	0.47
3:N:1197:ARG:HB2	3:N:1396:GLU:HG3	1.97	0.47
3:N:911:LEU:O	3:N:913:ASP:N	2.47	0.47
2:M:1044:GLY:HA3	4:O:17:TYR:CD1	2.50	0.47
5:P:107:GLU:O	5:P:111:GLU:HG3	2.15	0.47
5:P:123:ASP:HB2	5:P:126:LEU:HB2	1.97	0.47
2:C:328:LEU:N	2:C:328:LEU:HD12	2.29	0.47
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.45	0.47
2:C:54:ILE:HG13	2:C:56:GLU:HG2	1.96	0.47
1:A:67:THR:HG21	2:C:609:ASN:OD1	2.13	0.47
2:C:870:ILE:C	2:C:871:LEU:HD12	2.35	0.47
3:D:1071:PHE:C	3:D:1071:PHE:HD1	2.18	0.47
3:D:1381:VAL:HG12	3:D:1389:LEU:HA	1.96	0.47
3:D:224:ARG:HD3	3:D:224:ARG:N	2.22	0.47
3:D:868:TYR:CD2	3:D:880:ILE:HD11	2.49	0.47
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.50	0.47
4:E:54:LEU:HG	4:E:58:PRO:CB	2.43	0.47
4:E:68:LEU:HD11	4:E:75:PHE:CE2	2.46	0.47
1:K:57:TYR:HB3	1:K:141:GLU:HB3	1.96	0.47
2:M:304:LEU:HD23	2:M:305:PRO:N	2.30	0.47
2:M:432:ARG:CZ	3:N:1048:PRO:CD	2.90	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:568:ALA:HB3	2:M:668:LEU:HD22	1.97	0.47
2:M:660:ALA:HB1	2:M:667:ALA:O	2.14	0.47
2:M:684:PHE:CG	2:M:685:GLU:N	2.83	0.47
2:M:918:LEU:HD23	2:M:968:LEU:O	2.15	0.47
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.28	0.47
3:N:374:GLU:HB3	3:N:385:VAL:O	2.15	0.47
3:N:629:SER:OG	3:N:726:ILE:HG13	2.13	0.47
3:N:685:ASP:O	3:N:686:GLU:C	2.53	0.47
3:N:70:GLY:O	3:N:71:LYS:HD2	2.14	0.47
3:N:824:ASN:HB3	3:N:825:ALA:H	1.47	0.47
5:P:202:TYR:O	5:P:203:THR:O	2.31	0.47
5:P:340:SER:O	5:P:341:PRO:C	2.53	0.47
2:C:127:PHE:O	2:C:133:ASP:HA	2.14	0.47
2:C:266:ARG:O	2:C:288:ARG:HD2	2.15	0.47
2:C:56:GLU:OE2	2:C:356:ARG:NE	2.48	0.47
2:C:762:LYS:NZ	2:C:762:LYS:CB	2.77	0.47
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.95	0.47
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.30	0.47
3:D:187:LYS:HE2	3:D:213:VAL:CG1	2.44	0.47
3:D:375:GLU:O	3:D:385:VAL:HG12	2.14	0.47
3:D:493:ARG:O	3:D:497:GLU:HG3	2.15	0.47
3:D:628:ARG:O	3:D:629:SER:CB	2.62	0.47
3:D:688:TRP:HE3	3:D:688:TRP:HA	1.78	0.47
3:D:792:ILE:HG23	3:D:793:THR:N	2.30	0.47
3:D:911:LEU:N	3:D:911:LEU:HD12	2.30	0.47
5:F:402:ASN:O	5:F:406:ARG:HB2	2.14	0.47
1:K:63:HIS:HD2	1:K:65:PHE:N	2.13	0.47
2:M:249:LYS:HB2	2:M:249:LYS:HE3	1.69	0.47
2:M:405:ARG:NH2	2:M:409:ARG:NH2	2.52	0.47
2:M:682:TYR:CD1	2:M:851:LYS:HD2	2.50	0.47
2:M:737:LEU:HD22	2:M:741:GLY:O	2.15	0.47
3:N:1109:GLU:HB2	3:N:1110:ALA:H	1.35	0.47
3:N:1463:LYS:O	3:N:1467:ILE:HG13	2.15	0.47
3:N:499:VAL:O	3:N:503:LEU:HB2	2.15	0.47
3:N:646:LYS:HD3	3:N:722:GLU:HA	1.97	0.47
4:O:61:GLU:OE1	4:O:65:MET:HE2	2.15	0.47
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.96	0.47
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.95	0.47
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.45	0.47
2:C:860:HIS:HA	2:C:866:PRO:HA	1.97	0.47
3:D:119:SER:HB2	3:D:123:LEU:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.24	0.47
3:D:1424:VAL:CG1	3:D:1425:THR:H	2.28	0.47
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.96	0.47
3:D:546:ARG:HH21	3:D:550:ARG:HH12	1.63	0.47
3:D:653:PHE:CD2	3:D:695:ILE:HD11	2.50	0.47
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.44	0.47
3:D:729:HIS:CE1	3:D:731:LEU:CB	2.98	0.47
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.40	0.47
3:D:899:LEU:N	3:D:899:LEU:HD13	2.30	0.47
2:M:18:LEU:HB2	2:M:590:ASP:OD2	2.15	0.47
2:M:42:VAL:HG12	2:M:43:GLY:N	2.26	0.47
3:N:1147:ARG:H	3:N:1166:LEU:HD23	1.79	0.47
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.15	0.47
3:N:119:SER:HB2	3:N:123:LEU:N	2.29	0.47
3:N:1273:VAL:O	3:N:1273:VAL:HG23	2.14	0.47
2:M:1071:ILE:HD12	3:N:670:VAL:CG1	2.43	0.47
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.44	0.47
3:N:850:LEU:N	3:N:850:LEU:HD12	2.30	0.47
5:P:170:HIS:HA	5:P:173:TYR:HD1	1.80	0.47
1:B:6:LEU:O	1:B:6:LEU:HG	2.14	0.47
2:C:1045:ALA:HA	3:D:758:GLU:CD	2.34	0.47
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.97	0.47
2:C:480:THR:CG2	2:C:481:ASP:N	2.78	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.48	0.47
2:C:76:PRO:HA	2:C:77:PRO:HD3	1.78	0.47
2:C:755:LEU:CD1	2:C:792:VAL:HG22	2.45	0.47
3:D:1047:LYS:O	3:D:1050:GLY:N	2.48	0.47
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.29	0.47
3:D:1284:GLU:HB2	3:D:1291:SER:OG	2.15	0.47
3:D:130:SER:O	3:D:568:ARG:CZ	2.63	0.47
3:D:1314:LYS:O	3:D:1316:GLY:N	2.48	0.47
3:D:988:ARG:HD3	3:D:992:ILE:HD11	1.97	0.47
5:F:175:HIS:O	5:F:179:GLU:HG3	2.15	0.47
5:F:188:ILE:CD1	5:F:221:ILE:HG23	2.45	0.47
1:L:206:THR:CG2	1:L:209:GLU:H	2.28	0.47
1:L:223:THR:C	1:L:225:PHE:N	2.68	0.47
1:L:46:SER:O	1:L:148:VAL:HB	2.14	0.47
2:M:1052:MET:CE	2:M:1056:LYS:HZ3	2.27	0.47
2:M:122:THR:HG22	2:M:123:GLU:H	1.80	0.47
2:M:244:PRO:CD	2:M:245:GLY:H	2.28	0.47
2:M:275:TYR:CG	2:M:276:LYS:N	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:256:TYR:CZ	2:M:293:PHE:HB2	2.49	0.47
2:M:355:VAL:HG13	2:M:356:ARG:N	2.30	0.47
2:M:594:ALA:HB1	2:M:656:ALA:O	2.14	0.47
2:M:672:VAL:HG22	2:M:868:ASP:HB2	1.96	0.47
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.63	0.47
3:N:1141:GLU:OE2	3:N:1168:MET:HE2	2.15	0.47
3:N:130:SER:O	3:N:568:ARG:NH2	2.43	0.47
3:N:165:LYS:HD3	3:N:165:LYS:O	2.15	0.47
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.69	0.47
3:N:195:VAL:HB	3:N:205:TYR:CB	2.40	0.47
3:N:483:HIS:O	3:N:484:PRO:O	2.33	0.47
2:M:1047:HIS:CD2	3:N:754:PHE:CE2	3.03	0.47
3:N:885:ILE:HD13	3:N:937:TYR:CB	2.44	0.47
4:O:9:LEU:C	4:O:11:GLY:H	2.17	0.47
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.79	0.47
1:A:7:LYS:HZ3	1:A:188:GLN:NE2	2.13	0.47
2:C:1081:VAL:CB	2:C:1086:ARG:HH21	2.26	0.47
2:C:622:GLU:C	2:C:624:PRO:HD3	2.35	0.47
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.45	0.47
3:D:1031:ASN:ND2	3:D:1033:GLN:HB3	2.29	0.47
3:D:1481:VAL:C	3:D:1483:PHE:H	2.18	0.47
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.97	0.47
3:D:218:LYS:CG	3:D:370:ALA:HB1	2.45	0.47
3:D:824:ASN:O	3:D:826:PRO:HD3	2.14	0.47
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.95	0.47
3:D:936:TYR:O	3:D:937:TYR:C	2.53	0.47
1:K:37:GLY:O	1:K:38:ASN:C	2.53	0.47
1:L:106:PRO:HG2	1:L:134:GLU:OE1	2.15	0.47
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.79	0.47
2:M:667:ALA:O	2:M:668:LEU:HD23	2.15	0.47
3:N:1001:GLU:OE1	3:N:1001:GLU:HA	2.12	0.47
3:N:186:VAL:HG13	3:N:187:LYS:N	2.30	0.47
3:N:547:LEU:O	3:N:548:ILE:C	2.53	0.47
5:P:162:LYS:O	5:P:166:LEU:HG	2.14	0.47
5:P:287:THR:HG22	5:P:290:GLU:OE1	2.14	0.47
5:P:396:ARG:C	5:P:399:GLN:HB2	2.34	0.47
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.30	0.47
2:C:1100:GLN:O	3:D:9:ARG:O	2.31	0.47
2:C:147:TYR:HE2	2:C:330:ASN:HB3	1.80	0.47
2:C:24:GLU:OE2	2:C:24:GLU:HA	2.14	0.47
2:C:682:TYR:CD2	2:C:851:LYS:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	2.50	0.47
3:D:1129:THR:CG2	3:D:1130:ARG:N	2.67	0.47
3:D:1258:ARG:O	3:D:1259:VAL:C	2.53	0.47
3:D:1342:GLU:HA	3:D:1345:GLU:CD	2.33	0.47
3:D:19:ARG:HE	3:D:94:GLU:CD	2.18	0.47
3:D:528:VAL:O	3:D:536:ALA:N	2.43	0.47
3:D:684:LYS:C	3:D:686:GLU:N	2.68	0.47
3:D:80:VAL:HG22	3:D:81:THR:N	2.30	0.47
3:D:827:ILE:HG23	3:D:837:GLY:CA	2.44	0.47
4:E:38:THR:HA	4:E:67:GLU:OE2	2.15	0.47
3:D:767:HIS:HE1	4:E:6:ILE:HG12	1.79	0.47
5:F:406:ARG:O	5:F:409:LYS:HG2	2.13	0.47
1:L:18:ARG:NH1	1:L:203:GLY:O	2.48	0.47
2:M:1092:LEU:CD2	2:M:1099:VAL:HG11	2.45	0.47
2:M:432:ARG:HH22	3:N:1047:LYS:NZ	2.12	0.47
2:M:410:ILE:HB	2:M:453:THR:O	2.14	0.47
2:M:515:ALA:O	2:M:516:ARG:HD3	2.15	0.47
2:M:632:ASN:HB3	2:M:633:GLN:NE2	2.30	0.47
3:N:1045:MET:CG	3:N:1073:SER:HA	2.45	0.47
3:N:1101:VAL:HG13	3:N:1102:THR:OG1	2.15	0.47
3:N:1209:LEU:CD1	3:N:1216:SER:H	2.28	0.47
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.30	0.47
3:N:1268:PRO:HB3	3:N:1329:ALA:HB3	1.97	0.47
3:N:178:LEU:HD23	3:N:178:LEU:O	2.15	0.47
3:N:764:LEU:CG	3:N:765:SER:N	2.68	0.47
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.70	0.47
3:N:853:VAL:C	3:N:855:HIS:H	2.19	0.47
5:P:132:ARG:HG2	5:P:181:GLU:HG3	1.96	0.47
3:N:387:LEU:HB2	5:P:94:LEU:HD11	1.97	0.47
1:A:51:THR:HA	1:A:145:ASP:O	2.14	0.46
1:A:221:HIS:CE1	1:A:224:TYR:HE2	2.33	0.46
1:A:98:THR:C	1:A:99:LEU:HD12	2.34	0.46
2:C:66:LEU:CD1	2:C:100:LEU:HB3	2.44	0.46
2:C:1095:LEU:O	2:C:1096:ALA:C	2.53	0.46
2:C:582:GLY:N	2:C:584:GLU:OE2	2.47	0.46
2:C:672:VAL:HG21	2:C:868:ASP:HB2	1.93	0.46
2:C:923:GLU:OE1	2:C:927:GLY:HA2	2.15	0.46
2:C:923:GLU:O	2:C:927:GLY:CA	2.62	0.46
3:D:1169:ASP:HA	3:D:1172:HIS:HB2	1.97	0.46
3:D:1256:LEU:N	3:D:1257:PRO:CD	2.78	0.46
3:D:1277:ILE:HG22	3:D:1278:ASP:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.44	0.46
3:D:1370:ILE:O	3:D:1372:VAL:N	2.48	0.46
3:D:1437:ALA:C	3:D:1446:VAL:HG11	2.34	0.46
3:D:384:VAL:HG12	3:D:385:VAL:N	2.30	0.46
3:D:473:LEU:HD11	3:D:495:ARG:NH2	2.29	0.46
3:D:614:PHE:O	3:D:617:ASN:N	2.47	0.46
3:D:67:ARG:NE	3:D:67:ARG:HA	2.29	0.46
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.96	0.46
3:D:890:VAL:HG12	3:D:926:LYS:CG	2.44	0.46
1:L:33:GLY:HA2	1:L:195:LEU:HB2	1.97	0.46
2:M:218:VAL:O	2:M:221:LEU:HB3	2.15	0.46
2:M:841:ASN:CG	2:M:842:ARG:N	2.68	0.46
3:N:1129:THR:CG2	3:N:1130:ARG:H	2.20	0.46
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.96	0.46
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.23	0.46
3:N:1396:GLU:HA	3:N:1399:ASP:HB2	1.97	0.46
3:N:376:GLU:N	3:N:376:GLU:OE1	2.43	0.46
3:N:399:ARG:HD3	3:N:402:PRO:HG3	1.97	0.46
5:P:129:GLU:O	5:P:142:ARG:NH1	2.47	0.46
5:P:238:TYR:CZ	5:P:242:TRP:NE1	2.75	0.46
5:P:239:ALA:O	5:P:240:THR:C	2.53	0.46
5:P:406:ARG:HG2	5:P:409:LYS:CE	2.45	0.46
5:P:416:ARG:HD3	5:P:419:ARG:CB	2.45	0.46
1:A:203:GLY:O	1:A:205:VAL:N	2.49	0.46
1:A:228:PRO:HB3	1:B:13:VAL:CG2	2.46	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
1:B:27:PRO:CG	1:B:186:LEU:HD12	2.44	0.46
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.97	0.46
2:C:861:LEU:O	2:C:862:PRO:C	2.54	0.46
3:D:1000:THR:HA	3:D:1041:LEU:HD21	1.96	0.46
3:D:1264:GLU:O	3:D:1265:ALA:C	2.54	0.46
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.46	0.46
3:D:1441:GLN:CA	3:D:1441:GLN:NE2	2.77	0.46
3:D:233:LYS:NZ	3:D:237:LYS:HD2	2.30	0.46
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.97	0.46
3:D:401:TYR:CD2	3:D:415:VAL:HG13	2.51	0.46
3:D:128:TYR:O	3:D:568:ARG:NH2	2.48	0.46
3:D:700:VAL:HG13	3:D:718:PRO:CG	2.46	0.46
3:D:926:LYS:O	3:D:929:ARG:HB3	2.15	0.46
3:D:95:LEU:HA	3:D:551:ASN:HD21	1.80	0.46
5:F:215:GLU:O	5:F:246:ALA:HB1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:57:TYR:CZ	1:L:161:ARG:HD3	2.50	0.46
2:M:1008:ARG:HD2	2:M:1029:GLY:H	1.76	0.46
2:M:290:LEU:HD22	2:M:302:VAL:HB	1.97	0.46
2:M:39:ARG:O	2:M:41:ASN:N	2.48	0.46
2:M:537:LYS:O	2:M:539:VAL:N	2.48	0.46
2:M:744:ARG:HG2	2:M:744:ARG:HH11	1.80	0.46
3:N:139:GLY:HA2	3:N:452:ILE:CG1	2.42	0.46
3:N:2:LYS:HB3	3:N:3:LYS:HE2	1.96	0.46
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.97	0.46
3:N:540:LEU:O	3:N:543:LEU:HB2	2.15	0.46
3:N:556:LYS:C	3:N:558:LEU:H	2.19	0.46
2:M:1005:MET:HA	3:N:628:ARG:O	2.14	0.46
3:N:647:ARG:O	3:N:647:ARG:HG3	2.15	0.46
2:M:1094:ALA:HA	3:N:90:MET:CE	2.45	0.46
3:N:598:ARG:HH22	5:P:318:GLU:HG3	1.79	0.46
1:A:154:GLU:OE2	1:A:168:ASP:OD1	2.34	0.46
2:C:1053:LEU:O	3:D:621:LYS:NZ	2.44	0.46
2:C:332:ARG:HG3	2:C:465:GLY:CA	2.44	0.46
3:D:1237:THR:HG22	3:D:1238:MET:N	2.30	0.46
2:C:1041:GLU:HB3	3:D:1462:LEU:HD12	1.96	0.46
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	2.51	0.46
3:D:34:TYR:O	3:D:35:ARG:C	2.54	0.46
3:D:54:LYS:O	3:D:55:ASP:O	2.33	0.46
3:D:631:ILE:HD11	3:D:743:ASP:HB3	1.97	0.46
3:D:722:GLU:HA	3:D:722:GLU:OE1	2.15	0.46
4:E:41:GLU:HA	4:E:45:ARG:HG3	1.97	0.46
1:K:189:ARG:HG2	1:K:190:THR:N	2.23	0.46
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.47	0.46
2:M:1032:PHE:CE1	2:M:1052:MET:HG2	2.51	0.46
2:M:1055:LEU:H	2:M:1055:LEU:CD2	2.11	0.46
2:M:1092:LEU:HD23	2:M:1099:VAL:CG1	2.46	0.46
2:M:1095:LEU:O	2:M:1096:ALA:C	2.53	0.46
2:M:1097:LEU:N	2:M:1097:LEU:CD1	2.77	0.46
2:M:1109:VAL:HG12	2:M:1110:ASP:N	2.26	0.46
2:M:205:GLU:HA	2:M:209:ARG:NE	2.31	0.46
2:M:279:GLU:CD	2:M:280:LYS:HE3	2.35	0.46
2:M:92:ALA:HB2	2:M:120:LEU:HG	1.98	0.46
3:N:102:ILE:HD12	3:N:579:ASP:HB3	1.96	0.46
3:N:153:LEU:N	3:N:153:LEU:HD23	2.30	0.46
3:N:455:ARG:HH22	5:P:140:ARG:HB2	1.78	0.46
3:N:485:SER:O	3:N:486:ARG:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:574:LEU:O	3:N:577:ALA:HB3	2.15	0.46
3:N:908:LYS:HE3	3:N:908:LYS:HB2	1.60	0.46
3:N:916:TYR:CE2	3:N:920:LEU:HD22	2.51	0.46
1:A:44:LEU:HD23	1:A:48:ILE:CD1	2.45	0.46
1:B:122:ILE:HG22	1:B:124:ASN:H	1.80	0.46
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.79	0.46
2:C:442:GLU:O	2:C:442:GLU:HG3	2.15	0.46
3:D:1391:GLU:O	3:D:1392:GLY:O	2.33	0.46
3:D:1396:GLU:O	3:D:1397:LYS:C	2.51	0.46
3:D:1478:SER:C	3:D:1482:ARG:HG3	2.36	0.46
3:D:93:ILE:HD11	3:D:548:ILE:HD11	1.97	0.46
3:D:571:LYS:O	3:D:574:LEU:HB3	2.15	0.46
2:C:915:LYS:NZ	3:D:952:ASP:CG	2.68	0.46
3:D:1495:ILE:HG12	4:E:80:VAL:HG13	1.98	0.46
5:F:368:VAL:HG21	5:F:389:PHE:CD1	2.50	0.46
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.50	0.46
1:L:177:VAL:HG22	1:L:199:ILE:HG23	1.98	0.46
2:M:1054:THR:CG2	2:M:1055:LEU:HD23	2.45	0.46
2:M:176:VAL:CG1	2:M:182:VAL:HG22	2.44	0.46
2:M:337:GLY:O	2:M:338:GLU:C	2.54	0.46
2:M:559:LEU:HD12	2:M:559:LEU:O	2.16	0.46
2:M:626:ARG:HG2	2:M:629:TYR:CE1	2.50	0.46
2:M:804:VAL:HB	2:M:824:ARG:HB2	1.97	0.46
2:M:840:ALA:O	2:M:995:MET:CE	2.64	0.46
3:N:1274:ILE:O	3:N:1274:ILE:HD12	2.16	0.46
3:N:43:GLY:O	3:N:45:PHE:N	2.49	0.46
1:B:2:LEU:HD13	1:B:3:ASP:H	1.79	0.46
2:C:430:VAL:O	2:C:430:VAL:HG13	2.16	0.46
2:C:579:VAL:O	2:C:579:VAL:HG13	2.16	0.46
2:C:632:ASN:HB2	2:C:633:GLN:HE22	1.78	0.46
2:C:748:GLU:HB2	2:C:799:ILE:HG22	1.97	0.46
2:C:893:ALA:O	2:C:897:LEU:N	2.40	0.46
2:C:945:ARG:O	2:C:947:ALA:N	2.48	0.46
3:D:1084:THR:O	3:D:1088:THR:N	2.49	0.46
3:D:1376:MET:C	3:D:1378:TYR:N	2.68	0.46
3:D:1451:ALA:O	3:D:1452:ILE:C	2.53	0.46
2:C:1106:ASP:OD1	3:D:1456:LYS:HD3	2.16	0.46
3:D:218:LYS:O	3:D:219:GLU:HB3	2.15	0.46
3:D:420:VAL:HG12	3:D:420:VAL:O	2.15	0.46
3:D:568:ARG:CA	3:D:571:LYS:NZ	2.72	0.46
2:C:1031:ARG:HG3	3:D:620:GLY:HA3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:703:ASN:O	3:D:745:MET:HG3	2.16	0.46
2:C:1115:LEU:CD2	3:D:85:VAL:HG13	2.36	0.46
5:F:137:GLY:CA	5:F:140:ARG:NH2	2.78	0.46
1:K:133:GLU:HG2	1:K:134:GLU:N	2.29	0.46
1:K:214:ALA:O	1:K:217:ILE:HB	2.16	0.46
1:K:35:THR:CG2	1:L:39:PRO:HB3	2.45	0.46
1:L:176:ARG:HD2	1:L:200:TRP:CZ3	2.51	0.46
2:M:124:ASP:CB	2:M:407:LYS:HZ2	2.29	0.46
2:M:176:VAL:C	2:M:178:PRO:HD3	2.36	0.46
2:M:376:ARG:N	2:M:377:PRO:CD	2.79	0.46
2:M:605:LYS:HD2	2:M:610:ARG:HH12	1.79	0.46
2:M:901:TYR:CE2	2:M:917:LEU:CD1	2.92	0.46
2:M:668:LEU:O	2:M:995:MET:HB3	2.16	0.46
3:N:1189:ARG:NH1	3:N:1204:CYS:HA	2.30	0.46
3:N:1489:GLN:HA	3:N:1492:LEU:CB	2.46	0.46
5:P:166:LEU:HB3	5:P:170:HIS:CB	2.42	0.46
5:P:260:ILE:HG12	5:P:264:MET:HB3	1.97	0.46
5:P:333:ILE:HA	5:P:334:PRO:HD3	1.70	0.46
3:N:387:LEU:HD12	5:P:96:LEU:HB2	1.96	0.46
2:C:1057:SER:OG	3:D:621:LYS:HE3	2.14	0.46
2:C:576:ALA:HB3	2:C:900:ARG:HH21	1.80	0.46
3:D:1154:GLU:CG	3:D:1159:ARG:HH11	2.24	0.46
3:D:1200:VAL:HG22	3:D:1373:ARG:NH1	2.31	0.46
3:D:1211:MET:HG2	3:D:1213:ARG:NH1	2.31	0.46
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.15	0.46
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.30	0.46
3:D:500:ARG:NH1	3:D:500:ARG:HG3	2.30	0.46
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.31	0.46
3:D:674:ARG:CZ	5:F:342:VAL:HG11	2.46	0.46
4:E:39:VAL:HG23	4:E:40:LEU:HG	1.97	0.46
5:F:84:TYR:CE1	5:F:192:LEU:HD22	2.51	0.46
2:M:139:GLN:HA	2:M:411:SER:O	2.16	0.46
2:M:521:PRO:HG3	3:N:1068:LEU:CD2	2.46	0.46
3:N:1102:THR:O	3:N:1105:ILE:HG12	2.16	0.46
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	1.97	0.46
3:N:1108:ARG:CG	3:N:1108:ARG:O	2.64	0.46
3:N:1378:TYR:HB3	3:N:1420:LEU:CD2	2.44	0.46
3:N:1381:VAL:HG12	3:N:1382:THR:H	1.80	0.46
3:N:14:SER:OG	3:N:511:TRP:NE1	2.31	0.46
3:N:853:VAL:C	3:N:855:HIS:N	2.68	0.46
5:P:138:SER:O	5:P:140:ARG:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:137:GLY:HA2	5:P:140:ARG:NH2	2.30	0.46
5:P:269:ASN:O	5:P:272:SER:OG	2.26	0.46
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.97	0.46
2:C:1092:LEU:HG	3:D:607:LEU:HD13	1.98	0.46
2:C:73:LEU:N	2:C:73:LEU:HD12	2.29	0.46
2:C:835:VAL:HG22	3:D:632:VAL:HG21	1.96	0.46
3:D:154:THR:HB	3:D:157:GLU:HG3	1.96	0.46
3:D:166:GLN:NE2	3:D:167:GLU:H	2.14	0.46
3:D:400:VAL:HA	3:D:442:ASN:O	2.15	0.46
3:D:662:GLU:OE1	3:D:663:GLU:N	2.48	0.46
3:D:732:VAL:O	3:D:735:ALA:N	2.47	0.46
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.95	0.46
2:M:1049:LEU:O	2:M:1049:LEU:HG	2.14	0.46
2:M:140:ILE:HD11	2:M:410:ILE:HG21	1.97	0.46
2:M:443:THR:HB	2:M:444:PRO:CD	2.46	0.46
2:M:446:GLY:O	2:M:447:ALA:C	2.54	0.46
2:M:546:LEU:HA	2:M:581:THR:OG1	2.15	0.46
2:M:567:GLN:HB3	2:M:997:LEU:HD22	1.97	0.46
3:N:1009:LYS:HD3	3:N:1009:LYS:HA	1.60	0.46
3:N:245:LEU:C	3:N:245:LEU:HD22	2.36	0.46
3:N:385:VAL:CG1	5:P:232:ARG:NH1	2.75	0.46
3:N:422:ALA:HB1	5:P:178:ARG:NH2	2.29	0.46
3:N:792:ILE:HD12	3:N:941:PHE:CD1	2.51	0.46
3:N:828:LYS:C	3:N:829:VAL:HG22	2.35	0.46
3:N:964:LEU:O	3:N:968:ASP:HB2	2.16	0.46
1:A:62:LEU:HD12	1:A:62:LEU:N	2.30	0.46
2:C:1056:LYS:HB3	3:D:624:ASP:N	2.31	0.46
2:C:106:GLY:C	2:C:107:LEU:HD23	2.36	0.46
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.27	0.46
2:C:678:PRO:HA	2:C:683:ASN:HD21	1.81	0.46
2:C:783:ARG:C	2:C:785:VAL:H	2.19	0.46
2:C:560:MET:CE	2:C:846:LYS:HD2	2.45	0.46
3:D:996:TRP:CD1	3:D:1056:PRO:HG2	2.50	0.46
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.97	0.46
3:D:224:ARG:HG2	3:D:225:LEU:N	2.30	0.46
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.98	0.46
3:D:34:TYR:CD1	3:D:35:ARG:N	2.83	0.46
3:D:887:ALA:HA	3:D:896:ALA:HB1	1.97	0.46
3:D:995:LEU:HA	3:D:998:GLU:OE1	2.16	0.46
5:F:167:PRO:HD2	5:F:170:HIS:CD2	2.51	0.46
2:M:1036:GLU:O	2:M:1039:ALA:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1052:MET:SD	2:M:1056:LYS:CE	3.04	0.46
2:M:413:LEU:CD1	2:M:451:LEU:HB3	2.46	0.46
2:M:585:GLU:O	2:M:588:VAL:HG22	2.16	0.46
2:M:737:LEU:CD2	2:M:741:GLY:O	2.64	0.46
3:N:1258:ARG:HA	3:N:1261:GLU:HB3	1.98	0.46
3:N:103:TRP:CZ3	3:N:1447:LEU:HD23	2.50	0.46
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.16	0.46
3:N:123:LEU:CD2	3:N:152:LEU:HD22	2.45	0.46
3:N:217:LYS:O	3:N:373:PRO:HA	2.16	0.46
3:N:49:ILE:HG22	3:N:50:PHE:CD2	2.51	0.46
4:O:30:LEU:O	4:O:35:PHE:CD1	2.68	0.46
4:O:57:ASP:N	4:O:58:PRO:HD3	2.30	0.46
5:P:203:THR:O	5:P:205:ARG:N	2.49	0.46
1:A:67:THR:O	1:A:67:THR:HG23	2.16	0.46
1:B:219:ARG:C	1:B:221:HIS:H	2.18	0.46
2:C:1045:ALA:HB1	2:C:1048:THR:CB	2.40	0.46
2:C:1059:ASP:CG	2:C:1080:SER:HB2	2.36	0.46
2:C:16:PRO:O	2:C:17:PRO:C	2.51	0.46
2:C:26:TYR:HE1	2:C:340:MET:HG3	1.79	0.46
2:C:559:LEU:O	2:C:560:MET:C	2.54	0.46
2:C:674:VAL:HA	2:C:869:VAL:CG1	2.46	0.46
2:C:723:THR:OG1	2:C:724:ARG:N	2.49	0.46
2:C:923:GLU:CD	2:C:927:GLY:CA	2.84	0.46
3:D:1021:TYR:CZ	3:D:1025:GLN:HG3	2.51	0.46
3:D:544:TYR:O	3:D:545:ARG:C	2.51	0.46
3:D:770:LEU:HD11	3:D:919:PHE:CD1	2.51	0.46
3:D:901:GLN:C	3:D:903:ASP:H	2.19	0.46
3:D:1491:THR:HG21	4:E:89:MET:SD	2.55	0.46
5:F:87:GLU:HA	5:F:90:GLN:HE21	1.81	0.46
1:L:56:VAL:HB	1:L:165:ILE:HG13	1.98	0.46
2:M:143:SER:CB	2:M:276:LYS:HZ3	2.28	0.46
2:M:495:THR:N	2:M:530:GLU:OE1	2.46	0.46
2:M:572:ILE:HG13	2:M:573:ARG:HG2	1.98	0.46
2:M:69:LEU:C	2:M:70:GLU:HG3	2.36	0.46
2:M:859:PRO:HB2	2:M:867:VAL:HG21	1.98	0.46
2:M:9:ILE:O	2:M:10:ARG:C	2.54	0.46
3:N:1282:ARG:HH12	3:N:1293:PHE:CB	2.28	0.46
3:N:1423:GLY:C	3:N:1425:THR:H	2.19	0.46
3:N:194:GLY:N	3:N:205:TYR:O	2.49	0.46
3:N:218:LYS:HZ2	3:N:218:LYS:HB2	1.78	0.46
3:N:411:THR:CG2	3:N:429:SER:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:137:PRO:CG	3:N:453:ASP:HB3	2.46	0.46
3:N:12:LEU:CB	3:N:507:ASN:ND2	2.74	0.46
3:N:583:ASP:OD1	3:N:604:THR:CG2	2.64	0.46
3:N:940:THR:O	3:N:943:THR:HG22	2.15	0.46
5:P:179:GLU:O	5:P:182:ALA:HB3	2.16	0.46
1:B:14:ARG:O	1:B:21:GLY:HA2	2.16	0.46
2:C:118:ILE:O	2:C:118:ILE:HG23	2.15	0.46
2:C:19:THR:HG22	2:C:19:THR:O	2.16	0.46
2:C:286:SER:HB2	2:C:299:LYS:HZ2	1.80	0.46
2:C:439:CYS:SG	2:C:442:GLU:HB2	2.56	0.46
2:C:850:ALA:HB1	3:D:633:VAL:HG12	1.98	0.46
3:D:1209:LEU:HD12	3:D:1219:GLU:OE1	2.16	0.46
3:D:382:GLU:CG	3:D:383:GLY:H	2.20	0.46
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.46	0.46
3:D:904:VAL:HB	3:D:905:PRO:CD	2.46	0.46
5:F:329:TYR:O	5:F:332:PHE:HB2	2.15	0.46
1:K:179:PHE:HA	1:K:197:LEU:HA	1.98	0.46
2:M:1047:HIS:CE1	3:N:754:PHE:CG	3.04	0.46
2:M:1047:HIS:CG	3:N:754:PHE:CG	3.04	0.46
2:M:311:PHE:O	2:M:314:THR:OG1	2.26	0.46
2:M:734:LEU:HD13	2:M:737:LEU:CD1	2.46	0.46
2:M:865:THR:HA	2:M:866:PRO:HD3	1.64	0.46
3:N:1008:PHE:HZ	3:N:1032:PRO:HA	1.81	0.46
3:N:1372:VAL:CA	3:N:1375:MET:HG3	2.46	0.46
3:N:481:MET:HE1	3:N:1388:ARG:CG	2.45	0.46
3:N:6:ARG:C	3:N:7:LYS:HG3	2.37	0.46
1:B:68:ILE:O	1:B:71:VAL:HB	2.15	0.45
2:C:458:TYR:O	2:C:470:PRO:HD3	2.15	0.45
2:C:807:ARG:HH21	2:C:808:ARG:CB	2.26	0.45
3:D:1211:MET:HB3	3:D:1213:ARG:CZ	2.46	0.45
3:D:1440:PHE:N	3:D:1440:PHE:CD1	2.84	0.45
3:D:247:GLU:N	3:D:248:PRO:HD2	2.28	0.45
3:D:433:GLY:O	3:D:434:ARG:NH1	2.49	0.45
3:D:508:ARG:HG3	3:D:508:ARG:HH11	1.81	0.45
3:D:559:ALA:C	3:D:561:GLY:H	2.19	0.45
3:D:898:GLU:OE2	3:D:921:ARG:NH1	2.49	0.45
3:D:927:THR:O	3:D:930:LEU:N	2.48	0.45
5:F:100:VAL:O	5:F:103:ALA:HB3	2.17	0.45
5:F:128:ARG:HD3	5:F:132:ARG:HH22	1.81	0.45
5:F:215:GLU:O	5:F:218:GLN:HB3	2.16	0.45
5:F:336:GLU:O	5:F:337:HIS:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:115:LEU:O	1:K:117:VAL:HG23	2.16	0.45
1:K:169:ALA:HB1	1:K:171:PHE:CZ	2.51	0.45
2:M:1019:GLN:O	2:M:1020:PRO:O	2.34	0.45
2:M:424:GLY:O	2:M:428:ARG:HG3	2.16	0.45
2:M:521:PRO:HG3	3:N:1068:LEU:HD21	1.96	0.45
2:M:630:ARG:NE	2:M:705:ILE:O	2.48	0.45
2:M:673:LEU:HD11	2:M:895:TYR:CE2	2.51	0.45
2:M:728:HIS:C	2:M:729:LEU:HD22	2.36	0.45
2:M:754:ILE:HD11	2:M:791:ARG:HH11	1.81	0.45
3:N:368:VAL:CG2	3:N:369:ALA:H	2.23	0.45
3:N:404:GLU:OE1	3:N:414:ARG:CZ	2.63	0.45
3:N:27:GLU:HG2	3:N:42:ASP:HB2	1.98	0.45
3:N:486:ARG:NE	3:N:486:ARG:HA	2.30	0.45
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.43	0.45
3:N:53:ILE:HG23	3:N:54:LYS:N	2.31	0.45
3:N:661:MET:HE1	3:N:673:ALA:HB1	1.99	0.45
3:N:772:PRO:HG3	3:N:1210:SER:OG	2.15	0.45
3:N:810:GLU:O	3:N:813:LEU:HG	2.16	0.45
3:N:779:ALA:O	3:N:931:LEU:HD22	2.16	0.45
5:P:94:LEU:HD13	5:P:94:LEU:C	2.37	0.45
1:A:13:VAL:CG1	1:A:14:ARG:H	2.27	0.45
1:A:227:ASN:H	1:A:227:ASN:ND2	2.14	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.97	0.45
2:C:207:LEU:HD13	2:C:221:LEU:HD11	1.98	0.45
3:D:1426:LYS:C	3:D:1428:ALA:N	2.68	0.45
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.98	0.45
3:D:173:PRO:HG2	3:D:200:ASP:HB2	1.97	0.45
3:D:228:ALA:HB1	3:D:231:VAL:CG2	2.46	0.45
3:D:60:CYS:SG	3:D:61:GLY:N	2.89	0.45
4:E:9:LEU:HB3	4:E:19:LEU:CD2	2.46	0.45
1:K:52:ALA:HB3	1:K:171:PHE:HD1	1.81	0.45
1:L:171:PHE:O	1:L:172:SER:C	2.55	0.45
1:L:7:LYS:HE3	1:L:186:LEU:HD22	1.97	0.45
2:M:1014:SER:CB	2:M:1017:THR:HG23	2.46	0.45
2:M:1054:THR:HG22	2:M:1055:LEU:HD23	1.97	0.45
2:M:18:LEU:HB2	2:M:590:ASP:CG	2.37	0.45
3:N:1039:CYS:O	3:N:1040:GLY:O	2.35	0.45
3:N:375:GLU:HG3	3:N:375:GLU:O	2.17	0.45
3:N:97:THR:HG21	3:N:571:LYS:CE	2.46	0.45
3:N:691:LEU:CD2	3:N:720:LEU:HD11	2.45	0.45
5:P:239:ALA:O	5:P:242:TRP:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:321:ILE:CD1	5:P:329:TYR:HB2	2.41	0.45
1:B:110:LYS:C	1:B:112:ARG:H	2.19	0.45
2:C:385:PHE:C	2:C:387:SER:H	2.20	0.45
3:D:1223:ILE:HD12	3:D:1223:ILE:N	2.31	0.45
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.98	0.45
2:C:1109:VAL:CG1	3:D:5:VAL:HG22	2.25	0.45
1:L:48:ILE:HD12	1:L:174:VAL:HG21	1.97	0.45
2:M:172:ILE:N	2:M:172:ILE:HD12	2.32	0.45
3:N:1006:ALA:O	3:N:1009:LYS:N	2.50	0.45
3:N:1304:LYS:HD3	3:N:1304:LYS:H	1.81	0.45
3:N:137:PRO:HB2	3:N:138:LYS:HD2	1.98	0.45
3:N:486:ARG:HA	3:N:489:ARG:HD2	1.95	0.45
3:N:847:ASP:OD2	3:N:884:ARG:NH2	2.48	0.45
4:O:63:TRP:O	4:O:67:GLU:N	2.49	0.45
1:A:124:ASN:HB3	1:A:127:LEU:HD23	1.98	0.45
1:A:22:GLU:C	1:A:23:PHE:CD2	2.90	0.45
1:B:100:LEU:HB2	1:B:115:LEU:HD21	1.99	0.45
1:B:79:ILE:O	1:B:83:LYS:HG3	2.15	0.45
2:C:126:SER:HB3	2:C:395:LYS:HZ1	1.80	0.45
2:C:148:PHE:CZ	2:C:309:TYR:HB3	2.51	0.45
2:C:516:ARG:HD2	2:C:521:PRO:HA	1.98	0.45
2:C:694:LEU:CD2	2:C:697:ARG:NH2	2.74	0.45
2:C:759:THR:HB	2:C:785:VAL:CG2	2.46	0.45
2:C:889:HIS:C	2:C:891:GLY:N	2.69	0.45
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.96	0.45
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.31	0.45
3:D:1229:ILE:HG22	3:D:1229:ILE:O	2.16	0.45
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.16	0.45
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.52	0.45
3:D:674:ARG:HG2	3:D:674:ARG:HH11	1.82	0.45
3:D:704:ARG:CG	3:D:705:ALA:H	2.29	0.45
3:D:752:SER:O	3:D:754:PHE:N	2.49	0.45
3:D:919:PHE:O	3:D:919:PHE:HD2	2.00	0.45
3:D:937:TYR:CD1	3:D:937:TYR:N	2.73	0.45
1:L:175:ARG:HG2	1:L:175:ARG:HH11	1.82	0.45
2:M:118:ILE:O	2:M:118:ILE:HG13	2.16	0.45
2:M:15:LEU:O	2:M:586:ARG:NH2	2.49	0.45
2:M:347:GLY:HA3	2:M:378:LEU:HD12	1.98	0.45
2:M:344:PHE:CE2	2:M:378:LEU:HD21	2.51	0.45
2:M:474:VAL:HG13	2:M:529:VAL:O	2.15	0.45
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:556:ASN:O	2:M:559:LEU:HB3	2.17	0.45
2:M:575:GLN:OE1	2:M:671:ASN:N	2.49	0.45
2:M:883:GLY:O	2:M:885:ILE:N	2.49	0.45
2:M:967:PHE:HA	2:M:971:LYS:O	2.17	0.45
2:M:880:MET:CE	3:N:1034:GLN:HG2	2.46	0.45
3:N:1343:ALA:O	3:N:1345:GLU:N	2.49	0.45
3:N:500:ARG:NH1	3:N:1386:ASP:O	2.50	0.45
3:N:1446:VAL:O	3:N:1446:VAL:HG12	2.16	0.45
3:N:424:GLY:HA2	3:N:435:VAL:O	2.17	0.45
3:N:47:GLU:OE1	3:N:51:GLY:O	2.34	0.45
3:N:562:ALA:O	3:N:567:ILE:HD11	2.17	0.45
3:N:902:LEU:O	3:N:902:LEU:CD1	2.64	0.45
5:P:105:LYS:CB	5:P:105:LYS:NZ	2.72	0.45
5:P:394:ARG:H	5:P:394:ARG:CD	2.28	0.45
2:C:1005:MET:HE1	3:D:645:PRO:HG2	1.97	0.45
2:C:1083:GLU:OE1	3:D:87:ARG:NH1	2.49	0.45
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.74	0.45
2:C:134:ARG:NH1	2:C:392:SER:OG	2.49	0.45
2:C:470:PRO:O	2:C:538:GLN:OE1	2.35	0.45
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.98	0.45
3:D:1331:ASP:OD2	3:D:1331:ASP:C	2.54	0.45
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.16	0.45
3:D:31:THR:HG22	3:D:32:ILE:HG13	1.99	0.45
3:D:843:PHE:CZ	3:D:858:VAL:HG21	2.50	0.45
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.44	0.45
5:F:192:LEU:HA	5:F:195:VAL:HG23	1.97	0.45
1:K:111:ALA:O	1:K:114:PHE:HD1	1.99	0.45
1:K:91:ASN:HA	1:K:91:ASN:HD22	1.59	0.45
2:M:1054:THR:CG2	2:M:1059:ASP:OD2	2.63	0.45
2:M:243:ARG:HA	2:M:244:PRO:HD3	1.45	0.45
2:M:290:LEU:N	2:M:290:LEU:HD23	2.20	0.45
2:M:406:HIS:HD2	2:M:409:ARG:NH2	2.15	0.45
2:M:497:ALA:O	2:M:533:ASP:OD1	2.35	0.45
2:M:682:TYR:CE1	3:N:635:PRO:HD2	2.51	0.45
2:M:712:ALA:O	2:M:820:ARG:N	2.46	0.45
2:M:881:ASN:N	2:M:881:ASN:HD22	2.13	0.45
3:N:1036:ARG:HH11	3:N:1036:ARG:CB	2.28	0.45
3:N:1371:VAL:O	3:N:1371:VAL:HG12	2.16	0.45
3:N:1381:VAL:HG12	3:N:1382:THR:N	2.31	0.45
3:N:1383:ASP:O	3:N:1384:PRO:O	2.35	0.45
3:N:103:TRP:HH2	3:N:1447:LEU:HD23	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:148:GLU:O	3:N:150:ARG:N	2.49	0.45
3:N:502:PHE:CE2	3:N:1452:ILE:HG23	2.52	0.45
3:N:817:GLU:O	3:N:821:VAL:HG23	2.16	0.45
1:A:44:LEU:HD23	1:A:48:ILE:HD11	1.98	0.45
1:B:96:THR:HA	1:B:144:VAL:O	2.17	0.45
2:C:167:LYS:O	2:C:169:GLY:N	2.50	0.45
2:C:288:ARG:HE	2:C:288:ARG:HA	1.80	0.45
2:C:397:GLU:HG3	2:C:633:GLN:NE2	2.32	0.45
1:A:180:GLN:HE22	2:C:934:PHE:HB2	1.82	0.45
3:D:1001:GLU:CD	3:D:1001:GLU:C	2.75	0.45
3:D:166:GLN:HG3	3:D:167:GLU:N	2.31	0.45
3:D:740:PHE:C	3:D:742:GLY:N	2.70	0.45
3:D:786:ILE:O	3:D:787:LEU:C	2.55	0.45
1:L:26:GLU:HB2	1:L:194:LYS:HG3	1.97	0.45
1:L:91:ASN:H	1:L:94:LEU:CD1	2.24	0.45
2:M:344:PHE:CD2	2:M:382:ILE:HD11	2.51	0.45
2:M:443:THR:HG21	2:M:450:GLY:HA2	1.98	0.45
2:M:690:ILE:HD13	2:M:690:ILE:HA	1.85	0.45
3:N:1388:ARG:O	3:N:1391:GLU:HG2	2.17	0.45
3:N:636:GLN:O	3:N:637:LEU:O	2.34	0.45
3:N:631:ILE:HD11	3:N:743:ASP:HB2	1.97	0.45
3:N:885:ILE:HD13	3:N:937:TYR:CG	2.52	0.45
5:P:274:THR:O	5:P:278:LEU:HG	2.16	0.45
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.80	0.45
2:C:1004:LYS:CE	2:C:1027:PHE:HE1	2.30	0.45
2:C:95:TYR:HB3	2:C:114:PHE:CA	2.46	0.45
2:C:332:ARG:HG3	2:C:465:GLY:O	2.17	0.45
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.52	0.45
3:D:1198:TYR:OH	3:D:1397:LYS:HE3	2.16	0.45
3:D:1426:LYS:HB2	3:D:1426:LYS:HZ3	1.82	0.45
3:D:177:ALA:HA	3:D:199:LEU:HD13	1.99	0.45
3:D:441:ARG:O	3:D:443:VAL:N	2.50	0.45
3:D:601:ARG:CZ	3:D:611:GLN:HB2	2.47	0.45
5:F:210:LEU:HD23	5:F:213:ILE:CD1	2.47	0.45
1:K:10:VAL:H	1:K:26:GLU:HB2	1.82	0.45
1:K:124:ASN:O	1:K:126:ASP:N	2.49	0.45
1:L:150:TYR:CE1	1:L:170:VAL:HG12	2.51	0.45
2:M:1054:THR:HG23	2:M:1059:ASP:HB2	1.98	0.45
2:M:1088:LEU:O	2:M:1091:GLU:N	2.50	0.45
2:M:304:LEU:HD23	2:M:304:LEU:C	2.37	0.45
2:M:157:ARG:CZ	2:M:314:THR:CA	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:31:GLN:NE2	2:M:40:GLU:O	2.50	0.45
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.47	0.45
2:M:537:LYS:N	2:M:905:ILE:HD11	2.32	0.45
2:M:643:VAL:HG23	2:M:655:LEU:O	2.16	0.45
2:M:732:ALA:O	2:M:735:ARG:HG3	2.16	0.45
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.32	0.45
3:N:1040:GLY:O	3:N:1060:SER:CB	2.54	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:CB	2.46	0.45
2:M:949:LYS:NZ	3:N:828:LYS:NZ	2.64	0.45
5:P:131:VAL:O	5:P:131:VAL:HG12	2.16	0.45
5:P:369:LEU:HD23	5:P:369:LEU:HA	1.85	0.45
1:A:153:ALA:O	1:A:154:GLU:C	2.55	0.45
1:A:151:VAL:CG1	1:A:155:LYS:HB3	2.47	0.45
2:C:164:PRO:HB3	2:C:266:ARG:NH1	2.32	0.45
2:C:537:LYS:CB	2:C:545:ASN:HD21	2.30	0.45
2:C:575:GLN:HA	2:C:662:GLU:OE2	2.17	0.45
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.52	0.45
2:C:575:GLN:HA	2:C:662:GLU:HG3	1.99	0.45
2:C:918:LEU:CB	2:C:968:LEU:HD23	2.47	0.45
2:C:936:VAL:HA	2:C:940:GLU:OE2	2.17	0.45
3:D:1143:GLY:O	3:D:1144:LEU:HD23	2.16	0.45
3:D:18:ILE:HG21	3:D:516:ALA:O	2.17	0.45
3:D:510:GLU:O	3:D:513:ILE:HG13	2.17	0.45
3:D:527:MET:CE	3:D:535:PHE:HB3	2.46	0.45
3:D:456:MET:HG2	3:D:568:ARG:NH1	2.32	0.45
3:D:50:PHE:O	3:D:89:ARG:HD2	2.17	0.45
2:C:1093:GLN:OE1	3:D:90:MET:SD	2.75	0.45
1:K:143:ARG:NE	1:K:158:ILE:HG21	2.32	0.45
2:M:861:LEU:HB3	2:M:862:PRO:CD	2.47	0.45
2:M:910:LYS:H	2:M:913:GLU:HB2	1.82	0.45
3:N:1165:TYR:OH	3:N:1203:LYS:CA	2.64	0.45
3:N:795:VAL:HG23	3:N:879:ARG:NH2	2.32	0.45
5:P:181:GLU:OE1	5:P:185:GLN:NE2	2.42	0.45
1:A:13:VAL:O	1:A:14:ARG:HG3	2.17	0.45
1:A:194:LYS:HG2	1:A:194:LYS:O	2.17	0.45
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.68	0.45
1:B:176:ARG:HH22	3:D:884:ARG:NE	2.15	0.45
1:B:86:VAL:HG13	1:B:86:VAL:O	2.16	0.45
2:C:417:GLY:C	2:C:418:LEU:HD22	2.37	0.45
2:C:70:GLU:O	2:C:96:ALA:HB1	2.17	0.45
2:C:708:TYR:HE2	2:C:793:PRO:HD3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:674:VAL:HA	2:C:869:VAL:HG12	1.99	0.45
2:C:918:LEU:O	2:C:921:ALA:N	2.50	0.45
3:D:1114:THR:O	3:D:1114:THR:HG23	2.16	0.45
3:D:1281:VAL:HB	3:D:1314:LYS:O	2.17	0.45
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.78	0.45
3:D:232:GLU:O	3:D:234:GLU:N	2.49	0.45
3:D:695:ILE:O	3:D:695:ILE:CG2	2.64	0.45
3:D:755:ALA:O	3:D:759:ALA:HB2	2.17	0.45
1:B:176:ARG:NH1	3:D:884:ARG:NH1	2.65	0.45
3:D:899:LEU:HD22	3:D:900:ILE:HG23	1.98	0.45
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.99	0.45
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.51	0.45
1:L:150:TYR:CD1	1:L:170:VAL:HG12	2.52	0.45
2:M:1114:GLY:C	2:M:1116:ALA:N	2.70	0.45
2:M:207:LEU:HD23	2:M:211:LEU:HD22	1.99	0.45
2:M:265:ARG:N	2:M:289:THR:HG21	2.32	0.45
2:M:512:ARG:CB	2:M:523:ILE:HD11	2.47	0.45
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.99	0.45
3:N:1049:SER:HB3	3:N:1050:GLY:H	1.60	0.45
3:N:1096:ARG:HH11	3:N:1096:ARG:HG2	1.79	0.45
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.17	0.45
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.47	0.45
3:N:527:MET:CE	3:N:537:THR:HB	2.46	0.45
3:N:770:LEU:HD23	3:N:770:LEU:N	2.32	0.45
3:N:911:LEU:O	3:N:912:LYS:C	2.54	0.45
3:N:385:VAL:CG1	5:P:232:ARG:HH12	2.29	0.45
1:A:182:GLU:O	1:A:194:LYS:HB3	2.16	0.45
1:B:108:GLU:HG2	1:B:128:HIS:HE1	1.81	0.45
1:B:39:PRO:O	1:B:43:ILE:HG12	2.17	0.45
2:C:385:PHE:CD1	2:C:389:SER:HB2	2.52	0.45
2:C:445:GLU:HG3	2:C:446:GLY:N	2.31	0.45
2:C:807:ARG:HA	2:C:821:GLU:HB3	1.99	0.45
3:D:1441:GLN:HA	3:D:1441:GLN:NE2	2.31	0.45
3:D:1442:ASN:O	3:D:1444:THR:N	2.50	0.45
3:D:554:LEU:CD1	3:D:554:LEU:C	2.85	0.45
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.32	0.45
5:F:125:ASP:OD2	5:F:126:LEU:HD12	2.17	0.45
1:K:219:ARG:CZ	1:K:220:GLU:N	2.81	0.45
1:L:121:GLU:HG2	1:L:122:ILE:H	1.81	0.45
1:L:18:ARG:O	1:L:207:PRO:HD3	2.17	0.45
2:M:537:LYS:HA	2:M:905:ILE:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1036:ARG:HH11	3:N:1036:ARG:HB3	1.78	0.45
3:N:1041:LEU:HD23	3:N:1041:LEU:O	2.16	0.45
3:N:1267:ARG:NH1	3:N:1334:GLN:OE1	2.50	0.45
3:N:1396:GLU:HA	3:N:1399:ASP:CG	2.37	0.45
3:N:233:LYS:HD2	3:N:237:LYS:NZ	2.32	0.45
3:N:541:ASN:ND2	3:N:541:ASN:N	2.65	0.45
3:N:583:ASP:OD2	3:N:604:THR:OG1	2.34	0.45
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.47	0.45
2:M:949:LYS:HD3	3:N:828:LYS:HZ1	1.82	0.45
3:N:930:LEU:HG	3:N:934:LEU:HD13	1.99	0.45
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.98	0.45
5:P:140:ARG:HH11	5:P:140:ARG:HG3	1.82	0.45
5:P:343:ASP:O	5:P:346:THR:N	2.43	0.45
1:A:176:ARG:O	1:A:177:VAL:HG23	2.16	0.44
1:A:214:ALA:O	1:A:216:GLU:N	2.50	0.44
1:B:56:VAL:HA	1:B:141:GLU:O	2.16	0.44
1:B:56:VAL:HG23	1:B:167:VAL:HG21	1.99	0.44
2:C:1005:MET:HE3	3:D:645:PRO:HG2	1.99	0.44
2:C:1081:VAL:CG2	2:C:1086:ARG:HH21	2.29	0.44
2:C:464:LEU:O	2:C:466:PHE:CD2	2.70	0.44
2:C:483:VAL:HG12	2:C:484:VAL:N	2.32	0.44
2:C:722:ILE:HG21	2:C:821:GLU:OE2	2.18	0.44
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.17	0.44
3:D:1087:ARG:NE	3:D:1238:MET:HB2	2.24	0.44
3:D:179:VAL:CG1	3:D:217:LYS:HE3	2.47	0.44
3:D:179:VAL:HG21	3:D:217:LYS:HE3	1.98	0.44
3:D:237:LYS:CB	3:D:238:PRO:HD3	2.20	0.44
3:D:526:PRO:O	3:D:537:THR:HA	2.16	0.44
3:D:591:VAL:HG12	3:D:598:ARG:O	2.17	0.44
5:F:105:LYS:NZ	5:F:105:LYS:HB3	2.32	0.44
1:L:5:LYS:HA	1:L:5:LYS:CE	2.38	0.44
2:M:1085:PHE:O	2:M:1088:LEU:HB3	2.16	0.44
2:M:207:LEU:HD22	2:M:221:LEU:HD21	1.99	0.44
2:M:342:ASP:O	2:M:346:VAL:HG23	2.17	0.44
2:M:13:ILE:HD11	2:M:534:VAL:HG21	1.99	0.44
3:N:1099:VAL:O	3:N:1100:ASP:C	2.56	0.44
3:N:1148:VAL:HG22	3:N:1163:GLY:C	2.37	0.44
3:N:1209:LEU:HA	3:N:1209:LEU:HD12	1.79	0.44
3:N:1376:MET:CE	3:N:1421:LEU:HD13	2.47	0.44
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.84	0.44
3:N:181:ASP:CG	3:N:198:ARG:HB2	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:806:PHE:O	3:N:809:PRO:HD2	2.17	0.44
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.52	0.44
3:N:949:ILE:HG23	3:N:1020:LEU:HD13	1.99	0.44
5:P:398:ARG:NH1	5:P:398:ARG:HG2	2.32	0.44
1:A:217:ILE:O	1:A:220:GLU:HB3	2.16	0.44
1:A:221:HIS:C	1:A:223:THR:H	2.19	0.44
1:B:229:GLN:HE21	1:B:229:GLN:HB2	1.47	0.44
2:C:97:ARG:NH2	2:C:109:LYS:NZ	2.65	0.44
2:C:217:LEU:HB2	2:C:311:PHE:CZ	2.53	0.44
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.46	0.44
3:D:1082:ALA:O	3:D:1086:LEU:HD13	2.18	0.44
3:D:1094:LEU:O	3:D:1097:LYS:N	2.50	0.44
3:D:1207:TYR:HB3	3:D:1208:ASP:H	1.57	0.44
3:D:119:SER:H	3:D:123:LEU:CD1	2.29	0.44
3:D:127:LEU:O	3:D:127:LEU:HD12	2.18	0.44
3:D:191:LEU:HD12	3:D:211:VAL:CG1	2.47	0.44
3:D:530:VAL:HG22	3:D:536:ALA:HB2	1.98	0.44
3:D:540:LEU:CD1	3:D:606:ILE:HD11	2.44	0.44
3:D:736:PHE:N	3:D:736:PHE:CD1	2.85	0.44
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.98	0.44
4:E:23:VAL:HG21	4:E:65:MET:SD	2.57	0.44
5:F:180:GLY:O	5:F:181:GLU:C	2.55	0.44
5:F:262:VAL:O	5:F:265:VAL:HB	2.17	0.44
1:L:201:THR:O	1:L:203:GLY:N	2.49	0.44
2:M:244:PRO:HG2	2:M:245:GLY:H	1.82	0.44
2:M:252:LYS:HZ3	2:M:296:GLY:HA3	1.81	0.44
2:M:144:PRO:O	2:M:276:LYS:NZ	2.50	0.44
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.32	0.44
2:M:839:LEU:CD2	2:M:849:VAL:HG22	2.46	0.44
2:M:971:LYS:NZ	3:N:950:GLY:HA3	2.31	0.44
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.98	0.44
2:M:674:VAL:CG2	2:M:992:MET:HE1	2.42	0.44
3:N:1166:LEU:HB2	3:N:1170:ASP:HB2	1.99	0.44
3:N:1304:LYS:C	3:N:1305:LEU:HG	2.38	0.44
3:N:1311:LEU:N	3:N:1311:LEU:HD23	2.22	0.44
3:N:756:GLN:O	3:N:760:ARG:HG2	2.17	0.44
3:N:950:GLY:O	3:N:951:ILE:C	2.55	0.44
3:N:975:GLU:OE2	3:N:988:ARG:NH2	2.49	0.44
3:N:97:THR:HG21	3:N:571:LYS:CD	2.46	0.44
4:O:22:VAL:HG11	4:O:68:LEU:CD2	2.44	0.44
4:O:23:VAL:HG13	4:O:64:ALA:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.46	0.44
1:A:14:ARG:HH21	1:A:22:GLU:CB	2.30	0.44
1:A:56:VAL:HG12	1:A:57:TYR:N	2.32	0.44
1:A:59:GLU:OE1	1:A:59:GLU:HA	2.17	0.44
1:A:65:PHE:HD2	2:C:628:PHE:CE2	2.35	0.44
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.37	0.44
3:D:1111:ASP:O	3:D:1112:CYS:C	2.55	0.44
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.81	0.44
3:D:1357:ARG:O	3:D:1358:ALA:C	2.56	0.44
3:D:1263:PHE:O	3:D:1424:VAL:HB	2.17	0.44
3:D:504:ASP:OD1	3:D:505:SER:N	2.44	0.44
3:D:583:ASP:O	3:D:586:ARG:HG3	2.17	0.44
3:D:729:HIS:CE1	3:D:730:PRO:HG2	2.52	0.44
3:D:814:ALA:HB1	3:D:818:ARG:HH21	1.82	0.44
5:F:107:GLU:C	5:F:109:GLY:H	2.20	0.44
5:F:173:TYR:O	5:F:176:ILE:HB	2.16	0.44
1:K:20:TYR:CG	1:K:21:GLY:N	2.85	0.44
1:L:124:ASN:OD1	1:L:127:LEU:HB2	2.17	0.44
1:L:111:ALA:HB3	1:L:125:PRO:O	2.17	0.44
2:M:1031:ARG:HH21	3:N:622:ARG:CZ	2.30	0.44
2:M:346:VAL:O	2:M:349:ALA:HB3	2.16	0.44
2:M:110:GLU:HB3	2:M:368:THR:HG22	2.00	0.44
2:M:512:ARG:HB3	2:M:523:ILE:CG1	2.47	0.44
2:M:700:TYR:CD1	2:M:700:TYR:N	2.85	0.44
2:M:917:LEU:C	2:M:919:ALA:H	2.20	0.44
3:N:1015:TYR:C	3:N:1017:PHE:N	2.70	0.44
3:N:1113:GLY:O	3:N:1114:THR:O	2.35	0.44
3:N:1189:ARG:HH12	3:N:1204:CYS:CA	2.30	0.44
3:N:1336:LEU:HD22	3:N:1421:LEU:CB	2.47	0.44
3:N:1336:LEU:C	3:N:1338:ALA:H	2.20	0.44
3:N:1378:TYR:HB2	3:N:1422:MET:SD	2.57	0.44
3:N:1457:ASP:OD1	3:N:1458:GLU:O	2.36	0.44
3:N:176:ASP:O	3:N:179:VAL:HG23	2.16	0.44
3:N:400:VAL:C	3:N:402:PRO:HD3	2.38	0.44
3:N:564:GLU:O	3:N:567:ILE:HG13	2.17	0.44
3:N:543:LEU:HD21	3:N:600:LEU:HB2	1.98	0.44
3:N:618:LEU:HA	3:N:618:LEU:HD23	1.74	0.44
3:N:653:PHE:HE2	3:N:698:LYS:HD3	1.83	0.44
3:N:958:GLU:HG3	3:N:961:LYS:HE2	2.00	0.44
4:O:41:GLU:O	4:O:43:GLU:N	2.50	0.44
5:P:123:ASP:HB3	5:P:125:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:167:PRO:HD2	5:P:170:HIS:HD2	1.82	0.44
1:A:190:THR:O	1:A:192:LEU:N	2.45	0.44
1:A:42:ARG:HH22	2:C:857:ASP:HB3	1.82	0.44
2:C:1031:ARG:HH11	3:D:619:LEU:C	2.20	0.44
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.98	0.44
3:D:104:PHE:CD2	3:D:104:PHE:N	2.86	0.44
3:D:1152:GLU:C	3:D:1153:VAL:HG23	2.38	0.44
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.50	0.44
2:C:1106:ASP:CG	3:D:1456:LYS:HD3	2.38	0.44
3:D:207:PHE:HB3	3:D:395:VAL:CG2	2.47	0.44
3:D:710:ARG:C	3:D:712:GLY:H	2.21	0.44
3:D:899:LEU:N	3:D:899:LEU:CD1	2.79	0.44
3:D:930:LEU:O	3:D:933:ALA:HB3	2.17	0.44
5:F:122:LEU:HD23	5:F:159:ILE:HG23	1.98	0.44
1:K:219:ARG:HH22	1:K:220:GLU:CG	2.28	0.44
2:M:139:GLN:HE22	2:M:414:GLY:CA	2.28	0.44
2:M:340:MET:O	2:M:340:MET:SD	2.76	0.44
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.44
2:M:469:THR:OG1	2:M:470:PRO:HD2	2.17	0.44
2:M:499:ALA:O	2:M:501:THR:N	2.50	0.44
2:M:515:ALA:HB3	2:M:524:VAL:CG1	2.48	0.44
2:M:959:PRO:O	2:M:960:GLU:O	2.35	0.44
3:N:119:SER:O	3:N:121:THR:N	2.50	0.44
3:N:717:GLN:NE2	3:N:760:ARG:HH21	2.15	0.44
2:M:1044:GLY:H	4:O:17:TYR:HE1	1.65	0.44
5:P:398:ARG:HA	5:P:401:GLU:HB3	1.99	0.44
1:A:152:PRO:CB	1:A:154:GLU:OE1	2.63	0.44
1:B:98:THR:HA	1:B:143:ARG:HA	1.99	0.44
1:B:176:ARG:HG2	1:B:200:TRP:HB2	1.99	0.44
2:C:281:LEU:HD12	2:C:305:PRO:O	2.17	0.44
2:C:317:VAL:C	2:C:319:GLY:N	2.69	0.44
2:C:345:ARG:CB	2:C:345:ARG:HH11	2.30	0.44
2:C:516:ARG:NH2	3:D:1068:LEU:CB	2.80	0.44
2:C:601:GLY:HA3	2:C:614:ARG:O	2.17	0.44
2:C:691:SER:O	2:C:692:GLU:C	2.56	0.44
2:C:937:ASP:HB3	2:C:939:ARG:H	1.83	0.44
2:C:945:ARG:O	2:C:948:GLU:HG2	2.17	0.44
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.17	0.44
3:D:119:SER:H	3:D:123:LEU:HD12	1.81	0.44
3:D:12:LEU:HD23	3:D:12:LEU:HA	1.76	0.44
3:D:1385:GLY:HA3	3:D:1413:THR:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:172:PRO:CG	3:D:178:LEU:HD22	2.47	0.44
3:D:544:TYR:CE1	3:D:581:LEU:HD13	2.52	0.44
3:D:693:GLU:HG3	4:E:48:MET:CE	2.47	0.44
3:D:879:ARG:CD	3:D:902:LEU:O	2.64	0.44
3:D:932:ASP:C	3:D:934:LEU:N	2.71	0.44
3:D:974:ILE:HD13	3:D:992:ILE:HG12	2.00	0.44
4:E:43:GLU:HG3	4:E:44:GLU:H	1.82	0.44
5:F:316:SER:HB3	5:F:319:THR:OG1	2.18	0.44
2:M:486:MET:HG2	2:M:490:GLU:HB3	2.00	0.44
2:M:841:ASN:ND2	2:M:842:ARG:N	2.65	0.44
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.74	0.44
3:N:245:LEU:HD11	3:N:249:TYR:HB2	1.99	0.44
3:N:558:LEU:HD13	5:P:145:PRO:C	2.38	0.44
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.99	0.44
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.99	0.44
1:A:153:ALA:HB2	1:A:168:ASP:N	2.31	0.44
1:A:42:ARG:NH2	2:C:857:ASP:HB3	2.32	0.44
2:C:694:LEU:O	2:C:699:PHE:HB2	2.18	0.44
2:C:777:ILE:HD13	5:F:408:LEU:HD21	1.99	0.44
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.31	0.44
3:D:116:LEU:C	3:D:118:LEU:H	2.19	0.44
3:D:210:ARG:HD2	3:D:398:ALA:CB	2.30	0.44
3:D:219:GLU:O	3:D:369:ALA:O	2.36	0.44
2:C:1094:ALA:HB3	3:D:603:LEU:HD22	1.96	0.44
3:D:897:TRP:HZ2	3:D:902:LEU:HD11	1.77	0.44
1:K:173:PRO:O	1:K:174:VAL:C	2.56	0.44
1:L:157:GLY:O	1:L:159:LYS:HE3	2.18	0.44
1:L:153:ALA:HB2	1:L:168:ASP:CA	2.47	0.44
1:L:180:GLN:HB3	1:L:196:THR:HG23	1.99	0.44
1:L:7:LYS:O	1:L:7:LYS:HG2	2.18	0.44
2:M:184:MET:CE	2:M:186:VAL:HG13	2.47	0.44
2:M:285:LEU:HD21	2:M:289:THR:HA	2.00	0.44
2:M:136:ILE:HA	2:M:391:LEU:O	2.17	0.44
2:M:427:VAL:O	2:M:429:ASP:N	2.50	0.44
2:M:544:THR:HG22	2:M:550:LEU:CD2	2.47	0.44
2:M:548:PRO:HA	2:M:581:THR:CG2	2.47	0.44
2:M:72:ARG:NH1	2:M:72:ARG:HG3	2.32	0.44
3:N:1116:ASN:O	3:N:1116:ASN:ND2	2.51	0.44
3:N:1396:GLU:HG2	3:N:1399:ASP:OD2	2.18	0.44
3:N:137:PRO:HG2	3:N:453:ASP:HB3	2.00	0.44
3:N:562:ALA:HA	3:N:563:PRO:HD3	1.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:644:LEU:HA	3:N:645:PRO:HD3	1.69	0.44
3:N:976:GLN:HA	3:N:979:GLU:HB2	1.99	0.44
5:P:102:LEU:HD22	5:P:183:ALA:HA	1.99	0.44
5:P:217:ASN:O	5:P:220:LEU:N	2.50	0.44
2:C:97:ARG:HH21	2:C:109:LYS:HZ2	1.66	0.44
2:C:129:ILE:N	2:C:129:ILE:CD1	2.80	0.44
2:C:222:MET:O	2:C:223:ASP:C	2.55	0.44
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.53	0.44
2:C:211:LEU:HD11	2:C:308:ARG:HB2	2.00	0.44
2:C:345:ARG:HB3	2:C:345:ARG:HH11	1.82	0.44
2:C:379:GLU:O	2:C:383:ARG:HB3	2.18	0.44
2:C:490:GLU:O	2:C:493:ARG:HB2	2.18	0.44
2:C:679:PHE:O	2:C:680:ASP:C	2.56	0.44
2:C:693:GLU:HA	2:C:693:GLU:OE1	2.17	0.44
2:C:843:HIS:CD2	2:C:887:GLU:OE2	2.71	0.44
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.44
3:D:1258:ARG:C	3:D:1260:ILE:H	2.21	0.44
3:D:1258:ARG:O	3:D:1261:GLU:N	2.50	0.44
3:D:1263:PHE:HD2	3:D:1375:MET:HE2	1.82	0.44
3:D:215:TYR:H	3:D:390:PRO:HD2	1.83	0.44
3:D:216:VAL:HG12	3:D:217:LYS:N	2.31	0.44
3:D:240:GLU:O	3:D:244:GLU:N	2.51	0.44
3:D:670:VAL:O	3:D:674:ARG:HG3	2.17	0.44
3:D:67:ARG:HE	3:D:67:ARG:HA	1.81	0.44
3:D:702:LEU:O	3:D:736:PHE:HE2	2.00	0.44
3:D:733:CYS:O	3:D:736:PHE:O	2.35	0.44
3:D:868:TYR:HB2	3:D:873:LEU:HD12	1.99	0.44
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.53	0.44
1:L:167:VAL:HG12	1:L:168:ASP:N	2.32	0.44
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.85	0.44
2:M:605:LYS:HD2	2:M:610:ARG:NH1	2.33	0.44
2:M:671:ASN:OD1	2:M:900:ARG:NH2	2.51	0.44
2:M:968:LEU:C	2:M:970:GLY:H	2.20	0.44
3:N:1147:ARG:HB2	3:N:1188:VAL:HG21	2.00	0.44
3:N:1242:HIS:C	3:N:1269:LYS:HZ2	2.17	0.44
3:N:1336:LEU:CA	3:N:1344:VAL:HG21	2.47	0.44
3:N:212:ARG:HB3	3:N:394:LEU:CD1	2.41	0.44
3:N:569:ASN:HD22	3:N:569:ASN:HA	1.55	0.44
3:N:65:ARG:CG	3:N:66:GLN:N	2.80	0.44
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.90	0.44
1:L:77:GLU:CB	3:N:872:ARG:HH21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:282:LEU:HD12	5:P:284:ARG:HD2	1.99	0.44
1:A:20:TYR:HH	1:A:198:ARG:NH2	2.16	0.44
1:A:41:ARG:O	1:A:45:LEU:HD12	2.17	0.44
2:C:1036:GLU:CD	3:D:707:THR:HG1	2.20	0.44
2:C:196:LEU:HD23	2:C:197:LEU:N	2.32	0.44
2:C:405:ARG:O	2:C:405:ARG:HG2	2.17	0.44
2:C:468:ARG:CZ	2:C:487:THR:OG1	2.66	0.44
2:C:649:VAL:HG11	2:C:655:LEU:HD21	2.00	0.44
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	2.18	0.44
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.65	0.44
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.98	0.44
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.47	0.44
3:D:1422:MET:CE	3:D:1427:SER:HA	2.48	0.44
2:C:1013:TYR:OH	3:D:624:ASP:OD1	2.32	0.44
3:D:97:THR:O	3:D:98:PRO:O	2.36	0.44
5:F:107:GLU:C	5:F:109:GLY:N	2.70	0.44
3:D:563:PRO:HD3	5:F:188:ILE:HG21	2.00	0.44
2:M:1014:SER:HB3	2:M:1017:THR:HG23	2.00	0.44
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.52	0.44
2:M:104:ASP:HB2	2:M:105:THR:H	1.64	0.44
2:M:135:VAL:HG12	2:M:136:ILE:N	2.32	0.44
2:M:625:LEU:O	2:M:627:ARG:N	2.50	0.44
2:M:707:ARG:CZ	2:M:824:ARG:HH12	2.31	0.44
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.98	0.44
2:M:901:TYR:CE2	2:M:917:LEU:HD12	2.48	0.44
3:N:1155:VAL:O	3:N:1182:GLU:HG2	2.18	0.44
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.83	0.44
3:N:1413:THR:O	3:N:1414:PRO:C	2.56	0.44
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.68	0.44
3:N:387:LEU:HD23	3:N:388:HIS:N	2.33	0.44
3:N:656:PHE:HZ	3:N:751:LEU:HD23	1.83	0.44
3:N:79:GLU:HG2	3:N:80:VAL:N	2.33	0.44
5:P:160:ASP:OD1	5:P:164:LYS:HE3	2.18	0.44
5:P:217:ASN:C	5:P:219:GLY:N	2.70	0.44
1:A:203:GLY:O	1:A:204:SER:C	2.56	0.44
1:A:221:HIS:ND1	1:A:224:TYR:HE2	2.15	0.44
1:A:51:THR:HG21	1:A:89:PHE:CE2	2.53	0.44
2:C:1102:LEU:N	2:C:1102:LEU:HD12	2.33	0.44
2:C:118:ILE:HD11	2:C:340:MET:CE	2.48	0.44
2:C:334:ARG:O	2:C:335:THR:O	2.36	0.44
2:C:600:ASP:OD1	2:C:651:LYS:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:630:ARG:HH21	2:C:707:ARG:H	1.65	0.44
3:D:1313:VAL:C	3:D:1314:LYS:HD3	2.38	0.44
3:D:1344:VAL:HG21	3:D:1421:LEU:HD13	2.00	0.44
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.33	0.44
3:D:651:GLU:HA	3:D:654:LYS:HE3	1.99	0.44
3:D:832:ARG:HG2	3:D:832:ARG:HH11	1.83	0.44
3:D:910:SER:O	3:D:913:ASP:CB	2.63	0.44
3:D:919:PHE:C	3:D:919:PHE:HD2	2.19	0.44
1:K:189:ARG:CZ	1:L:155:LYS:HE2	2.47	0.44
1:L:111:ALA:O	1:L:114:PHE:HD1	2.00	0.44
1:L:114:PHE:O	1:L:115:LEU:C	2.56	0.44
2:M:1090:LYS:HA	2:M:1090:LYS:HD3	1.75	0.44
2:M:190:LYS:NZ	2:M:190:LYS:HB2	2.33	0.44
2:M:193:LEU:HD12	2:M:197:LEU:HD11	1.99	0.44
2:M:276:LYS:HB2	2:M:276:LYS:HE3	1.86	0.44
2:M:313:LEU:C	2:M:315:ALA:H	2.20	0.44
2:M:432:ARG:NH2	3:N:1047:LYS:NZ	2.63	0.44
2:M:123:GLU:OE2	2:M:592:LEU:HD11	2.17	0.44
2:M:605:LYS:CD	2:M:610:ARG:HH22	2.30	0.44
3:N:1384:PRO:CG	3:N:1389:LEU:N	2.80	0.44
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.83	0.44
2:M:1044:GLY:HA3	3:N:762:GLN:HE22	1.81	0.44
3:N:47:GLU:HB2	3:N:78:VAL:HG22	1.99	0.44
3:N:1495:ILE:HD13	4:O:88:GLU:HG3	2.00	0.44
1:A:110:LYS:N	1:A:113:ASP:OD2	2.40	0.43
1:A:40:LEU:O	1:A:42:ARG:N	2.51	0.43
1:B:89:PHE:HZ	1:B:144:VAL:CG1	2.30	0.43
2:C:479:VAL:HB	2:C:506:ASN:HA	2.00	0.43
1:A:180:GLN:NE2	2:C:934:PHE:CB	2.81	0.43
3:D:1026:SER:O	3:D:1027:GLY:C	2.56	0.43
3:D:1200:VAL:HG12	3:D:1201:CYS:N	2.33	0.43
3:D:10:ILE:HD12	3:D:1434:TRP:CE2	2.52	0.43
3:D:217:LYS:HA	3:D:373:PRO:O	2.18	0.43
3:D:389:GLU:OE1	3:D:389:GLU:N	2.47	0.43
3:D:569:ASN:C	3:D:569:ASN:HD22	2.19	0.43
3:D:729:HIS:HE1	3:D:731:LEU:CG	2.29	0.43
1:K:106:PRO:HG2	1:K:134:GLU:CD	2.37	0.43
1:K:62:LEU:N	1:K:62:LEU:HD12	2.29	0.43
1:L:56:VAL:HB	1:L:165:ILE:CG1	2.47	0.43
2:M:144:PRO:HA	2:M:163:ILE:HG23	1.98	0.43
2:M:420:ARG:HD2	2:M:420:ARG:N	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:724:ARG:HG2	2:M:724:ARG:O	2.17	0.43
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.99	0.43
3:N:1098:LEU:HD12	3:N:1098:LEU:N	2.33	0.43
3:N:1496:GLU:HG3	3:N:1500:LYS:HE3	1.99	0.43
3:N:409:VAL:O	3:N:411:THR:N	2.51	0.43
3:N:787:LEU:O	3:N:787:LEU:HG	2.16	0.43
3:N:960:LYS:C	3:N:962:GLN:H	2.21	0.43
4:O:41:GLU:H	4:O:42:PRO:CD	2.30	0.43
5:P:256:ARG:HD3	5:P:260:ILE:CG2	2.48	0.43
1:A:24:VAL:HG12	1:A:25:LEU:H	1.82	0.43
1:B:115:LEU:HA	1:B:116:PRO:HD3	1.84	0.43
2:C:243:ARG:HA	2:C:244:PRO:HD3	1.40	0.43
2:C:711:GLU:HG2	2:C:822:VAL:CG1	2.37	0.43
2:C:987:ILE:O	2:C:987:ILE:HG22	2.17	0.43
3:D:136:ASP:O	3:D:137:PRO:O	2.36	0.43
3:D:205:TYR:CD2	3:D:393:ILE:HG12	2.53	0.43
3:D:579:ASP:O	3:D:582:LEU:N	2.51	0.43
3:D:65:ARG:HG3	3:D:66:GLN:HG2	1.99	0.43
3:D:728:LEU:HG	3:D:729:HIS:H	1.82	0.43
3:D:932:ASP:OD1	3:D:935:LYS:CD	2.57	0.43
3:D:932:ASP:OD2	3:D:935:LYS:NZ	2.44	0.43
3:D:945:SER:OG	3:D:947:ILE:CG2	2.53	0.43
3:D:972:LEU:C	3:D:972:LEU:HD23	2.38	0.43
1:K:127:LEU:O	1:K:129:ILE:HD13	2.17	0.43
1:K:184:THR:O	1:K:192:LEU:HB2	2.19	0.43
1:L:78:ILE:HG23	1:L:129:ILE:HG22	2.00	0.43
1:K:218:LEU:HD23	1:L:222:LEU:HD21	2.00	0.43
2:M:1090:LYS:HE3	3:N:88:TYR:O	2.18	0.43
2:M:21:ILE:O	2:M:21:ILE:HG22	2.18	0.43
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.80	0.43
2:M:276:LYS:CG	2:M:280:LYS:NZ	2.81	0.43
2:M:313:LEU:CD1	2:M:321:GLU:O	2.66	0.43
2:M:30:LEU:HB3	2:M:44:ILE:HD13	1.99	0.43
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.48	0.43
2:M:657:ASP:OD1	2:M:661:SER:OG	2.34	0.43
3:N:127:LEU:HD12	3:N:127:LEU:C	2.38	0.43
3:N:1291:SER:HB3	3:N:1293:PHE:CE1	2.50	0.43
3:N:158:TYR:O	3:N:161:LEU:HB2	2.19	0.43
3:N:187:LYS:NZ	3:N:213:VAL:CG1	2.81	0.43
3:N:116:LEU:CD2	3:N:468:LEU:HD21	2.48	0.43
3:N:616:GLN:OE1	5:P:326:ASP:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:728:LEU:HD13	3:N:745:MET:CE	2.48	0.43
2:M:1048:THR:HG21	3:N:759:ALA:HB2	2.00	0.43
3:N:840:LYS:CD	3:N:841:TYR:CZ	3.01	0.43
3:N:984:THR:CG2	3:N:987:GLU:HG3	2.36	0.43
5:P:102:LEU:C	5:P:104:ARG:N	2.68	0.43
5:P:158:GLU:O	5:P:161:GLN:HB2	2.17	0.43
5:P:94:LEU:O	5:P:95:THR:C	2.57	0.43
1:A:183:ASP:HA	1:A:192:LEU:O	2.18	0.43
2:C:1058:ASP:HB2	3:D:621:LYS:HE3	2.00	0.43
2:C:115:LEU:HA	2:C:375:SER:HG	1.80	0.43
2:C:140:ILE:HG12	2:C:333:ILE:HG13	2.00	0.43
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.43
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.98	0.43
2:C:70:GLU:OE1	2:C:97:ARG:HD3	2.18	0.43
3:D:1042:ARG:HE	3:D:1042:ARG:HB2	1.56	0.43
3:D:1078:ARG:O	3:D:1079:LYS:C	2.54	0.43
3:D:1081:GLY:C	3:D:1083:ASP:N	2.72	0.43
3:D:124:GLU:HB3	3:D:128:TYR:CD1	2.53	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	2.00	0.43
3:D:1492:LEU:HD13	3:D:1492:LEU:O	2.19	0.43
3:D:1496:GLU:O	3:D:1499:ARG:N	2.51	0.43
3:D:179:VAL:HG22	3:D:389:GLU:HG3	2.00	0.43
3:D:32:ILE:CD1	3:D:527:MET:HG2	2.27	0.43
3:D:569:ASN:C	3:D:569:ASN:ND2	2.71	0.43
3:D:696:HIS:CD2	4:E:48:MET:HG3	2.52	0.43
4:E:24:ALA:O	4:E:27:ALA:HB3	2.17	0.43
5:F:235:PHE:O	5:F:236:SER:C	2.57	0.43
1:K:189:ARG:NH1	1:L:155:LYS:HZ3	2.11	0.43
1:L:103:ALA:HB1	1:L:107:LYS:HZ3	1.83	0.43
1:L:218:LEU:O	1:L:219:ARG:C	2.57	0.43
1:L:94:LEU:O	1:L:146:ARG:HD2	2.18	0.43
2:M:140:ILE:HG12	2:M:333:ILE:HG13	2.01	0.43
2:M:43:GLY:O	2:M:46:ALA:HB3	2.19	0.43
2:M:520:GLU:O	2:M:522:VAL:HG23	2.17	0.43
2:M:906:PHE:HZ	3:N:1070:TYR:CB	2.31	0.43
2:M:988:VAL:C	2:M:989:VAL:HG13	2.38	0.43
3:N:1227:GLN:C	3:N:1229:ILE:H	2.15	0.43
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	2.00	0.43
3:N:161:LEU:O	3:N:449:SER:HB2	2.17	0.43
3:N:826:PRO:HD2	3:N:829:VAL:HG11	1.99	0.43
3:N:868:TYR:O	3:N:870:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:406:ARG:CG	5:P:409:LYS:HE2	2.47	0.43
5:P:76:SER:O	5:P:77:THR:C	2.57	0.43
1:A:97:VAL:HG12	1:A:98:THR:N	2.33	0.43
2:C:165:LEU:HA	2:C:166:PRO:C	2.39	0.43
2:C:317:VAL:HG12	2:C:317:VAL:O	2.18	0.43
2:C:418:LEU:HD22	2:C:418:LEU:N	2.34	0.43
2:C:513:VAL:O	2:C:524:VAL:O	2.36	0.43
2:C:516:ARG:HH11	2:C:521:PRO:HA	1.82	0.43
2:C:525:SER:OG	2:C:528:GLU:HG3	2.18	0.43
2:C:539:VAL:HG21	3:D:1067:VAL:CG1	2.48	0.43
2:C:783:ARG:HD3	2:C:785:VAL:HG11	2.00	0.43
3:D:104:PHE:N	3:D:104:PHE:HD2	2.16	0.43
3:D:1405:GLU:O	3:D:1409:ALA:O	2.36	0.43
2:C:1046:ALA:CB	3:D:1472:ILE:HB	2.49	0.43
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.19	0.43
3:D:177:ALA:O	3:D:179:VAL:N	2.51	0.43
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.34	0.43
2:C:1052:MET:SD	3:D:623:VAL:HG22	2.59	0.43
3:D:947:ILE:O	3:D:947:ILE:CG1	2.67	0.43
5:F:93:LEU:CD1	5:F:187:LEU:HA	2.48	0.43
1:K:134:GLU:HA	1:K:134:GLU:OE2	2.18	0.43
1:L:111:ALA:CB	1:L:127:LEU:HB3	2.45	0.43
1:L:143:ARG:HG3	1:L:143:ARG:HH11	1.83	0.43
1:L:79:ILE:O	1:L:83:LYS:HG3	2.18	0.43
2:M:106:GLY:O	2:M:107:LEU:HD23	2.19	0.43
2:M:643:VAL:HG21	2:M:655:LEU:HA	2.00	0.43
2:M:737:LEU:O	2:M:738:ASP:C	2.56	0.43
2:M:882:LEU:O	2:M:883:GLY:C	2.57	0.43
3:N:1058:ARG:CG	3:N:1058:ARG:NH1	2.77	0.43
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.49	0.43
3:N:1271:LYS:HZ1	3:N:1334:GLN:HE22	1.59	0.43
3:N:462:GLN:HA	3:N:513:ILE:HD12	1.99	0.43
3:N:55:ASP:OD2	3:N:82:LYS:CE	2.66	0.43
3:N:869:MET:SD	3:N:894:LYS:HE3	2.58	0.43
2:M:1086:ARG:HD2	3:N:88:TYR:CZ	2.53	0.43
3:N:915:VAL:O	3:N:916:TYR:C	2.55	0.43
3:N:940:THR:C	3:N:942:SER:N	2.72	0.43
5:P:347:GLN:O	5:P:348:SER:C	2.56	0.43
1:B:123:MET:O	1:B:125:PRO:HD3	2.18	0.43
1:B:13:VAL:CG1	1:B:14:ARG:N	2.81	0.43
2:C:455:LEU:HD12	2:C:455:LEU:C	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:577:PRO:HG3	2:C:993:PHE:CD1	2.54	0.43
2:C:744:ARG:O	2:C:744:ARG:HG3	2.17	0.43
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.18	0.43
3:D:1422:MET:HE3	3:D:1427:SER:HA	2.01	0.43
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.68	0.43
3:D:175:VAL:O	3:D:179:VAL:HG21	2.18	0.43
3:D:567:ILE:HG22	3:D:571:LYS:HE3	2.00	0.43
3:D:575:GLN:O	3:D:576:GLU:C	2.56	0.43
3:D:581:LEU:HD12	3:D:603:LEU:HD11	2.01	0.43
3:D:705:ALA:CB	3:D:706:PRO:CD	2.80	0.43
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.72	0.43
5:F:396:ARG:HA	5:F:399:GLN:CB	2.48	0.43
1:L:117:VAL:HG12	1:L:118:ALA:N	2.34	0.43
1:L:207:PRO:O	1:L:208:LEU:C	2.56	0.43
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	2.00	0.43
2:M:100:LEU:HD21	2:M:368:THR:OG1	2.19	0.43
2:M:720:GLU:HG2	2:M:760:SER:HB3	1.99	0.43
2:M:752:GLY:H	2:M:792:VAL:HB	1.84	0.43
3:N:1130:ARG:HH11	3:N:1130:ARG:HG2	1.83	0.43
3:N:1147:ARG:O	3:N:1166:LEU:CD2	2.66	0.43
3:N:1149:LEU:CD1	3:N:1160:LEU:HB3	2.49	0.43
3:N:1413:THR:O	3:N:1413:THR:HG22	2.18	0.43
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.33	0.43
3:N:388:HIS:HB2	5:P:94:LEU:CD2	2.41	0.43
3:N:65:ARG:HD3	3:N:66:GLN:H	1.83	0.43
3:N:699:VAL:HG23	3:N:699:VAL:O	2.18	0.43
3:N:711:LEU:O	3:N:713:ILE:N	2.51	0.43
5:P:88:ILE:O	5:P:92:PRO:HD3	2.18	0.43
1:A:227:ASN:O	1:A:227:ASN:ND2	2.52	0.43
1:B:16:GLN:N	1:B:20:TYR:O	2.49	0.43
2:C:134:ARG:HH12	2:C:393:GLN:N	2.15	0.43
2:C:188:LYS:HD3	2:C:189:ARG:N	2.34	0.43
2:C:21:ILE:H	2:C:21:ILE:CD1	2.19	0.43
2:C:273:GLY:H	2:C:288:ARG:NH1	2.16	0.43
2:C:468:ARG:NH2	2:C:487:THR:OG1	2.52	0.43
2:C:594:ALA:HB2	2:C:658:GLY:H	1.83	0.43
2:C:916:GLU:O	2:C:919:ALA:HB3	2.18	0.43
2:C:923:GLU:OE1	2:C:927:GLY:CA	2.67	0.43
3:D:1076:GLY:HA2	3:D:1079:LYS:CG	2.38	0.43
3:D:108:VAL:HB	3:D:109:PRO:CD	2.28	0.43
3:D:1118:ILE:HD11	3:D:1346:ARG:NE	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1379:VAL:CG2	3:D:1395:LEU:HA	2.48	0.43
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.19	0.43
3:D:23:TYR:O	3:D:24:GLY:O	2.37	0.43
3:D:245:LEU:HD12	3:D:366:LYS:NZ	2.33	0.43
3:D:898:GLU:HB3	3:D:921:ARG:NH2	2.34	0.43
4:E:51:LEU:CG	4:E:52:GLU:N	2.74	0.43
1:L:213:GLN:O	1:L:214:ALA:C	2.57	0.43
1:L:40:LEU:O	1:L:44:LEU:HB2	2.18	0.43
2:M:143:SER:HB3	2:M:332:ARG:HB2	2.00	0.43
2:M:157:ARG:HG3	2:M:157:ARG:HH11	1.82	0.43
2:M:176:VAL:HG12	2:M:182:VAL:CG2	2.45	0.43
2:M:110:GLU:OE2	2:M:369:PRO:HG3	2.18	0.43
2:M:578:VAL:HG23	2:M:579:VAL:N	2.32	0.43
2:M:620:LEU:HD23	2:M:620:LEU:H	1.84	0.43
2:M:64:LEU:C	2:M:65:VAL:HG22	2.38	0.43
2:M:726:ILE:HA	2:M:727:PRO:HD3	1.83	0.43
2:M:743:VAL:HG13	2:M:743:VAL:O	2.18	0.43
2:M:798:GLY:H	2:M:827:VAL:CG1	2.32	0.43
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.34	0.43
2:M:78:PHE:CD1	2:M:88:LEU:HD13	2.52	0.43
3:N:1050:GLY:O	3:N:1051:GLU:C	2.57	0.43
3:N:1114:THR:CG2	3:N:1195:GLN:HB2	2.48	0.43
3:N:1347:TYR:CE1	3:N:1351:GLU:OE2	2.71	0.43
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	2.00	0.43
3:N:167:GLU:CD	5:P:90:GLN:NE2	2.72	0.43
3:N:186:VAL:HG21	3:N:213:VAL:CG2	2.49	0.43
3:N:28:LYS:HB3	3:N:41:ARG:HD2	2.01	0.43
3:N:385:VAL:HB	3:N:387:LEU:CD1	2.44	0.43
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.48	0.43
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.99	0.43
3:N:626:SER:CA	3:N:652:LEU:HD11	2.48	0.43
3:N:786:ILE:HG21	3:N:1027:GLY:N	2.33	0.43
3:N:790:TYR:O	3:N:794:GLN:HB2	2.18	0.43
3:N:935:LYS:HE2	3:N:935:LYS:HB3	1.86	0.43
5:P:238:TYR:O	5:P:239:ALA:C	2.56	0.43
1:A:57:TYR:O	1:A:140:MET:HB2	2.19	0.43
1:A:21:GLY:O	1:A:198:ARG:HA	2.19	0.43
1:B:67:THR:HB	1:B:74:ASP:OD1	2.19	0.43
2:C:212:GLY:C	2:C:215:GLY:H	2.20	0.43
2:C:334:ARG:HE	2:C:338:GLU:CD	2.22	0.43
2:C:371:LYS:C	2:C:372:LEU:HD12	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:433:THR:C	2:C:435:TYR:H	2.20	0.43
2:C:490:GLU:CG	2:C:493:ARG:HH11	2.32	0.43
2:C:650:ARG:O	2:C:651:LYS:C	2.56	0.43
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.19	0.43
3:D:964:LEU:HD22	3:D:1058:ARG:HH11	1.83	0.43
3:D:1104:GLU:HG3	3:D:1105:ILE:HD13	2.01	0.43
3:D:191:LEU:HD12	3:D:211:VAL:HG11	2.01	0.43
3:D:376:GLU:HA	3:D:383:GLY:O	2.18	0.43
3:D:396:VAL:CG1	3:D:397:LYS:N	2.81	0.43
3:D:827:ILE:CG2	3:D:837:GLY:HA3	2.46	0.43
3:D:850:LEU:HD13	3:D:884:ARG:NH2	2.32	0.43
1:L:24:VAL:HG12	1:L:25:LEU:N	2.34	0.43
2:M:193:LEU:O	2:M:197:LEU:HD12	2.19	0.43
2:M:27:ARG:O	2:M:28:ARG:C	2.56	0.43
2:M:564:MET:HG2	2:M:840:ALA:HB3	2.00	0.43
2:M:869:VAL:HG22	2:M:871:LEU:HD13	2.00	0.43
2:M:914:ILE:N	2:M:914:ILE:HD12	2.33	0.43
3:N:122:GLU:OE1	3:N:122:GLU:HA	2.17	0.43
3:N:1341:PRO:HG2	3:N:1419:PRO:HG2	2.00	0.43
3:N:1496:GLU:O	3:N:1496:GLU:OE2	2.36	0.43
3:N:424:GLY:HA2	3:N:436:GLU:HA	2.00	0.43
3:N:491:LYS:HG2	3:N:491:LYS:O	2.19	0.43
3:N:661:MET:HG2	3:N:666:ILE:HD12	2.01	0.43
2:M:1056:LYS:NZ	3:N:749:VAL:O	2.46	0.43
4:O:54:LEU:HG	4:O:58:PRO:CB	2.47	0.43
3:N:563:PRO:HG3	5:P:185:GLN:OE1	2.19	0.43
3:N:593:ASN:ND2	5:P:206:GLY:O	2.49	0.43
1:A:201:THR:CG2	1:A:202:ASP:N	2.81	0.43
1:A:34:VAL:C	1:A:36:LEU:H	2.22	0.43
2:C:226:VAL:HG22	2:C:230:ARG:NH2	2.34	0.43
2:C:665:PHE:N	2:C:665:PHE:CD2	2.85	0.43
2:C:750:LYS:HG3	2:C:751:PRO:HD2	2.01	0.43
2:C:789:SER:O	2:C:791:ARG:HG2	2.19	0.43
2:C:860:HIS:HE2	2:C:975:TYR:HB2	1.84	0.43
3:D:216:VAL:C	3:D:217:LYS:HD3	2.38	0.43
3:D:375:GLU:HB3	3:D:385:VAL:HG13	2.01	0.43
3:D:429:SER:HB2	3:D:432:TYR:O	2.19	0.43
3:D:486:ARG:HA	3:D:489:ARG:CD	2.45	0.43
3:D:528:VAL:HG12	3:D:529:GLN:N	2.33	0.43
5:F:93:LEU:HD11	5:F:102:LEU:CD1	2.48	0.43
2:M:409:ARG:HG2	2:M:410:ILE:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:722:ILE:HG23	2:M:722:ILE:O	2.18	0.43
2:M:759:THR:HG21	2:M:783:ARG:NH1	2.29	0.43
2:M:810:ASP:HB3	2:M:813:VAL:CG2	2.34	0.43
2:M:960:GLU:O	2:M:961:GLU:C	2.57	0.43
3:N:1306:PRO:O	3:N:1307:LYS:C	2.57	0.43
3:N:536:ALA:HA	5:P:315:VAL:O	2.18	0.43
5:P:88:ILE:O	5:P:91:VAL:N	2.52	0.43
1:A:89:PHE:CD1	1:A:120:VAL:HG22	2.53	0.43
2:C:673:LEU:HA	2:C:990:GLY:O	2.18	0.43
2:C:766:GLU:OE1	3:D:54:LYS:NZ	2.39	0.43
3:D:1101:VAL:HG12	3:D:1101:VAL:O	2.18	0.43
3:D:1225:ALA:C	3:D:1228:SER:OG	2.56	0.43
3:D:1357:ARG:C	3:D:1359:GLN:H	2.22	0.43
3:D:218:LYS:NZ	3:D:219:GLU:H	2.17	0.43
3:D:163:TYR:OH	3:D:394:LEU:HD21	2.19	0.43
3:D:584:ASN:H	3:D:602:SER:CB	2.32	0.43
3:D:790:TYR:O	3:D:793:THR:N	2.51	0.43
3:D:958:GLU:C	3:D:960:LYS:H	2.21	0.43
3:D:984:THR:HG22	3:D:987:GLU:HG3	2.01	0.43
3:D:9:ARG:HH22	3:D:11:ALA:HB2	1.81	0.43
4:E:41:GLU:H	4:E:42:PRO:HD2	1.84	0.43
5:F:213:ILE:O	5:F:216:GLY:N	2.50	0.43
3:D:549:ASN:CG	5:F:254:GLN:HE21	2.22	0.43
1:K:105:GLY:O	1:K:107:LYS:N	2.52	0.43
2:M:1059:ASP:CG	2:M:1062:GLY:H	2.20	0.43
2:M:64:LEU:HB2	2:M:359:MET:SD	2.59	0.43
2:M:6:PHE:CE1	2:M:909:ALA:HB2	2.54	0.43
2:M:881:ASN:C	2:M:881:ASN:HD22	2.20	0.43
2:M:910:LYS:CA	2:M:913:GLU:HG3	2.48	0.43
3:N:1282:ARG:NH1	3:N:1282:ARG:HB3	2.34	0.43
3:N:172:PRO:CG	3:N:178:LEU:HD22	2.48	0.43
3:N:978:TYR:CE1	3:N:985:ASP:HA	2.52	0.43
4:O:30:LEU:O	4:O:35:PHE:HA	2.18	0.43
4:O:59:ASN:HA	4:O:59:ASN:HD22	1.60	0.43
5:P:215:GLU:O	5:P:218:GLN:HB3	2.18	0.43
1:A:184:THR:O	1:A:192:LEU:HD12	2.19	0.43
1:A:196:THR:O	1:A:196:THR:HG23	2.18	0.43
1:A:221:HIS:C	1:A:223:THR:N	2.72	0.43
1:B:182:GLU:OE1	1:B:194:LYS:HD3	2.19	0.43
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.49	0.43
1:B:219:ARG:C	1:B:221:HIS:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:66:SER:O	1:B:75:VAL:HG23	2.18	0.43
2:C:1014:SER:OG	2:C:1015:LEU:N	2.52	0.43
2:C:1057:SER:OG	3:D:621:LYS:CE	2.67	0.43
2:C:183:SER:CB	2:C:190:LYS:HD3	2.41	0.43
2:C:238:LEU:O	2:C:241:LEU:N	2.52	0.43
2:C:436:GLY:O	2:C:459:ALA:HB2	2.18	0.43
2:C:516:ARG:HH11	2:C:521:PRO:CA	2.31	0.43
2:C:544:THR:C	2:C:546:LEU:H	2.22	0.43
2:C:734:LEU:O	2:C:735:ARG:C	2.58	0.43
2:C:766:GLU:CD	2:C:766:GLU:N	2.73	0.43
3:D:1062:ARG:HG3	3:D:1062:ARG:HH11	1.83	0.43
3:D:1103:HIS:C	3:D:1105:ILE:H	2.21	0.43
3:D:118:LEU:O	3:D:119:SER:C	2.57	0.43
3:D:100:ALA:CB	3:D:128:TYR:HE2	2.32	0.43
3:D:859:ASP:HB2	3:D:862:ASP:OD1	2.19	0.43
5:F:123:ASP:O	5:F:126:LEU:N	2.52	0.43
3:D:423:ASP:CG	5:F:175:HIS:ND1	2.73	0.43
2:M:1022:GLY:H	2:M:1028:GLY:HA3	1.84	0.43
2:M:1055:LEU:HD21	2:M:1079:PRO:CB	2.49	0.43
2:M:139:GLN:HB2	2:M:391:LEU:HD21	2.01	0.43
2:M:670:GLN:HB3	2:M:699:PHE:CE2	2.53	0.43
2:M:988:VAL:O	2:M:989:VAL:HG12	2.19	0.43
2:M:999:HIS:CD2	2:M:1003:ASP:CG	2.93	0.43
3:N:1111:ASP:HB3	3:N:1203:LYS:NZ	2.33	0.43
3:N:128:TYR:O	3:N:568:ARG:NH2	2.51	0.43
3:N:1379:VAL:N	3:N:1420:LEU:HD23	2.33	0.43
3:N:1489:GLN:HA	3:N:1492:LEU:HB2	2.00	0.43
3:N:212:ARG:CB	3:N:394:LEU:HD22	2.48	0.43
3:N:601:ARG:NH2	3:N:611:GLN:HB2	2.34	0.43
5:P:369:LEU:HD11	5:P:401:GLU:OE1	2.19	0.43
1:A:58:ILE:HG21	1:A:61:VAL:HG21	2.01	0.42
1:B:133:GLU:CG	1:B:134:GLU:H	2.25	0.42
1:A:30:ARG:HH12	1:B:155:LYS:NZ	2.16	0.42
2:C:1085:PHE:O	2:C:1088:LEU:HB3	2.18	0.42
2:C:776:SER:HA	2:C:780:GLU:N	2.34	0.42
2:C:914:ILE:C	2:C:916:GLU:H	2.23	0.42
2:C:957:LYS:HE3	2:C:957:LYS:HB2	1.85	0.42
3:D:1188:VAL:CG2	3:D:1189:ARG:N	2.82	0.42
3:D:434:ARG:HB3	3:D:447:VAL:HG13	1.99	0.42
3:D:654:LYS:O	3:D:657:LEU:HB3	2.19	0.42
3:D:78:VAL:O	3:D:79:GLU:O	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.54	0.42
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.84	0.42
4:E:54:LEU:HG	4:E:58:PRO:CD	2.48	0.42
1:K:49:PRO:CA	1:K:148:VAL:HG12	2.48	0.42
1:L:43:ILE:HG23	1:L:47:SER:HB2	2.00	0.42
2:M:1076:VAL:HA	2:M:1077:PRO:HD3	1.86	0.42
2:M:1115:LEU:HB3	3:N:85:VAL:CG1	2.41	0.42
2:M:487:THR:HG22	2:M:488:ALA:H	1.84	0.42
2:M:650:ARG:HG2	2:M:653:ASP:HB2	2.01	0.42
2:M:721:ARG:HB3	2:M:759:THR:OG1	2.19	0.42
2:M:971:LYS:HD2	2:M:986:PRO:CB	2.47	0.42
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.73	0.42
3:N:119:SER:CB	3:N:123:LEU:HB2	2.47	0.42
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	2.01	0.42
3:N:1286:THR:HG22	3:N:1287:GLU:H	1.83	0.42
3:N:15:PRO:HB2	3:N:19:ARG:HH12	1.82	0.42
3:N:387:LEU:N	3:N:387:LEU:HD13	2.34	0.42
3:N:210:ARG:HG3	3:N:398:ALA:H	1.83	0.42
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.81	0.42
3:N:521:PRO:C	3:N:525:ARG:NH1	2.71	0.42
3:N:691:LEU:HD23	3:N:720:LEU:CD1	2.49	0.42
3:N:82:LYS:C	3:N:84:ILE:N	2.71	0.42
3:N:984:THR:O	3:N:986:ARG:N	2.52	0.42
4:O:22:VAL:CG1	4:O:68:LEU:HD21	2.46	0.42
5:P:274:THR:HG21	5:P:295:MET:HE3	2.01	0.42
1:B:38:ASN:O	1:B:41:ARG:HB3	2.19	0.42
1:B:82:LEU:HD13	1:B:142:VAL:HG11	2.01	0.42
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.49	0.42
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.19	0.42
2:C:289:THR:CG2	2:C:290:LEU:HD23	2.36	0.42
2:C:483:VAL:HG12	2:C:484:VAL:H	1.85	0.42
2:C:48:PHE:C	2:C:50:GLU:N	2.72	0.42
2:C:471:TYR:CE2	2:C:496:ILE:HD13	2.54	0.42
2:C:580:MET:HB3	2:C:584:GLU:CD	2.40	0.42
2:C:863:ASP:OD1	2:C:865:THR:HG23	2.19	0.42
2:C:551:GLU:HA	2:C:906:PHE:HE2	1.84	0.42
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	2.01	0.42
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.20	0.42
3:D:1331:ASP:CB	3:D:1334:GLN:HG3	2.49	0.42
3:D:135:LEU:O	3:D:136:ASP:O	2.37	0.42
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:231:VAL:HA	3:D:378:ILE:HD11	1.99	0.42
3:D:245:LEU:H	3:D:245:LEU:CD1	2.31	0.42
3:D:385:VAL:HG13	3:D:385:VAL:O	2.18	0.42
3:D:437:VAL:HG12	3:D:438:ASP:N	2.34	0.42
3:D:623:VAL:HG12	3:D:624:ASP:N	2.34	0.42
3:D:701:LEU:HD23	3:D:713:ILE:CG2	2.50	0.42
3:D:707:THR:HG21	3:D:713:ILE:HG13	2.00	0.42
2:C:846:LYS:O	3:D:741:ASP:HB2	2.18	0.42
3:D:804:LEU:HD12	3:D:831:GLY:CA	2.48	0.42
3:D:895:VAL:O	3:D:899:LEU:HD12	2.18	0.42
5:F:185:GLN:O	5:F:189:GLU:HG3	2.19	0.42
5:F:269:ASN:O	5:F:273:ARG:N	2.47	0.42
1:K:127:LEU:O	1:K:127:LEU:HG	2.18	0.42
1:K:151:VAL:HG11	1:K:156:HIS:HB3	2.01	0.42
1:K:18:ARG:HH22	1:K:88:ARG:HH21	1.63	0.42
1:K:227:ASN:O	1:K:227:ASN:OD1	2.36	0.42
1:L:175:ARG:O	3:N:851:LEU:HD11	2.19	0.42
1:L:19:GLU:O	1:L:207:PRO:HG3	2.18	0.42
2:M:105:THR:HG22	2:M:106:GLY:H	1.84	0.42
2:M:143:SER:O	2:M:276:LYS:NZ	2.46	0.42
2:M:12:VAL:HG21	2:M:481:ASP:HA	2.01	0.42
2:M:598:GLU:O	2:M:651:LYS:HE3	2.18	0.42
2:M:650:ARG:HG2	2:M:653:ASP:CB	2.49	0.42
2:M:83:CYS:SG	2:M:89:THR:C	2.97	0.42
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.49	0.42
3:N:1083:ASP:O	3:N:1087:ARG:HG2	2.19	0.42
3:N:1098:LEU:HD21	3:N:1263:PHE:CE1	2.54	0.42
3:N:2:LYS:C	3:N:3:LYS:HD3	2.39	0.42
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.35	0.42
2:M:1019:GLN:HE22	3:N:621:LYS:CD	2.32	0.42
2:M:1048:THR:N	3:N:758:GLU:OE2	2.50	0.42
3:N:881:LEU:HD21	3:N:941:PHE:HZ	1.76	0.42
3:N:958:GLU:OE2	3:N:961:LYS:CE	2.66	0.42
3:N:996:TRP:O	3:N:1000:THR:OG1	2.28	0.42
4:O:45:ARG:NH1	4:O:72:ARG:NH2	2.55	0.42
5:P:184:ARG:HH11	5:P:184:ARG:HG2	1.83	0.42
5:P:362:SER:O	5:P:366:ALA:CB	2.65	0.42
5:P:408:LEU:HD23	5:P:409:LYS:N	2.34	0.42
1:A:218:LEU:O	1:A:222:LEU:CD2	2.64	0.42
1:B:41:ARG:HH11	1:B:41:ARG:HG3	1.84	0.42
2:C:1097:LEU:HD23	3:D:101:HIS:CE1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:26:TYR:HA	2:C:29:ALA:HB2	2.00	0.42
1:B:31:GLY:HA3	2:C:856:GLU:OE1	2.18	0.42
2:C:856:GLU:HG3	2:C:857:ASP:N	2.34	0.42
2:C:936:VAL:HG23	2:C:936:VAL:O	2.19	0.42
2:C:983:ILE:O	2:C:984:GLU:C	2.58	0.42
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.40	0.42
3:D:225:LEU:HD12	3:D:440:VAL:CG2	2.46	0.42
3:D:398:ALA:HB1	3:D:443:VAL:HG13	2.01	0.42
3:D:46:ASP:OD1	3:D:47:GLU:N	2.50	0.42
3:D:462:GLN:HG3	3:D:513:ILE:CD1	2.49	0.42
3:D:565:ILE:HG13	5:F:87:GLU:OE2	2.19	0.42
2:C:1057:SER:CB	3:D:621:LYS:HB3	2.49	0.42
3:D:834:THR:HG22	3:D:838:ARG:NE	2.35	0.42
3:D:994:GLN:NE2	3:D:998:GLU:CD	2.70	0.42
4:E:40:LEU:O	4:E:40:LEU:HD12	2.19	0.42
5:F:191:ASN:ND2	5:F:191:ASN:N	2.66	0.42
5:F:209:PHE:CD2	5:F:213:ILE:HD11	2.54	0.42
1:K:30:ARG:HB2	1:K:191:ASP:OD2	2.19	0.42
1:K:53:VAL:HG21	1:K:82:LEU:O	2.20	0.42
1:L:101:LEU:HD11	1:L:113:ASP:HB2	2.01	0.42
1:L:83:LYS:HE3	1:L:168:ASP:HB2	2.01	0.42
1:L:59:GLU:OE1	1:L:138:LEU:CA	2.67	0.42
2:M:1022:GLY:HA3	2:M:1028:GLY:N	2.33	0.42
2:M:15:LEU:H	2:M:15:LEU:HD12	1.84	0.42
2:M:350:ARG:HD2	2:M:350:ARG:H	1.84	0.42
2:M:400:PRO:HD2	2:M:660:ALA:HB3	2.00	0.42
2:M:698:ASP:OD1	2:M:832:LYS:HE3	2.20	0.42
2:M:799:ILE:HG12	2:M:828:ALA:O	2.20	0.42
2:M:881:ASN:ND2	2:M:881:ASN:O	2.52	0.42
2:M:923:GLU:HA	2:M:923:GLU:OE2	2.19	0.42
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.34	0.42
3:N:481:MET:CE	3:N:1388:ARG:NE	2.82	0.42
3:N:626:SER:C	3:N:652:LEU:HD11	2.39	0.42
4:O:25:LYS:HA	4:O:28:GLN:HB2	2.00	0.42
5:P:100:VAL:O	5:P:101:GLU:C	2.58	0.42
5:P:163:LEU:HD13	5:P:174:LEU:HG	2.01	0.42
3:N:534:ARG:HG2	5:P:315:VAL:HG23	2.00	0.42
1:A:77:GLU:OE2	2:C:640:ARG:CZ	2.67	0.42
2:C:1057:SER:OG	3:D:621:LYS:HB3	2.19	0.42
2:C:11:GLU:CG	2:C:537:LYS:HZ2	2.33	0.42
2:C:503:LEU:HD22	2:C:503:LEU:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ARG:HH12	2:C:521:PRO:HB3	1.74	0.42
2:C:543:ASN:ND2	2:C:562:SER:O	2.52	0.42
2:C:583:LEU:C	2:C:585:GLU:N	2.73	0.42
2:C:749:VAL:N	2:C:798:GLY:O	2.52	0.42
3:D:1011:PHE:CD2	3:D:1021:TYR:HB2	2.54	0.42
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	2.02	0.42
3:D:1071:PHE:O	3:D:1071:PHE:CD1	2.71	0.42
3:D:481:MET:O	3:D:489:ARG:HB2	2.19	0.42
3:D:537:THR:CG2	3:D:537:THR:O	2.68	0.42
3:D:679:ARG:NH2	3:D:681:ARG:CG	2.79	0.42
3:D:694:VAL:O	3:D:694:VAL:CG1	2.66	0.42
3:D:694:VAL:O	3:D:698:LYS:HD2	2.19	0.42
3:D:710:ARG:O	3:D:712:GLY:N	2.51	0.42
1:B:176:ARG:NH2	3:D:884:ARG:CZ	2.83	0.42
5:F:110:MET:O	5:F:111:GLU:C	2.57	0.42
5:F:198:ILE:O	5:F:200:LYS:N	2.52	0.42
1:L:79:ILE:HG13	1:L:80:LEU:N	2.35	0.42
2:M:438:ILE:HA	2:M:455:LEU:HA	2.01	0.42
2:M:29:ALA:O	2:M:43:GLY:HA3	2.19	0.42
2:M:44:ILE:HD12	2:M:44:ILE:H	1.84	0.42
2:M:458:TYR:HE1	2:M:537:LYS:HE2	1.85	0.42
2:M:586:ARG:HA	2:M:589:ARG:HB3	2.02	0.42
2:M:663:ASN:C	2:M:665:PHE:N	2.73	0.42
2:M:799:ILE:N	2:M:828:ALA:O	2.52	0.42
2:M:695:LEU:CD2	2:M:833:LEU:HB3	2.48	0.42
2:M:944:LEU:HG	2:M:963:LEU:HD21	2.00	0.42
2:M:958:THR:O	2:M:962:GLN:HB2	2.19	0.42
2:M:984:GLU:HG3	3:N:945:SER:HA	2.00	0.42
3:N:1209:LEU:HD13	3:N:1216:SER:H	1.84	0.42
3:N:1336:LEU:HD12	3:N:1341:PRO:HA	1.99	0.42
3:N:23:TYR:H	3:N:91:GLY:HA2	1.83	0.42
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.27	0.42
3:N:575:GLN:O	3:N:576:GLU:C	2.58	0.42
3:N:947:ILE:O	3:N:947:ILE:CG1	2.67	0.42
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.43	0.42
1:A:14:ARG:HE	1:A:22:GLU:HB2	1.85	0.42
1:A:214:ALA:C	1:A:216:GLU:H	2.22	0.42
1:A:73:GLU:HB2	1:A:78:ILE:CG1	2.50	0.42
1:B:99:LEU:HD21	1:B:122:ILE:HD11	2.02	0.42
1:B:62:LEU:HD12	1:B:62:LEU:H	1.84	0.42
2:C:175:GLU:O	2:C:183:SER:OG	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:536:PRO:HB3	2:C:906:PHE:CD1	2.48	0.42
2:C:57:GLU:HG2	2:C:58:ASP:OD2	2.20	0.42
2:C:752:GLY:O	3:D:679:ARG:HG2	2.18	0.42
3:D:1155:VAL:HG13	3:D:1183:ILE:CD1	2.45	0.42
3:D:1207:TYR:CE1	3:D:1212:ALA:O	2.73	0.42
3:D:228:ALA:HB1	3:D:231:VAL:HG22	2.02	0.42
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.49	0.42
3:D:789:LEU:HD11	3:D:934:LEU:HD22	2.01	0.42
3:D:792:ILE:CD1	3:D:881:LEU:HD23	2.50	0.42
5:F:205:ARG:HE	5:F:251:ILE:CD1	2.31	0.42
5:F:322:GLY:O	5:F:324:GLU:N	2.53	0.42
1:K:219:ARG:O	1:K:221:HIS:N	2.52	0.42
1:K:219:ARG:CZ	1:K:220:GLU:HA	2.49	0.42
1:K:38:ASN:OD1	2:M:980:GLY:N	2.53	0.42
1:K:54:THR:C	1:K:167:VAL:HG22	2.40	0.42
1:L:153:ALA:HB2	1:L:168:ASP:HA	2.00	0.42
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.84	0.42
2:M:267:TYR:HE1	2:M:338:GLU:OE1	2.02	0.42
2:M:523:ILE:HG23	2:M:523:ILE:O	2.19	0.42
2:M:473:ARG:NE	2:M:531:PHE:CZ	2.81	0.42
2:M:697:ARG:C	2:M:699:PHE:N	2.65	0.42
2:M:824:ARG:HG2	2:M:824:ARG:NH1	2.35	0.42
3:N:1434:TRP:O	3:N:1438:ALA:HB2	2.19	0.42
3:N:9:ARG:CB	3:N:1456:LYS:HA	2.42	0.42
3:N:166:GLN:HB2	3:N:207:PHE:CD2	2.54	0.42
3:N:477:LEU:HD11	3:N:495:ARG:HG2	2.01	0.42
3:N:603:LEU:O	3:N:606:ILE:CB	2.60	0.42
3:N:634:GLY:O	3:N:637:LEU:HD22	2.19	0.42
3:N:925:GLU:OE1	4:O:7:ASP:OD2	2.36	0.42
4:O:39:VAL:HB	4:O:72:ARG:HD2	2.02	0.42
5:P:142:ARG:O	5:P:146:GLY:O	2.37	0.42
5:P:286:PRO:HB3	5:P:290:GLU:CB	2.50	0.42
5:P:88:ILE:O	5:P:92:PRO:CG	2.67	0.42
1:A:23:PHE:CD2	1:A:23:PHE:N	2.87	0.42
1:A:3:ASP:O	1:A:5:LYS:N	2.50	0.42
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.84	0.42
2:C:630:ARG:HG3	2:C:631:SER:O	2.19	0.42
2:C:854:PRO:HB2	2:C:856:GLU:CD	2.40	0.42
3:D:1331:ASP:O	3:D:1332:PRO:C	2.58	0.42
3:D:139:GLY:O	3:D:140:ALA:C	2.58	0.42
3:D:173:PRO:HG2	3:D:200:ASP:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:202:VAL:O	3:D:203:ALA:C	2.57	0.42
3:D:25:GLU:OE1	3:D:27:GLU:CB	2.64	0.42
3:D:601:ARG:HH22	3:D:611:GLN:N	2.18	0.42
3:D:956:ILE:HA	3:D:957:PRO:HD3	1.92	0.42
5:F:364:ARG:O	5:F:367:MET:N	2.52	0.42
5:F:416:ARG:HD2	5:F:419:ARG:HB2	2.02	0.42
1:K:196:THR:O	1:K:196:THR:OG1	2.37	0.42
1:K:206:THR:HG23	1:K:207:PRO:HD2	2.02	0.42
1:K:44:LEU:HA	1:K:48:ILE:HD11	2.02	0.42
1:L:176:ARG:HD2	1:L:200:TRP:CE3	2.55	0.42
2:M:383:ARG:C	2:M:385:PHE:H	2.22	0.42
2:M:586:ARG:HB3	2:M:586:ARG:HH11	1.83	0.42
2:M:807:ARG:HB2	2:M:808:ARG:H	1.67	0.42
2:M:80:GLN:O	2:M:82:GLU:N	2.53	0.42
2:M:840:ALA:HB2	2:M:846:LYS:HG3	2.00	0.42
3:N:1215:VAL:HG22	3:N:1216:SER:H	1.85	0.42
3:N:1393:GLN:O	3:N:1394:VAL:O	2.38	0.42
3:N:658:LEU:CD1	3:N:674:ARG:HH11	2.29	0.42
3:N:805:GLU:HA	3:N:831:GLY:HA2	2.02	0.42
3:N:55:ASP:OD2	3:N:82:LYS:HE2	2.17	0.42
3:N:87:ARG:HB3	3:N:523:ASP:OD2	2.19	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.54	0.42
3:N:970:LYS:HD2	3:N:995:LEU:CD1	2.50	0.42
4:O:79:LEU:HB3	4:O:80:VAL:H	1.69	0.42
1:A:221:HIS:ND1	1:A:224:TYR:CE2	2.88	0.42
1:A:99:LEU:N	1:A:99:LEU:CD1	2.83	0.42
1:B:137:ARG:HG2	1:B:137:ARG:HH11	1.85	0.42
1:B:206:THR:HG22	1:B:208:LEU:H	1.85	0.42
1:B:26:GLU:HG2	1:B:27:PRO:N	2.34	0.42
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.54	0.42
2:C:126:SER:HB2	2:C:395:LYS:HD2	2.01	0.42
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.83	0.42
2:C:807:ARG:NE	2:C:808:ARG:O	2.52	0.42
2:C:842:ARG:H	2:C:842:ARG:HG3	1.51	0.42
2:C:917:LEU:O	2:C:920:GLN:HB3	2.20	0.42
3:D:1126:ASP:CG	3:D:1129:THR:HA	2.39	0.42
3:D:1232:PRO:C	3:D:1234:THR:H	2.23	0.42
3:D:1300:SER:O	3:D:1301:LYS:HB2	2.19	0.42
3:D:1409:ALA:O	3:D:1410:GLU:O	2.38	0.42
3:D:1462:LEU:HD23	3:D:1462:LEU:N	2.35	0.42
3:D:17:LYS:O	3:D:20:SER:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:421:LEU:N	3:D:421:LEU:HD23	2.34	0.42
3:D:462:GLN:HA	3:D:513:ILE:HD13	2.00	0.42
3:D:568:ARG:CA	3:D:571:LYS:HZ2	2.31	0.42
3:D:572:ARG:O	3:D:575:GLN:N	2.53	0.42
3:D:704:ARG:O	3:D:705:ALA:O	2.38	0.42
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.55	0.42
3:D:19:ARG:NH2	3:D:94:GLU:OE2	2.48	0.42
4:E:24:ALA:O	4:E:27:ALA:N	2.52	0.42
2:C:1014:SER:HB2	5:F:331:ASP:OD1	2.20	0.42
1:K:33:GLY:CA	1:K:195:LEU:HB2	2.42	0.42
1:K:63:HIS:CD2	1:K:65:PHE:N	2.87	0.42
2:M:405:ARG:HH22	2:M:409:ARG:HH21	1.61	0.42
2:M:680:ASP:C	2:M:682:TYR:N	2.71	0.42
2:M:720:GLU:OE2	2:M:758:ARG:NH1	2.53	0.42
2:M:816:LYS:O	2:M:819:VAL:HG23	2.19	0.42
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.37	0.42
3:N:1219:GLU:CG	3:N:1221:VAL:HG22	2.37	0.42
3:N:1197:ARG:NH1	3:N:1377:LYS:HE3	2.34	0.42
3:N:1450:ALA:CA	3:N:1455:LYS:HG3	2.44	0.42
3:N:486:ARG:CA	3:N:489:ARG:HD2	2.49	0.42
3:N:899:LEU:HD13	3:N:899:LEU:H	1.84	0.42
3:N:948:THR:O	3:N:1019:PRO:CB	2.68	0.42
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.84	0.42
5:P:271:LEU:HD21	5:P:299:TRP:CH2	2.55	0.42
5:P:94:LEU:HB2	5:P:98:GLU:HG3	2.02	0.42
1:A:74:ASP:OD1	1:A:74:ASP:N	2.52	0.42
1:A:228:PRO:HB3	1:B:13:VAL:HB	2.01	0.42
2:C:1057:SER:HB3	3:D:621:LYS:HE2	2.01	0.42
2:C:148:PHE:CB	2:C:313:LEU:HD22	2.48	0.42
2:C:365:ASP:O	2:C:367:LEU:HD23	2.20	0.42
2:C:493:ARG:C	2:C:494:TYR:CG	2.93	0.42
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.86	0.42
2:C:52:PHE:CB	2:C:53:PRO:HD3	2.50	0.42
2:C:583:LEU:O	2:C:585:GLU:N	2.53	0.42
3:D:1011:PHE:CE1	3:D:1018:ASN:ND2	2.87	0.42
3:D:1491:THR:HG21	4:E:89:MET:HE1	2.02	0.42
3:D:64:LYS:HE2	3:D:64:LYS:HB3	1.82	0.42
3:D:81:THR:O	3:D:82:LYS:C	2.57	0.42
3:D:846:PRO:O	3:D:849:ALA:HB3	2.19	0.42
3:D:858:VAL:CG1	3:D:877:PRO:HG2	2.50	0.42
3:D:907:GLU:HG3	3:D:1026:SER:CA	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:26:GLU:CB	1:K:27:PRO:CD	2.92	0.42
1:L:54:THR:OG1	1:L:156:HIS:CE1	2.73	0.42
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	2.01	0.42
2:M:588:VAL:HG21	2:M:664:GLY:O	2.20	0.42
1:K:46:SER:OG	2:M:856:GLU:CD	2.58	0.42
2:M:901:TYR:N	2:M:901:TYR:CD1	2.87	0.42
3:N:1099:VAL:HG13	3:N:1223:ILE:HD12	2.01	0.42
3:N:1258:ARG:C	3:N:1260:ILE:N	2.73	0.42
3:N:1259:VAL:HG12	3:N:1259:VAL:O	2.20	0.42
3:N:1346:ARG:HG3	3:N:1346:ARG:NH1	2.35	0.42
3:N:1412:LYS:O	3:N:1412:LYS:HG3	2.19	0.42
3:N:245:LEU:HB3	3:N:366:LYS:NZ	2.35	0.42
3:N:373:PRO:O	3:N:374:GLU:HG3	2.20	0.42
3:N:397:LYS:HE2	3:N:399:ARG:NE	2.24	0.42
3:N:535:PHE:CD1	3:N:535:PHE:N	2.88	0.42
3:N:569:ASN:HD21	3:N:572:ARG:NH1	2.18	0.42
3:N:575:GLN:O	3:N:577:ALA:N	2.53	0.42
1:B:36:LEU:C	1:B:39:PRO:HD2	2.40	0.42
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.35	0.42
1:B:87:VAL:HG12	1:B:122:ILE:HA	2.02	0.42
2:C:157:ARG:HB3	2:C:158:TYR:H	1.72	0.42
2:C:561:GLY:C	2:C:563:ASN:H	2.22	0.42
2:C:71:TYR:HD2	2:C:71:TYR:N	2.17	0.42
3:D:1302:GLU:OE2	3:D:1304:LYS:HD3	2.20	0.42
3:D:130:SER:OG	3:D:132:TYR:HE1	2.00	0.42
3:D:1435:LEU:HG	3:D:1467:ILE:HD12	2.02	0.42
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.54	0.42
3:D:552:ASN:O	3:D:553:ARG:C	2.56	0.42
4:E:41:GLU:HB3	4:E:42:PRO:CD	2.50	0.42
5:F:336:GLU:O	5:F:338:LEU:N	2.53	0.42
5:F:386:VAL:CG1	5:F:387:GLY:H	2.26	0.42
1:K:44:LEU:O	1:K:48:ILE:HD12	2.20	0.42
1:L:25:LEU:O	1:L:25:LEU:HD23	2.20	0.42
2:M:1036:GLU:O	2:M:1039:ALA:N	2.52	0.42
2:M:143:SER:O	2:M:147:TYR:OH	2.31	0.42
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.87	0.42
2:M:486:MET:HE2	2:M:491:GLU:HB3	2.02	0.42
2:M:712:ALA:HB3	2:M:821:GLU:H	1.85	0.42
3:N:1078:ARG:CG	3:N:1078:ARG:HH11	2.24	0.42
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.50	0.42
3:N:1258:ARG:HG2	3:N:1258:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1302:GLU:HG2	3:N:1303:TYR:N	2.35	0.42
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	2.01	0.42
3:N:224:ARG:NH1	3:N:229:ALA:N	2.68	0.42
3:N:560:GLN:OE1	5:P:221:ILE:HG22	2.20	0.42
3:N:661:MET:HB3	3:N:667:ALA:CB	2.49	0.42
3:N:741:ASP:C	3:N:741:ASP:OD1	2.58	0.42
3:N:791:TYR:CD2	3:N:945:SER:OG	2.62	0.42
3:N:804:LEU:C	3:N:804:LEU:HD12	2.40	0.42
3:N:785:ILE:HG13	3:N:939:PHE:CD2	2.54	0.42
4:O:45:ARG:HB3	4:O:46:PRO:HD2	2.02	0.42
4:O:88:GLU:O	4:O:92:ILE:HG12	2.20	0.42
5:P:190:ALA:C	5:P:191:ASN:ND2	2.73	0.42
5:P:389:PHE:HD2	5:P:397:ILE:CD1	2.29	0.42
5:P:393:THR:HG22	5:P:394:ARG:N	2.35	0.42
1:A:64:GLU:O	1:A:64:GLU:HG2	2.20	0.42
1:A:88:ARG:HH11	1:A:88:ARG:HG2	1.84	0.42
1:B:100:LEU:O	1:B:114:PHE:HA	2.20	0.42
1:B:165:ILE:O	1:B:165:ILE:HG13	2.20	0.42
1:B:18:ARG:O	1:B:207:PRO:HD3	2.20	0.42
2:C:1048:THR:O	2:C:1052:MET:HB2	2.20	0.42
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.35	0.42
2:C:237:ARG:O	2:C:241:LEU:HG	2.20	0.42
2:C:260:LEU:HG	2:C:261:ILE:N	2.35	0.42
2:C:365:ASP:HA	2:C:367:LEU:HD22	2.00	0.42
2:C:327:HIS:HA	2:C:431:HIS:HD2	1.83	0.42
2:C:497:ALA:HB2	2:C:515:ALA:HB2	2.02	0.42
2:C:73:LEU:H	2:C:73:LEU:CD1	2.31	0.42
2:C:768:THR:O	2:C:772:ARG:HB2	2.18	0.42
2:C:872:ASN:HA	2:C:873:PRO:HD3	1.80	0.42
2:C:897:LEU:HD13	2:C:921:ALA:CB	2.32	0.42
3:D:9:ARG:CZ	3:D:11:ALA:HB2	2.50	0.42
3:D:521:PRO:C	3:D:525:ARG:NH1	2.74	0.42
3:D:618:LEU:HA	3:D:618:LEU:HD23	1.75	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.88	0.42
3:D:778:LEU:HA	3:D:778:LEU:HD12	1.78	0.42
3:D:826:PRO:HB2	3:D:829:VAL:CG2	2.46	0.42
3:D:84:ILE:HG13	3:D:85:VAL:N	2.35	0.42
3:D:786:ILE:HD13	3:D:908:LYS:CB	2.50	0.42
4:E:54:LEU:HA	4:E:58:PRO:CD	2.49	0.42
2:M:1039:ALA:O	2:M:1043:TYR:CE1	2.73	0.42
2:M:396:ASP:OD1	2:M:398:THR:OG1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:503:LEU:HD22	2:M:508:ILE:HA	2.02	0.42
2:M:774:LEU:C	2:M:774:LEU:HD13	2.40	0.42
2:M:846:LYS:HE2	2:M:997:LEU:HD12	2.02	0.42
2:M:910:LYS:O	2:M:913:GLU:HB2	2.19	0.42
2:M:958:THR:HG23	2:M:961:GLU:H	1.84	0.42
3:N:1042:ARG:HH12	3:N:1045:MET:HE2	1.82	0.42
2:M:432:ARG:NH2	3:N:1047:LYS:CG	2.83	0.42
3:N:1286:THR:CG2	3:N:1287:GLU:N	2.83	0.42
3:N:1336:LEU:CD1	3:N:1341:PRO:CA	2.98	0.42
3:N:455:ARG:CD	3:N:463:GLN:HE21	2.33	0.42
3:N:572:ARG:O	3:N:575:GLN:HB3	2.20	0.42
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.66	0.42
1:A:220:GLU:HG2	1:A:220:GLU:O	2.20	0.41
1:A:88:ARG:NH1	1:A:90:LEU:HD21	2.33	0.41
2:C:1034:GLU:OE1	3:D:1096:ARG:HD2	2.19	0.41
2:C:1067:TYR:OH	2:C:1071:ILE:HD11	2.18	0.41
2:C:1081:VAL:CG1	2:C:1086:ARG:HE	2.32	0.41
2:C:135:VAL:HG12	2:C:136:ILE:N	2.34	0.41
2:C:144:PRO:HB2	2:C:276:LYS:NZ	2.35	0.41
2:C:302:VAL:C	2:C:305:PRO:HD2	2.40	0.41
2:C:473:ARG:NH2	2:C:484:VAL:HG21	2.35	0.41
2:C:497:ALA:N	2:C:531:PHE:O	2.46	0.41
2:C:728:HIS:O	2:C:729:LEU:HD22	2.19	0.41
2:C:837:ASP:OD2	2:C:838:LYS:N	2.52	0.41
2:C:984:GLU:HG2	3:D:944:THR:O	2.20	0.41
3:D:1403:LEU:HD22	3:D:1407:LEU:HD22	2.02	0.41
3:D:117:ASP:OD1	3:D:495:ARG:CZ	2.68	0.41
3:D:545:ARG:O	3:D:546:ARG:C	2.58	0.41
3:D:65:ARG:CG	3:D:66:GLN:N	2.82	0.41
3:D:714:GLN:HE22	3:D:735:ALA:HB3	1.78	0.41
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.34	0.41
3:D:951:ILE:O	3:D:951:ILE:CD1	2.68	0.41
3:D:1494:ALA:CB	4:E:92:ILE:HD11	2.50	0.41
5:F:287:THR:C	5:F:289:GLU:N	2.74	0.41
2:M:1019:GLN:HE21	2:M:1019:GLN:HB3	1.60	0.41
2:M:1047:HIS:ND1	3:N:754:PHE:CB	2.83	0.41
2:M:20:GLU:HG3	2:M:460:ARG:HH21	1.84	0.41
2:M:484:VAL:O	2:M:486:MET:N	2.53	0.41
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.50	0.41
3:N:1225:ALA:O	3:N:1227:GLN:N	2.53	0.41
3:N:1290:LEU:HD22	3:N:1311:LEU:HD22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1304:LYS:O	3:N:1305:LEU:CG	2.67	0.41
3:N:374:GLU:OE2	3:N:386:HIS:ND1	2.53	0.41
3:N:486:ARG:N	3:N:489:ARG:HD2	2.35	0.41
3:N:575:GLN:O	3:N:578:VAL:N	2.53	0.41
3:N:767:HIS:HA	3:N:924:MET:SD	2.60	0.41
4:O:62:THR:O	4:O:66:LYS:HB2	2.19	0.41
5:P:166:LEU:HA	5:P:167:PRO:HD3	1.83	0.41
5:P:196:VAL:HA	5:P:199:ALA:HB3	2.01	0.41
5:P:302:LYS:HG3	5:P:303:ARG:N	2.35	0.41
1:A:20:TYR:CE1	1:A:22:GLU:HG3	2.54	0.41
1:A:86:VAL:N	1:A:124:ASN:HD22	2.18	0.41
2:C:274:ARG:HB2	2:C:288:ARG:HH22	1.84	0.41
2:C:475:VAL:O	2:C:476:GLY:C	2.58	0.41
2:C:533:ASP:HB3	2:C:538:GLN:HE21	1.85	0.41
2:C:572:ILE:CG1	2:C:701:THR:HB	2.50	0.41
2:C:889:HIS:O	2:C:891:GLY:N	2.53	0.41
2:C:435:TYR:CD1	3:D:1071:PHE:CD2	3.06	0.41
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.35	0.41
3:D:1342:GLU:H	3:D:1342:GLU:CD	2.24	0.41
3:D:1348:LEU:O	3:D:1352:ILE:HG13	2.20	0.41
3:D:215:TYR:HE2	3:D:375:GLU:HG2	1.84	0.41
3:D:378:ILE:N	3:D:378:ILE:CD1	2.81	0.41
3:D:416:ALA:N	3:D:417:PRO:CD	2.72	0.41
2:C:848:VAL:HG21	3:D:742:GLY:CA	2.50	0.41
3:D:887:ALA:HA	3:D:896:ALA:CB	2.50	0.41
3:D:988:ARG:HD2	3:D:988:ARG:O	2.19	0.41
4:E:29:GLN:HA	4:E:32:ARG:HB3	2.02	0.41
5:F:330:GLY:O	5:F:333:ILE:HD12	2.19	0.41
5:F:80:PRO:O	5:F:84:TYR:CE2	2.73	0.41
2:M:1102:LEU:HD23	2:M:1106:ASP:HA	2.01	0.41
2:M:1114:GLY:O	2:M:1116:ALA:N	2.52	0.41
2:M:515:ALA:HB3	2:M:524:VAL:HG12	2.02	0.41
2:M:578:VAL:HG11	2:M:991:GLN:CB	2.50	0.41
3:N:1153:VAL:O	3:N:1155:VAL:HG23	2.21	0.41
3:N:1233:GLY:HA2	3:N:1236:LEU:HD12	2.01	0.41
3:N:1313:VAL:HG23	3:N:1314:LYS:HZ1	1.85	0.41
3:N:1366:LYS:O	3:N:1369:GLU:N	2.53	0.41
3:N:142:LEU:HD12	3:N:142:LEU:C	2.39	0.41
3:N:247:GLU:O	3:N:247:GLU:HG2	2.20	0.41
3:N:36:THR:CG2	3:N:38:LYS:HG3	2.40	0.41
3:N:96:ALA:CB	3:N:554:LEU:HD12	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:71:LYS:N	3:N:71:LYS:HD2	2.35	0.41
2:M:1043:TYR:HB3	3:N:762:GLN:CD	2.41	0.41
3:N:868:TYR:HD1	3:N:869:MET:H	1.62	0.41
3:N:795:VAL:HG23	3:N:879:ARG:CZ	2.50	0.41
3:N:785:ILE:HG12	3:N:935:LYS:HA	2.01	0.41
3:N:785:ILE:CG1	3:N:939:PHE:CE2	3.04	0.41
5:P:207:LEU:HD12	5:P:212:LEU:CD2	2.50	0.41
5:P:384:GLU:O	5:P:384:GLU:HG2	2.20	0.41
3:N:167:GLU:OE2	5:P:91:VAL:HG22	2.20	0.41
1:A:140:MET:HG3	1:A:140:MET:O	2.21	0.41
1:B:34:VAL:O	1:B:34:VAL:HG12	2.19	0.41
2:C:1083:GLU:O	2:C:1087:VAL:CG2	2.58	0.41
2:C:223:ASP:O	2:C:225:SER:N	2.53	0.41
2:C:278:GLU:HG3	2:C:283:ILE:O	2.20	0.41
2:C:516:ARG:CZ	3:D:1068:LEU:CD2	2.79	0.41
2:C:708:TYR:N	2:C:708:TYR:CD1	2.88	0.41
2:C:857:ASP:HA	2:C:977:GLY:O	2.19	0.41
2:C:536:PRO:HB2	2:C:905:ILE:CG2	2.50	0.41
2:C:987:ILE:HA	3:D:948:THR:CG2	2.49	0.41
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	2.02	0.41
3:D:1021:TYR:O	3:D:1024:ALA:HB3	2.20	0.41
3:D:1459:LEU:HD13	3:D:1468:LEU:HD12	2.03	0.41
3:D:218:LYS:HG3	3:D:370:ALA:HB1	2.01	0.41
3:D:650:LEU:HD12	3:D:657:LEU:CD2	2.50	0.41
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.55	0.41
5:F:386:VAL:CG1	5:F:387:GLY:N	2.82	0.41
1:K:110:LYS:O	1:K:112:ARG:N	2.53	0.41
1:K:146:ARG:C	1:K:146:ARG:HE	2.23	0.41
1:K:2:LEU:O	1:K:6:LEU:HD23	2.20	0.41
1:L:177:VAL:HG13	1:L:197:LEU:HD11	2.02	0.41
2:M:1053:LEU:HA	2:M:1053:LEU:HD13	1.77	0.41
2:M:198:ARG:HH22	2:M:203:ASP:CB	2.31	0.41
2:M:475:VAL:O	2:M:476:GLY:C	2.58	0.41
3:N:100:ALA:HB2	3:N:128:TYR:OH	2.20	0.41
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.50	0.41
3:N:1356:TYR:CG	3:N:1363:LEU:HD21	2.55	0.41
3:N:1395:LEU:O	3:N:1395:LEU:HD22	2.20	0.41
3:N:195:VAL:O	3:N:205:TYR:HD1	2.03	0.41
3:N:237:LYS:H	3:N:238:PRO:HD3	1.86	0.41
3:N:984:THR:HG23	3:N:986:ARG:HB3	2.01	0.41
5:P:413:SER:OG	5:P:419:ARG:NH2	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:LYS:HZ3	1:A:188:GLN:HE21	1.64	0.41
1:A:67:THR:HG21	2:C:609:ASN:CG	2.41	0.41
1:B:101:LEU:HD23	1:B:101:LEU:C	2.41	0.41
1:B:33:GLY:HA3	1:B:181:VAL:CG1	2.50	0.41
2:C:1115:LEU:HD22	3:D:88:TYR:HD1	1.82	0.41
2:C:338:GLU:CA	2:C:341:THR:HG22	2.50	0.41
2:C:44:ILE:N	2:C:44:ILE:HD12	2.35	0.41
2:C:634:GLY:HA3	2:C:704:HIS:CE1	2.56	0.41
2:C:912:PRO:O	2:C:915:LYS:N	2.53	0.41
2:C:983:ILE:HG23	3:D:944:THR:CA	2.51	0.41
3:D:1022:VAL:O	3:D:1025:GLN:N	2.50	0.41
3:D:1084:THR:O	3:D:1087:ARG:N	2.45	0.41
3:D:1260:ILE:C	3:D:1262:LEU:N	2.72	0.41
3:D:207:PHE:HA	3:D:208:PRO:HD3	1.80	0.41
3:D:23:TYR:HB3	3:D:49:ILE:O	2.19	0.41
3:D:627:GLY:HA3	3:D:648:MET:HE2	2.01	0.41
3:D:684:LYS:O	3:D:686:GLU:N	2.53	0.41
3:D:994:GLN:HE21	3:D:998:GLU:HG2	1.83	0.41
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.36	0.41
4:E:59:ASN:CG	4:E:61:GLU:OE2	2.58	0.41
4:E:6:ILE:HG23	4:E:7:ASP:N	2.35	0.41
5:F:138:SER:OG	5:F:140:ARG:HG2	2.20	0.41
5:F:195:VAL:HG22	5:F:220:LEU:HD12	2.02	0.41
5:F:323:ASP:O	5:F:325:LYS:HG3	2.20	0.41
1:K:218:LEU:CD2	1:L:222:LEU:HD11	2.45	0.41
2:M:1088:LEU:HA	2:M:1091:GLU:OE2	2.20	0.41
2:M:145:GLY:H	2:M:163:ILE:HG23	1.84	0.41
2:M:431:HIS:CG	2:M:432:ARG:N	2.88	0.41
2:M:73:LEU:CD2	2:M:94:LEU:HD13	2.50	0.41
2:M:674:VAL:O	2:M:989:VAL:HA	2.20	0.41
3:N:1087:ARG:CD	3:N:1087:ARG:N	2.83	0.41
3:N:1116:ASN:H	3:N:1116:ASN:ND2	2.15	0.41
3:N:1307:LYS:O	3:N:1309:ALA:N	2.53	0.41
3:N:1322:GLY:HA3	3:N:1339:LYS:HE3	2.02	0.41
3:N:1336:LEU:C	3:N:1338:ALA:N	2.73	0.41
2:M:1046:ALA:HB2	3:N:1476:THR:HB	2.01	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.51	0.41
3:N:539:ASP:O	3:N:540:LEU:C	2.56	0.41
3:N:560:GLN:CG	5:P:221:ILE:HG21	2.50	0.41
3:N:839:LEU:HG	3:N:839:LEU:H	1.67	0.41
3:N:940:THR:O	3:N:943:THR:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:367:MET:O	5:P:371:LEU:N	2.53	0.41
1:A:51:THR:HG21	1:A:89:PHE:CD2	2.55	0.41
1:B:76:VAL:O	1:B:76:VAL:HG12	2.21	0.41
2:C:66:LEU:HD13	2:C:100:LEU:HD23	2.02	0.41
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.92	0.41
2:C:411:SER:HB2	2:C:452:ILE:HG23	2.02	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.81	0.41
3:D:1014:ASN:O	3:D:1015:TYR:CD1	2.74	0.41
3:D:1492:LEU:HD13	3:D:1492:LEU:C	2.41	0.41
3:D:208:PRO:HB2	3:D:395:VAL:CG1	2.47	0.41
3:D:401:TYR:N	3:D:402:PRO:HD3	2.36	0.41
3:D:513:ILE:HG13	3:D:513:ILE:H	1.51	0.41
3:D:614:PHE:O	3:D:617:ASN:HB3	2.21	0.41
3:D:678:GLU:CG	3:D:679:ARG:HG3	2.50	0.41
3:D:932:ASP:C	3:D:935:LYS:H	2.24	0.41
5:F:97:GLU:O	5:F:100:VAL:HB	2.21	0.41
3:D:423:ASP:OD2	5:F:174:LEU:HD13	2.19	0.41
5:F:202:TYR:HE2	5:F:248:ASN:OD1	2.04	0.41
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.56	0.41
2:M:112:GLU:O	2:M:113:VAL:HG23	2.20	0.41
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.20	0.41
2:M:56:GLU:OE2	2:M:356:ARG:HD3	2.20	0.41
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.31	0.41
2:M:44:ILE:HD12	2:M:44:ILE:N	2.36	0.41
2:M:660:ALA:O	2:M:667:ALA:N	2.52	0.41
2:M:824:ARG:HH11	2:M:824:ARG:HG2	1.85	0.41
3:N:1118:ILE:HA	3:N:1118:ILE:HD13	1.90	0.41
3:N:605:ASP:N	3:N:605:ASP:OD1	2.53	0.41
3:N:670:VAL:O	3:N:673:ALA:N	2.54	0.41
1:A:122:ILE:HG22	1:A:124:ASN:H	1.85	0.41
1:A:40:LEU:HD12	1:A:197:LEU:HD11	2.03	0.41
1:B:30:ARG:NE	1:B:191:ASP:HB2	2.35	0.41
1:B:15:THR:HA	1:B:21:GLY:HA2	2.02	0.41
2:C:1058:ASP:HB2	3:D:621:LYS:CE	2.50	0.41
2:C:230:ARG:HA	2:C:231:PRO:HD3	1.88	0.41
2:C:350:ARG:HH11	2:C:350:ARG:HG2	1.85	0.41
2:C:586:ARG:HD3	2:C:590:ASP:OD2	2.20	0.41
2:C:691:SER:O	2:C:693:GLU:N	2.53	0.41
3:D:1307:LYS:HG3	3:D:1308:GLU:H	1.85	0.41
3:D:1312:LEU:HD21	3:D:1327:ARG:NH2	2.35	0.41
3:D:1319:VAL:HG23	3:D:1319:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.20	0.41
3:D:1336:LEU:CD2	3:D:1421:LEU:HB2	2.47	0.41
3:D:1442:ASN:O	3:D:1443:THR:C	2.59	0.41
3:D:1106:VAL:CG2	3:D:1474:ALA:HB2	2.49	0.41
3:D:623:VAL:CG1	3:D:624:ASP:N	2.83	0.41
3:D:633:VAL:HG13	3:D:633:VAL:O	2.20	0.41
2:C:1115:LEU:HD13	3:D:88:TYR:HD1	1.84	0.41
3:D:926:LYS:HE3	3:D:926:LYS:HB2	1.88	0.41
3:D:999:THR:O	3:D:1002:LYS:HB2	2.20	0.41
5:F:275:ALA:HA	5:F:278:LEU:HD12	2.03	0.41
1:K:151:VAL:HB	1:K:169:ALA:HB3	2.02	0.41
1:L:182:GLU:OE1	1:L:194:LYS:HD3	2.21	0.41
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.47	0.41
2:M:133:ASP:HB2	2:M:395:LYS:HB3	2.03	0.41
2:M:143:SER:OG	2:M:276:LYS:NZ	2.52	0.41
2:M:319:GLY:O	2:M:321:GLU:CD	2.58	0.41
2:M:349:ALA:O	2:M:352:ALA:N	2.50	0.41
2:M:383:ARG:C	2:M:385:PHE:N	2.74	0.41
2:M:400:PRO:HB3	2:M:593:ALA:HB2	2.03	0.41
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.49	0.41
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.47	0.41
2:M:855:VAL:HG21	2:M:866:PRO:HG2	2.03	0.41
3:N:1042:ARG:HD3	3:N:1065:LEU:HD11	2.02	0.41
3:N:1078:ARG:O	3:N:1082:ALA:HB3	2.21	0.41
3:N:1137:ARG:CD	3:N:1137:ARG:N	2.83	0.41
3:N:135:LEU:HD21	3:N:452:ILE:CD1	2.47	0.41
3:N:1447:LEU:HA	3:N:1447:LEU:HD12	1.84	0.41
3:N:575:GLN:HA	3:N:575:GLN:OE1	2.19	0.41
3:N:624:ASP:HB3	3:N:625:TYR:H	1.60	0.41
3:N:84:ILE:O	3:N:87:ARG:HG2	2.21	0.41
5:P:323:ASP:O	5:P:324:GLU:C	2.59	0.41
1:A:124:ASN:N	1:A:125:PRO:CD	2.83	0.41
1:B:29:GLU:O	1:B:30:ARG:C	2.57	0.41
1:B:91:ASN:HB2	1:B:92:PRO:CD	2.51	0.41
2:C:185:LYS:HB2	2:C:185:LYS:HE3	1.90	0.41
2:C:31:GLN:CD	2:C:40:GLU:HB2	2.41	0.41
2:C:337:GLY:O	2:C:339:LEU:N	2.54	0.41
2:C:407:LYS:HB2	2:C:407:LYS:HE2	1.83	0.41
2:C:516:ARG:NH2	3:D:1068:LEU:HB2	2.36	0.41
2:C:983:ILE:HG22	2:C:983:ILE:O	2.19	0.41
3:D:1072:ILE:HA	3:D:1072:ILE:HD13	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:112:ILE:O	3:D:112:ILE:HD12	2.21	0.41
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.34	0.41
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.41
3:D:646:LYS:O	3:D:649:ALA:N	2.53	0.41
3:D:864:VAL:CG1	3:D:865:THR:N	2.83	0.41
3:D:891:GLU:O	3:D:893:GLU:N	2.53	0.41
3:D:93:ILE:CD1	3:D:548:ILE:CD1	2.99	0.41
4:E:41:GLU:CA	4:E:45:ARG:HG3	2.51	0.41
5:F:163:LEU:HB3	5:F:174:LEU:HD12	2.03	0.41
5:F:234:LYS:HD2	5:F:236:SER:CB	2.51	0.41
3:D:526:PRO:HD2	5:F:317:LEU:HD13	2.03	0.41
5:F:336:GLU:C	5:F:338:LEU:N	2.74	0.41
1:K:104:GLU:O	1:K:105:GLY:O	2.39	0.41
1:K:133:GLU:CG	1:K:134:GLU:H	2.34	0.41
2:M:101:ILE:HG22	2:M:102:HIS:N	2.36	0.41
2:M:1063:ARG:CG	2:M:1064:ASN:H	2.32	0.41
2:M:124:ASP:OD1	2:M:125:GLY:N	2.53	0.41
2:M:239:PHE:CE1	2:M:254:VAL:HG21	2.56	0.41
2:M:442:GLU:HG2	2:M:454:SER:OG	2.21	0.41
3:N:957:PRO:HG3	3:N:1007:VAL:HA	2.03	0.41
3:N:1066:THR:OG1	3:N:1067:VAL:N	2.53	0.41
3:N:1101:VAL:HG13	3:N:1102:THR:N	2.35	0.41
3:N:1353:GLN:O	3:N:1354:LYS:C	2.59	0.41
3:N:1101:VAL:HG22	3:N:1374:GLN:HB3	2.02	0.41
3:N:1466:VAL:O	3:N:1469:GLY:N	2.50	0.41
3:N:520:LEU:HD11	3:N:524:LEU:HD12	2.03	0.41
3:N:554:LEU:HD22	3:N:554:LEU:HA	1.91	0.41
3:N:637:LEU:C	3:N:638:LYS:HG3	2.40	0.41
3:N:779:ALA:HB3	3:N:931:LEU:CD1	2.50	0.41
3:N:845:ASN:CB	3:N:848:GLU:HG2	2.51	0.41
5:P:214:GLN:HE21	5:P:214:GLN:HA	1.85	0.41
1:A:165:ILE:HA	1:A:166:PRO:HD3	1.83	0.41
1:A:58:ILE:HG21	1:A:61:VAL:CG2	2.51	0.41
1:B:68:ILE:HA	1:B:69:PRO:HD3	1.87	0.41
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.85	0.41
2:C:1113:GLU:O	2:C:1115:LEU:HD12	2.21	0.41
2:C:443:THR:O	2:C:559:LEU:CD1	2.69	0.41
2:C:613:VAL:O	2:C:620:LEU:HA	2.21	0.41
2:C:680:ASP:OD2	3:D:939:PHE:HB3	2.20	0.41
2:C:801:VAL:HG23	2:C:802:ARG:N	2.35	0.41
2:C:873:PRO:O	2:C:877:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:577:PRO:HG3	2:C:993:PHE:CG	2.56	0.41
3:D:1130:ARG:O	3:D:1131:SER:HB3	2.21	0.41
3:D:1243:THR:CB	3:D:1253:THR:HB	2.51	0.41
3:D:130:SER:HB3	3:D:132:TYR:CD1	2.55	0.41
3:D:133:ILE:HG21	3:D:454:ALA:CB	2.34	0.41
3:D:1438:ALA:C	3:D:1440:PHE:H	2.22	0.41
3:D:160:GLU:CG	3:D:165:LYS:HD3	2.51	0.41
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.50	0.41
3:D:806:PHE:C	3:D:808:THR:H	2.24	0.41
5:F:114:LYS:O	5:F:117:SER:OG	2.39	0.41
5:F:316:SER:OG	5:F:318:GLU:O	2.22	0.41
5:F:398:ARG:O	5:F:401:GLU:HB3	2.21	0.41
1:L:208:LEU:O	1:L:211:LEU:N	2.53	0.41
2:M:610:ARG:CG	2:M:610:ARG:HH11	2.33	0.41
2:M:604:ALA:HB3	2:M:612:VAL:O	2.20	0.41
2:M:853:LEU:HA	2:M:854:PRO:HD3	1.81	0.41
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.85	0.41
3:N:1127:GLU:C	3:N:1129:THR:H	2.24	0.41
3:N:1128:VAL:O	3:N:1130:ARG:N	2.53	0.41
3:N:1135:ARG:CZ	3:N:1139:ASP:HB3	2.51	0.41
3:N:1144:LEU:HB3	3:N:1171:VAL:HG22	2.03	0.41
3:N:1148:VAL:HG12	3:N:1189:ARG:CG	2.50	0.41
3:N:1188:VAL:O	3:N:1188:VAL:HG13	2.19	0.41
3:N:1243:THR:OG1	3:N:1253:THR:CB	2.69	0.41
3:N:1243:THR:HG21	3:N:1253:THR:OG1	2.20	0.41
3:N:168:THR:C	3:N:170:PRO:HD3	2.41	0.41
3:N:568:ARG:O	3:N:569:ASN:C	2.59	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.84	0.41
3:N:736:PHE:O	3:N:738:ALA:CB	2.68	0.41
3:N:796:ARG:HE	3:N:828:LYS:NZ	2.17	0.41
3:N:831:GLY:O	3:N:832:ARG:C	2.58	0.41
3:N:884:ARG:O	3:N:888:GLU:N	2.53	0.41
3:N:93:ILE:HG13	3:N:519:VAL:HG21	2.02	0.41
5:P:225:GLU:HG2	5:P:226:LYS:HZ2	1.85	0.41
1:B:10:VAL:O	1:B:10:VAL:HG12	2.21	0.41
2:C:1010:THR:CG2	2:C:1011:GLY:H	2.29	0.41
2:C:291:ALA:O	2:C:292:ARG:HB2	2.21	0.41
2:C:576:ALA:HB3	2:C:900:ARG:NH2	2.36	0.41
2:C:633:GLN:HE21	2:C:633:GLN:H	1.69	0.41
2:C:85:GLU:C	2:C:86:LYS:O	2.59	0.41
2:C:886:LEU:HD23	2:C:886:LEU:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1113:GLY:O	3:D:1114:THR:C	2.59	0.41
3:D:1331:ASP:O	3:D:1334:GLN:HB2	2.20	0.41
3:D:444:VAL:O	3:D:446:VAL:HG23	2.21	0.41
3:D:760:ARG:O	4:E:3:GLU:OE1	2.38	0.41
3:D:834:THR:HG22	3:D:838:ARG:HD2	2.02	0.41
3:D:988:ARG:C	3:D:988:ARG:HD2	2.41	0.41
4:E:51:LEU:N	4:E:51:LEU:HD23	2.36	0.41
4:E:59:ASN:HB3	4:E:62:THR:OG1	2.20	0.41
5:F:153:PRO:HB2	5:F:154:LYS:H	1.51	0.41
5:F:323:ASP:O	5:F:324:GLU:C	2.59	0.41
5:F:343:ASP:O	5:F:347:GLN:NE2	2.53	0.41
1:K:206:THR:HB	1:K:209:GLU:HB2	2.03	0.41
1:L:103:ALA:CB	1:L:107:LYS:NZ	2.84	0.41
1:L:77:GLU:CG	3:N:872:ARG:NH2	2.70	0.41
1:L:76:VAL:O	1:L:80:LEU:HB2	2.20	0.41
2:M:1028:GLY:O	2:M:1029:GLY:O	2.39	0.41
2:M:1102:LEU:HD13	3:N:7:LYS:O	2.20	0.41
2:M:276:LYS:HA	2:M:279:GLU:HG2	2.02	0.41
2:M:464:LEU:O	2:M:464:LEU:HG	2.20	0.41
2:M:682:TYR:CD1	3:N:635:PRO:HG2	2.55	0.41
2:M:744:ARG:HH21	2:M:747:ALA:HA	1.84	0.41
2:M:775:ARG:HH11	2:M:782:ALA:HB1	1.86	0.41
2:M:432:ARG:NH1	3:N:1047:LYS:HZ3	2.18	0.41
3:N:1148:VAL:HG12	3:N:1189:ARG:CB	2.48	0.41
3:N:1232:PRO:CB	3:N:1361:VAL:HG11	2.51	0.41
3:N:171:LEU:HD23	3:N:390:PRO:HG3	2.01	0.41
3:N:444:VAL:HG22	3:N:444:VAL:O	2.19	0.41
3:N:496:LEU:O	3:N:496:LEU:HD23	2.21	0.41
3:N:730:PRO:O	3:N:731:LEU:C	2.59	0.41
5:P:125:ASP:O	5:P:129:GLU:HG2	2.20	0.41
5:P:105:LYS:CE	5:P:179:GLU:HG2	2.44	0.41
5:P:394:ARG:H	5:P:394:ARG:HD3	1.86	0.41
1:B:151:VAL:HA	1:B:152:PRO:HD3	1.97	0.41
2:C:188:LYS:HB3	2:C:189:ARG:H	1.75	0.41
2:C:341:THR:HG23	2:C:345:ARG:NH2	2.34	0.41
2:C:365:ASP:C	2:C:367:LEU:H	2.24	0.41
2:C:516:ARG:HE	3:D:1068:LEU:HD13	1.86	0.41
2:C:792:VAL:HA	2:C:793:PRO:HD3	1.92	0.41
2:C:835:VAL:HG22	2:C:836:GLY:N	2.36	0.41
2:C:896:PHE:CZ	2:C:925:TYR:CG	3.08	0.41
2:C:73:LEU:HG	2:C:94:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1202:GLN:HA	3:D:1215:VAL:CG1	2.51	0.41
3:D:183:GLU:HA	3:D:186:VAL:HG12	2.03	0.41
3:D:37:LEU:HD23	3:D:37:LEU:N	2.36	0.41
3:D:500:ARG:HH11	3:D:500:ARG:HG3	1.86	0.41
3:D:866:VAL:O	3:D:873:LEU:HB2	2.20	0.41
3:D:927:THR:O	3:D:928:ALA:C	2.59	0.41
5:F:188:ILE:HD13	5:F:221:ILE:HG23	2.03	0.41
5:F:266:GLU:C	5:F:268:ILE:N	2.74	0.41
5:F:364:ARG:O	5:F:365:GLU:C	2.59	0.41
1:K:33:GLY:HA3	1:K:193:ASP:OD2	2.21	0.41
1:L:11:PHE:CE2	1:L:13:VAL:HG22	2.56	0.41
2:M:266:ARG:HH11	2:M:266:ARG:HG3	1.86	0.41
2:M:394:PHE:CD1	2:M:632:ASN:OD1	2.74	0.41
2:M:413:LEU:N	2:M:413:LEU:CD1	2.83	0.41
2:M:776:SER:HA	2:M:780:GLU:HB2	2.02	0.41
2:M:874:LEU:O	2:M:877:PRO:HD2	2.21	0.41
2:M:956:GLY:O	2:M:957:LYS:O	2.39	0.41
3:N:1094:LEU:C	3:N:1096:ARG:H	2.23	0.41
3:N:1114:THR:HB	3:N:1195:GLN:OE1	2.20	0.41
3:N:1183:ILE:CG2	3:N:1184:GLN:H	2.27	0.41
3:N:1394:VAL:O	3:N:1397:LYS:HB2	2.20	0.41
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.51	0.41
3:N:195:VAL:HB	3:N:205:TYR:CG	2.55	0.41
3:N:227:LEU:H	3:N:227:LEU:HD22	1.86	0.41
3:N:404:GLU:OE2	3:N:414:ARG:NH2	2.54	0.41
3:N:541:ASN:O	3:N:542:ASP:C	2.59	0.41
3:N:639:LEU:O	3:N:641:GLN:N	2.54	0.41
3:N:641:GLN:HA	3:N:716:PHE:HB3	2.03	0.41
3:N:711:LEU:C	3:N:713:ILE:N	2.73	0.41
3:N:761:ILE:HG22	3:N:762:GLN:N	2.36	0.41
3:N:847:ASP:O	3:N:851:LEU:HG	2.21	0.41
3:N:908:LYS:HG3	3:N:909:ASN:N	2.36	0.41
3:N:984:THR:C	3:N:986:ARG:N	2.74	0.41
1:A:20:TYR:CG	1:A:21:GLY:N	2.89	0.41
1:A:99:LEU:O	1:A:142:VAL:HG22	2.20	0.41
1:B:96:THR:HG23	1:B:96:THR:O	2.20	0.41
2:C:1115:LEU:HD23	3:D:85:VAL:CG1	2.40	0.41
2:C:490:GLU:O	2:C:494:TYR:CE1	2.73	0.41
2:C:398:THR:O	2:C:570:PRO:HD3	2.20	0.41
2:C:650:ARG:H	2:C:650:ARG:CD	2.20	0.41
2:C:79:PRO:CG	2:C:82:GLU:HB2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:857:ASP:CB	2:C:978:ARG:HG2	2.38	0.41
2:C:987:ILE:CB	3:D:948:THR:HG21	2.51	0.41
3:D:1215:VAL:HG22	3:D:1216:SER:N	2.36	0.41
3:D:1265:ALA:O	3:D:1266:ARG:HG3	2.21	0.41
3:D:1205:TYR:O	3:D:1366:LYS:HE2	2.20	0.41
3:D:1485:GLN:NE2	4:E:80:VAL:O	2.55	0.41
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.03	0.41
3:D:628:ARG:O	3:D:648:MET:HE1	2.20	0.41
3:D:703:ASN:HD22	3:D:704:ARG:N	2.18	0.41
3:D:804:LEU:HB3	3:D:816:HIS:CE1	2.56	0.41
3:D:85:VAL:O	3:D:85:VAL:HG12	2.21	0.41
3:D:87:ARG:HG3	3:D:88:TYR:CE2	2.56	0.41
3:D:881:LEU:O	3:D:882:PHE:C	2.58	0.41
4:E:53:GLY:C	4:E:55:PHE:N	2.75	0.41
5:F:321:ILE:HD13	5:F:322:GLY:N	2.35	0.41
1:K:71:VAL:HG11	1:K:78:ILE:HD11	2.03	0.41
1:L:149:GLY:O	1:L:171:PHE:HB2	2.21	0.41
1:L:206:THR:OG1	1:L:207:PRO:HD2	2.20	0.41
1:L:91:ASN:OD1	1:L:94:LEU:CD1	2.68	0.41
2:M:1081:VAL:HA	2:M:1082:PRO:HD3	1.85	0.41
2:M:163:ILE:HA	2:M:164:PRO:HD3	1.69	0.41
2:M:498:GLN:O	2:M:532:MET:HG3	2.21	0.41
2:M:775:ARG:NH2	2:M:784:ASP:HA	2.35	0.41
2:M:861:LEU:HB2	2:M:865:THR:HG23	2.03	0.41
3:N:1090:ASP:O	3:N:1093:TYR:N	2.32	0.41
3:N:367:ILE:CD1	3:N:367:ILE:H	2.31	0.41
3:N:521:PRO:O	3:N:525:ARG:HG3	2.21	0.41
2:M:1048:THR:OG1	3:N:755:ALA:O	2.37	0.41
5:P:190:ALA:O	5:P:191:ASN:ND2	2.54	0.41
5:P:220:LEU:HD12	5:P:239:ALA:HB1	2.02	0.41
5:P:271:LEU:HD12	5:P:307:THR:HG21	2.02	0.41
1:B:30:ARG:HD3	1:B:191:ASP:HB2	2.02	0.40
2:C:367:LEU:H	2:C:367:LEU:CD2	2.34	0.40
2:C:949:LYS:HD3	3:D:796:ARG:NH1	2.35	0.40
3:D:1398:TRP:CZ2	3:D:1415:VAL:HG11	2.56	0.40
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.94	0.40
3:D:30:GLU:HG3	3:D:41:ARG:HG2	2.04	0.40
3:D:889:ALA:HB1	3:D:930:LEU:HB2	2.03	0.40
4:E:23:VAL:O	4:E:27:ALA:N	2.55	0.40
4:E:36:LYS:HD3	4:E:36:LYS:HA	1.92	0.40
5:F:131:VAL:O	5:F:135:ILE:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:52:ALA:HB3	1:K:171:PHE:CD1	2.57	0.40
1:L:44:LEU:HD11	1:L:199:ILE:HD11	2.04	0.40
2:M:108:ILE:HB	2:M:368:THR:OG1	2.22	0.40
2:M:1103:ASP:CG	2:M:1104:GLU:H	2.25	0.40
2:M:150:PRO:HA	2:M:158:TYR:HB3	2.03	0.40
2:M:157:ARG:HD3	2:M:158:TYR:CE1	2.57	0.40
2:M:304:LEU:N	2:M:305:PRO:CD	2.83	0.40
2:M:479:VAL:HG23	2:M:506:ASN:O	2.21	0.40
2:M:471:TYR:H	2:M:483:VAL:HG13	1.86	0.40
2:M:768:THR:HA	2:M:769:PRO:HD3	1.76	0.40
2:M:860:HIS:O	2:M:861:LEU:O	2.39	0.40
2:M:999:HIS:CD2	2:M:1003:ASP:OD1	2.74	0.40
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	2.03	0.40
3:N:668:PRO:HB2	3:N:669:ASN:OD1	2.21	0.40
1:L:190:THR:HG21	3:N:722:GLU:OE1	2.21	0.40
3:N:728:LEU:HD13	3:N:745:MET:HE1	2.03	0.40
5:P:125:ASP:N	5:P:125:ASP:OD1	2.52	0.40
5:P:410:TYR:HA	5:P:413:SER:OG	2.20	0.40
1:A:151:VAL:O	1:A:152:PRO:C	2.60	0.40
1:B:101:LEU:HD23	1:B:102:LYS:N	2.37	0.40
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.56	0.40
2:C:395:LYS:HE2	2:C:403:SER:HB2	2.03	0.40
2:C:434:HIS:HB3	2:C:438:ILE:HB	2.02	0.40
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.89	0.40
3:D:1130:ARG:NH2	3:D:1132:LEU:HG	2.32	0.40
3:D:1138:ALA:C	3:D:1140:ILE:N	2.74	0.40
3:D:1232:PRO:C	3:D:1234:THR:N	2.75	0.40
3:D:1422:MET:O	3:D:1427:SER:OG	2.38	0.40
3:D:149:LYS:CD	3:D:149:LYS:N	2.81	0.40
3:D:699:VAL:HA	3:D:718:PRO:CD	2.40	0.40
3:D:770:LEU:CD2	3:D:777:PRO:CA	2.93	0.40
3:D:771:SER:HA	3:D:772:PRO:HD3	1.84	0.40
3:D:795:VAL:HG23	3:D:879:ARG:NH2	2.36	0.40
3:D:900:ILE:O	3:D:902:LEU:HD23	2.21	0.40
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.37	0.40
1:K:127:LEU:O	1:K:129:ILE:CD1	2.69	0.40
1:K:159:LYS:HE2	1:K:159:LYS:HB2	1.90	0.40
1:K:91:ASN:ND2	1:K:92:PRO:CD	2.69	0.40
1:L:100:LEU:HB2	1:L:115:LEU:HD11	2.03	0.40
1:L:188:GLN:HG3	1:L:189:ARG:N	2.36	0.40
2:M:38:LYS:HA	2:M:38:LYS:HD3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:41:ASN:N	2:M:41:ASN:ND2	2.67	0.40
2:M:44:ILE:HD11	2:M:340:MET:HE2	2.02	0.40
2:M:793:PRO:HA	2:M:794:PRO:HD3	1.93	0.40
3:N:1231:GLU:N	3:N:1232:PRO:HD3	2.36	0.40
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.51	0.40
3:N:1434:TRP:CG	3:N:1435:LEU:N	2.89	0.40
3:N:219:GLU:HG3	3:N:220:ARG:HG3	2.03	0.40
3:N:703:ASN:HD22	3:N:704:ARG:H	1.67	0.40
3:N:794:GLN:NE2	3:N:794:GLN:CA	2.83	0.40
1:A:201:THR:HG22	1:A:202:ASP:OD2	2.22	0.40
1:A:222:LEU:HA	1:A:222:LEU:HD13	1.81	0.40
1:B:112:ARG:HH11	1:B:112:ARG:HB3	1.82	0.40
2:C:1018:GLN:HB3	2:C:1063:ARG:HH22	1.86	0.40
2:C:1091:GLU:CD	3:D:606:ILE:CG2	2.89	0.40
2:C:202:TYR:CE2	2:C:304:LEU:HD13	2.56	0.40
2:C:212:GLY:O	2:C:218:VAL:HB	2.21	0.40
2:C:235:LEU:HD23	2:C:235:LEU:O	2.21	0.40
2:C:244:PRO:CG	2:C:245:GLY:H	2.35	0.40
2:C:200:LEU:HD22	2:C:299:LYS:O	2.22	0.40
2:C:555:ALA:O	2:C:556:ASN:C	2.57	0.40
2:C:607:ASP:HB2	2:C:610:ARG:HG2	2.04	0.40
2:C:608:GLY:C	2:C:609:ASN:HD22	2.24	0.40
2:C:613:VAL:HG11	2:C:655:LEU:HD11	2.03	0.40
2:C:846:LYS:O	3:D:741:ASP:CB	2.70	0.40
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.75	0.40
3:D:1283:ILE:O	3:D:1284:GLU:OE1	2.39	0.40
3:D:1314:LYS:HZ1	3:D:1317:ASP:CB	2.27	0.40
3:D:1428:ALA:C	3:D:1430:SER:H	2.24	0.40
3:D:142:LEU:C	3:D:142:LEU:HD12	2.42	0.40
3:D:474:GLU:HG3	3:D:496:LEU:CD1	2.46	0.40
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.55	0.40
3:D:646:LYS:CG	3:D:647:ARG:N	2.77	0.40
3:D:913:ASP:O	3:D:914:LEU:C	2.59	0.40
4:E:30:LEU:O	4:E:35:PHE:CD1	2.74	0.40
1:K:176:ARG:O	1:K:200:TRP:HE3	2.05	0.40
1:K:180:GLN:O	1:K:195:LEU:HD12	2.20	0.40
1:K:6:LEU:C	1:K:8:ALA:H	2.24	0.40
1:L:66:SER:HB3	1:L:67:THR:H	1.75	0.40
2:M:1006:HIS:HA	2:M:1027:PHE:CE2	2.55	0.40
2:M:1008:ARG:CD	2:M:1029:GLY:H	2.35	0.40
2:M:1037:VAL:O	2:M:1041:GLU:HG3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:172:ILE:HA	2:M:185:LYS:O	2.21	0.40
2:M:244:PRO:CG	2:M:245:GLY:N	2.83	0.40
2:M:244:PRO:HG2	2:M:246:ASP:HB2	2.03	0.40
2:M:269:LEU:C	2:M:288:ARG:HE	2.24	0.40
2:M:304:LEU:H	2:M:305:PRO:CD	2.34	0.40
2:M:409:ARG:HD3	2:M:452:ILE:CG2	2.52	0.40
2:M:564:MET:O	2:M:567:GLN:N	2.55	0.40
2:M:593:ALA:O	2:M:658:GLY:HA3	2.21	0.40
3:N:1033:GLN:HA	3:N:1036:ARG:HH12	1.85	0.40
3:N:1093:TYR:CE2	3:N:1097:LYS:NZ	2.89	0.40
3:N:1263:PHE:O	3:N:1424:VAL:HB	2.22	0.40
3:N:376:GLU:HB2	3:N:383:GLY:O	2.21	0.40
3:N:13:ALA:O	3:N:511:TRP:HB3	2.21	0.40
3:N:557:LEU:O	3:N:562:ALA:HB2	2.21	0.40
3:N:798:GLU:HB3	3:N:826:PRO:HG2	2.02	0.40
3:N:853:VAL:O	3:N:855:HIS:N	2.54	0.40
3:N:897:TRP:CZ2	3:N:902:LEU:HD21	2.52	0.40
4:O:40:LEU:CD1	4:O:45:ARG:HD2	2.50	0.40
5:P:260:ILE:HG12	5:P:264:MET:CB	2.51	0.40
1:A:14:ARG:NE	1:A:22:GLU:HB2	2.37	0.40
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.32	0.40
1:B:32:PHE:HA	1:B:35:THR:HB	2.03	0.40
2:C:1012:PRO:C	2:C:1013:TYR:CD2	2.95	0.40
2:C:1019:GLN:HB3	2:C:1019:GLN:HE21	1.60	0.40
2:C:157:ARG:HD3	2:C:157:ARG:HA	1.86	0.40
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.22	0.40
2:C:881:ASN:C	2:C:883:GLY:H	2.25	0.40
3:D:106:LYS:HE2	3:D:125:GLN:OE1	2.21	0.40
3:D:1254:GLN:CD	3:D:1255:GLY:H	2.23	0.40
3:D:1413:THR:N	3:D:1414:PRO:HD3	2.37	0.40
3:D:217:LYS:N	3:D:217:LYS:HD3	2.36	0.40
3:D:367:ILE:HD13	3:D:368:VAL:N	2.31	0.40
3:D:367:ILE:CG2	3:D:368:VAL:N	2.84	0.40
3:D:141:ILE:HD11	3:D:449:SER:C	2.42	0.40
3:D:525:ARG:HE	3:D:541:ASN:CG	2.25	0.40
3:D:29:PRO:HG3	3:D:548:ILE:HG22	2.03	0.40
3:D:806:PHE:CD1	3:D:812:ALA:O	2.74	0.40
3:D:813:LEU:HG	3:D:814:ALA:H	1.85	0.40
3:D:882:PHE:O	3:D:884:ARG:N	2.55	0.40
5:F:120:THR:C	5:F:122:LEU:H	2.23	0.40
5:F:341:PRO:C	5:F:343:ASP:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:366:ALA:O	5:F:370:LYS:HB2	2.21	0.40
2:M:1023:GLY:C	2:M:1024:LYS:HG3	2.41	0.40
2:M:1043:TYR:HB3	3:N:762:GLN:OE1	2.21	0.40
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.57	0.40
2:M:1098:ASP:OD1	2:M:1098:ASP:C	2.59	0.40
2:M:270:GLY:N	2:M:288:ARG:NE	2.69	0.40
2:M:395:LYS:O	2:M:397:GLU:N	2.54	0.40
2:M:554:ASP:C	2:M:554:ASP:OD1	2.60	0.40
2:M:585:GLU:O	2:M:588:VAL:CG2	2.70	0.40
2:M:611:ILE:O	2:M:623:TYR:HB2	2.21	0.40
2:M:711:GLU:HA	2:M:822:VAL:HG12	2.03	0.40
2:M:73:LEU:HA	2:M:93:PRO:O	2.21	0.40
2:M:840:ALA:O	2:M:995:MET:HE2	2.22	0.40
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.87	0.40
2:M:940:GLU:HG3	2:M:975:TYR:OH	2.21	0.40
2:M:516:ARG:CD	3:N:1068:LEU:HD22	2.51	0.40
3:N:1087:ARG:CZ	3:N:1087:ARG:HA	2.50	0.40
3:N:1111:ASP:HB3	3:N:1203:LYS:HZ1	1.86	0.40
3:N:1283:ILE:O	3:N:1284:GLU:OE1	2.39	0.40
3:N:1292:VAL:HG11	3:N:1325:LEU:CD2	2.51	0.40
3:N:1304:LYS:O	3:N:1305:LEU:CD2	2.69	0.40
3:N:1368:ILE:O	3:N:1371:VAL:N	2.45	0.40
3:N:691:LEU:HG	3:N:720:LEU:HD11	2.03	0.40
2:M:1043:TYR:CZ	3:N:763:MET:HG3	2.55	0.40
4:O:44:GLU:O	4:O:45:ARG:HD3	2.22	0.40
5:P:144:ILE:CB	5:P:145:PRO:HD3	2.43	0.40
5:P:163:LEU:HD13	5:P:174:LEU:HD11	2.03	0.40
5:P:295:MET:HA	5:P:295:MET:HE2	2.04	0.40
5:P:386:VAL:O	5:P:388:ALA:N	2.53	0.40
1:A:89:PHE:CZ	1:A:144:VAL:HG12	2.57	0.40
1:B:213:GLN:O	1:B:216:GLU:HB3	2.21	0.40
2:C:101:ILE:CG2	2:C:102:HIS:H	2.21	0.40
2:C:1050:GLN:CG	2:C:1079:PRO:HG2	2.43	0.40
2:C:195:LEU:HD21	2:C:241:LEU:HD12	2.03	0.40
2:C:324:ASP:HB3	2:C:327:HIS:HB2	2.03	0.40
2:C:342:ASP:O	2:C:345:ARG:HG2	2.22	0.40
2:C:670:GLN:HG2	2:C:699:PHE:HD2	1.76	0.40
2:C:709:GLU:CG	2:C:710:ILE:N	2.83	0.40
2:C:814:GLU:C	2:C:815:LEU:O	2.60	0.40
3:D:10:ILE:HG13	3:D:1434:TRP:CH2	2.52	0.40
3:D:1135:ARG:O	3:D:1136:LYS:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:O	3:D:120:ALA:C	2.59	0.40
3:D:1243:THR:HG21	3:D:1253:THR:HA	2.03	0.40
3:D:65:ARG:HD2	3:D:66:GLN:HG2	2.03	0.40
3:D:858:VAL:HG12	3:D:877:PRO:HG2	2.02	0.40
3:D:87:ARG:HB2	3:D:524:LEU:HG	2.02	0.40
2:C:915:LYS:NZ	3:D:952:ASP:OD2	2.55	0.40
5:F:160:ASP:OD2	5:F:178:ARG:NH2	2.52	0.40
3:D:563:PRO:CB	5:F:189:GLU:HG2	2.51	0.40
3:D:67:ARG:HG2	5:F:375:LEU:HD21	2.04	0.40
1:L:22:GLU:O	1:L:23:PHE:CG	2.74	0.40
1:K:35:THR:HG22	1:L:39:PRO:HB3	2.04	0.40
2:M:1011:GLY:O	2:M:1012:PRO:O	2.39	0.40
2:M:1093:GLN:C	2:M:1095:LEU:N	2.74	0.40
2:M:427:VAL:C	2:M:429:ASP:N	2.72	0.40
2:M:432:ARG:HD3	3:N:1048:PRO:CG	2.50	0.40
2:M:44:ILE:H	2:M:44:ILE:CD1	2.35	0.40
2:M:691:SER:C	2:M:693:GLU:H	2.24	0.40
2:M:859:PRO:HD2	2:M:870:ILE:HD11	2.02	0.40
2:M:536:PRO:CB	2:M:906:PHE:HB2	2.51	0.40
2:M:6:PHE:CD2	2:M:913:GLU:OE1	2.74	0.40
3:N:1101:VAL:HG11	3:N:1424:VAL:CG2	2.51	0.40
3:N:171:LEU:HB3	3:N:390:PRO:CA	2.48	0.40
3:N:217:LYS:HD2	3:N:218:LYS:N	2.24	0.40
3:N:221:ALA:O	3:N:367:ILE:HG21	2.21	0.40
3:N:141:ILE:CD1	3:N:450:TYR:H	2.33	0.40
3:N:456:MET:O	3:N:456:MET:HG2	2.21	0.40
3:N:496:LEU:O	3:N:500:ARG:HG3	2.22	0.40
3:N:55:ASP:CA	3:N:82:LYS:HG2	2.52	0.40
3:N:103:TRP:CD1	3:N:583:ASP:OD2	2.74	0.40
3:N:740:PHE:H	3:N:740:PHE:HD1	1.69	0.40
3:N:766:ALA:HA	3:N:769:LEU:HD11	2.03	0.40
3:N:78:VAL:C	3:N:79:GLU:O	2.56	0.40
3:N:820:GLU:C	3:N:822:ALA:N	2.74	0.40
1:L:83:LYS:NZ	3:N:842:VAL:O	2.54	0.40
3:N:999:THR:O	3:N:1002:LYS:N	2.54	0.40
5:P:274:THR:HG21	5:P:295:MET:CE	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	227/315 (72%)	167 (74%)	39 (17%)	21 (9%)	0	4
1	B	227/315 (72%)	177 (78%)	37 (16%)	13 (6%)	1	11
1	K	227/315 (72%)	161 (71%)	39 (17%)	27 (12%)	0	2
1	L	227/315 (72%)	166 (73%)	44 (19%)	17 (8%)	1	7
2	C	1117/1119 (100%)	781 (70%)	226 (20%)	110 (10%)	0	3
2	M	1117/1119 (100%)	769 (69%)	215 (19%)	133 (12%)	0	2
3	D	1388/1524 (91%)	941 (68%)	293 (21%)	154 (11%)	0	2
3	N	1388/1524 (91%)	907 (65%)	332 (24%)	149 (11%)	0	3
4	E	93/99 (94%)	67 (72%)	17 (18%)	9 (10%)	0	3
4	O	93/99 (94%)	59 (63%)	20 (22%)	14 (15%)	0	1
5	F	341/423 (81%)	241 (71%)	67 (20%)	33 (10%)	0	3
5	P	341/423 (81%)	249 (73%)	57 (17%)	35 (10%)	0	3
All	All	6786/7590 (89%)	4685 (69%)	1386 (20%)	715 (10%)	0	3

All (715) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	47	SER
1	B	3	ASP
1	B	118	ALA
1	B	160	ASP
2	C	7	GLY
2	C	31	GLN
2	C	111	ASP
2	C	152	PRO
2	C	223	ASP
2	C	231	PRO
2	C	244	PRO
2	C	251	ASP

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Mol	Chain	Res	Type
2	C	253	ALA
2	C	261	ILE
2	C	267	TYR
2	C	335	THR
2	C	363	SER
2	C	369	PRO
2	C	442	GLU
2	C	574	ALA
2	C	680	ASP
2	C	727	PRO
2	C	735	ARG
2	C	762	LYS
2	C	842	ARG
2	C	984	GLU
2	C	1016	ILE
2	C	1097	LEU
2	C	1106	ASP
3	D	37	LEU
3	D	41	ARG
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	84	ILE
3	D	98	PRO
3	D	119	SER
3	D	120	ALA
3	D	133	ILE
3	D	136	ASP
3	D	140	ALA
3	D	208	PRO
3	D	209	ARG
3	D	219	GLU
3	D	233	LYS
3	D	238	PRO
3	D	381	ALA
3	D	385	VAL
3	D	388	HIS
3	D	416	ALA
3	D	417	PRO
3	D	442	ASN
3	D	548	ILE
3	D	560	GLN

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Mol	Chain	Res	Type
3	D	565	ILE
3	D	580	ALA
3	D	705	ALA
3	D	711	LEU
3	D	735	ALA
3	D	807	ALA
3	D	832	ARG
3	D	912	LYS
3	D	922	LEU
3	D	1028	ALA
3	D	1089	ALA
3	D	1131	SER
3	D	1208	ASP
3	D	1243	THR
3	D	1287	GLU
3	D	1307	LYS
3	D	1370	ILE
3	D	1371	VAL
3	D	1377	LYS
3	D	1388	ARG
3	D	1389	LEU
3	D	1390	LEU
3	D	1410	GLU
3	D	1443	THR
3	D	1452	ILE
3	D	1463	LYS
4	E	41	GLU
4	E	42	PRO
4	E	71	GLY
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	97	GLU
5	F	138	SER
5	F	153	PRO
5	F	286	PRO
5	F	297	PRO
5	F	341	PRO
5	F	363	GLU
5	F	364	ARG
5	F	390	PHE
5	F	414	ARG

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Mol	Chain	Res	Type
5	F	416	ARG
5	F	421	PHE
1	K	12	THR
1	K	27	PRO
1	K	47	SER
1	K	106	PRO
1	K	118	ALA
1	K	188	GLN
1	L	3	ASP
1	L	89	PHE
2	M	7	GLY
2	M	57	GLU
2	M	65	VAL
2	M	178	PRO
2	M	190	LYS
2	M	244	PRO
2	M	251	ASP
2	M	253	ALA
2	M	264	PRO
2	M	265	ARG
2	M	379	GLU
2	M	415	PRO
2	M	419	THR
2	M	435	TYR
2	M	456	ALA
2	M	462	ASP
2	M	548	PRO
2	M	627	ARG
2	M	680	ASP
2	M	684	PHE
2	M	698	ASP
2	M	699	PHE
2	M	762	LYS
2	M	864	GLY
2	M	957	LYS
2	M	1004	LYS
2	M	1012	PRO
2	M	1020	PRO
2	M	1059	ASP
3	N	34	TYR
3	N	41	ARG
3	N	55	ASP

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Mol	Chain	Res	Type
3	N	98	PRO
3	N	133	ILE
3	N	149	LYS
3	N	208	PRO
3	N	209	ARG
3	N	238	PRO
3	N	246	PRO
3	N	369	ALA
3	N	430	ASP
3	N	486	ARG
3	N	487	ALA
3	N	521	PRO
3	N	526	PRO
3	N	586	ARG
3	N	594	PRO
3	N	624	ASP
3	N	637	LEU
3	N	639	LEU
3	N	764	LEU
3	N	766	ALA
3	N	807	ALA
3	N	824	ASN
3	N	829	VAL
3	N	832	ARG
3	N	936	TYR
3	N	1028	ALA
3	N	1066	THR
3	N	1089	ALA
3	N	1125	PRO
3	N	1136	LYS
3	N	1208	ASP
3	N	1228	SER
3	N	1243	THR
3	N	1287	GLU
3	N	1307	LYS
3	N	1384	PRO
3	N	1394	VAL
3	N	1475	GLY
4	O	46	PRO
4	O	58	PRO
4	O	82	GLU
5	P	76	SER

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Mol	Chain	Res	Type
5	P	77	THR
5	P	95	THR
5	P	97	GLU
5	P	148	LYS
5	P	153	PRO
5	P	203	THR
5	P	341	PRO
5	P	364	ARG
5	P	376	ILE
5	P	416	ARG
1	A	9	PRO
1	B	30	ARG
1	B	111	ALA
1	B	125	PRO
2	C	67	ASP
2	C	113	VAL
2	C	170	PRO
2	C	187	ASN
2	C	434	HIS
2	C	545	ASN
2	C	627	ARG
2	C	666	LEU
2	C	807	ARG
2	C	845	ASN
2	C	878	SER
2	C	904	PRO
2	C	937	ASP
2	C	1020	PRO
2	C	1043	TYR
2	C	1062	GLY
3	D	24	GLY
3	D	74	GLU
3	D	79	GLU
3	D	117	ASP
3	D	137	PRO
3	D	149	LYS
3	D	177	ALA
3	D	178	LEU
3	D	190	GLU
3	D	227	LEU
3	D	234	GLU
3	D	247	GLU

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Mol	Chain	Res	Type
3	D	373	PRO
3	D	410	SER
3	D	412	GLY
3	D	424	GLY
3	D	426	LYS
3	D	430	ASP
3	D	440	VAL
3	D	503	LEU
3	D	509	PRO
3	D	594	PRO
3	D	601	ARG
3	D	629	SER
3	D	799	LYS
3	D	806	PHE
3	D	1027	GLY
3	D	1043	GLY
3	D	1075	HIS
3	D	1082	ALA
3	D	1095	THR
3	D	1114	THR
3	D	1125	PRO
3	D	1136	LYS
3	D	1139	ASP
3	D	1153	VAL
3	D	1197	ARG
3	D	1202	GLN
3	D	1211	MET
3	D	1233	GLY
3	D	1268	PRO
3	D	1334	GLN
3	D	1358	ALA
3	D	1384	PRO
3	D	1392	GLY
3	D	1414	PRO
3	D	1423	GLY
3	D	1427	SER
3	D	1482	ARG
4	E	43	GLU
4	E	46	PRO
4	E	53	GLY
4	E	58	PRO
5	F	147	LEU

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Mol	Chain	Res	Type
5	F	154	LYS
5	F	191	ASN
5	F	282	LEU
5	F	399	GLN
5	F	401	GLU
5	F	420	ASP
1	K	11	PHE
1	K	37	GLY
1	K	59	GLU
1	K	105	GLY
1	K	127	LEU
1	K	157	GLY
1	K	173	PRO
1	K	174	VAL
1	K	204	SER
1	L	46	SER
1	L	59	GLU
1	L	118	ALA
1	L	202	ASP
2	M	29	ALA
2	M	31	GLN
2	M	40	GLU
2	M	80	GLN
2	M	87	ASP
2	M	113	VAL
2	M	116	GLY
2	M	170	PRO
2	M	231	PRO
2	M	328	LEU
2	M	337	GLY
2	M	367	LEU
2	M	369	PRO
2	M	428	ARG
2	M	485	TYR
2	M	500	ASN
2	M	518	LYS
2	M	550	LEU
2	M	552	HIS
2	M	566	THR
2	M	600	ASP
2	M	681	GLY
2	M	735	ARG

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Mol	Chain	Res	Type
2	M	738	ASP
2	M	742	VAL
2	M	765	SER
2	M	922	PHE
2	M	960	GLU
2	M	961	GLU
2	M	963	LEU
2	M	977	GLY
2	M	1029	GLY
2	M	1045	ALA
2	M	1113	GLU
3	N	24	GLY
3	N	44	LEU
3	N	73	CYS
3	N	83	SER
3	N	85	VAL
3	N	115	LEU
3	N	137	PRO
3	N	140	ALA
3	N	146	PRO
3	N	162	ARG
3	N	234	GLU
3	N	406	ASP
3	N	410	SER
3	N	412	GLY
3	N	417	PRO
3	N	422	ALA
3	N	447	VAL
3	N	484	PRO
3	N	505	SER
3	N	530	VAL
3	N	561	GLY
3	N	575	GLN
3	N	625	TYR
3	N	640	HIS
3	N	695	ILE
3	N	758	GLU
3	N	759	ALA
3	N	869	MET
3	N	891	GLU
3	N	924	MET
3	N	955	VAL

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Mol	Chain	Res	Type
3	N	1016	PRO
3	N	1040	GLY
3	N	1049	SER
3	N	1051	GLU
3	N	1129	THR
3	N	1255	GLY
3	N	1261	GLU
3	N	1308	GLU
3	N	1385	GLY
3	N	1465	ASN
4	O	22	VAL
5	P	204	GLY
5	P	286	PRO
5	P	363	GLU
5	P	386	VAL
5	P	389	PHE
5	P	393	THR
5	P	421	PHE
1	A	25	LEU
1	A	35	THR
1	A	93	SER
1	A	154	GLU
1	A	189	ARG
1	A	211	LEU
1	A	214	ALA
1	B	119	ASP
2	C	86	LYS
2	C	131	GLY
2	C	161	SER
2	C	178	PRO
2	C	189	ARG
2	C	245	GLY
2	C	292	ARG
2	C	316	GLY
2	C	321	GLU
2	C	419	THR
2	C	506	ASN
2	C	518	LYS
2	C	559	LEU
2	C	560	MET
2	C	598	GLU
2	C	616	GLU

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Mol	Chain	Res	Type
2	C	681	GLY
2	C	684	PHE
2	C	738	ASP
2	C	765	SER
2	C	811	PRO
2	C	832	LYS
2	C	1014	SER
2	C	1059	ASP
3	D	69	GLU
3	D	83	SER
3	D	146	PRO
3	D	502	PHE
3	D	808	THR
3	D	814	ALA
3	D	892	ASP
3	D	896	ALA
3	D	921	ARG
3	D	1040	GLY
3	D	1247	ALA
3	D	1259	VAL
3	D	1265	ALA
3	D	1444	THR
4	E	54	LEU
5	F	234	LYS
5	F	324	GLU
5	F	388	ALA
1	K	29	GLU
1	K	35	THR
1	K	38	ASN
1	K	46	SER
1	K	128	HIS
1	L	159	LYS
1	L	214	ALA
1	L	224	TYR
2	M	10	ARG
2	M	33	ASP
2	M	81	ASP
2	M	111	ASP
2	M	138	SER
2	M	153	ALA
2	M	187	ASN
2	M	261	ILE

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Mol	Chain	Res	Type
2	M	267	TYR
2	M	290	LEU
2	M	363	SER
2	M	416	GLY
2	M	465	GLY
2	M	538	GLN
2	M	626	ARG
2	M	736	ASP
2	M	802	ARG
2	M	856	GLU
2	M	906	PHE
2	M	940	GLU
2	M	1023	GLY
2	M	1115	LEU
3	N	67	ARG
3	N	69	GLU
3	N	120	ALA
3	N	154	THR
3	N	177	ALA
3	N	189	GLN
3	N	239	GLY
3	N	395	VAL
3	N	516	ALA
3	N	564	GLU
3	N	576	GLU
3	N	605	ASP
3	N	731	LEU
3	N	879	ARG
3	N	1111	ASP
3	N	1114	THR
3	N	1268	PRO
3	N	1367	HIS
3	N	1443	THR
3	N	1480	PHE
4	O	32	ARG
4	O	41	GLU
4	O	42	PRO
4	O	81	PRO
5	P	145	PRO
5	P	168	LYS
5	P	240	THR
5	P	314	PRO

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Mol	Chain	Res	Type
5	P	326	ASP
5	P	377	ASP
1	A	116	PRO
1	A	204	SER
1	A	215	VAL
2	C	9	ILE
2	C	80	GLN
2	C	90	TYR
2	C	186	VAL
2	C	228	ALA
2	C	337	GLY
2	C	420	ARG
2	C	431	HIS
2	C	548	PRO
2	C	575	GLN
2	C	692	GLU
2	C	740	GLU
2	C	767	PRO
2	C	862	PRO
2	C	1018	GLN
2	C	1108	PRO
3	D	42	ASP
3	D	78	VAL
3	D	138	LYS
3	D	212	ARG
3	D	220	ARG
3	D	487	ALA
3	D	522	PRO
3	D	547	LEU
3	D	576	GLU
3	D	791	TYR
3	D	911	LEU
3	D	1016	PRO
3	D	1058	ARG
3	D	1196	THR
3	D	1425	THR
3	D	1451	ALA
4	E	32	ARG
5	F	199	ALA
5	F	206	GLY
5	F	232	ARG
5	F	329	TYR

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Mol	Chain	Res	Type
1	K	183	ASP
1	K	220	GLU
1	L	53	VAL
1	L	126	ASP
2	M	106	GLY
2	M	129	ILE
2	M	223	ASP
2	M	377	PRO
2	M	424	GLY
2	M	443	THR
2	M	545	ASN
2	M	562	SER
2	M	574	ALA
2	M	807	ARG
2	M	849	VAL
2	M	857	ASP
2	M	861	LEU
2	M	876	VAL
2	M	1005	MET
2	M	1106	ASP
3	N	6	ARG
3	N	387	LEU
3	N	450	TYR
3	N	483	HIS
3	N	506	GLY
3	N	515	GLU
3	N	587	ARG
3	N	681	ARG
3	N	686	GLU
3	N	730	PRO
3	N	937	TYR
3	N	938	GLY
3	N	939	PHE
3	N	1062	ARG
3	N	1079	LYS
3	N	1132	LEU
3	N	1197	ARG
3	N	1298	GLY
3	N	1315	ASP
3	N	1366	LYS
3	N	1479	ASP
4	O	4	PRO

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Mol	Chain	Res	Type
4	O	56	ASP
5	P	184	ARG
5	P	232	ARG
5	P	297	PRO
5	P	324	GLU
5	P	388	ALA
5	P	394	ARG
1	A	30	ARG
1	A	41	ARG
1	A	46	SER
1	A	160	ASP
1	A	173	PRO
1	A	174	VAL
1	B	106	PRO
1	B	116	PRO
1	B	214	ALA
2	C	265	ARG
2	C	338	GLU
2	C	396	ASP
2	C	535	SER
2	C	541	SER
2	C	593	ALA
2	C	736	ASP
2	C	769	PRO
2	C	783	ARG
2	C	856	GLU
2	C	859	PRO
3	D	35	ARG
3	D	129	PHE
3	D	141	ILE
3	D	237	LYS
3	D	504	ASP
3	D	533	GLY
3	D	668	PRO
3	D	733	CYS
3	D	883	ALA
3	D	1109	GLU
3	D	1129	THR
3	D	1237	THR
3	D	1301	LYS
3	D	1315	ASP
3	D	1342	GLU

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Mol	Chain	Res	Type
5	F	327	SER
5	F	350	LEU
1	K	30	ARG
1	K	39	PRO
1	K	138	LEU
1	K	214	ALA
1	L	92	PRO
1	L	172	SER
1	L	187	GLY
2	M	53	PRO
2	M	104	ASP
2	M	123	GLU
2	M	164	PRO
2	M	217	LEU
2	M	283	ILE
2	M	327	HIS
2	M	447	ALA
2	M	514	VAL
2	M	654	LEU
2	M	714	ASP
2	M	745	ILE
2	M	767	PRO
2	M	884	GLN
2	M	984	GLU
2	M	1000	MET
3	N	416	ALA
3	N	509	PRO
3	N	557	LEU
3	N	560	GLN
3	N	595	GLY
3	N	1006	ALA
3	N	1050	GLY
3	N	1127	GLU
3	N	1213	ARG
3	N	1229	ILE
3	N	1257	PRO
3	N	1269	LYS
3	N	1332	PRO
4	O	44	GLU
4	O	73	LEU
4	O	79	LEU
5	P	236	SER

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Mol	Chain	Res	Type
1	B	59	GLU
2	C	23	VAL
2	C	52	PHE
2	C	62	GLY
2	C	101	ILE
2	C	224	GLU
2	C	232	GLU
2	C	368	THR
2	C	386	PHE
2	C	425	PHE
2	C	500	ASN
2	C	890	LEU
3	D	483	HIS
3	D	753	SER
5	F	155	THR
2	M	152	PRO
2	M	617	ASP
2	M	678	PRO
2	M	859	PRO
2	M	907	ASP
2	M	951	GLY
2	M	1096	ALA
3	N	373	PRO
3	N	522	PRO
3	N	565	ILE
3	N	912	LYS
4	O	33	HIS
5	P	387	GLY
2	C	42	VAL
2	C	259	GLY
2	C	415	PRO
2	C	529	VAL
3	D	15	PRO
3	D	26	VAL
3	D	525	ARG
3	D	530	VAL
1	K	125	PRO
2	M	44	ILE
2	M	74	GLY
2	M	201	GLY
2	M	270	GLY
2	M	812	GLY

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Mol	Chain	Res	Type
3	N	226	PRO
3	N	415	VAL
3	N	1246	VAL
3	N	1252	ILE
5	P	75	ILE
5	P	131	VAL
1	A	228	PRO
1	B	37	GLY
2	C	800	VAL
1	L	215	VAL
2	M	245	GLY
2	M	644	VAL
3	N	1043	GLY
1	A	187	GLY
1	L	207	PRO
2	M	634	GLY
3	N	876	SER
3	N	1344	VAL
1	A	124	ASN
1	B	87	VAL
2	C	79	PRO
3	D	139	GLY
3	D	395	VAL
3	D	1155	VAL
5	F	298	GLY
1	L	136	GLY
3	N	670	VAL
3	N	1454	GLY
2	C	536	PRO
5	P	188	ILE
2	M	166	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.

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	177 (88%)	25 (12%)	4	19
1	B	202/273 (74%)	172 (85%)	30 (15%)	3	13
1	K	202/273 (74%)	173 (86%)	29 (14%)	3	15
1	L	202/273 (74%)	182 (90%)	20 (10%)	8	28
2	C	941/941 (100%)	808 (86%)	133 (14%)	3	16
2	M	941/941 (100%)	805 (86%)	136 (14%)	3	14
3	D	1170/1279 (92%)	970 (83%)	200 (17%)	2	9
3	N	1170/1279 (92%)	980 (84%)	190 (16%)	2	10
4	E	83/87 (95%)	72 (87%)	11 (13%)	4	17
4	O	83/87 (95%)	70 (84%)	13 (16%)	2	12
5	F	300/370 (81%)	264 (88%)	36 (12%)	5	20
5	P	300/370 (81%)	269 (90%)	31 (10%)	7	26
All	All	5796/6446 (90%)	4942 (85%)	854 (15%)	3	14

All (854) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	18	ARG
1	A	19	GLU
1	A	26	GLU
1	A	32	PHE
1	A	47	SER
1	A	51	THR
1	A	62	LEU
1	A	67	THR
1	A	73	GLU
1	A	74	ASP
1	A	80	LEU
1	A	84	GLU
1	A	95	GLN
1	A	115	LEU
1	A	127	LEU
1	A	146	ARG
1	A	148	VAL
1	A	158	ILE

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Mol	Chain	Res	Type
1	A	180	GLN
1	A	185	ARG
1	A	193	ASP
1	A	200	TRP
1	A	219	ARG
1	A	227	ASN
1	B	2	LEU
1	B	5	LYS
1	B	12	THR
1	B	14	ARG
1	B	20	TYR
1	B	25	LEU
1	B	26	GLU
1	B	32	PHE
1	B	62	LEU
1	B	89	PHE
1	B	112	ARG
1	B	115	LEU
1	B	124	ASN
1	B	134	GLU
1	B	138	LEU
1	B	140	MET
1	B	145	ASP
1	B	146	ARG
1	B	148	VAL
1	B	156	HIS
1	B	181	VAL
1	B	183	ASP
1	B	186	LEU
1	B	189	ARG
1	B	196	THR
1	B	197	LEU
1	B	213	GLN
1	B	219	ARG
1	B	221	HIS
1	B	229	GLN
2	C	5	ARG
2	C	20	GLU
2	C	26	TYR
2	C	39	ARG
2	C	41	ASN
2	C	45	GLN

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Mol	Chain	Res	Type
2	C	49	ARG
2	C	51	THR
2	C	52	PHE
2	C	71	TYR
2	C	81	ASP
2	C	82	GLU
2	C	86	LYS
2	C	88	LEU
2	C	95	TYR
2	C	107	LEU
2	C	111	ASP
2	C	113	VAL
2	C	115	LEU
2	C	124	ASP
2	C	152	PRO
2	C	158	TYR
2	C	168	ARG
2	C	170	PRO
2	C	172	ILE
2	C	178	PRO
2	C	188	LYS
2	C	193	LEU
2	C	198	ARG
2	C	203	ASP
2	C	204	GLN
2	C	207	LEU
2	C	209	ARG
2	C	216	GLU
2	C	230	ARG
2	C	243	ARG
2	C	258	TYR
2	C	266	ARG
2	C	276	LYS
2	C	279	GLU
2	C	288	ARG
2	C	290	LEU
2	C	292	ARG
2	C	304	LEU
2	C	321	GLU
2	C	334	ARG
2	C	345	ARG
2	C	359	MET

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Mol	Chain	Res	Type
2	C	379	GLU
2	C	383	ARG
2	C	388	ARG
2	C	398	THR
2	C	408	ARG
2	C	420	ARG
2	C	425	PHE
2	C	442	GLU
2	C	448	ASN
2	C	452	ILE
2	C	469	THR
2	C	481	ASP
2	C	500	ASN
2	C	503	LEU
2	C	524	VAL
2	C	543	ASN
2	C	544	THR
2	C	564	MET
2	C	566	THR
2	C	578	VAL
2	C	583	LEU
2	C	586	ARG
2	C	588	VAL
2	C	589	ARG
2	C	607	ASP
2	C	614	ARG
2	C	617	ASP
2	C	620	LEU
2	C	630	ARG
2	C	633	GLN
2	C	648	ARG
2	C	650	ARG
2	C	672	VAL
2	C	673	LEU
2	C	676	ILE
2	C	679	PHE
2	C	685	GLU
2	C	699	PHE
2	C	727	PRO
2	C	744	ARG
2	C	766	GLU
2	C	768	THR

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Mol	Chain	Res	Type
2	C	799	ILE
2	C	804	VAL
2	C	830	LYS
2	C	831	ARG
2	C	834	GLN
2	C	839	LEU
2	C	841	ASN
2	C	853	LEU
2	C	858	MET
2	C	861	LEU
2	C	862	PRO
2	C	863	ASP
2	C	865	THR
2	C	879	ARG
2	C	881	ASN
2	C	886	LEU
2	C	897	LEU
2	C	900	ARG
2	C	904	PRO
2	C	916	GLU
2	C	920	GLN
2	C	934	PHE
2	C	940	GLU
2	C	950	LEU
2	C	963	LEU
2	C	971	LYS
2	C	974	LEU
2	C	975	TYR
2	C	984	GLU
2	C	999	HIS
2	C	1015	LEU
2	C	1016	ILE
2	C	1036	GLU
2	C	1043	TYR
2	C	1051	GLU
2	C	1063	ARG
2	C	1091	GLU
2	C	1092	LEU
2	C	1095	LEU
2	C	1101	THR
2	C	1103	ASP
2	C	1104	GLU

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Mol	Chain	Res	Type
2	C	1115	LEU
3	D	21	TRP
3	D	23	TYR
3	D	25	GLU
3	D	54	LYS
3	D	55	ASP
3	D	58	CYS
3	D	60	CYS
3	D	65	ARG
3	D	66	GLN
3	D	75	ARG
3	D	76	CYS
3	D	102	ILE
3	D	103	TRP
3	D	107	ASP
3	D	121	THR
3	D	123	LEU
3	D	126	VAL
3	D	127	LEU
3	D	135	LEU
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	153	LEU
3	D	159	ARG
3	D	160	GLU
3	D	161	LEU
3	D	173	PRO
3	D	199	LEU
3	D	208	PRO
3	D	211	VAL
3	D	217	LYS
3	D	218	LYS
3	D	220	ARG
3	D	224	ARG
3	D	225	LEU
3	D	230	TRP
3	D	232	GLU
3	D	233	LYS
3	D	236	TYR
3	D	244	GLU
3	D	245	LEU

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Mol	Chain	Res	Type
3	D	250	LEU
3	D	367	ILE
3	D	374	GLU
3	D	376	GLU
3	D	378	ILE
3	D	380	GLU
3	D	382	GLU
3	D	387	LEU
3	D	388	HIS
3	D	389	GLU
3	D	394	LEU
3	D	408	GLU
3	D	411	THR
3	D	413	ASP
3	D	423	ASP
3	D	432	TYR
3	D	445	ARG
3	D	447	VAL
3	D	469	ASP
3	D	486	ARG
3	D	491	LYS
3	D	503	LEU
3	D	508	ARG
3	D	511	TRP
3	D	513	ILE
3	D	528	VAL
3	D	542	ASP
3	D	549	ASN
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	579	ASP
3	D	581	LEU
3	D	591	VAL
3	D	594	PRO
3	D	602	SER
3	D	604	THR
3	D	605	ASP
3	D	611	GLN
3	D	614	PHE
3	D	616	GLN
3	D	624	ASP

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Mol	Chain	Res	Type
3	D	637	LEU
3	D	639	LEU
3	D	642	CYS
3	D	651	GLU
3	D	659	LYS
3	D	662	GLU
3	D	669	ASN
3	D	676	MET
3	D	681	ARG
3	D	682	ASP
3	D	685	ASP
3	D	688	TRP
3	D	707	THR
3	D	717	GLN
3	D	720	LEU
3	D	725	SER
3	D	736	PHE
3	D	743	ASP
3	D	745	MET
3	D	754	PHE
3	D	758	GLU
3	D	768	ASN
3	D	780	LYS
3	D	784	ASP
3	D	791	TYR
3	D	794	GLN
3	D	796	ARG
3	D	818	ARG
3	D	828	LYS
3	D	850	LEU
3	D	859	ASP
3	D	860	LEU
3	D	862	ASP
3	D	863	VAL
3	D	868	TYR
3	D	875	THR
3	D	880	ILE
3	D	888	GLU
3	D	892	ASP
3	D	897	TRP
3	D	899	LEU
3	D	901	GLN

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Mol	Chain	Res	Type
3	D	902	LEU
3	D	904	VAL
3	D	916	TYR
3	D	919	PHE
3	D	936	TYR
3	D	937	TYR
3	D	948	THR
3	D	951	ILE
3	D	972	LEU
3	D	975	GLU
3	D	976	GLN
3	D	1005	GLN
3	D	1029	ARG
3	D	1045	MET
3	D	1058	ARG
3	D	1062	ARG
3	D	1068	LEU
3	D	1071	PHE
3	D	1072	ILE
3	D	1083	ASP
3	D	1096	ARG
3	D	1099	VAL
3	D	1108	ARG
3	D	1109	GLU
3	D	1115	THR
3	D	1116	ASN
3	D	1135	ARG
3	D	1140	ILE
3	D	1147	ARG
3	D	1161	GLU
3	D	1162	GLU
3	D	1167	SER
3	D	1169	ASP
3	D	1182	GLU
3	D	1190	SER
3	D	1201	CYS
3	D	1204	CYS
3	D	1208	ASP
3	D	1211	MET
3	D	1213	ARG
3	D	1227	GLN
3	D	1238	MET

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Mol	Chain	Res	Type
3	D	1242	HIS
3	D	1243	THR
3	D	1253	THR
3	D	1254	GLN
3	D	1257	PRO
3	D	1264	GLU
3	D	1278	ASP
3	D	1285	GLU
3	D	1295	GLU
3	D	1304	LYS
3	D	1311	LEU
3	D	1314	LYS
3	D	1320	GLU
3	D	1326	THR
3	D	1337	GLU
3	D	1346	ARG
3	D	1350	GLU
3	D	1359	GLN
3	D	1388	ARG
3	D	1389	LEU
3	D	1391	GLU
3	D	1396	GLU
3	D	1410	GLU
3	D	1426	LYS
3	D	1429	LEU
3	D	1432	LYS
3	D	1434	TRP
3	D	1440	PHE
3	D	1441	GLN
3	D	1442	ASN
3	D	1460	ILE
3	D	1462	LEU
3	D	1483	PHE
4	E	30	LEU
4	E	32	ARG
4	E	35	PHE
4	E	40	LEU
4	E	42	PRO
4	E	46	PRO
4	E	56	ASP
4	E	59	ASN
4	E	61	GLU

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Mol	Chain	Res	Type
4	E	66	LYS
4	E	81	PRO
5	F	84	TYR
5	F	94	LEU
5	F	125	ASP
5	F	134	LYS
5	F	136	LEU
5	F	149	GLU
5	F	152	ASP
5	F	156	VAL
5	F	158	GLU
5	F	172	ARG
5	F	174	LEU
5	F	192	LEU
5	F	195	VAL
5	F	211	ASP
5	F	212	LEU
5	F	229	TYR
5	F	234	LYS
5	F	282	LEU
5	F	295	MET
5	F	297	PRO
5	F	312	GLN
5	F	313	GLU
5	F	321	ILE
5	F	324	GLU
5	F	328	PHE
5	F	341	PRO
5	F	347	GLN
5	F	353	GLU
5	F	375	LEU
5	F	384	GLU
5	F	393	THR
5	F	398	ARG
5	F	408	LEU
5	F	410	TYR
5	F	416	ARG
5	F	419	ARG
1	K	1	MET
1	K	5	LYS
1	K	16	GLN
1	K	19	GLU

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Mol	Chain	Res	Type
1	K	27	PRO
1	K	38	ASN
1	K	62	LEU
1	K	66	SER
1	K	77	GLU
1	K	88	ARG
1	K	91	ASN
1	K	95	GLN
1	K	96	THR
1	K	106	PRO
1	K	115	LEU
1	K	145	ASP
1	K	146	ARG
1	K	160	ASP
1	K	163	ASN
1	K	165	ILE
1	K	185	ARG
1	K	186	LEU
1	K	188	GLN
1	K	193	ASP
1	K	196	THR
1	K	206	THR
1	K	207	PRO
1	K	208	LEU
1	K	219	ARG
1	L	4	SER
1	L	5	LYS
1	L	12	THR
1	L	19	GLU
1	L	26	GLU
1	L	62	LEU
1	L	67	THR
1	L	77	GLU
1	L	89	PHE
1	L	95	GLN
1	L	138	LEU
1	L	139	ASN
1	L	140	MET
1	L	145	ASP
1	L	156	HIS
1	L	176	ARG
1	L	183	ASP

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Mol	Chain	Res	Type
1	L	193	ASP
1	L	213	GLN
1	L	223	THR
2	M	2	GLU
2	M	9	ILE
2	M	24	GLU
2	M	41	ASN
2	M	48	PHE
2	M	52	PHE
2	M	57	GLU
2	M	65	VAL
2	M	68	PHE
2	M	81	ASP
2	M	82	GLU
2	M	83	CYS
2	M	99	GLN
2	M	104	ASP
2	M	105	THR
2	M	115	LEU
2	M	117	HIS
2	M	133	ASP
2	M	146	VAL
2	M	154	ARG
2	M	158	TYR
2	M	168	ARG
2	M	170	PRO
2	M	178	PRO
2	M	181	VAL
2	M	184	MET
2	M	186	VAL
2	M	188	LYS
2	M	190	LYS
2	M	193	LEU
2	M	198	ARG
2	M	207	LEU
2	M	209	ARG
2	M	216	GLU
2	M	219	GLN
2	M	230	ARG
2	M	237	ARG
2	M	239	PHE
2	M	246	ASP

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Mol	Chain	Res	Type
2	M	252	LYS
2	M	256	TYR
2	M	266	ARG
2	M	268	ASP
2	M	269	LEU
2	M	275	TYR
2	M	290	LEU
2	M	301	GLU
2	M	303	PHE
2	M	321	GLU
2	M	350	ARG
2	M	358	ARG
2	M	359	MET
2	M	376	ARG
2	M	383	ARG
2	M	388	ARG
2	M	391	LEU
2	M	405	ARG
2	M	420	ARG
2	M	422	ARG
2	M	425	PHE
2	M	433	THR
2	M	455	LEU
2	M	471	TYR
2	M	480	THR
2	M	482	GLU
2	M	487	THR
2	M	492	ASP
2	M	503	LEU
2	M	511	GLU
2	M	523	ILE
2	M	551	GLU
2	M	564	MET
2	M	566	THR
2	M	579	VAL
2	M	586	ARG
2	M	626	ARG
2	M	630	ARG
2	M	633	GLN
2	M	637	LEU
2	M	640	ARG
2	M	645	VAL

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Mol	Chain	Res	Type
2	M	650	ARG
2	M	665	PHE
2	M	674	VAL
2	M	680	ASP
2	M	686	ASP
2	M	689	VAL
2	M	699	PHE
2	M	722	ILE
2	M	724	ARG
2	M	738	ASP
2	M	739	GLU
2	M	744	ARG
2	M	762	LYS
2	M	764	GLU
2	M	766	GLU
2	M	768	THR
2	M	787	ASP
2	M	799	ILE
2	M	807	ARG
2	M	834	GLN
2	M	837	ASP
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	856	GLU
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	900	ARG
2	M	904	PRO
2	M	906	PHE
2	M	934	PHE
2	M	936	VAL
2	M	940	GLU
2	M	946	ARG
2	M	950	LEU
2	M	958	THR
2	M	959	PRO
2	M	960	GLU
2	M	974	LEU
2	M	988	VAL
2	M	999	HIS

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Mol	Chain	Res	Type
2	M	1000	MET
2	M	1002	GLU
2	M	1005	MET
2	M	1016	ILE
2	M	1017	THR
2	M	1019	GLN
2	M	1020	PRO
2	M	1043	TYR
2	M	1055	LEU
2	M	1097	LEU
2	M	1104	GLU
2	M	1113	GLU
2	M	1115	LEU
3	N	2	LYS
3	N	7	LYS
3	N	9	ARG
3	N	12	LEU
3	N	42	ASP
3	N	75	ARG
3	N	84	ILE
3	N	98	PRO
3	N	103	TRP
3	N	123	LEU
3	N	128	TYR
3	N	133	ILE
3	N	143	ASN
3	N	149	LYS
3	N	152	LEU
3	N	153	LEU
3	N	155	ASP
3	N	171	LEU
3	N	185	VAL
3	N	206	ARG
3	N	208	PRO
3	N	213	VAL
3	N	217	LYS
3	N	218	LYS
3	N	230	TRP
3	N	240	GLU
3	N	241	ILE
3	N	245	LEU
3	N	366	LYS

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Mol	Chain	Res	Type
3	N	367	ILE
3	N	374	GLU
3	N	376	GLU
3	N	385	VAL
3	N	387	LEU
3	N	389	GLU
3	N	406	ASP
3	N	413	ASP
3	N	430	ASP
3	N	432	TYR
3	N	451	ASP
3	N	453	ASP
3	N	456	MET
3	N	503	LEU
3	N	507	ASN
3	N	523	ASP
3	N	529	GLN
3	N	535	PHE
3	N	542	ASP
3	N	545	ARG
3	N	549	ASN
3	N	554	LEU
3	N	560	GLN
3	N	567	ILE
3	N	569	ASN
3	N	576	GLU
3	N	584	ASN
3	N	587	ARG
3	N	594	PRO
3	N	600	LEU
3	N	601	ARG
3	N	605	ASP
3	N	606	ILE
3	N	624	ASP
3	N	629	SER
3	N	631	ILE
3	N	637	LEU
3	N	639	LEU
3	N	641	GLN
3	N	642	CYS
3	N	651	GLU
3	N	652	LEU

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Mol	Chain	Res	Type
3	N	662	GLU
3	N	666	ILE
3	N	675	ARG
3	N	676	MET
3	N	682	ASP
3	N	693	GLU
3	N	702	LEU
3	N	704	ARG
3	N	710	ARG
3	N	732	VAL
3	N	734	GLU
3	N	739	ASP
3	N	745	MET
3	N	747	VAL
3	N	753	SER
3	N	754	PHE
3	N	761	ILE
3	N	763	MET
3	N	770	LEU
3	N	783	ARG
3	N	794	GLN
3	N	796	ARG
3	N	799	LYS
3	N	820	GLU
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	838	ARG
3	N	841	TYR
3	N	842	VAL
3	N	859	ASP
3	N	861	GLN
3	N	862	ASP
3	N	863	VAL
3	N	879	ARG
3	N	892	ASP
3	N	899	LEU
3	N	901	GLN
3	N	902	LEU
3	N	903	ASP
3	N	911	LEU

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Mol	Chain	Res	Type
3	N	914	LEU
3	N	917	GLN
3	N	929	ARG
3	N	940	THR
3	N	947	ILE
3	N	951	ILE
3	N	952	ASP
3	N	953	ASP
3	N	988	ARG
3	N	990	ASP
3	N	1042	ARG
3	N	1045	MET
3	N	1046	GLN
3	N	1049	SER
3	N	1052	THR
3	N	1055	VAL
3	N	1058	ARG
3	N	1062	ARG
3	N	1063	GLU
3	N	1066	THR
3	N	1068	LEU
3	N	1096	ARG
3	N	1097	LYS
3	N	1109	GLU
3	N	1112	CYS
3	N	1116	ASN
3	N	1119	SER
3	N	1126	ASP
3	N	1127	GLU
3	N	1135	ARG
3	N	1147	ARG
3	N	1148	VAL
3	N	1156	LEU
3	N	1164	ARG
3	N	1166	LEU
3	N	1168	MET
3	N	1173	LEU
3	N	1182	GLU
3	N	1189	ARG
3	N	1190	SER
3	N	1197	ARG
3	N	1202	GLN

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Mol	Chain	Res	Type
3	N	1204	CYS
3	N	1207	TYR
3	N	1211	MET
3	N	1213	ARG
3	N	1223	ILE
3	N	1231	GLU
3	N	1238	MET
3	N	1243	THR
3	N	1251	ASP
3	N	1264	GLU
3	N	1274	ILE
3	N	1282	ARG
3	N	1304	LYS
3	N	1314	LYS
3	N	1326	THR
3	N	1337	GLU
3	N	1346	ARG
3	N	1351	GLU
3	N	1353	GLN
3	N	1375	MET
3	N	1376	MET
3	N	1388	ARG
3	N	1389	LEU
3	N	1396	GLU
3	N	1412	LYS
3	N	1419	PRO
3	N	1422	MET
3	N	1425	THR
3	N	1429	LEU
3	N	1432	LYS
3	N	1442	ASN
3	N	1466	VAL
3	N	1483	PHE
3	N	1484	THR
3	N	1488	ASP
4	O	10	PHE
4	O	20	THR
4	O	31	LEU
4	O	32	ARG
4	O	42	PRO
4	O	44	GLU
4	O	46	PRO

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Mol	Chain	Res	Type
4	O	56	ASP
4	O	59	ASN
4	O	66	LYS
4	O	79	LEU
4	O	81	PRO
4	O	84	ARG
5	P	83	GLN
5	P	84	TYR
5	P	86	HIS
5	P	91	VAL
5	P	101	GLU
5	P	105	LYS
5	P	134	LYS
5	P	148	LYS
5	P	161	GLN
5	P	169	GLU
5	P	174	LEU
5	P	181	GLU
5	P	184	ARG
5	P	186	HIS
5	P	194	LEU
5	P	229	TYR
5	P	264	MET
5	P	286	PRO
5	P	290	GLU
5	P	302	LYS
5	P	319	THR
5	P	324	GLU
5	P	338	LEU
5	P	341	PRO
5	P	364	ARG
5	P	372	ARG
5	P	394	ARG
5	P	398	ARG
5	P	399	GLN
5	P	410	TYR
5	P	418	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (168) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	63	HIS

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Mol	Chain	Res	Type
1	A	95	GLN
1	A	124	ASN
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	227	ASN
1	B	81	ASN
1	B	124	ASN
1	B	156	HIS
1	B	163	ASN
1	B	212	ASN
1	B	229	GLN
2	C	22	GLN
2	C	41	ASN
2	C	102	HIS
2	C	179	ASN
2	C	320	HIS
2	C	343	GLN
2	C	431	HIS
2	C	434	HIS
2	C	498	GLN
2	C	538	GLN
2	C	543	ASN
2	C	545	ASN
2	C	552	HIS
2	C	563	ASN
2	C	567	GLN
2	C	609	ASN
2	C	633	GLN
2	C	671	ASN
2	C	704	HIS
2	C	834	GLN
2	C	841	ASN
2	C	889	HIS
2	C	899	GLN
2	C	969	GLN
2	C	1019	GLN
2	C	1100	GLN
3	D	66	GLN
3	D	101	HIS
3	D	166	GLN
3	D	462	GLN

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Mol	Chain	Res	Type
3	D	507	ASN
3	D	549	ASN
3	D	560	GLN
3	D	569	ASN
3	D	575	GLN
3	D	611	GLN
3	D	669	ASN
3	D	680	GLN
3	D	703	ASN
3	D	714	GLN
3	D	717	GLN
3	D	727	GLN
3	D	744	GLN
3	D	756	GLN
3	D	762	GLN
3	D	767	HIS
3	D	794	GLN
3	D	816	HIS
3	D	824	ASN
3	D	861	GLN
3	D	973	GLN
3	D	991	GLN
3	D	994	GLN
3	D	1033	GLN
3	D	1034	GLN
3	D	1103	HIS
3	D	1172	HIS
3	D	1202	GLN
3	D	1334	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1441	GLN
3	D	1442	ASN
3	D	1465	ASN
3	D	1485	GLN
3	D	1489	GLN
5	F	83	GLN
5	F	90	GLN
5	F	191	ASN
5	F	254	GLN
1	K	16	GLN
1	K	91	ASN

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Mol	Chain	Res	Type
1	K	95	GLN
1	K	124	ASN
1	K	128	HIS
1	K	156	HIS
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	K	213	GLN
1	K	229	GLN
1	L	38	ASN
1	L	95	GLN
1	L	139	ASN
1	L	156	HIS
1	L	163	ASN
1	L	180	GLN
2	M	31	GLN
2	M	41	ASN
2	M	91	GLN
2	M	99	GLN
2	M	117	HIS
2	M	130	ASN
2	M	139	GLN
2	M	141	HIS
2	M	179	ASN
2	M	343	GLN
2	M	431	HIS
2	M	434	HIS
2	M	500	ASN
2	M	538	GLN
2	M	575	GLN
2	M	632	ASN
2	M	671	ASN
2	M	829	GLN
2	M	834	GLN
2	M	843	HIS
2	M	845	ASN
2	M	881	ASN
2	M	884	GLN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	1018	GLN

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Mol	Chain	Res	Type
2	M	1019	GLN
2	M	1100	GLN
3	N	101	HIS
3	N	166	GLN
3	N	388	HIS
3	N	462	GLN
3	N	463	GLN
3	N	507	ASN
3	N	529	GLN
3	N	541	ASN
3	N	549	ASN
3	N	551	ASN
3	N	569	ASN
3	N	636	GLN
3	N	703	ASN
3	N	744	GLN
3	N	748	HIS
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	845	ASN
3	N	962	GLN
3	N	1116	ASN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1359	GLN
3	N	1441	GLN
4	O	29	GLN
4	O	37	ASN
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	175	HIS
5	P	191	ASN
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	245	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	-0.13	1 (0%) 92 93	41, 64, 87, 113	0
1	B	229/315 (72%)	0.09	16 (6%) 16 16	47, 121, 143, 143	0
1	K	229/315 (72%)	-0.06	3 (1%) 77 77	28, 63, 88, 111	0
1	L	229/315 (72%)	-0.03	7 (3%) 49 48	41, 79, 99, 117	0
2	C	1119/1119 (100%)	-0.07	25 (2%) 62 60	12, 67, 133, 143	0
2	M	1119/1119 (100%)	-0.06	31 (2%) 53 51	6, 71, 122, 133	0
3	D	1392/1524 (91%)	-0.00	37 (2%) 54 52	7, 60, 125, 143	0
3	N	1392/1524 (91%)	0.05	53 (3%) 40 37	5, 65, 134, 143	0
4	E	95/99 (95%)	-0.03	2 (2%) 63 62	54, 84, 100, 106	0
4	O	95/99 (95%)	0.04	4 (4%) 36 34	46, 86, 117, 121	0
5	F	345/423 (81%)	-0.06	9 (2%) 56 53	48, 81, 113, 121	0
5	P	345/423 (81%)	-0.08	8 (2%) 60 59	47, 73, 110, 123	0
All	All	6818/7590 (89%)	-0.02	196 (2%) 51 50	5, 70, 129, 143	0

All (196) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	1247	ALA	14.8
3	D	1246	VAL	9.4
2	C	211	LEU	8.7
3	N	1246	VAL	8.3
1	B	1	MET	7.4
3	D	205	TYR	7.4
3	N	199	LEU	7.3
3	N	1242	HIS	7.1
3	N	1241	PHE	6.9
3	D	802	ALA	6.9
5	F	423	ASP	6.6

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Mol	Chain	Res	Type	RSRZ
3	D	1244	GLY	6.5
3	D	410	SER	6.4
1	B	111	ALA	6.1
4	O	55	PHE	5.7
5	P	418	LEU	5.5
5	P	422	LEU	5.3
3	N	112	ILE	5.2
3	D	1248	GLY	5.2
3	D	1240	THR	5.2
1	L	1	MET	5.2
3	N	242	LEU	5.1
4	O	2	ALA	5.0
5	F	95	THR	5.0
2	C	179	ASN	5.0
3	N	398	ALA	4.9
2	C	186	VAL	4.4
3	D	1242	HIS	4.4
2	C	267	TYR	4.1
3	D	1243	THR	4.0
1	B	82	LEU	4.0
2	M	267	TYR	4.0
3	D	1249	ALA	3.8
2	M	211	LEU	3.8
3	N	381	ALA	3.8
3	N	1245	GLY	3.8
1	K	2	LEU	3.8
1	B	138	LEU	3.8
2	M	973	VAL	3.8
3	D	1398	TRP	3.8
2	M	109	LYS	3.7
3	N	152	LEU	3.7
3	N	407	VAL	3.6
2	M	40	GLU	3.6
3	N	1398	TRP	3.6
3	N	412	GLY	3.6
2	M	372	LEU	3.6
2	M	764	GLU	3.6
3	N	1401	GLU	3.6
3	N	1174	LEU	3.5
3	D	801	GLY	3.4
2	M	281	LEU	3.4
4	O	73	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
3	N	1200	VAL	3.3
3	N	224	ARG	3.2
3	N	1240	THR	3.2
1	L	25	LEU	3.2
2	C	98	LEU	3.2
3	D	1200	VAL	3.2
3	N	182	GLY	3.2
3	N	371	ILE	3.2
2	C	180	GLY	3.2
1	B	130	ALA	3.2
1	B	2	LEU	3.2
1	B	62	LEU	3.1
3	D	444	VAL	3.1
3	N	186	VAL	3.1
3	N	406	ASP	3.1
2	C	271	GLU	3.1
3	D	128	TYR	3.0
3	D	1421	LEU	3.0
3	N	200	ASP	3.0
3	N	1250	ALA	3.0
3	N	421	LEU	3.0
3	N	801	GLY	3.0
2	C	306	THR	3.0
3	N	205	TYR	3.0
3	N	409	VAL	3.0
1	K	1	MET	3.0
2	C	184	MET	2.9
3	D	1160	LEU	2.9
3	N	388	HIS	2.9
2	M	162	ILE	2.9
2	C	235	LEU	2.8
2	M	99	GLN	2.8
3	N	902	LEU	2.8
1	B	218	LEU	2.8
3	D	420	VAL	2.8
1	B	127	LEU	2.8
1	L	6	LEU	2.8
3	D	1245	GLY	2.8
3	N	1452	ILE	2.7
3	N	183	GLU	2.7
4	E	69	LEU	2.7
2	C	467	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
3	N	37	LEU	2.7
3	N	223	LEU	2.7
3	N	139	GLY	2.6
2	M	168	ARG	2.6
3	D	409	VAL	2.6
5	F	247	ILE	2.6
3	D	137	PRO	2.6
3	N	816	HIS	2.6
2	M	186	VAL	2.6
2	C	372	LEU	2.6
2	M	282	GLY	2.6
3	D	1330	ILE	2.6
2	C	1119	ARG	2.6
2	C	176	VAL	2.6
2	M	359	MET	2.6
3	D	224	ARG	2.6
3	N	1192	LEU	2.6
5	F	418	LEU	2.5
5	P	365	GLU	2.5
4	E	65	MET	2.5
2	M	116	GLY	2.5
3	N	1160	LEU	2.5
2	M	333	ILE	2.5
1	L	85	LEU	2.4
5	P	84	TYR	2.4
1	K	218	LEU	2.4
2	C	333	ILE	2.4
5	F	365	GLU	2.4
2	C	726	ILE	2.4
2	M	461	VAL	2.4
1	B	103	ALA	2.4
2	M	666	LEU	2.4
3	N	858	VAL	2.4
1	A	5	LYS	2.4
2	C	115	LEU	2.4
3	D	178	LEU	2.4
3	D	1174	LEU	2.4
1	B	132	LEU	2.4
3	D	1239	ARG	2.4
5	P	412	GLU	2.4
3	N	79	GLU	2.3
3	N	781	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	L	218	LEU	2.3
2	M	311	PHE	2.3
3	N	211	VAL	2.3
1	L	82	LEU	2.3
3	D	1325	LEU	2.3
2	M	972	VAL	2.3
5	P	423	ASP	2.3
3	N	241	ILE	2.3
3	D	922	LEU	2.3
1	B	85	LEU	2.3
2	C	1055	LEU	2.3
1	L	186	LEU	2.2
5	P	408	LEU	2.2
1	B	79	ILE	2.2
2	C	1111	ILE	2.2
5	F	291	ILE	2.2
3	N	424	GLY	2.2
3	N	1370	ILE	2.2
3	N	413	ASP	2.2
3	N	250	LEU	2.2
2	M	200	LEU	2.2
2	M	611	ILE	2.2
3	D	112	ILE	2.2
2	C	611	ILE	2.2
3	N	383	GLY	2.2
3	N	405	ASP	2.1
2	M	174	LEU	2.1
3	D	388	HIS	2.1
3	N	897	TRP	2.1
1	B	109	VAL	2.1
2	M	176	VAL	2.1
4	O	9	LEU	2.1
2	M	371	LYS	2.1
5	F	315	VAL	2.1
2	C	974	LEU	2.1
3	D	111	LYS	2.1
2	M	115	LEU	2.1
5	P	220	LEU	2.1
2	C	59	LYS	2.1
2	C	66	LEU	2.1
3	D	1236	LEU	2.1
5	F	149	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
3	N	1292	VAL	2.1
3	N	843	PHE	2.1
5	F	130	VAL	2.1
2	M	202	TYR	2.1
3	D	1238	MET	2.1
1	B	186	LEU	2.0
3	D	242	LEU	2.0
3	D	1292	VAL	2.0
2	C	378	LEU	2.0
2	M	438	ILE	2.0
3	N	178	LEU	2.0
3	D	1144	LEU	2.0
2	M	765	SER	2.0
2	M	373	VAL	2.0
2	C	181	VAL	2.0
2	M	140	ILE	2.0
1	B	40	LEU	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	ZN	D	1525	1/1	0.85	0.29	107,107,107,107	0
6	ZN	N	1526	1/1	0.89	0.28	72,72,72,72	0
6	ZN	N	1525	1/1	0.92	0.32	108,108,108,108	0
7	MG	D	1527	1/1	0.94	0.09	19,19,19,19	0
7	MG	N	1527	1/1	0.96	0.17	29,29,29,29	0
6	ZN	D	1526	1/1	0.99	0.26	78,78,78,78	0

6.5 Other polymers

There are no such residues in this entry.