



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 12:26 AM GMT

PDB ID : 2A69
Title : Crystal structure of the T. Thermophilus RNA polymerase holoenzyme in complex with antibiotic rifapentin
Authors : Artsimovitch, I.; Vassilyeva, M.N.; Svetlov, D.; Svetlov, V.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Tahirov, T.H.; Vassilyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2005-07-02
Resolution : 2.50 Å(reported)

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

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

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

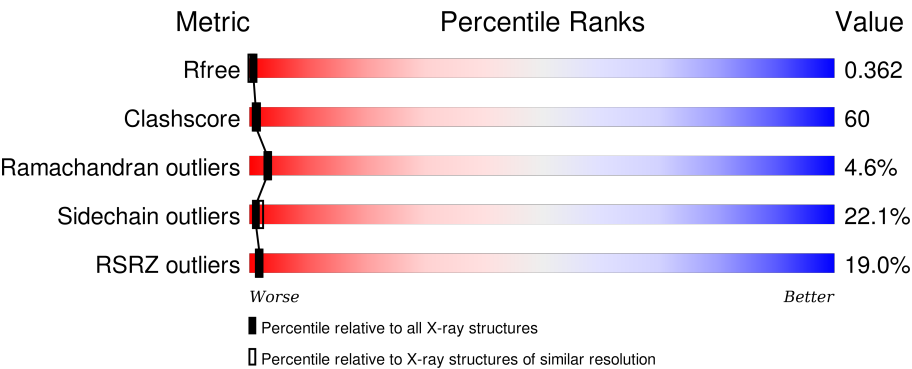
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	91344	3553 (2.50-2.50)
Clashscore	102246	4242 (2.50-2.50)
Ramachandran outliers	100387	4156 (2.50-2.50)
Sidechain outliers	100360	4158 (2.50-2.50)
RSRZ outliers	91569	3562 (2.50-2.50)

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

Mol	Chain	Length	Quality of chain
1	A	315	<div><div>8%</div><div><div></div><div></div><div></div><div></div></div><div>17%44%10%27%</div></div>
1	B	315	<div><div>22%</div><div><div></div><div></div><div></div><div></div></div><div>18%43%11%27%</div></div>
1	K	315	<div><div>7%</div><div><div></div><div></div><div></div><div></div></div><div>23%40%9%27%</div></div>
1	L	315	<div><div>15%</div><div><div></div><div></div><div></div><div></div></div><div>19%43%10%27%</div></div>
2	C	1119	<div><div>17%</div><div><div></div><div></div><div></div><div></div></div><div>22%59%18%</div></div>

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Mol	Chain	Length	Quality of chain
2	M	1119	<div><div><div></div><div></div><div></div></div><div>19%24%59%16%•</div></div>
3	D	1524	<div><div><div></div><div></div><div></div></div><div>17%23%52%16%•9%</div></div>
3	N	1524	<div><div><div></div><div></div><div></div></div><div>17%25%51%14%•9%</div></div>
4	E	99	<div><div><div></div><div></div><div></div></div><div>18%28%49%18%•</div></div>
4	O	99	<div><div><div></div><div></div><div></div></div><div>17%27%49%18%••</div></div>
5	F	423	<div><div><div></div><div></div><div></div></div><div>19%20%46%14%•18%</div></div>
5	P	423	<div><div><div></div><div></div><div></div></div><div>22%20%49%11%•18%</div></div>

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 60572 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
			10797	6819	1925	2020	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	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			

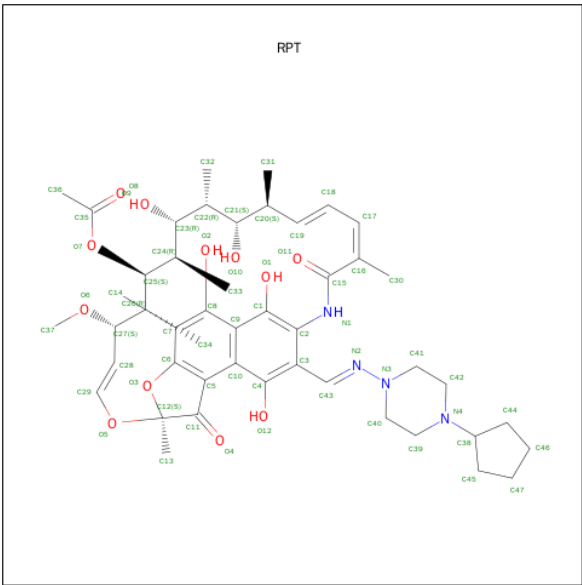
- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			
5	P	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			

- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	P	20	Total	Mg	0	0
			20	20		
6	D	106	Total	Mg	0	0
			106	106		
6	K	19	Total	Mg	0	0
			19	19		
6	E	5	Total	Mg	0	0
			5	5		
6	B	21	Total	Mg	0	0
			21	21		
6	C	73	Total	Mg	0	0
			73	73		
6	A	33	Total	Mg	0	0
			33	33		
6	N	92	Total	Mg	0	0
			92	92		
6	O	8	Total	Mg	0	0
			8	8		
6	L	17	Total	Mg	0	0
			17	17		
6	F	28	Total	Mg	0	0
			28	28		
6	M	65	Total	Mg	0	0
			65	65		

- Molecule 7 is RIFAPENTINE (three-letter code: RPT) (formula: C₄₇H₆₄N₄O₁₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	C	1	Total	C	N	O	0	0
			63	47	4	12		
7	M	1	Total	C	N	O	0	0
			63	47	4	12		

- Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	239	Total	O	0	0
			239	239		
9	B	258	Total	O	0	0
			258	258		
9	C	979	Total	O	0	0
			979	979		
9	D	1252	Total	O	0	0
			1252	1252		
9	E	117	Total	O	0	0
			117	117		

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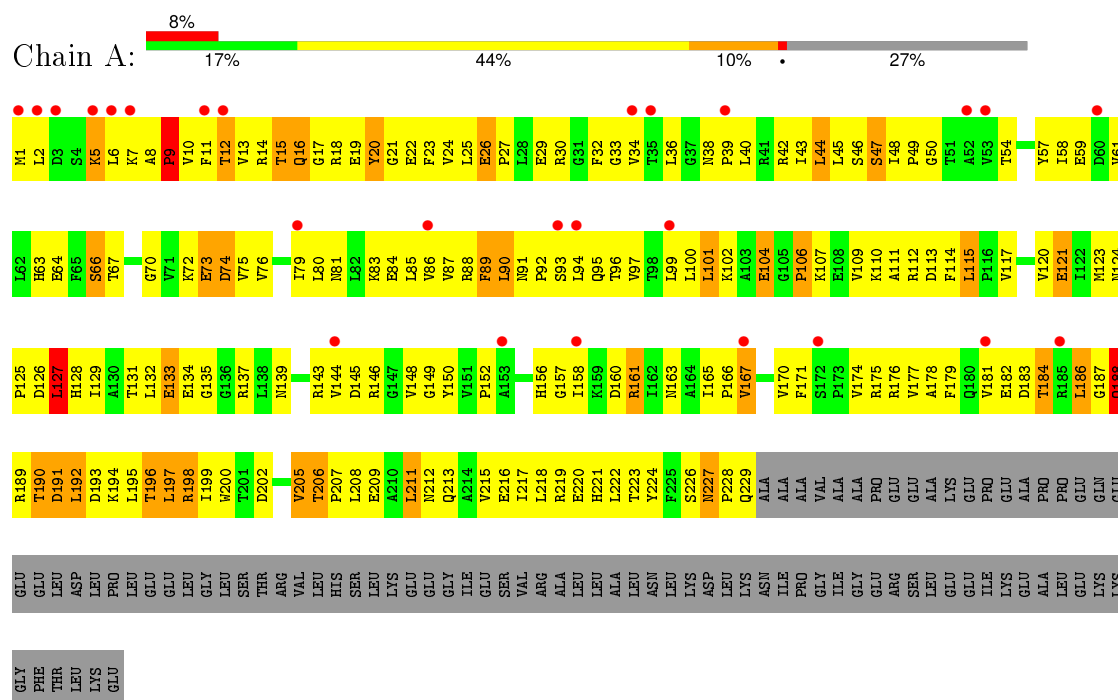
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	F	420	Total 420	O 420	0	0
9	K	183	Total 183	O 183	0	0
9	L	219	Total 219	O 219	0	0
9	M	998	Total 998	O 998	0	0
9	N	1265	Total 1265	O 1265	0	0
9	O	108	Total 108	O 108	0	0
9	P	361	Total 361	O 361	0	0

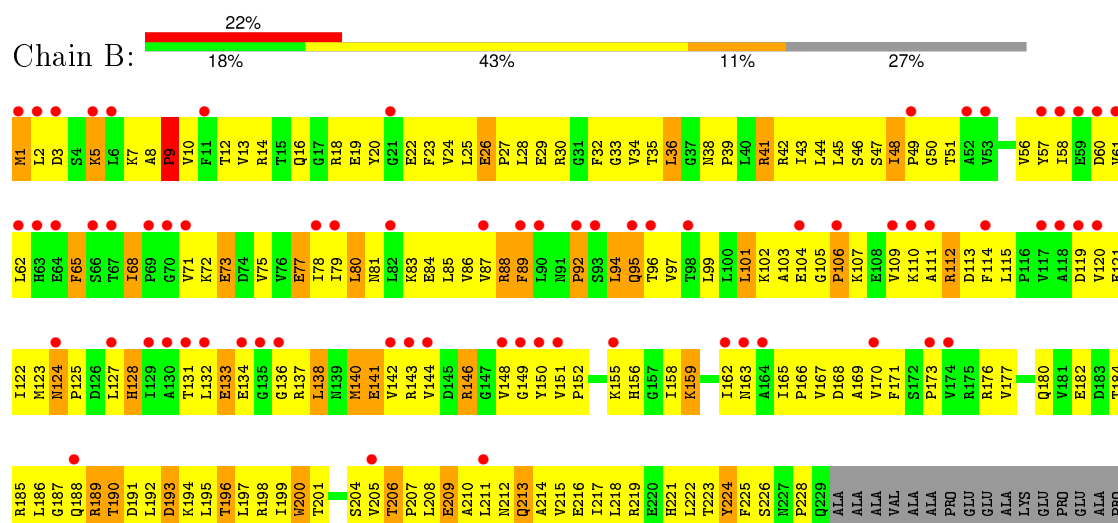
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($\text{RSRZ} > 2$). 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.

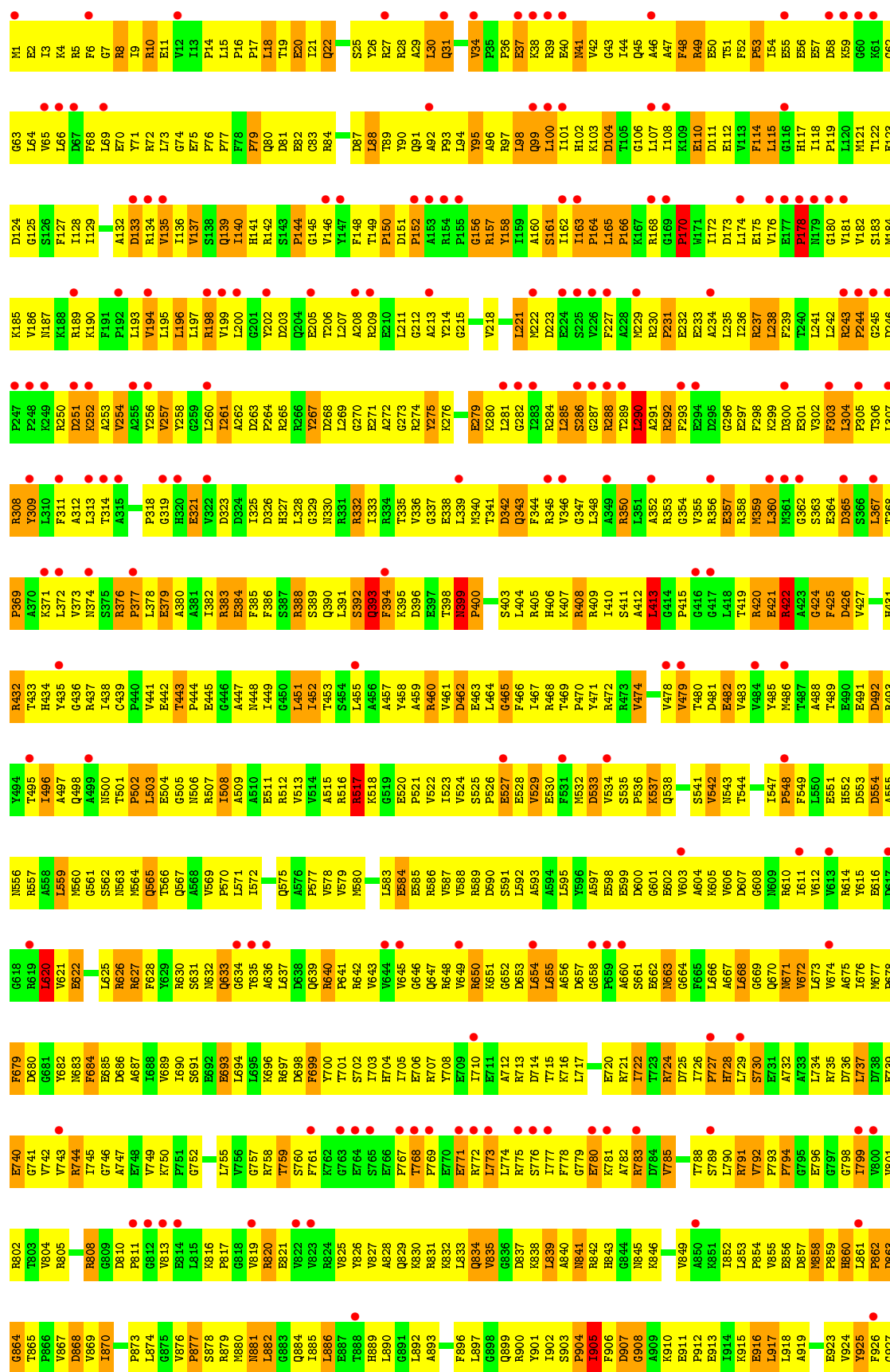
• Molecule 1: DNA-directed RNA polymerase alpha chain

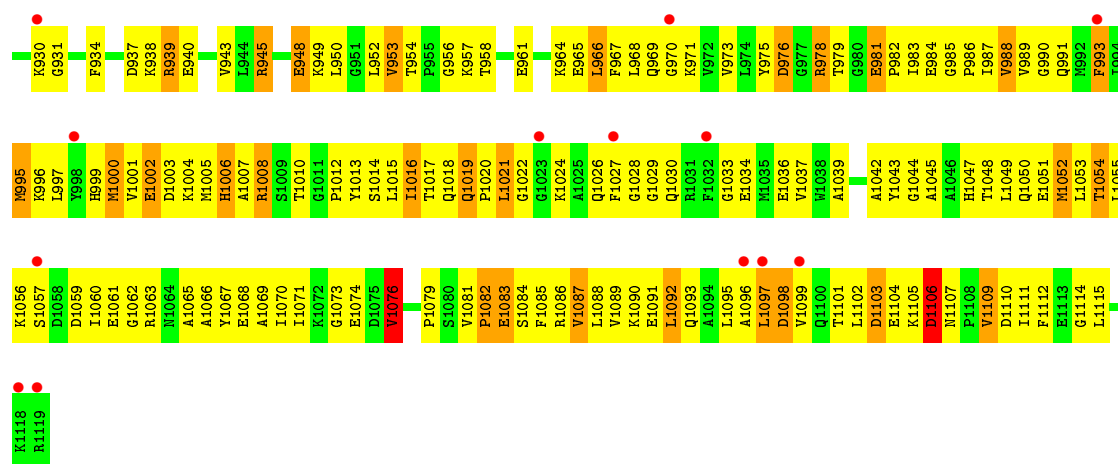


• Molecule 1: DNA-directed RNA polymerase alpha chain

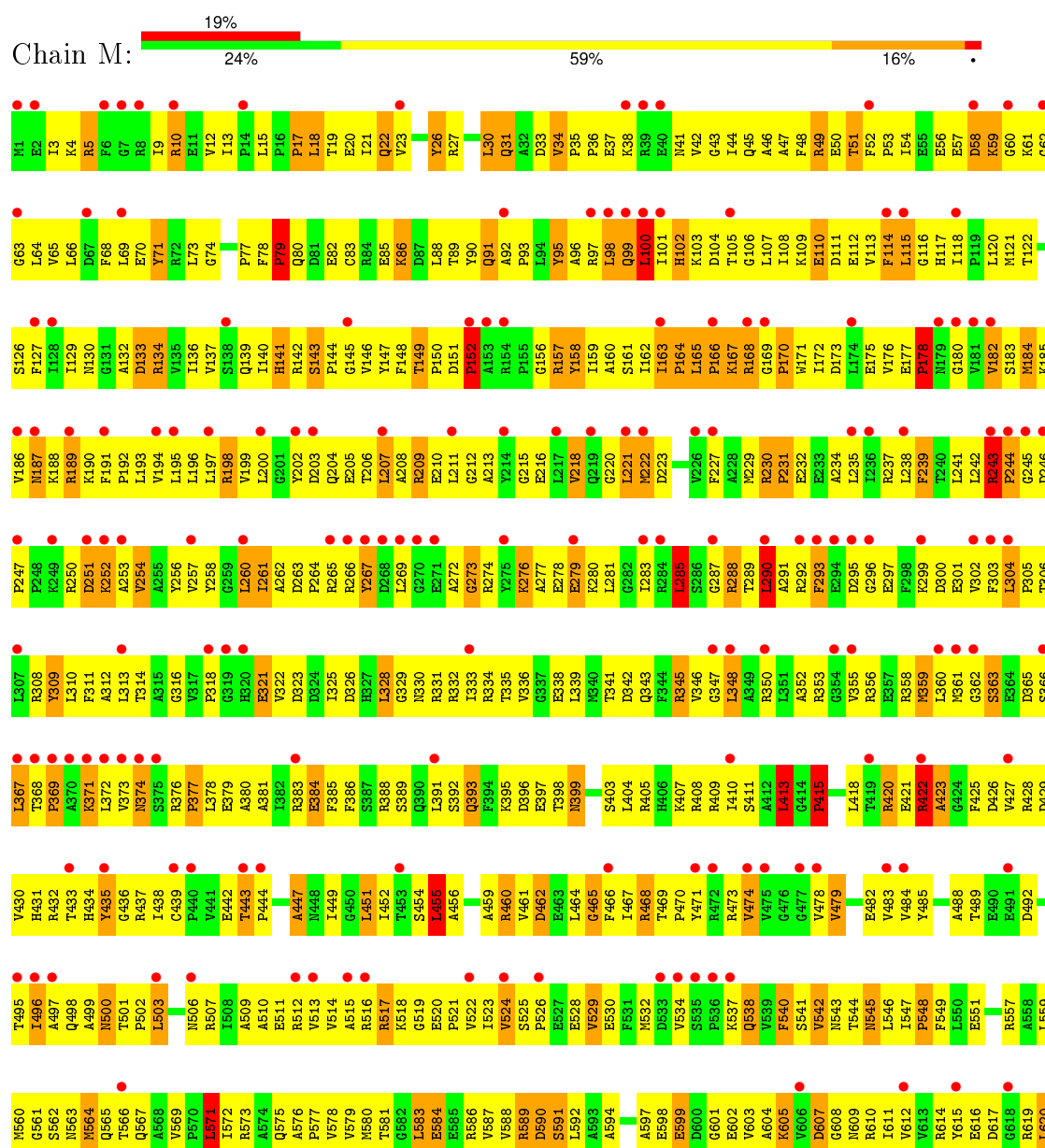


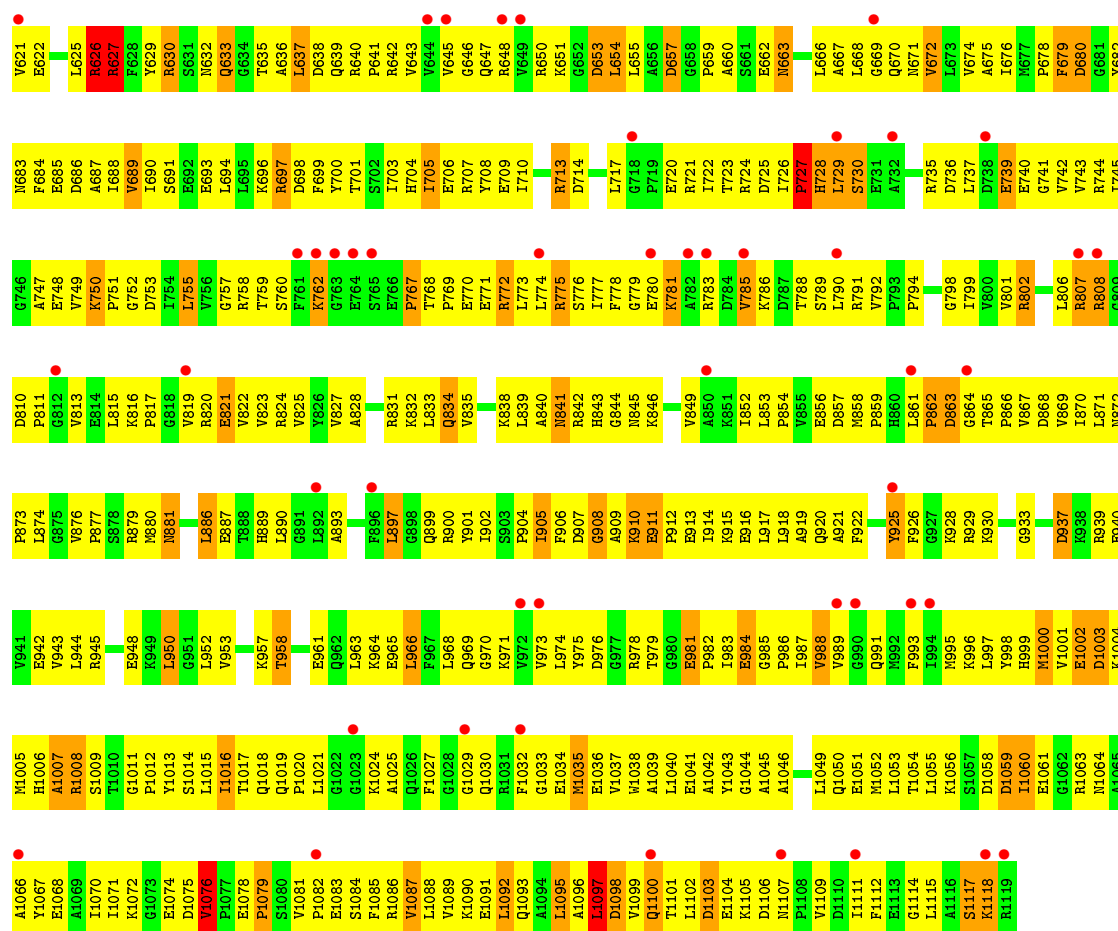




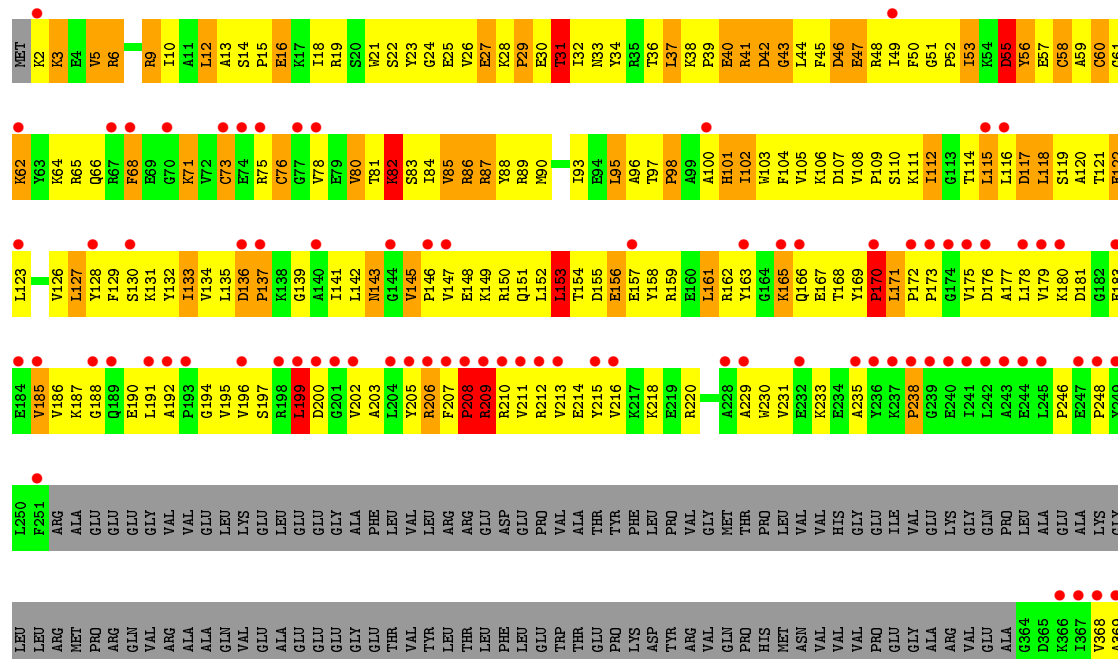


• Molecule 2: DNA-directed RNA polymerase beta chain

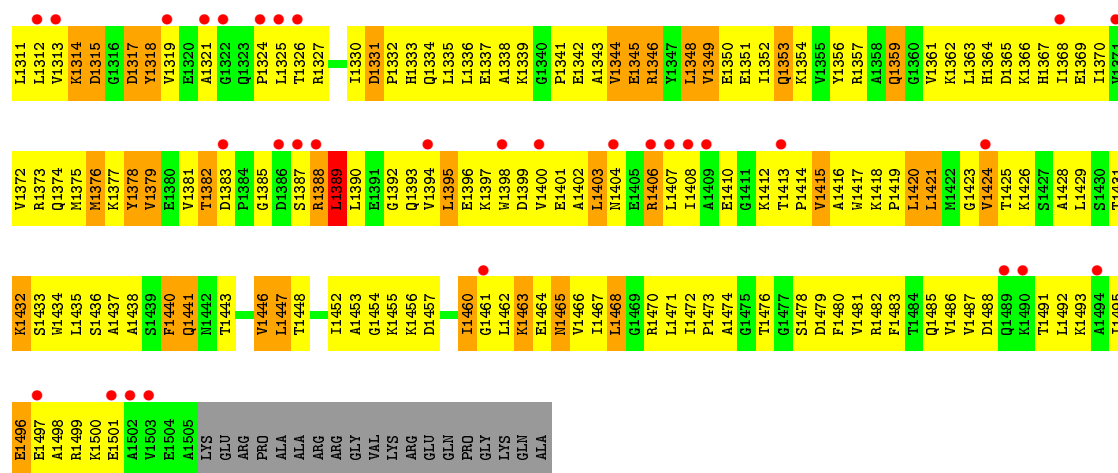




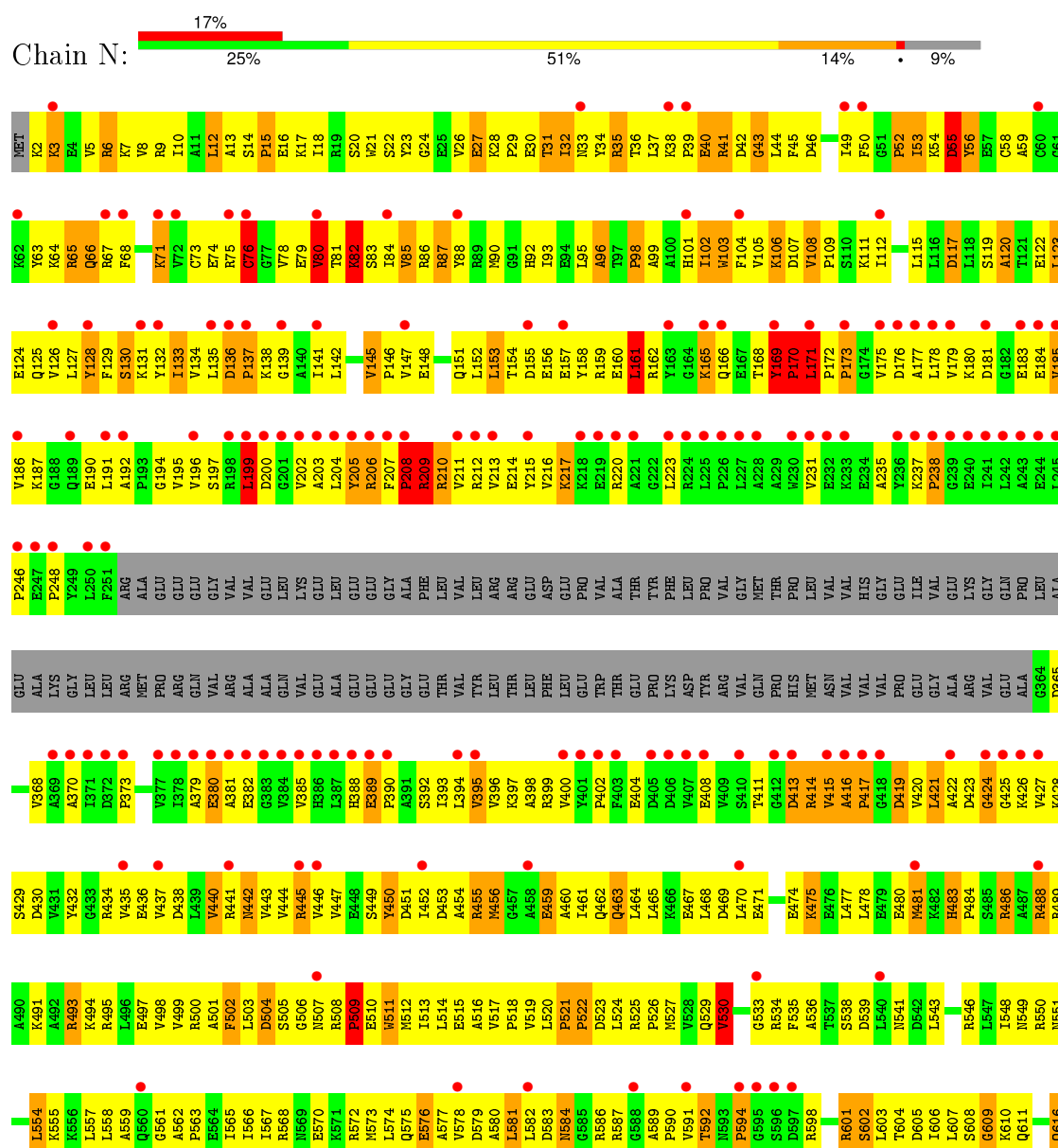
• Molecule 3: DNA-directed RNA polymerase beta' chain



D1251	P1191	E1063	E998	K926	V854	G803	D741	M676	R615	R553	A493	A370
I1252	L1192	G1064	T999	I927	T855	L804	G742	L677	Q616	L554	R493	I371
L1253	V1128	L1065	T1000	A928	V856	E805	D743	E678	Q617	R494	R493	I372
Q1254	C1193	L1066	E1001	R929	R867	F806	Q744	R679	L618	K555	K495	P373
G1255	G1196	V1067	K1002	L930	V868	A807	Q745	Q680	L619	L558	V498	E374
L1256	R1197	L1068	V1003	L931	R869	T808	A746	R681	Q620	A559	V499	E375
P1257	R1198	E1069	T1004	T940	E870	P809	V747	D682	V621	Q560	R500	E376
R1258	K1136	E1070	Q1005	T941	K871	E810	H748	L683	V622	G561	R501	V377
V1259	R1137	F1071	A1006	T943	R872	E811	V749	E684	V623	A562	V437	V378
L1260	D1138	S1072	F1007	T944	L873	A812	P750	R685	L624	F563	V438	V379
E1261	D1139	S1073	F1008	T945	E874	R813	L751	E686	V625	E564	R441	E380
Q1262	I1140	S1074	K1009	I947	T875	A814	S752	V687		I565	R442	A381
K1263	L1203	H1075	M1010	T948	S876	A815	S753	V688	R628	I566	V443	A382
F1264	E1204	G1076	F1011	T949	P877	H616	F754		S629	I567	V444	G383
A1265	V1205	A1077	E1012	G950	R878	E817	A755	V694	V630	R568	R445	G384
R1266	G1206	K1078	L1013	I951	R879	R818	Q756	V446	R631	N569	R446	V385
P1267	D1207	K1079	P1016	I952	I880	E819	A757	E570	V632	E570	V447	
L1268	G1208	G1080	P1017	D953	A883	P820	E758	K571	V633	K571	E510	E448
K1269	A1082	G1081	P1018	D954	R884	V821	A759	K698	Q634	R572	H511	S449
S1270	D1083	L1082	L1019	A954	E887	A822	I761	V700	Q635	H573	H512	
M1271	L1149	T1084	L1020	V955	E888	L823	Q762	L701	L637	Q575	L514	D451
A1272	A1150	A1085	Y1021	I956	E888	N824	M763	L702	V638	E576	L515	S392
V1273	R1213	L1086	M1023	P957	E889	A825	M764	N703	L639	A577	A516	I393
I1274	E1152	L1087	L1024	E958	V890	P826	L764	R704	H640	V577	A454	L394
V1275	S1275	L1087	S1026	K960	E891	T827	S765	R705	Q641	D579	V517	V395
E1276	L1153	D1090	G1027	Y963	E892	K828	A766	A705			P518	V396
L1277	V1155	S1091	A1028	L964	E893	V829	H767	P706	C642	A580	V519	K397
D1278	L1156	G1092	G1029	L965	R894	A830	L769	T707	Q643	A458	L520	E457
E1279	R1159	Y1093	G1030	E965	V895	R832	Q831	H709	L644	E459	R399	
V1280	A1220	A1094	L1031	E966	A896	E833	L770	R710	P645	D833	V400	
P1281	V1221	L1095	P1032	A967	V897	T834	A773	L711	R647	N584	D823	Y401
R1282	G1222	T1095	Q1033	D968	E898	S835	S774	G712	H648	G885	L524	Q482
L1283	E1162	K1097	Q1034	R969	L899	G837	E775	I713	L649	R587	R525	Q483
E1284	G1163	L1098	I1035	K970	Q901	R838	E776	A715	L650	G888	P526	F403
A1285	V1165	V1099	R1036	L971	L902	L839	P777	R716	L652	A539	V528	D404
T1286	L1166	D1100	Q1037	L972	D903	R840	K780	F717		P590	Q529	D406
E1287	S1167	V1101	L1038	Q973	P904	T841	P781	Q718	R653	V591	V830	V407
E1288	M1168	T1102	G1039	I974	P905	V842	S782	V719	R654	T592	D531	E408
K1289	D1169	H1103	G1040	E975	G1041	F843	R783	L720	P655	N593	G532	V409
S1290	L1170	E1104	L1041	Q976	E907	A844	D784	V721	F656	P594	G533	S410
V1291	V1171	I1105	K1042	Y977	E907	N845	I785	E722	L657	G595	R534	T411
P1292	G1233	V1106	G1043	Y978	K908	D846	I786	Q723	L658	S596	F835	G412
L1293	L1173	V1107	L1044	E979	S940	P847	L787	Q724	K659	D597	A536	D413
Q1294	L1174	R1108	M1045	M980	S941	D847	R788	R725	R660	R598	T537	E474
E1295	L1175	K1176	Q1046	F982	L911	E848	G788	S725	R661	P599	S538	V415
S1296	K1177	A1110	K1047	G981	K912	A849	L789	E662	L600	D539	L477	A416
E1297	A1178	D1112	P1048	T984	D913	R850	Y790	Q727	R601	R601	L540	P417
G1298	E1179	G1113	E1051	D985	V915	A852	I792	L728	V663	S602	L541	G418
F1299	A1180	T1114	T1052	R986	Y946	V853	Q794	H729	Q665	L603	D542	D419
K1300	G1181	T1115	F1053	E987	Q917	E856	T793	P730	L666	I606	L543	V420
L1301	M1116	Y1117	P1056	R988	A918	R857	V795	E734	A667	L607	Y544	A422
G1302	E1182	V1118	V1057	Y989	F919	V858	R796	E734	P668	L607	R483	A422
K1303	G1244	L1183	K1058	L992	L920	D859	K797	V836	R669	S608	P484	D423
L1304	V1186	S1119	S1059	I992	R921	L860	K799	F736	V670	G609	S485	G424
P1305	P1187	V1120	S1060	L995	E922	L861	K800	I737	Q611	L547	R486	G425
K1306	V1188	F1061	F1062	W996	G923	Q861	R799	I737	A672	I548	A487	K426
L1307	R1189	L1248	L1249	K427	E1247	R428	K428	V427	R488	N549	R488	V427
E1308	A1249	K428	K429	K430	K431	K432	K433	K434	K435	K436	K437	K438
K1309	K439	K440	K441	K442	K443	K444	K445	K446	K447	K448	K449	K450
L1310	K451	K452	K453	K454	K455	K456	K457	K458	K459	K460	K461	K462

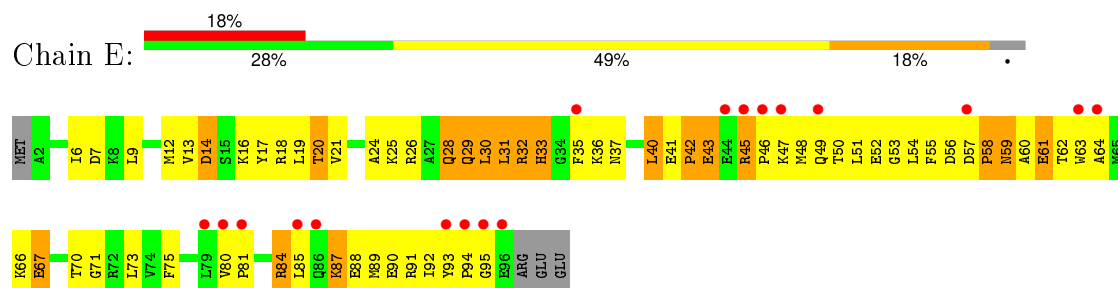


• Molecule 3: DNA-directed RNA polymerase beta' chain

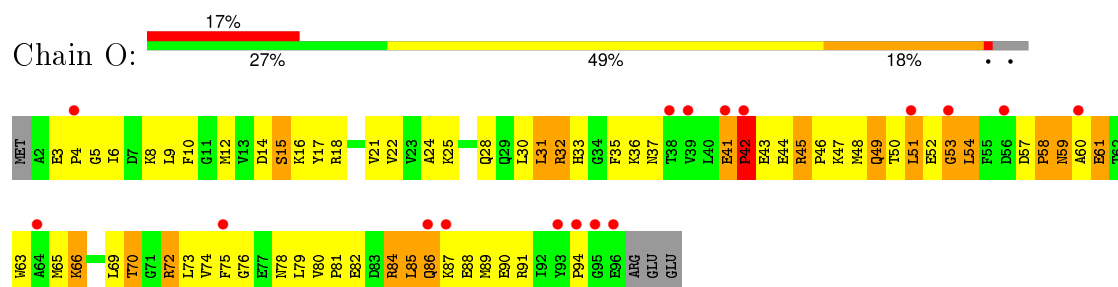


VAL	K1455	R1388	L1325	F1263	T1193	T1129	L1065	E998	A933	Y868	F806	E678	N617
LYS	K1456	L1389	T1326	E1264	C1194	R1130	T1066	T999		R869	A807	R679	L618
ARG	D1457	L1390	R1327	A1265	Q1195	R1131	V1067	T1000	Y937	R870	T808	Q680	L619
GLU	E1458	E1391	G1328	R1266	T1196	R1133	L1068	E1001		R871	P809	R681	G620
GLN	L1459	G1392	A1329	R1267	R1197	L1134	E1069	K1002		R872	E810	D682	K621
PRO	L1460	Q1393	I1330	P1268	Y1198	R1135	Y1070	L1003	S941	L873	E811	I683	R622
GLY	G1461	T1394	D1331	K1269	G1199	K1136		T1004	F942	T943	A812	K684	V623
LYS	L1462	L1395	P1332	A1270	V1200	L1137	S1073	Q1005	S945	T944	L813	D624	D624
GLN	K1463	E1396	H1333	K1271	C1201	A1138	S1074	A1006	S846	R875	A814	Y625	Y625
ALA	N1464	K1397	Q1334	A1272	Q1202	D1139	H1075	V1007	G947	P877		S626	S626
	N1465	W1398	L1335	V1273	K1203	L1140	G1076	F1008	I946	G878		G627	G627
	V1466	L1399	L1336	I1274	C1204	E1141	A1077	K1009	T948	R879		R628	R628
	T1467	L1400	E1337	S1275	D1205	A1142	R1078	N1010	I949	T880		S629	S629
	L1468	E1401	A1338	E1276	G1206	G1143	K1079	F1011	G950	L881		V630	V630
	G1469	A1402	K1339	I1277	Y1207	L1144	D1083	E1012	I951	F882		E692	E692
	R1470	L1403	G1340	D1278	L1405	Y1145	T1084	P1019	D952	A883		L631	L631
	L1471	N1404	P1341	G1279	L1209	K1146	A1085	L1020	D953	A822		V694	V694
	L1472	E1405	E1342	V1280	S1210	R1147	A1086	M1023		R884		G634	G634
	P1473	L1406	A1343	V1281	M1211	V1148	I1087	Y1021	I956	R885		P635	P635
	A1474	R1407	V1344	R1282	A1212	L1149	A1087	M1022	P957	A887		Q636	Q636
	G1475	E1345	R1346	E1284	P1214	R1151	D1090	M1023	E958	E888		L637	L637
	T1476	Y1347	Y1347	E1285	V1215	E1152	D1090		K960	V890		V699	V699
	S1478	L1412	L1348	E1286	S1216	V1153	S1091	S1026	K961	E891		L701	L701
	D1479	T1413	V1349	E1287	I1217	E1154	G1092	G1027	Q962	D892		Q641	Q641
	F1480	V1415	E1350	E1288	A1220	V1155	Y1093	A1028	Y963			C642	C642
	V1481	A1416	E1351	L1289	V1221	L1156	L1094	R1029	L964	W895		G643	G643
	L1482	V1417	I1352	L1290	V1221	L1166	T1095	G1030	E965	A896		L704	L704
	F1483	K1418	Q1353	S1291	G1222	R1159	R1096	N1031	E966	R897		A705	A705
	P1484	P1419	K1354	V1292	I1223	L1160	K1097	P1032	A967	E398		P706	P706
	Q1485	L1420	V1355	F1293	V1224	E1161	L1098	Q1033	D968	L899		G646	G646
	L1486	L1421	V1356	V1294			V1099	Q1034	R969	I900		R647	R647
	V1487	M1422	E1295	R1357	E1231	R1164	D1100	I1035	K970	Q901		H709	H709
	G1488	G1423	V1361	S1296	P1232	Y1165	T1101	R1036	L971	L902		R710	R710
	Q1489	V1424	K1362	E1297		S1167	H1103	L1037	L972	D903		L711	L711
	K1490	T1425	L1363	G1298	L1236	K1168	H1104	G1039	Q973	V904		Q714	Q714
	T1491	K1426	L1364	F1299	T1237	D1169	E1105	L1041	I974	P905		A715	A715
	L1492	S1427	H1364	S1300	M1238		V1106	G1040	E975	Q906		F716	F716
	K1493	A1428	D1365	K1301	R1239	D1170	V1107	R1042	Q976	E907		Q717	Q717
	A1494	L1429	K1366	E1302	T1240	V1171	R1108	G1043	Y978	I785		P718	P718
	I1495	S1430	H1367	Y1303	F1241	H1173	R1109	L1044	E979	I786		V719	V719
	E1496	K1431	I1368	K1304	H1242	L1173	E1108	M1045	M980	L911		L720	L720
	E1497	K1432	E1369	L1305	T1243	L1174	A1110	Q1045	Q981	K912		W721	W721
	A1498	L1433	I1370	P1306	G1244	L1175	D1111	Q1046	G981	L913		K660	K660
	R1499	M1434	V1371	K1307	G1245	K1176	G1112	K1047	P982	L851		M661	M661
	K1500	L1435	V1372	E1308	V1246	A1177	T1113	P1048	L983	A852		E862	E862
	E1501	S1436	M1375	R1309	G1247	E1179	T1115	S1049	T984	Y916		E863	E863
	V1503	A1437	K1376	L1311	G1248	E1182	R1116	E1051	R986	I792		K664	K664
	S1439	L1312	K1377	L1312	A1249	L1183	Y1117	T1052	E987	T793		I666	I666
	E1504	F1440	Y1378	V1313	D1251	L1184	E1188	F1053	R988	Q794		L728	L728
LYS	Q1441	Q1441	V1379	K1314	T1252	E1185	T1118		Y989	I857		H729	H729
GLU	N1442	T1443	E1380	D1315	T1253	V1186	F1123	V1057	Y989	K921		P730	P730
ARG	Q1443	T1443	V1381	G1316	L1256	P1187	F1123	S1059	D990	L920		L731	L731
PRO	ARG	ARG	T1382	D1317	L1257	L1188	Q1124	S1059	Q991	Q923		V732	V732
ALA	ALA	ALA	D1383	V1318	P1257	V1188	Q1124	S1059	Q991	Q923		C733	C733
ALA	T1447	T1447	P1384	V1319	R1258	A1189	F1125	F1061	Q994	A926		K671	K671
ARG	E1448	E1448	G1385	E1320	V1259	S1190	D1126	E1062	L995	T865		A673	A673
GLY			D1386		P1324	L1192	E1127	E1063	W996	L804		R674	R674
			S1387		L1262		V1128	G1064	T997	D932		M675	M675
												D739	D739

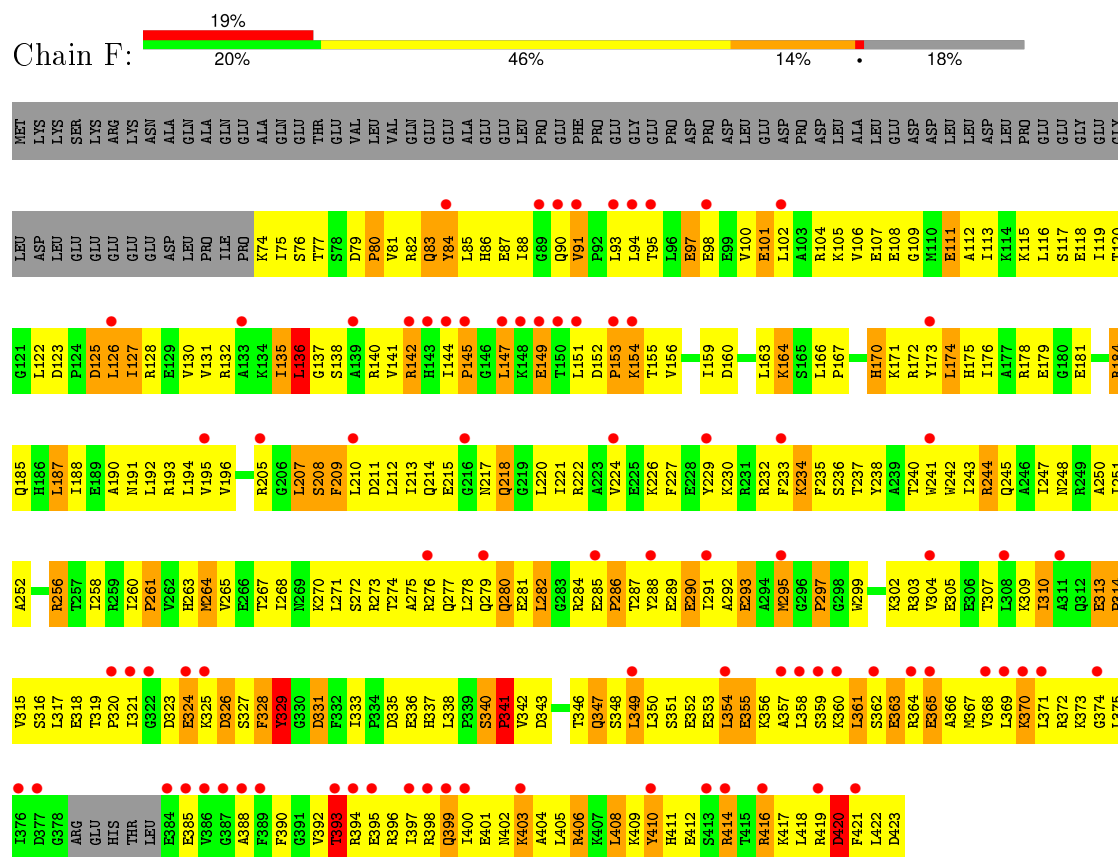
Chain E:



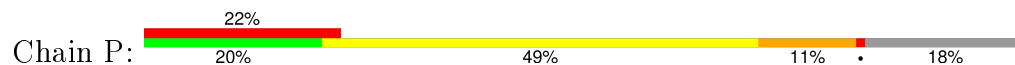
Chain O:



Chain F:



Chain P:



K373	E313	I251	L187	L126	LEU	MET
G374	F314	Q254	I188	I127	ASP	LYS
L376	V315	Q255	E189	R128	LEU	LYS
L377	S316	A255	A190	E129	GLU	SER
D377	L317	R256	N191	V130	GLU	LYS
G378	E318	T257	L192	V131	GLU	ARG
ARG	T319	I258	R193	R132	GLU	LYS
GLU	F320	R259	L194	A133	GLU	ASN
HIS	I321	I260	V195	K134	ASP	ALA
THR	G322	P261	V196	I135	LEU	ALA
LEU	D323	V262	S197	L136	PRO	ALA
E384	E324	H263	G137	I137	ILE	GLN
E385	K325	M264	K200	S138	PRO	GLU
V386	D326	V265	K201	A139	K74	ALA
G387	S327	E266	Y202	R140	I75	GLN
A388	F328	T267	G204	T203	S76	GLU
F389	Y329	I268	G204	R142	T77	THR
F390	G330	N269	S208	H143		GLU
G391	D331	K270	F209	I144		VAL
V392	F332	L271	L210	P145		LEU
T393	I333	S272	D211	G146		VAL
R394	F334	R273	L212	L147		GLN
E395	D335	T274	I213	T150		GLU
R396	E336	A275	E215	L151		ALA
I397	R337	R276	G216	D152		GLU
R398	L338	Q277	E215	P153		GLU
Q399	F339	L278	N217	I158		LEU
I400	S340	Q279	K218	I159		LEU
E401	P341	Q280	T155	Q161		GLU
M402	V342	E281	G219	K162		PRO
K403	D343	L282	I220	E157		PRO
A404	A344	G283	I221	P32		PHE
L405	A345	R284	R222	L93		PRO
R406	T346	E285	A223	L94		GLU
K407	Q347	P286	V224	T95		GLY
L408	S348	T287	E225	L96		GLU
L409	I349	Y288	K226	E97		GLU
Y410	L350	E289	F227	E98		PRO
H411	S351	E290	E228	E99		PRO
E412	E352	I291	Y229	V100		ASP
S413	E353	A292	K230	E101		LEU
R414	L354	E293	R231	L102		GLU
T415	E355	A294	R232	A103		ASP
R416	K356	M295	F233	R104		PRO
K417	A357	G296	K234	K105		ASP
L418	L358	G297	F235	V106		ASP
R419	S359	G298	S236	E107		LEU
D420	K360	W299	T237	E108		ALA
L422	L361	S362	Y238	H175		LEU
D423	S362	E363	A239	I176		ASP
	R364	V304	T240	A177		LEU
	E365	E305	W241	R178		LEU
	A366	E306	W242	E118		ASP
	N367	T307	I243	I119		LEU
	V368	L308	Q245	T120		PRO
	L369	K309	A246	G121		GLU
	R370	I310	I247	L122		GLU
	L371	A311	N248	D123		GLY
	R372	Q312		P124		GLY

4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.50 24.85 – 2.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.50) 92.6 (24.85-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 2.50Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.230 , 0.267 0.336 , 0.362	Depositor DCC
R_{free} test set	29710 reflections (6.10%)	DCC
Wilson B-factor (Å ²)	47.8	Xtriage
Anisotropy	0.214	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 80.8	EDS
Estimated twinning fraction	0.499 for -h,-k,l 0.076 for h,-h-k,-l 0.076 for -k,-h,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Outliers	0 of 517107 reflections	Xtriage
F_o, F_c correlation	0.84	EDS
Total number of atoms	60572	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.14% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	0.81	1/1838 (0.1%)	0.88	4/2498 (0.2%)
1	B	0.74	0/1838	0.81	2/2498 (0.1%)
1	K	0.75	0/1838	0.86	3/2498 (0.1%)
1	L	0.73	1/1838 (0.1%)	0.80	2/2498 (0.1%)
2	C	0.83	2/8997 (0.0%)	0.89	7/12164 (0.1%)
2	M	0.81	0/8997	0.88	8/12164 (0.1%)
3	D	0.84	0/10975	0.94	20/14836 (0.1%)
3	N	0.82	0/10975	0.92	17/14836 (0.1%)
4	E	0.84	0/783	0.94	0/1054
4	O	0.82	0/783	0.96	2/1054 (0.2%)
5	F	0.74	0/2812	0.82	4/3781 (0.1%)
5	P	0.71	0/2812	0.80	1/3781 (0.0%)
All	All	0.81	4/54486 (0.0%)	0.89	70/73662 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	48	ILE	C-N	6.06	1.45	1.34
1	L	172	SER	N-CA	-5.43	1.35	1.46
2	C	792	VAL	CB-CG1	-5.28	1.41	1.52
2	C	393	GLN	CD-OE1	5.25	1.35	1.24

All (70) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1389	LEU	CA-CB-CG	8.13	133.99	115.30
1	K	211	LEU	CA-CB-CG	8.11	133.95	115.30
1	B	138	LEU	CA-CB-CG	7.70	133.00	115.30
1	A	192	LEU	CA-CB-CG	7.60	132.79	115.30
3	D	199	LEU	CA-CB-CG	-7.59	97.84	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	243	ARG	C-N-CD	-7.50	104.10	120.60
5	F	354	LEU	CA-CB-CG	7.15	131.75	115.30
3	N	705	ALA	C-N-CD	7.06	143.23	128.40
4	O	31	LEU	CA-CB-CG	7.06	131.53	115.30
3	D	1395	LEU	CA-CB-CG	6.81	130.96	115.30
1	A	90	LEU	CA-CB-CG	-6.79	99.68	115.30
3	N	199	LEU	CA-CB-CG	-6.78	99.71	115.30
3	N	1389	LEU	CA-CB-CG	6.77	130.87	115.30
2	M	571	LEU	CA-CB-CG	6.55	130.37	115.30
2	M	165	LEU	C-N-CD	-6.53	106.22	120.60
3	N	1312	LEU	CA-CB-CG	6.47	130.17	115.30
3	D	80	VAL	C-N-CA	6.43	137.77	121.70
5	P	136	LEU	CA-CB-CG	6.33	129.87	115.30
3	D	705	ALA	C-N-CD	6.30	141.63	128.40
1	K	115	LEU	CA-CB-CG	6.14	129.42	115.30
3	N	76	CYS	CA-CB-SG	6.09	124.96	114.00
3	D	73	CYS	CA-CB-SG	6.05	124.89	114.00
3	D	567	ILE	CG1-CB-CG2	-6.02	98.16	111.40
3	N	80	VAL	C-N-CA	5.96	136.59	121.70
3	N	82	LYS	C-N-CA	-5.91	106.93	121.70
2	C	620	LEU	CA-CB-CG	5.91	128.89	115.30
2	C	88	LEU	CA-CB-CG	5.89	128.85	115.30
3	N	209	ARG	N-CA-C	5.88	126.89	111.00
1	B	36	LEU	CA-CB-CG	5.79	128.60	115.30
3	N	1209	LEU	N-CA-C	-5.76	95.43	111.00
3	N	171	LEU	CA-CB-CG	5.76	128.55	115.30
1	K	2	LEU	CA-CB-CG	5.73	128.47	115.30
3	D	153	LEU	CA-CB-CG	5.72	128.45	115.30
3	D	1209	LEU	N-CA-C	-5.68	95.66	111.00
3	D	637	LEU	CA-CB-CG	5.65	128.30	115.30
1	A	127	LEU	CA-CB-CG	5.64	128.27	115.30
3	D	80	VAL	CA-C-N	-5.56	104.96	117.20
3	D	238	PRO	N-CA-CB	5.55	109.97	103.30
3	N	380	GLU	N-CA-C	-5.55	96.01	111.00
3	D	60	CYS	CA-CB-SG	5.53	123.95	114.00
2	M	100	LEU	CA-CB-CG	5.50	127.94	115.30
5	F	136	LEU	CA-CB-CG	5.49	127.92	115.30
3	D	208	PRO	CA-N-CD	-5.46	103.86	111.50
3	D	380	GLU	N-CA-C	-5.41	96.39	111.00
3	D	209	ARG	N-CA-C	5.41	125.59	111.00
3	N	80	VAL	CA-C-N	-5.38	105.36	117.20
2	M	728	HIS	N-CA-C	5.36	125.48	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	243	ARG	C-N-CD	-5.35	108.83	120.60
3	D	813	LEU	CA-CB-CG	5.33	127.57	115.30
1	L	132	LEU	CA-CB-CG	5.31	127.52	115.30
5	F	361	LEU	CA-CB-CG	5.30	127.48	115.30
1	L	171	PHE	C-N-CA	-5.27	108.53	121.70
3	D	248	PRO	N-CA-CB	5.25	109.60	103.30
3	D	708	LEU	CA-CB-CG	-5.25	103.23	115.30
3	D	1468	LEU	CA-CB-CG	5.22	127.31	115.30
2	M	207	LEU	CA-CB-CG	5.21	127.28	115.30
3	N	554	LEU	CA-CB-CG	5.20	127.27	115.30
2	C	165	LEU	C-N-CD	-5.20	109.16	120.60
2	C	737	LEU	CA-CB-CG	5.17	127.20	115.30
5	F	91	VAL	C-N-CD	5.12	139.15	128.40
4	O	49	GLN	N-CA-C	5.12	124.81	111.00
3	N	208	PRO	CA-N-CD	-5.11	104.34	111.50
2	C	728	HIS	N-CA-C	5.11	124.79	111.00
3	N	238	PRO	N-CA-CB	5.11	109.43	103.30
1	A	115	LEU	CA-CB-CG	5.08	127.00	115.30
2	M	58	ASP	C-N-CA	5.08	134.39	121.70
2	M	285	LEU	CA-CB-CG	5.08	126.98	115.30
2	C	917	LEU	CA-CB-CG	-5.04	103.70	115.30
3	N	248	PRO	N-CA-CB	5.04	109.35	103.30
3	N	637	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	232	0
1	B	1806	0	1861	216	0
1	K	1806	0	1861	173	0
1	L	1806	0	1861	186	0
2	C	8829	0	8933	1215	0
2	M	8829	0	8933	1174	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	10797	0	10873	1490	0
3	N	10797	0	10873	1288	0
4	E	769	0	775	89	0
4	O	769	0	775	95	0
5	F	2771	0	2844	346	0
5	P	2771	0	2844	352	0
6	A	33	0	0	0	0
6	B	21	0	0	0	0
6	C	73	0	0	0	0
6	D	106	0	0	0	0
6	E	5	0	0	0	0
6	F	28	0	0	0	0
6	K	19	0	0	0	0
6	L	17	0	0	0	0
6	M	65	0	0	0	0
6	N	92	0	0	0	0
6	O	8	0	0	0	0
6	P	20	0	0	0	0
7	C	63	0	62	6	0
7	M	63	0	62	7	0
8	D	2	0	0	0	0
8	N	2	0	0	0	0
9	A	239	0	0	50	0
9	B	258	0	0	46	0
9	C	979	0	0	224	0
9	D	1252	0	0	277	0
9	E	117	0	0	28	0
9	F	420	0	0	94	0
9	K	183	0	0	39	0
9	L	219	0	0	46	0
9	M	998	0	0	249	0
9	N	1265	0	0	250	0
9	O	108	0	0	26	0
9	P	361	0	0	78	0
All	All	60572	0	54418	6470	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 60.

All (6470) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.07	1.11
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.13	1.11
3:D:1087:ARG:HG2	3:D:1234:THR:HA	1.27	1.07
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.36	1.05
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.16	1.05
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.41	1.03
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.24	1.02
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.37	1.02
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.24	1.02
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.39	1.01
3:N:783:ARG:HH21	3:N:1029:ARG:HD3	1.26	1.01
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.42	1.00
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.42	1.00
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.40	1.00
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.43	1.00
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.26	0.99
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.43	0.99
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.45	0.99
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.28	0.98
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.45	0.98
2:C:724:ARG:HG3	2:C:741:GLY:H	1.27	0.97
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.45	0.97
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.45	0.97
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.26	0.97
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.47	0.97
1:L:88:ARG:HH11	1:L:88:ARG:HB3	1.29	0.96
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.45	0.96
2:M:905:ILE:HD12	2:M:905:ILE:H	1.31	0.95
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.48	0.95
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.47	0.95
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.49	0.95
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.47	0.94
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.46	0.94
2:C:413:LEU:HD21	2:C:448:ASN:HD21	1.31	0.94
3:D:119:SER:HB2	3:D:123:LEU:H	1.32	0.94
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.46	0.94
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.31	0.94
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.49	0.94
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.50	0.94
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.47	0.94
3:N:1210:SER:HA	9:N:9537:HOH:O	1.68	0.94
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.50	0.94
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.33	0.94
2:M:1018:GLN:HE21	2:M:1060:ILE:HD11	1.28	0.94
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.50	0.94
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.32	0.93
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.47	0.93
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.48	0.93
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.51	0.93
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.48	0.93
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.51	0.92
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.52	0.92
3:N:1314:LYS:HZ2	3:N:1314:LYS:H	1.17	0.92
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.50	0.92
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.52	0.92
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.49	0.91
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.49	0.91
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.51	0.91
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.36	0.91
2:C:328:LEU:HD13	2:C:433:THR:HB	1.51	0.90
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.53	0.90
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.36	0.90
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.35	0.90
2:M:791:ARG:HB3	9:M:9759:HOH:O	1.71	0.90
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.53	0.90
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.52	0.90
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.54	0.90
2:M:979:THR:HG23	2:M:981:GLU:H	1.37	0.90
3:D:41:ARG:HD3	3:D:42:ASP:H	1.37	0.89
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.53	0.89
2:C:93:PRO:HA	9:C:9729:HOH:O	1.71	0.89
3:D:1326:THR:HA	9:D:9756:HOH:O	1.71	0.89
3:D:871:LYS:HE3	3:D:873:LEU:HD21	1.54	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.55	0.89
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.54	0.88
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.55	0.88
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.36	0.88
2:M:964:LYS:O	2:M:968:LEU:HG	1.72	0.88
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.54	0.88
2:C:860:HIS:HB2	9:C:9519:HOH:O	1.72	0.88
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.54	0.88
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.55	0.88
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.56	0.88
2:C:671:ASN:ND2	2:C:671:ASN:H	1.70	0.88
2:C:979:THR:HG23	2:C:981:GLU:H	1.39	0.88
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.52	0.88
3:D:572:ARG:HH21	5:F:83:GLN:HE21	1.21	0.88
3:D:973:GLN:HA	3:D:976:GLN:HE21	1.34	0.88
3:N:978:TYR:HA	9:N:9888:HOH:O	1.72	0.87
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.56	0.87
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.55	0.87
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.54	0.87
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.54	0.87
2:C:945:ARG:HH11	2:C:945:ARG:HB3	1.37	0.87
2:M:144:PRO:HA	2:M:163:ILE:HG12	1.57	0.87
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.90	0.87
2:C:724:ARG:HH12	2:C:734:LEU:HD23	1.37	0.87
2:C:671:ASN:HD22	2:C:671:ASN:N	1.71	0.86
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.57	0.86
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.55	0.86
1:A:95:GLN:HA	1:A:146:ARG:NH1	1.88	0.86
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.57	0.86
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.58	0.86
2:C:671:ASN:H	2:C:671:ASN:HD22	0.91	0.86
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.38	0.86
3:D:57:GLU:HG3	3:D:64:LYS:HG2	1.57	0.86
2:M:165:LEU:O	2:M:265:ARG:HB2	1.76	0.86
1:L:112:ARG:HB3	1:L:112:ARG:HH11	1.38	0.86
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.55	0.85
3:N:119:SER:HB2	3:N:123:LEU:H	1.39	0.85
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.55	0.85
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.58	0.85
1:A:67:THR:HA	9:A:9598:HOH:O	1.75	0.85
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.58	0.85
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.57	0.85
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.58	0.85
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.39	0.85
2:M:134:ARG:HH21	2:M:393:GLN:HA	1.41	0.85
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.59	0.85
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.41	0.85
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.59	0.84
4:E:85:LEU:HA	9:E:9594:HOH:O	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.59	0.84
5:F:101:GLU:HA	9:F:9749:HOH:O	1.76	0.84
5:P:358:LEU:HD13	5:P:370:LYS:HG3	1.57	0.84
3:N:1380:GLU:HB3	3:N:1418:LYS:HG3	1.59	0.84
2:C:1005:MET:HB3	3:D:724:GLN:HE22	1.43	0.84
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.42	0.84
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	1.92	0.84
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.58	0.84
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.58	0.84
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.43	0.84
3:N:565:ILE:H	3:N:565:ILE:HD12	1.41	0.84
2:M:1038:TRP:HE1	3:N:1463:LYS:HZ1	1.24	0.84
2:M:589:ARG:HB2	2:M:589:ARG:HH11	1.42	0.83
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.58	0.83
3:D:86:ARG:O	3:D:522:PRO:HD2	1.77	0.83
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.59	0.83
3:N:168:THR:HG22	3:N:170:PRO:HD2	1.61	0.83
2:C:656:ALA:HB3	9:C:2223:HOH:O	1.79	0.83
3:N:785:ILE:HD12	3:N:785:ILE:H	1.42	0.83
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.60	0.83
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.59	0.83
2:C:524:VAL:HG13	2:C:528:GLU:HB2	1.61	0.83
1:A:178:ALA:HB3	1:A:198:ARG:HG3	1.59	0.82
3:D:513:ILE:HG23	9:D:9966:HOH:O	1.77	0.82
5:F:191:ASN:HA	5:F:194:LEU:HD23	1.59	0.82
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.60	0.82
2:C:943:VAL:HG23	2:C:985:GLY:H	1.43	0.82
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.79	0.82
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.60	0.82
3:D:209:ARG:HD2	3:D:210:ARG:HG2	1.62	0.82
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.61	0.82
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.60	0.82
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.62	0.82
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.62	0.82
2:M:51:THR:HG21	9:M:2064:HOH:O	1.80	0.82
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.59	0.82
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.61	0.82
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.43	0.82
3:N:796:ARG:HH11	3:N:861:GLN:HB2	1.44	0.82
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.60	0.82
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.59	0.82
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.62	0.81
3:N:165:LYS:HB3	3:N:395:VAL:HG11	1.60	0.81
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.62	0.81
3:D:699:VAL:H	3:D:756:GLN:NE2	1.77	0.81
3:D:1465:ASN:HD21	3:D:1470:ARG:HH11	1.25	0.81
1:A:133:GLU:HG2	1:A:134:GLU:H	1.46	0.81
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.62	0.81
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.62	0.81
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.60	0.81
2:M:436:GLY:HA2	2:M:538:GLN:O	1.78	0.81
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.62	0.81
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.60	0.81
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.60	0.81
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.61	0.81
2:M:707:ARG:HH12	2:M:709:GLU:HB2	1.44	0.81
3:D:73:CYS:HB3	3:D:76:CYS:O	1.81	0.81
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.44	0.81
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.62	0.81
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.46	0.81
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.62	0.81
2:C:244:PRO:HD2	2:C:245:GLY:H	1.46	0.81
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.61	0.81
2:C:10:ARG:HH11	2:C:10:ARG:HA	1.45	0.80
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.61	0.80
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.63	0.80
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.62	0.80
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.62	0.80
3:D:152:LEU:H	3:D:152:LEU:HD23	1.44	0.80
2:M:227:PHE:HA	2:M:230:ARG:HE	1.46	0.80
2:M:890:LEU:HD12	2:M:914:ILE:HD13	1.61	0.80
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.62	0.80
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.81	0.80
3:D:1359:GLN:HB3	9:D:9531:HOH:O	1.81	0.80
3:D:720:LEU:HD12	3:D:720:LEU:H	1.47	0.80
3:D:487:ALA:HB3	9:D:9629:HOH:O	1.81	0.80
3:D:584:ASN:HD22	3:D:585:GLY:N	1.80	0.80
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.64	0.80
3:D:550:ARG:HA	9:D:9572:HOH:O	1.80	0.80
2:M:728:HIS:HB3	2:M:729:LEU:HD12	1.64	0.80
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:24:VAL:HG22	1:K:196:THR:HB	1.64	0.80
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.62	0.80
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.46	0.80
3:D:153:LEU:HD12	3:D:154:THR:N	1.97	0.80
5:P:94:LEU:HB2	5:P:98:GLU:HG3	1.64	0.79
3:N:86:ARG:O	3:N:522:PRO:HD2	1.81	0.79
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.64	0.79
3:D:397:LYS:HG2	9:D:9991:HOH:O	1.82	0.79
1:L:214:ALA:HA	1:L:217:ILE:HD12	1.64	0.79
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.65	0.79
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.64	0.79
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.63	0.79
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.17	0.79
3:D:704:ARG:HE	3:D:705:ALA:H	1.28	0.79
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.64	0.79
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.47	0.79
3:D:41:ARG:HH11	3:D:42:ASP:HB2	1.47	0.79
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.64	0.79
1:K:227:ASN:HD22	1:K:227:ASN:H	1.30	0.79
2:M:676:ILE:HD12	2:M:871:LEU:HB2	1.63	0.79
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.64	0.79
3:D:697:GLY:HA2	9:D:2528:HOH:O	1.83	0.79
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.65	0.78
2:M:333:ILE:HB	9:M:9987:HOH:O	1.84	0.78
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.47	0.78
3:D:400:VAL:HG21	3:D:441:ARG:HH11	1.49	0.78
3:D:9:ARG:HH12	3:D:506:GLY:HA2	1.48	0.78
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.64	0.78
3:N:628:ARG:HD3	3:N:744:GLN:NE2	1.97	0.78
2:M:326:ASP:HA	2:M:331:ARG:HD3	1.64	0.78
2:C:690:ILE:HG23	2:C:852:ILE:HG23	1.64	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.65	0.78
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.65	0.78
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.65	0.78
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.66	0.78
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.49	0.78
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.66	0.78
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.13	0.78
1:L:13:VAL:HG11	1:L:208:LEU:HD11	1.65	0.78
2:C:455:LEU:HD12	2:C:459:ALA:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.65	0.78
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.84	0.78
2:M:250:ARG:HG2	2:M:253:ALA:HB3	1.66	0.78
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.65	0.78
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.65	0.78
2:M:724:ARG:HG3	2:M:741:GLY:H	1.49	0.78
1:K:123:MET:HG2	9:K:3485:HOH:O	1.82	0.78
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.64	0.78
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.66	0.77
2:M:833:LEU:HD11	2:M:849:VAL:HG21	1.65	0.77
2:M:879:ARG:HH12	3:N:1029:ARG:NH2	1.83	0.77
2:M:771:GLU:O	2:M:775:ARG:HG2	1.85	0.77
5:F:117:SER:HA	9:F:9599:HOH:O	1.84	0.77
2:C:41:ASN:H	2:C:41:ASN:HD22	1.29	0.77
1:A:198:ARG:HG2	9:A:9490:HOH:O	1.85	0.77
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.66	0.77
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.66	0.77
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.66	0.77
3:N:53:ILE:HG23	3:N:54:LYS:H	1.48	0.77
1:A:133:GLU:HG2	1:A:134:GLU:N	2.00	0.77
3:N:35:ARG:HD2	3:N:36:THR:H	1.47	0.77
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.15	0.77
2:C:405:ARG:HH12	2:C:563:ASN:ND2	1.83	0.77
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.50	0.77
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.66	0.77
1:A:126:ASP:HB2	9:A:9492:HOH:O	1.85	0.77
5:P:132:ARG:HH11	5:P:136:LEU:HD21	1.50	0.77
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.48	0.77
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.66	0.77
3:N:488:ARG:HB3	3:N:488:ARG:NH1	2.00	0.77
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.67	0.77
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.66	0.77
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.19	0.77
3:N:1277:ILE:HA	9:N:9881:HOH:O	1.84	0.77
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	1.99	0.77
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.67	0.77
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.66	0.77
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.65	0.77
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.66	0.77
3:D:1236:LEU:HD11	3:D:1356:TYR:HE1	1.49	0.77
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:67:ARG:HB2	5:P:375:LEU:HD11	1.66	0.76
3:D:1311:LEU:HA	9:D:9756:HOH:O	1.85	0.76
5:F:136:LEU:HD11	9:F:9565:HOH:O	1.84	0.76
2:C:903:SER:HA	9:C:2024:HOH:O	1.84	0.76
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.48	0.76
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.65	0.76
2:M:332:ARG:HD3	9:M:9675:HOH:O	1.86	0.76
1:L:206:THR:HG22	1:L:209:GLU:H	1.49	0.76
2:M:997:LEU:HG	9:M:9828:HOH:O	1.83	0.76
3:N:217:LYS:HA	9:N:2156:HOH:O	1.85	0.76
3:D:194:GLY:H	3:D:206:ARG:HA	1.50	0.76
3:D:133:ILE:HG23	3:D:456:MET:SD	2.26	0.76
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.67	0.76
1:K:178:ALA:HB3	1:K:198:ARG:HG3	1.66	0.76
1:L:205:VAL:HG23	9:L:3448:HOH:O	1.85	0.76
1:A:110:LYS:HG3	9:A:9494:HOH:O	1.86	0.76
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.68	0.76
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.66	0.76
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.49	0.76
5:F:75:ILE:HG22	9:F:9601:HOH:O	1.85	0.76
3:D:1175:ILE:O	3:D:1179:GLU:HG3	1.86	0.76
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.68	0.76
2:M:420:ARG:HD2	2:M:420:ARG:H	1.50	0.76
3:N:422:ALA:H	3:N:427:VAL:HG11	1.51	0.76
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.67	0.76
3:N:6:ARG:HH11	3:N:6:ARG:HB3	1.51	0.76
1:L:152:PRO:HD2	1:L:155:LYS:HG3	1.66	0.76
3:D:904:VAL:HG22	9:D:2047:HOH:O	1.84	0.76
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.66	0.76
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.68	0.76
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.65	0.75
5:F:261:PRO:O	5:F:264:MET:HG2	1.86	0.75
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.69	0.75
9:M:2201:HOH:O	4:O:31:LEU:HB2	1.86	0.75
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.68	0.75
3:D:956:ILE:HG12	3:D:1039:CYS:O	1.85	0.75
2:M:952:LEU:HD12	2:M:969:GLN:NE2	1.97	0.75
5:F:76:SER:O	5:F:80:PRO:HD2	1.86	0.75
2:M:396:ASP:HA	2:M:633:GLN:HE22	1.51	0.75
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.52	0.75
2:M:49:ARG:HA	9:M:9640:HOH:O	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:691:SER:HB2	2:M:858:MET:SD	2.27	0.75
3:N:192:ALA:O	3:N:195:VAL:HG23	1.85	0.75
5:F:93:LEU:HG	5:F:190:ALA:CB	2.16	0.75
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.67	0.75
2:M:1097:LEU:H	2:M:1097:LEU:HD13	1.51	0.75
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.67	0.75
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.86	0.75
9:C:9697:HOH:O	4:E:28:GLN:HA	1.87	0.75
2:M:517:ARG:HE	2:M:522:VAL:HG11	1.50	0.75
3:D:422:ALA:H	3:D:427:VAL:HG11	1.52	0.75
2:M:598:GLU:O	2:M:651:LYS:HG3	1.87	0.75
5:F:120:THR:HB	9:F:9599:HOH:O	1.87	0.75
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.69	0.75
3:D:65:ARG:HG3	3:D:66:GLN:H	1.49	0.75
1:L:24:VAL:HG12	9:L:3467:HOH:O	1.86	0.75
3:D:478:LEU:HD13	3:D:1388:ARG:HH22	1.52	0.75
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.67	0.75
2:M:736:ASP:O	2:M:744:ARG:HG2	1.87	0.74
2:M:943:VAL:HG23	2:M:985:GLY:H	1.52	0.74
3:D:965:GLU:HG3	3:D:969:ARG:HH21	1.51	0.74
2:M:1038:TRP:HE1	3:N:1463:LYS:NZ	1.85	0.74
2:C:10:ARG:HA	2:C:10:ARG:NH1	2.03	0.74
3:D:890:VAL:HA	9:D:9911:HOH:O	1.87	0.74
3:N:468:LEU:HB3	9:N:9663:HOH:O	1.87	0.74
2:C:186:VAL:HG23	2:C:187:ASN:H	1.51	0.74
1:A:101:LEU:HG	1:A:114:PHE:HA	1.70	0.74
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.02	0.74
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.69	0.74
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.86	0.74
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.68	0.74
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.69	0.74
2:C:1054:THR:HG23	2:C:1082:PRO:HG3	1.70	0.74
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.67	0.74
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.53	0.74
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.52	0.74
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.70	0.74
2:C:132:ALA:HB1	2:C:632:ASN:HD21	1.53	0.74
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.69	0.74
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.68	0.74
2:C:282:GLY:HA2	2:C:308:ARG:HH12	1.53	0.74
1:A:177:VAL:HG12	9:A:9593:HOH:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1062:ARG:HG3	9:N:9910:HOH:O	1.87	0.74
2:C:144:PRO:HG2	2:C:265:ARG:HH12	1.52	0.74
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.70	0.74
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.88	0.74
2:C:768:THR:HB	2:C:771:GLU:HB3	1.70	0.74
2:C:72:ARG:HG2	9:C:9760:HOH:O	1.86	0.74
2:M:64:LEU:HA	9:M:9656:HOH:O	1.86	0.74
2:C:500:ASN:HD21	3:D:1067:VAL:HG23	1.52	0.74
5:P:92:PRO:HA	9:P:4361:HOH:O	1.87	0.74
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.69	0.74
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.86	0.74
3:D:1087:ARG:HD3	3:D:1090:ASP:HB2	1.70	0.74
5:F:191:ASN:HB2	9:F:9537:HOH:O	1.87	0.74
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.70	0.74
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.53	0.74
2:M:786:LYS:HA	9:M:9505:HOH:O	1.87	0.74
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.53	0.74
1:B:20:TYR:HB3	9:B:9501:HOH:O	1.87	0.74
2:C:117:HIS:HA	9:C:9729:HOH:O	1.87	0.73
1:B:16:GLN:HB2	9:B:9501:HOH:O	1.89	0.73
2:C:96:ALA:HA	9:C:9760:HOH:O	1.88	0.73
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.68	0.73
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.68	0.73
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.70	0.73
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.70	0.73
3:N:12:LEU:HD23	3:N:13:ALA:H	1.53	0.73
3:D:1264:GLU:OE1	3:D:1425:THR:HB	1.88	0.73
3:N:194:GLY:H	3:N:206:ARG:HA	1.52	0.73
3:N:972:LEU:HD22	9:N:9844:HOH:O	1.88	0.73
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.53	0.73
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.89	0.73
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.70	0.73
2:C:1055:LEU:HD23	9:C:9632:HOH:O	1.87	0.73
3:N:850:LEU:H	3:N:850:LEU:HD12	1.53	0.73
5:P:256:ARG:NH1	5:P:313:GLU:HG2	2.03	0.73
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.73
3:D:704:ARG:NE	3:D:705:ALA:H	1.86	0.73
3:N:399:ARG:HG3	9:N:2231:HOH:O	1.87	0.73
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	1.87	0.73
2:M:1016:ILE:HG12	9:P:5990:HOH:O	1.88	0.73
3:D:1221:VAL:HG13	9:D:9929:HOH:O	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.70	0.73
3:N:783:ARG:NH2	3:N:1029:ARG:HD3	2.02	0.73
2:M:1051:GLU:HG2	2:M:1056:LYS:HD2	1.70	0.73
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.53	0.73
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.71	0.73
2:C:233:GLU:OE1	2:C:237:ARG:HD3	1.89	0.73
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.69	0.73
3:D:544:TYR:O	3:D:548:ILE:HG12	1.88	0.73
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.24	0.73
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.89	0.73
3:D:6:ARG:HH11	3:D:6:ARG:HB3	1.51	0.73
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.70	0.73
1:K:103:ALA:HB1	1:K:107:LYS:HD3	1.69	0.73
1:A:42:ARG:NH2	1:B:34:VAL:HB	2.04	0.73
1:B:185:ARG:HG3	1:B:190:THR:HG23	1.71	0.73
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.69	0.73
3:D:920:LEU:HB2	9:D:9488:HOH:O	1.88	0.73
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.73
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.69	0.73
2:M:710:ILE:HB	2:M:790:LEU:HD12	1.71	0.73
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.53	0.73
2:C:1008:ARG:NH1	2:C:1020:PRO:HB3	2.04	0.73
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.71	0.73
5:F:416:ARG:HB3	9:F:9582:HOH:O	1.89	0.73
5:P:234:LYS:HG3	9:P:3697:HOH:O	1.88	0.73
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.89	0.73
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.71	0.72
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.04	0.72
1:A:14:ARG:NH2	1:A:22:GLU:HB3	2.04	0.72
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.23	0.72
2:M:948:GLU:HA	9:M:9767:HOH:O	1.88	0.72
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.69	0.72
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.69	0.72
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.04	0.72
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.04	0.72
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.87	0.72
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.54	0.72
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.88	0.72
2:M:651:LYS:HA	9:M:9639:HOH:O	1.89	0.72
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.71	0.72
3:D:662:GLU:HB2	9:D:9514:HOH:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:215:TYR:O	3:D:389:GLU:HB2	1.88	0.72
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.70	0.72
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.70	0.72
2:M:71:TYR:HD2	2:M:71:TYR:H	1.36	0.72
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.72	0.72
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.71	0.72
1:A:175:ARG:NH2	1:A:202:ASP:HA	2.04	0.72
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.24	0.72
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.89	0.72
3:N:885:ILE:HG13	9:N:9868:HOH:O	1.89	0.72
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.54	0.72
2:M:165:LEU:HB2	9:M:9535:HOH:O	1.89	0.72
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.70	0.72
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.72	0.72
2:C:478:VAL:HA	2:C:506:ASN:O	1.90	0.72
1:A:145:ASP:HB3	9:A:9484:HOH:O	1.90	0.72
3:N:65:ARG:HG3	3:N:66:GLN:H	1.53	0.72
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.00	0.72
2:M:897:LEU:HG	2:M:920:GLN:NE2	2.04	0.72
2:C:993:PHE:HE1	2:C:995:MET:HG2	1.53	0.72
3:N:1090:ASP:HA	3:N:1093:TYR:HB2	1.72	0.72
3:N:996:TRP:HA	3:N:999:THR:HG22	1.72	0.72
4:O:51:LEU:HD12	4:O:52:GLU:H	1.55	0.72
3:N:212:ARG:HA	9:N:2226:HOH:O	1.90	0.72
3:D:842:VAL:HG23	9:D:2618:HOH:O	1.89	0.72
3:N:601:ARG:HG2	3:N:606:ILE:HD13	1.72	0.72
1:B:36:LEU:O	1:B:39:PRO:HD2	1.89	0.72
2:M:679:PHE:HB3	9:M:9536:HOH:O	1.87	0.72
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.55	0.72
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.71	0.72
2:C:8:ARG:HG2	9:C:9597:HOH:O	1.89	0.72
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.71	0.72
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.25	0.72
2:M:139:GLN:HB3	2:M:334:ARG:HD2	1.71	0.72
3:D:1292:VAL:HG23	3:D:1305:LEU:HD11	1.71	0.72
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.72	0.72
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.72	0.72
3:D:41:ARG:HD3	3:D:42:ASP:N	2.05	0.72
1:A:42:ARG:HH11	2:C:978:ARG:HA	1.55	0.72
3:N:1382:THR:HG21	3:N:1418:LYS:NZ	2.05	0.72
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.50	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:210:GLU:HA	9:M:2282:HOH:O	1.90	0.72
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.54	0.72
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.54	0.72
3:D:978:TYR:HA	9:D:9513:HOH:O	1.89	0.72
3:D:723:GLY:HA3	9:D:9551:HOH:O	1.90	0.72
2:C:833:LEU:HD12	2:C:834:GLN:H	1.54	0.72
3:N:119:SER:H	3:N:123:LEU:HD22	1.54	0.71
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.72	0.71
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.72	0.71
2:C:108:ILE:HB	2:C:368:THR:OG1	1.88	0.71
5:P:178:ARG:HD3	9:P:3512:HOH:O	1.87	0.71
2:C:504:GLU:HG2	9:C:9601:HOH:O	1.89	0.71
2:M:546:LEU:HD11	2:M:666:LEU:HD23	1.71	0.71
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.70	0.71
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.72	0.71
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.21	0.71
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.70	0.71
1:A:49:PRO:HB3	1:A:148:VAL:HG22	1.71	0.71
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.71	0.71
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.72	0.71
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.72	0.71
3:D:534:ARG:HD3	9:F:9549:HOH:O	1.90	0.71
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.73	0.71
3:D:178:LEU:HD11	9:D:9843:HOH:O	1.89	0.71
1:A:46:SER:HB3	2:C:856:GLU:HG2	1.73	0.71
2:M:1000:MET:O	2:M:1003:ASP:HB3	1.91	0.71
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.72	0.71
1:K:226:SER:O	1:K:228:PRO:HD3	1.90	0.71
2:C:15:LEU:HD12	2:C:15:LEU:H	1.55	0.71
2:M:274:ARG:HD2	2:M:285:LEU:HB3	1.73	0.71
3:N:65:ARG:HA	9:N:2129:HOH:O	1.91	0.71
3:D:982:PHE:HB3	9:D:2466:HOH:O	1.89	0.71
1:K:39:PRO:O	1:K:43:ILE:HG12	1.90	0.71
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.56	0.71
2:C:30:LEU:HB3	2:C:44:ILE:HD12	1.72	0.71
3:D:100:ALA:HB2	9:D:9966:HOH:O	1.90	0.71
2:M:772:ARG:HB2	2:M:772:ARG:HH11	1.54	0.71
1:L:24:VAL:HG13	1:L:196:THR:HB	1.73	0.71
2:M:948:GLU:HB2	9:M:9817:HOH:O	1.90	0.71
3:D:1136:LYS:HE3	3:D:1139:ASP:OD2	1.90	0.71
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.55	0.71
3:D:825:ALA:HB1	9:D:9486:HOH:O	1.91	0.71
2:M:769:PRO:HD2	9:N:2324:HOH:O	1.91	0.71
3:N:1404:ASN:HD22	3:N:1408:ILE:HD12	1.56	0.71
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.70	0.71
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.26	0.71
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.20	0.71
2:C:670:GLN:O	2:C:672:VAL:HG12	1.91	0.71
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.71	0.71
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.56	0.71
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.71	0.71
9:K:3474:HOH:O	1:L:42:ARG:HB3	1.91	0.71
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.56	0.71
2:C:352:ALA:O	2:C:356:ARG:HG3	1.91	0.71
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.73	0.71
2:C:127:PHE:HA	9:C:9502:HOH:O	1.89	0.71
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.91	0.71
3:N:962:GLN:HA	9:N:2437:HOH:O	1.90	0.71
4:E:30:LEU:O	4:E:35:PHE:HA	1.90	0.71
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.72	0.71
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.73	0.70
5:F:88:ILE:HB	9:F:9492:HOH:O	1.90	0.70
2:M:409:ARG:HH22	7:M:8002:RPT:H18	1.55	0.70
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.73	0.70
3:D:1464:GLU:HG2	9:D:2152:HOH:O	1.89	0.70
3:D:1307:LYS:HD3	3:D:1307:LYS:H	1.56	0.70
3:D:542:ASP:O	3:D:546:ARG:HG2	1.92	0.70
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.55	0.70
5:F:77:THR:O	5:F:81:VAL:HG23	1.90	0.70
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.71	0.70
3:D:756:GLN:O	3:D:760:ARG:HG2	1.91	0.70
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.73	0.70
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.06	0.70
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.71	0.70
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.56	0.70
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.72	0.70
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.71	0.70
3:N:804:LEU:HB2	3:N:830:ALA:O	1.91	0.70
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.20	0.70
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.73	0.70
2:M:151:ASP:HB2	2:M:157:ARG:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.56	0.70
1:K:19:GLU:HG3	9:K:4352:HOH:O	1.91	0.70
2:M:1014:SER:HB3	2:M:1017:THR:O	1.90	0.70
3:N:884:ARG:HD2	9:N:9868:HOH:O	1.91	0.70
3:D:233:LYS:HA	9:D:2088:HOH:O	1.90	0.70
2:C:611:ILE:HD11	2:C:641:PRO:HB3	1.73	0.70
1:B:99:LEU:HD21	1:B:122:ILE:HD11	1.72	0.70
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.73	0.70
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.74	0.70
2:M:198:ARG:HH21	2:M:203:ASP:HB3	1.56	0.70
3:D:161:LEU:HD23	3:D:449:SER:HB3	1.72	0.70
2:M:111:ASP:HA	9:M:2096:HOH:O	1.92	0.70
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.72	0.70
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	1.73	0.70
2:C:554:ASP:OD2	2:C:556:ASN:HB3	1.91	0.70
3:N:153:LEU:HD11	3:N:158:TYR:N	2.06	0.70
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.72	0.70
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.21	0.70
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.73	0.70
2:M:269:LEU:HD21	9:M:9709:HOH:O	1.90	0.70
2:M:767:PRO:HG2	9:M:2323:HOH:O	1.91	0.70
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.72	0.70
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.72	0.70
2:M:1095:LEU:HB2	2:M:1097:LEU:CD2	2.22	0.70
2:C:773:LEU:HD13	9:F:9672:HOH:O	1.91	0.70
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.74	0.70
3:N:966:GLU:HA	3:N:969:ARG:NH1	2.07	0.70
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.74	0.70
2:C:376:ARG:HH12	5:F:285:GLU:HG2	1.57	0.70
2:C:269:LEU:HD12	2:C:288:ARG:H	1.57	0.70
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.20	0.70
2:M:139:GLN:OE1	2:M:415:PRO:HD2	1.92	0.70
2:C:791:ARG:HH11	2:C:791:ARG:HB3	1.57	0.70
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.73	0.70
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.74	0.70
3:N:1033:GLN:HE21	3:N:1036:ARG:HD3	1.57	0.70
3:D:131:LYS:HE2	5:F:83:GLN:HE22	1.55	0.70
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.91	0.70
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.56	0.69
4:E:9:LEU:HD13	4:E:19:LEU:HD11	1.73	0.69
2:C:1109:VAL:HG23	3:D:3:LYS:HG2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:84:ARG:HH21	2:C:128:ILE:HD11	1.57	0.69
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.06	0.69
2:C:42:VAL:HG12	2:C:43:GLY:H	1.57	0.69
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.56	0.69
3:D:566:ILE:HG23	5:F:214:GLN:OE1	1.92	0.69
3:N:704:ARG:HD2	3:N:705:ALA:H	1.57	0.69
2:C:1000:MET:HB3	2:C:1002:GLU:HG3	1.74	0.69
3:D:1269:LYS:HB3	9:D:2348:HOH:O	1.92	0.69
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.73	0.69
2:C:94:LEU:HD11	9:C:9738:HOH:O	1.91	0.69
2:M:157:ARG:HD2	2:M:314:THR:CG2	2.21	0.69
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.56	0.69
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.06	0.69
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.73	0.69
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.74	0.69
5:F:358:LEU:HD21	5:F:370:LYS:HE3	1.74	0.69
2:M:385:PHE:HA	9:M:9823:HOH:O	1.92	0.69
2:C:420:ARG:HD3	2:C:422:ARG:HG3	1.73	0.69
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.72	0.69
3:D:100:ALA:HA	9:D:9738:HOH:O	1.91	0.69
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.75	0.69
1:K:101:LEU:HG	1:K:114:PHE:HA	1.72	0.69
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.72	0.69
2:M:1042:ALA:HB1	3:N:710:ARG:HE	1.58	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.23	0.69
5:F:131:VAL:HG12	5:F:181:GLU:HG3	1.74	0.69
3:N:152:LEU:HD23	3:N:152:LEU:H	1.58	0.69
3:N:1238:MET:HG2	3:N:1256:LEU:HD23	1.74	0.69
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.73	0.69
3:N:397:LYS:HG2	9:N:2231:HOH:O	1.91	0.69
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.75	0.69
5:P:274:THR:O	5:P:278:LEU:HG	1.92	0.69
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.26	0.69
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.07	0.69
1:K:206:THR:HG23	1:K:209:GLU:HB2	1.75	0.69
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.40	0.69
2:C:41:ASN:H	2:C:41:ASN:ND2	1.90	0.69
1:B:184:THR:HB	1:B:194:LYS:HZ3	1.55	0.69
3:D:1324:PRO:HA	9:D:9544:HOH:O	1.92	0.69
2:M:881:ASN:H	2:M:881:ASN:HD22	1.39	0.69
3:N:1057:VAL:HG23	9:N:2261:HOH:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1357:ARG:HG3	9:N:9798:HOH:O	1.93	0.69
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.75	0.69
1:L:63:HIS:HB2	9:L:3319:HOH:O	1.91	0.69
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.22	0.69
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.58	0.69
2:C:889:HIS:HE1	3:D:951:ILE:H	1.40	0.69
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.73	0.69
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.23	0.69
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.08	0.69
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.58	0.69
2:M:768:THR:HB	2:M:771:GLU:HB3	1.75	0.69
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.28	0.69
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.73	0.69
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.75	0.69
2:M:678:PRO:HD2	9:N:9516:HOH:O	1.93	0.69
3:N:905:PRO:HD3	9:N:2419:HOH:O	1.91	0.69
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.57	0.69
1:L:112:ARG:HB3	1:L:112:ARG:NH1	2.07	0.69
3:D:1139:ASP:HB3	3:D:1357:ARG:NH2	2.08	0.69
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.75	0.69
3:D:1361:VAL:HG23	9:D:9531:HOH:O	1.93	0.69
2:C:367:LEU:HB3	2:C:371:LYS:HG2	1.75	0.69
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.75	0.69
3:D:709:HIS:NE2	3:D:711:LEU:HB2	2.07	0.69
3:D:625:TYR:O	3:D:749:VAL:HG23	1.92	0.69
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.58	0.68
2:C:199:VAL:HG21	9:C:2083:HOH:O	1.92	0.68
2:M:670:GLN:O	2:M:672:VAL:HG12	1.93	0.68
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.76	0.68
3:N:793:THR:HB	3:N:879:ARG:HD3	1.74	0.68
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.02	0.68
2:C:96:ALA:HB2	9:C:9738:HOH:O	1.93	0.68
3:D:119:SER:HB2	3:D:123:LEU:N	2.06	0.68
3:N:507:ASN:HB2	9:N:9590:HOH:O	1.92	0.68
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.76	0.68
2:M:833:LEU:HD12	2:M:834:GLN:N	2.08	0.68
2:M:518:LYS:HA	9:M:9720:HOH:O	1.93	0.68
3:D:1118:ILE:HG21	3:D:1346:ARG:NH2	2.09	0.68
2:C:455:LEU:H	2:C:455:LEU:HD23	1.57	0.68
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.74	0.68
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.76	0.68
5:F:372:ARG:HB2	9:F:9526:HOH:O	1.93	0.68
5:P:315:VAL:HA	9:P:4529:HOH:O	1.93	0.68
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.08	0.68
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.58	0.68
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.75	0.68
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.74	0.68
3:D:1452:ILE:HG12	9:D:9759:HOH:O	1.93	0.68
3:N:551:ASN:HA	9:N:9830:HOH:O	1.91	0.68
1:K:61:VAL:HA	9:K:3552:HOH:O	1.94	0.68
2:M:598:GLU:HB3	9:M:9583:HOH:O	1.93	0.68
3:N:1115:THR:HG22	9:N:2569:HOH:O	1.93	0.68
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.93	0.68
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.75	0.68
3:D:528:VAL:O	3:D:535:PHE:HA	1.92	0.68
3:D:153:LEU:HD12	3:D:154:THR:H	1.57	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.76	0.68
1:K:18:ARG:O	1:K:207:PRO:HD3	1.93	0.68
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.29	0.68
1:B:115:LEU:HB2	9:B:9609:HOH:O	1.93	0.68
1:B:58:ILE:HB	1:B:61:VAL:HB	1.74	0.68
1:B:80:LEU:HD23	3:D:867:ARG:HH12	1.59	0.68
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.75	0.68
3:D:877:PRO:HA	9:D:9580:HOH:O	1.91	0.68
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.76	0.68
3:D:628:ARG:HD3	3:D:744:GLN:NE2	2.08	0.68
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.09	0.68
2:M:915:LYS:HE2	9:M:9698:HOH:O	1.93	0.68
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.74	0.68
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.76	0.68
3:D:1236:LEU:HD11	3:D:1356:TYR:CE1	2.29	0.68
3:D:538:SER:HB3	9:F:9546:HOH:O	1.92	0.68
3:D:584:ASN:HD21	3:D:589:ALA:HA	1.59	0.68
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.09	0.68
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.76	0.68
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.76	0.68
5:F:152:ASP:HA	9:F:9491:HOH:O	1.94	0.68
3:N:808:THR:HB	3:N:809:PRO:HD3	1.76	0.68
3:D:988:ARG:HD2	3:D:989:TYR:N	2.09	0.68
3:D:475:LYS:HG3	9:D:9989:HOH:O	1.92	0.68
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:432:ARG:HA	9:C:9669:HOH:O	1.94	0.68
2:M:773:LEU:HG	9:M:2483:HOH:O	1.93	0.68
4:O:30:LEU:O	4:O:35:PHE:HA	1.93	0.68
1:K:95:GLN:HG2	1:K:146:ARG:NH1	2.08	0.68
2:C:755:LEU:HD22	2:C:825:VAL:HG11	1.76	0.68
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.10	0.67
3:N:119:SER:HB2	3:N:123:LEU:N	2.09	0.67
2:M:630:ARG:HA	2:M:705:ILE:HD11	1.75	0.67
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.29	0.67
5:F:212:LEU:HD11	9:F:9654:HOH:O	1.94	0.67
3:D:611:GLN:HB3	3:D:616:GLN:NE2	2.09	0.67
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.76	0.67
3:D:490:ALA:HA	9:D:9583:HOH:O	1.93	0.67
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.76	0.67
5:P:228:GLU:HB3	9:P:4672:HOH:O	1.94	0.67
5:F:395:GLU:O	5:F:399:GLN:HB2	1.94	0.67
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.73	0.67
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.76	0.67
2:M:575:GLN:HE21	2:M:671:ASN:HB2	1.59	0.67
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.76	0.67
2:C:833:LEU:HD12	2:C:834:GLN:N	2.08	0.67
3:D:708:LEU:O	3:D:1227:GLN:HG2	1.94	0.67
2:C:732:ALA:HA	2:C:735:ARG:NH1	2.09	0.67
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.94	0.67
5:P:384:GLU:HA	9:P:4435:HOH:O	1.94	0.67
2:M:422:ARG:HA	9:M:9874:HOH:O	1.91	0.67
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.76	0.67
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.60	0.67
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.75	0.67
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.76	0.67
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.75	0.67
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.09	0.67
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.09	0.67
1:L:116:PRO:HD2	9:L:4090:HOH:O	1.94	0.67
1:A:95:GLN:HG2	1:A:146:ARG:HH22	1.58	0.67
2:C:534:VAL:HB	2:C:538:GLN:OE1	1.93	0.67
5:P:76:SER:O	5:P:80:PRO:HD2	1.95	0.67
3:D:1045:MET:CG	3:D:1073:SER:HA	2.24	0.67
2:M:958:THR:OG1	2:M:961:GLU:HG2	1.94	0.67
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.76	0.67
3:D:1330:ILE:HA	9:D:2043:HOH:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.59	0.67
1:B:46:SER:O	1:B:148:VAL:HB	1.94	0.67
9:D:9593:HOH:O	5:F:222:ARG:HA	1.93	0.67
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.21	0.67
3:N:810:GLU:O	3:N:813:LEU:HG	1.94	0.67
5:F:361:LEU:HD23	5:F:362:SER:H	1.59	0.67
2:M:45:GLN:HB2	2:M:71:TYR:CE1	2.30	0.67
2:M:1021:LEU:HD21	5:P:332:PHE:HA	1.75	0.67
3:N:898:GLU:HB2	3:N:921:ARG:HH22	1.59	0.67
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.74	0.67
2:C:95:TYR:HA	9:C:2013:HOH:O	1.94	0.67
2:M:92:ALA:HB1	9:M:2197:HOH:O	1.94	0.67
3:N:119:SER:OG	3:N:123:LEU:HD13	1.95	0.67
2:M:140:ILE:HA	2:M:332:ARG:O	1.95	0.67
3:N:830:ALA:HA	9:N:9638:HOH:O	1.95	0.67
3:D:754:PHE:HZ	4:E:21:VAL:HG13	1.60	0.67
2:M:478:VAL:HA	2:M:506:ASN:O	1.95	0.67
3:N:216:VAL:HG13	9:N:9526:HOH:O	1.94	0.67
2:M:23:VAL:HG12	9:M:9741:HOH:O	1.93	0.67
3:N:529:GLN:HB2	9:N:9903:HOH:O	1.94	0.67
2:M:815:LEU:HD23	9:M:9901:HOH:O	1.95	0.67
2:C:72:ARG:HE	2:C:97:ARG:HH12	1.42	0.67
2:C:882:LEU:HD23	2:C:885:ILE:HB	1.76	0.67
9:N:9768:HOH:O	5:P:254:GLN:HG2	1.95	0.67
2:M:724:ARG:HG3	2:M:740:GLU:HA	1.75	0.67
4:O:51:LEU:HG	4:O:53:GLY:H	1.60	0.67
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	0.67
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.60	0.67
4:O:54:LEU:HD11	9:O:3983:HOH:O	1.93	0.67
3:D:1280:VAL:HB	9:D:9793:HOH:O	1.95	0.67
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.76	0.67
2:M:758:ARG:HB3	2:M:788:THR:O	1.95	0.67
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.77	0.67
3:N:796:ARG:NH1	3:N:861:GLN:HB2	2.10	0.67
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.77	0.67
3:N:1194:CYS:HB2	9:N:9589:HOH:O	1.93	0.67
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.77	0.67
3:N:1149:LEU:HD12	3:N:1161:GLU:O	1.93	0.67
3:D:393:ILE:HG22	9:D:9798:HOH:O	1.95	0.67
3:N:1271:LYS:HG2	3:N:1272:ALA:H	1.59	0.67
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:226:SER:HB3	9:B:9483:HOH:O	1.95	0.67
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.60	0.67
1:L:189:ARG:HG2	9:L:4538:HOH:O	1.94	0.67
5:F:275:ALA:HA	5:F:278:LEU:HD12	1.75	0.67
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.60	0.67
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.76	0.67
3:D:1314:LYS:HD3	9:D:9730:HOH:O	1.94	0.67
3:N:464:LEU:HD11	9:N:9679:HOH:O	1.95	0.67
3:N:661:MET:HA	3:N:666:ILE:HD12	1.77	0.67
3:D:1076:GLY:O	3:D:1079:LYS:HG3	1.95	0.67
1:B:78:ILE:HA	9:B:9525:HOH:O	1.94	0.67
3:N:1484:THR:HG21	9:O:5601:HOH:O	1.95	0.67
1:K:197:LEU:H	1:K:197:LEU:HD23	1.60	0.66
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.77	0.66
2:C:881:ASN:HD22	2:C:881:ASN:H	1.44	0.66
3:N:1337:GLU:HB3	9:N:9525:HOH:O	1.94	0.66
5:F:321:ILE:HB	5:F:327:SER:OG	1.94	0.66
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.11	0.66
3:N:559:ALA:HA	9:P:4212:HOH:O	1.94	0.66
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	1.75	0.66
2:C:660:ALA:HB1	2:C:667:ALA:O	1.94	0.66
3:N:426:LYS:HG3	3:N:434:ARG:NH1	2.10	0.66
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.75	0.66
2:M:686:ASP:HB2	9:N:2186:HOH:O	1.94	0.66
2:M:186:VAL:HG23	2:M:187:ASN:H	1.60	0.66
2:M:961:GLU:HG3	9:M:9678:HOH:O	1.94	0.66
3:N:41:ARG:HD3	3:N:42:ASP:H	1.60	0.66
1:K:54:THR:HG21	9:K:3856:HOH:O	1.95	0.66
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.09	0.66
1:B:51:THR:HB	9:B:9600:HOH:O	1.95	0.66
4:O:78:ASN:HB3	9:O:3563:HOH:O	1.94	0.66
1:B:132:LEU:HD21	1:B:136:GLY:O	1.96	0.66
1:L:88:ARG:NH1	1:L:88:ARG:HB3	2.09	0.66
2:M:905:ILE:H	2:M:905:ILE:CD1	2.06	0.66
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.77	0.66
3:N:35:ARG:HD2	3:N:36:THR:N	2.09	0.66
3:N:185:VAL:HG13	9:N:9966:HOH:O	1.96	0.66
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.60	0.66
3:N:1091:SER:HA	9:N:9756:HOH:O	1.96	0.66
2:C:373:VAL:HG12	9:C:9971:HOH:O	1.95	0.66
3:N:459:GLU:HA	9:N:9521:HOH:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1112:CYS:HA	9:D:2465:HOH:O	1.93	0.66
1:K:89:PHE:HB2	1:K:94:LEU:HD13	1.77	0.66
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.95	0.66
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.76	0.66
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.31	0.66
2:C:503:LEU:HD12	2:C:505:GLY:H	1.60	0.66
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.77	0.66
3:D:850:LEU:HD12	3:D:850:LEU:H	1.59	0.66
3:D:846:PRO:HB3	9:D:2128:HOH:O	1.94	0.66
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.30	0.66
3:N:907:GLU:O	3:N:911:LEU:HD13	1.96	0.66
2:M:660:ALA:HB1	2:M:667:ALA:O	1.94	0.66
1:A:86:VAL:HG21	1:A:202:ASP:O	1.96	0.66
4:E:36:LYS:HB3	9:E:9557:HOH:O	1.95	0.66
3:D:924:MET:HG2	9:D:9500:HOH:O	1.94	0.66
3:D:1066:THR:HG22	3:D:1069:GLU:HG3	1.75	0.66
5:P:88:ILE:HG23	9:P:4361:HOH:O	1.96	0.66
3:D:1097:LYS:HA	9:D:9591:HOH:O	1.94	0.66
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	1.96	0.66
3:N:1301:LYS:HE3	3:N:1301:LYS:HA	1.75	0.66
3:D:1124:GLN:NE2	3:D:1135:ARG:HA	2.11	0.66
2:C:420:ARG:HD2	2:C:420:ARG:H	1.59	0.66
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.78	0.66
3:D:1432:LYS:NZ	3:D:1460:ILE:HG13	2.10	0.66
4:E:43:GLU:CD	4:E:43:GLU:H	1.99	0.66
3:N:1129:THR:HA	9:N:2005:HOH:O	1.95	0.66
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.78	0.66
3:D:875:THR:HB	9:D:9975:HOH:O	1.96	0.66
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.11	0.66
3:D:1031:ASN:HB3	3:D:1034:GLN:HG3	1.77	0.66
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.25	0.66
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.59	0.66
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.78	0.66
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.30	0.66
3:D:611:GLN:HG3	5:F:326:ASP:HB2	1.78	0.66
2:M:347:GLY:HA2	2:M:350:ARG:HD2	1.76	0.66
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.78	0.66
2:C:724:ARG:HH11	2:C:724:ARG:HB3	1.60	0.66
3:D:176:ASP:HA	9:D:2419:HOH:O	1.96	0.66
1:B:38:ASN:O	1:B:41:ARG:HG2	1.96	0.66
5:F:335:ASP:OD1	5:F:338:LEU:HB2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.78	0.66
2:C:405:ARG:HD2	2:C:442:GLU:OE1	1.96	0.66
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.78	0.66
1:K:91:ASN:HB2	9:K:5800:HOH:O	1.94	0.66
2:C:182:VAL:HG12	2:C:193:LEU:HD13	1.78	0.66
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.77	0.66
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.95	0.66
2:C:703:ILE:HD11	2:C:830:LYS:HG2	1.78	0.66
3:N:1166:LEU:HD12	3:N:1171:VAL:HG22	1.78	0.66
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.08	0.66
2:C:1014:SER:HB3	2:C:1017:THR:O	1.95	0.66
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.78	0.66
3:N:984:THR:HG22	3:N:987:GLU:H	1.61	0.66
3:D:924:MET:HB3	4:E:7:ASP:OD1	1.96	0.66
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.30	0.66
1:B:180:GLN:HA	9:B:9698:HOH:O	1.94	0.66
2:M:1018:GLN:NE2	2:M:1060:ILE:HD11	2.07	0.65
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.77	0.65
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.76	0.65
3:D:699:VAL:CG1	3:D:717:GLN:HG3	2.26	0.65
2:M:820:ARG:HB2	9:M:2167:HOH:O	1.95	0.65
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.61	0.65
2:C:610:ARG:HB2	9:C:9703:HOH:O	1.96	0.65
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.78	0.65
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.05	0.65
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.78	0.65
2:M:89:THR:O	2:M:91:GLN:HG3	1.96	0.65
3:N:1471:LEU:HD12	3:N:1472:ILE:H	1.61	0.65
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.78	0.65
1:L:78:ILE:HG12	9:L:4728:HOH:O	1.97	0.65
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.78	0.65
2:M:1084:SER:O	2:M:1087:VAL:HG12	1.95	0.65
5:F:235:PHE:HA	9:F:9701:HOH:O	1.95	0.65
5:P:320:PRO:HB2	5:P:324:GLU:HG2	1.78	0.65
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.62	0.65
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.78	0.65
5:P:404:ALA:HB2	9:P:3792:HOH:O	1.97	0.65
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.77	0.65
5:P:419:ARG:HD3	9:P:6175:HOH:O	1.95	0.65
1:K:41:ARG:O	1:K:45:LEU:HD12	1.96	0.65
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1031:ASN:HA	9:D:2225:HOH:O	1.97	0.65
3:D:572:ARG:HD2	9:F:9689:HOH:O	1.95	0.65
2:M:451:LEU:HD12	2:M:451:LEU:H	1.58	0.65
2:M:454:SER:HB3	9:M:2089:HOH:O	1.95	0.65
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.78	0.65
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.61	0.65
2:C:252:LYS:HE3	9:C:9859:HOH:O	1.95	0.65
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.78	0.65
2:M:300:ASP:HB2	9:M:9603:HOH:O	1.95	0.65
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.27	0.65
3:N:875:THR:HG23	9:N:2072:HOH:O	1.95	0.65
5:P:393:THR:HG22	5:P:394:ARG:H	1.61	0.65
2:C:1060:ILE:HA	2:C:1063:ARG:NH1	2.12	0.65
3:D:1491:THR:O	3:D:1495:ILE:HD13	1.96	0.65
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.78	0.65
2:M:573:ARG:HG3	2:M:698:ASP:O	1.94	0.65
3:N:1191:PRO:HA	9:N:9589:HOH:O	1.96	0.65
3:N:480:GLU:OE2	3:N:484:PRO:HG2	1.97	0.65
2:M:576:ALA:HB3	9:M:2073:HOH:O	1.96	0.65
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.27	0.65
3:N:728:LEU:HD12	3:N:729:HIS:H	1.62	0.65
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.25	0.65
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.31	0.65
3:N:105:VAL:HG12	3:N:106:LYS:NZ	2.11	0.65
2:M:310:LEU:HD13	9:M:9990:HOH:O	1.97	0.65
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.61	0.65
3:D:190:GLU:HG3	3:D:210:ARG:NE	2.12	0.65
2:M:231:PRO:HG2	9:M:2420:HOH:O	1.95	0.65
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.27	0.65
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.31	0.65
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.12	0.65
5:P:266:GLU:HA	5:P:269:ASN:HD22	1.60	0.65
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.78	0.65
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.32	0.65
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.77	0.65
5:F:314:PRO:HB2	9:F:9527:HOH:O	1.96	0.65
2:M:162:ILE:HB	2:M:172:ILE:HB	1.78	0.65
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.78	0.65
2:M:833:LEU:HD12	2:M:834:GLN:H	1.62	0.65
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.97	0.65
3:N:536:ALA:HA	5:P:315:VAL:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.62	0.65
5:P:262:VAL:HG12	5:P:266:GLU:OE1	1.95	0.65
3:D:980:MET:HG3	9:D:2017:HOH:O	1.96	0.65
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.78	0.65
2:C:798:GLY:H	2:C:827:VAL:HG11	1.62	0.65
3:D:1187:PRO:HG3	9:D:9606:HOH:O	1.96	0.65
2:M:498:GLN:O	2:M:501:THR:HG23	1.96	0.65
5:P:220:LEU:O	5:P:224:VAL:HG23	1.96	0.65
1:B:150:TYR:CD2	3:D:857:ILE:HG13	2.32	0.65
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.27	0.65
5:P:208:SER:HB2	5:P:211:ASP:OD1	1.96	0.65
3:N:1213:ARG:HE	3:N:1213:ARG:N	1.95	0.65
3:N:127:LEU:HD12	3:N:128:TYR:N	2.11	0.65
2:C:860:HIS:CD2	2:C:975:TYR:HB2	2.32	0.65
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.26	0.65
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.79	0.65
3:D:478:LEU:HD13	3:D:1388:ARG:NH2	2.12	0.65
1:K:223:THR:HA	9:K:5661:HOH:O	1.95	0.65
2:C:350:ARG:HB3	2:C:350:ARG:HH11	1.59	0.65
5:F:351:SER:O	5:F:355:GLU:HB2	1.96	0.65
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.97	0.65
5:P:222:ARG:HA	9:P:3420:HOH:O	1.96	0.65
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.79	0.65
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.27	0.65
3:N:971:LEU:HA	3:N:974:ILE:HD12	1.79	0.65
1:B:68:ILE:HD12	1:B:71:VAL:HG21	1.78	0.65
2:C:115:LEU:HB3	9:C:9971:HOH:O	1.97	0.65
3:D:1285:GLU:H	3:D:1285:GLU:CD	2.00	0.65
2:M:1072:LYS:HA	9:M:9641:HOH:O	1.97	0.65
1:L:58:ILE:HB	1:L:61:VAL:HB	1.78	0.65
2:M:583:LEU:O	2:M:587:VAL:HG23	1.96	0.65
3:D:546:ARG:O	3:D:550:ARG:HG2	1.97	0.65
2:C:394:PHE:HB3	7:C:8001:RPT:H321	1.79	0.65
2:C:910:LYS:HB2	2:C:913:GLU:OE1	1.97	0.65
2:C:181:VAL:HG11	9:C:2145:HOH:O	1.97	0.65
2:C:701:THR:HG23	2:C:832:LYS:HG3	1.79	0.65
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.62	0.65
1:B:101:LEU:HD21	1:B:113:ASP:HB3	1.78	0.65
3:N:992:ILE:HB	9:N:9914:HOH:O	1.97	0.65
2:M:739:GLU:HG3	9:M:9543:HOH:O	1.96	0.65
3:D:172:PRO:HD2	3:D:389:GLU:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:756:GLN:O	3:N:760:ARG:HG2	1.95	0.64
2:C:433:THR:HA	9:C:9591:HOH:O	1.97	0.64
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.79	0.64
3:D:190:GLU:HG3	3:D:210:ARG:HE	1.62	0.64
3:D:1437:ALA:HA	3:D:1440:PHE:CE1	2.32	0.64
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.32	0.64
4:E:49:GLN:HB2	9:E:9593:HOH:O	1.96	0.64
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.77	0.64
2:C:971:LYS:HA	2:C:988:VAL:HA	1.79	0.64
2:M:409:ARG:HA	2:M:454:SER:HA	1.78	0.64
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.79	0.64
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.78	0.64
2:M:10:ARG:HA	2:M:10:ARG:HH11	1.62	0.64
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.78	0.64
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.78	0.64
3:N:715:ALA:O	3:N:764:LEU:HD12	1.97	0.64
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.78	0.64
2:C:676:ILE:HG23	3:D:948:THR:HB	1.80	0.64
3:D:122:GLU:O	3:D:126:VAL:HG23	1.98	0.64
2:M:198:ARG:HH12	2:M:231:PRO:HG3	1.62	0.64
3:D:1254:GLN:HG3	9:D:2555:HOH:O	1.96	0.64
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.13	0.64
2:C:71:TYR:HB2	9:C:9517:HOH:O	1.97	0.64
2:C:432:ARG:HD3	3:D:1048:PRO:HG2	1.79	0.64
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.80	0.64
3:N:428:LYS:HE3	3:N:434:ARG:HH12	1.63	0.64
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.78	0.64
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.60	0.64
2:C:162:ILE:O	2:C:164:PRO:HD3	1.96	0.64
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.80	0.64
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.78	0.64
1:A:20:TYR:HD2	1:A:21:GLY:N	1.95	0.64
2:M:726:ILE:HG22	9:M:2191:HOH:O	1.98	0.64
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.78	0.64
2:C:678:PRO:O	3:D:943:THR:HA	1.97	0.64
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.80	0.64
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.80	0.64
3:N:13:ALA:HA	9:N:9515:HOH:O	1.98	0.64
1:L:33:GLY:O	1:L:195:LEU:HD22	1.97	0.64
2:C:580:MET:HA	9:C:9544:HOH:O	1.97	0.64
3:N:975:GLU:O	3:N:979:GLU:HG3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:672:ALA:HB2	5:P:420:ASP:OD1	1.98	0.64
3:D:804:LEU:HB2	3:D:830:ALA:O	1.98	0.64
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.79	0.64
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.33	0.64
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.78	0.64
1:B:186:LEU:HD23	9:B:9707:HOH:O	1.96	0.64
5:P:279:GLN:HA	9:P:4921:HOH:O	1.97	0.64
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.63	0.64
5:P:226:LYS:HB2	9:P:6226:HOH:O	1.96	0.64
3:D:1377:LYS:O	3:D:1394:VAL:HA	1.97	0.64
3:D:178:LEU:HG	3:D:200:ASP:H	1.62	0.64
3:N:1282:ARG:HD3	3:N:1295:GLU:OE2	1.98	0.64
1:L:81:ASN:HB3	9:L:4066:HOH:O	1.97	0.64
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.78	0.64
1:K:20:TYR:HD2	1:K:21:GLY:H	1.46	0.64
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.80	0.64
2:C:76:PRO:HG3	9:C:2288:HOH:O	1.98	0.64
3:N:817:GLU:O	3:N:821:VAL:HG23	1.98	0.64
3:D:214:GLU:HG3	3:D:390:PRO:HB2	1.80	0.64
2:C:889:HIS:CE1	3:D:951:ILE:H	2.15	0.64
1:A:177:VAL:O	2:C:864:GLY:HA3	1.97	0.64
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.80	0.64
1:L:32:PHE:HB2	9:L:5175:HOH:O	1.98	0.64
1:B:180:GLN:HG3	9:B:9530:HOH:O	1.97	0.64
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.79	0.64
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.79	0.64
2:C:1008:ARG:HE	2:C:1028:GLY:N	1.96	0.64
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.80	0.64
2:C:595:LEU:HB3	9:C:9812:HOH:O	1.98	0.64
3:D:590:PRO:HA	9:D:9578:HOH:O	1.96	0.64
2:M:987:ILE:HG12	3:N:948:THR:HG21	1.80	0.64
2:M:455:LEU:HD12	2:M:456:ALA:O	1.98	0.64
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.33	0.64
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.79	0.64
5:P:305:GLU:HG2	9:P:3554:HOH:O	1.98	0.64
1:A:193:ASP:HA	9:A:9491:HOH:O	1.96	0.64
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.28	0.64
2:C:413:LEU:HD12	2:C:413:LEU:H	1.63	0.64
2:C:1021:LEU:HD22	9:F:9484:HOH:O	1.98	0.64
3:D:817:GLU:HG3	3:D:839:LEU:HD13	1.78	0.64
3:D:395:VAL:HG12	9:D:2245:HOH:O	1.99	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:41:GLU:O	4:O:45:ARG:HG2	1.98	0.64
2:C:716:LYS:HD3	9:C:2019:HOH:O	1.96	0.64
2:C:926:PHE:O	2:C:930:LYS:HG3	1.97	0.64
2:M:511:GLU:O	2:M:526:PRO:HD3	1.98	0.64
1:L:62:LEU:HD12	9:L:4737:HOH:O	1.97	0.64
2:C:730:SER:O	2:C:734:LEU:HD13	1.98	0.63
2:C:379:GLU:O	2:C:383:ARG:HB3	1.97	0.63
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.80	0.63
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.28	0.63
3:N:1093:TYR:HA	9:N:2053:HOH:O	1.98	0.63
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.13	0.63
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.79	0.63
2:C:250:ARG:HG2	2:C:253:ALA:HB3	1.79	0.63
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.13	0.63
2:M:612:VAL:HG22	2:M:622:GLU:HG3	1.80	0.63
5:P:123:ASP:HB3	5:P:125:ASP:OD1	1.98	0.63
3:D:1465:ASN:HD21	3:D:1470:ARG:NH1	1.95	0.63
3:D:907:GLU:O	3:D:911:LEU:HD13	1.97	0.63
2:M:575:GLN:HA	2:M:662:GLU:OE2	1.98	0.63
2:M:68:PHE:HZ	2:M:71:TYR:HB3	1.63	0.63
1:B:103:ALA:O	1:B:138:LEU:HD23	1.97	0.63
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.80	0.63
3:D:808:THR:HB	3:D:809:PRO:HD3	1.80	0.63
2:C:399:ASN:N	2:C:399:ASN:HD22	1.96	0.63
2:C:404:LEU:HD22	2:C:591:SER:HB3	1.80	0.63
2:C:156:GLY:HA3	9:C:2245:HOH:O	1.97	0.63
3:D:396:VAL:HG11	9:D:9781:HOH:O	1.98	0.63
3:N:119:SER:H	3:N:123:LEU:HB2	1.63	0.63
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.78	0.63
3:N:1192:LEU:HD12	3:N:1346:ARG:HH21	1.63	0.63
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.27	0.63
2:C:724:ARG:HB2	2:C:740:GLU:HG3	1.79	0.63
2:M:1095:LEU:HD11	3:N:607:LEU:HD11	1.80	0.63
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.98	0.63
3:N:125:GLN:HE22	3:N:587:ARG:HH21	1.46	0.63
9:C:9697:HOH:O	4:E:31:LEU:HD11	1.99	0.63
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.12	0.63
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.34	0.63
3:N:535:PHE:O	5:P:315:VAL:N	2.30	0.63
3:N:95:LEU:HD12	3:N:515:GLU:C	2.18	0.63
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:172:SER:HB3	9:L:4444:HOH:O	1.97	0.63
1:K:109:VAL:HG23	9:K:3900:HOH:O	1.98	0.63
2:C:771:GLU:O	2:C:775:ARG:HG2	1.98	0.63
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.28	0.63
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.80	0.63
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.14	0.63
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.63	0.63
3:D:1272:ALA:HB2	9:D:2257:HOH:O	1.97	0.63
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.33	0.63
3:D:829:VAL:HA	9:D:2030:HOH:O	1.97	0.63
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.34	0.63
1:A:181:VAL:HG12	9:A:9491:HOH:O	1.97	0.63
4:O:84:ARG:HH11	4:O:84:ARG:HB2	1.64	0.63
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.99	0.63
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.62	0.63
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.64	0.63
2:M:943:VAL:HA	9:M:2224:HOH:O	1.99	0.63
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.12	0.63
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.79	0.63
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.34	0.63
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.13	0.63
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.63	0.63
3:N:1147:ARG:O	3:N:1165:TYR:HA	1.99	0.63
2:C:724:ARG:HG3	2:C:741:GLY:N	2.07	0.63
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.98	0.63
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.81	0.63
2:C:949:LYS:CD	3:D:796:ARG:HH21	2.12	0.63
2:M:443:THR:O	2:M:559:LEU:HD11	1.99	0.63
2:C:595:LEU:HD23	2:C:655:LEU:HD12	1.81	0.63
3:D:111:LYS:HD3	9:D:9759:HOH:O	1.97	0.63
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.79	0.63
2:C:145:GLY:H	2:C:163:ILE:HG23	1.63	0.63
3:N:393:ILE:H	3:N:393:ILE:HD12	1.64	0.63
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.80	0.63
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.81	0.63
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.99	0.63
3:D:551:ASN:O	3:D:555:LYS:HG3	1.98	0.63
4:O:72:ARG:HD2	9:O:5366:HOH:O	1.98	0.63
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.81	0.63
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.80	0.63
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.80	0.63
2:M:428:ARG:HG2	2:M:451:LEU:HG	1.81	0.63
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.81	0.63
3:D:1290:LEU:HD13	3:D:1305:LEU:HD12	1.80	0.63
2:M:863:ASP:OD2	2:M:865:THR:HG22	1.99	0.63
2:C:25:SER:HB2	2:C:335:THR:HB	1.81	0.63
3:N:1159:ARG:HD3	9:N:9583:HOH:O	1.98	0.63
3:D:393:ILE:H	3:D:393:ILE:HD12	1.64	0.63
2:M:431:HIS:H	2:M:434:HIS:CE1	2.17	0.63
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.81	0.63
1:A:97:VAL:HG23	9:A:9486:HOH:O	1.98	0.63
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.80	0.63
3:N:589:ALA:HB3	9:N:9549:HOH:O	1.98	0.63
5:F:347:GLN:HG2	9:F:9631:HOH:O	1.98	0.63
3:N:1500:LYS:HA	9:N:2479:HOH:O	1.99	0.63
3:N:1329:ALA:HA	9:N:9884:HOH:O	1.98	0.63
1:K:78:ILE:HA	1:K:81:ASN:ND2	2.14	0.63
3:N:423:ASP:OD2	5:P:174:LEU:HD22	1.98	0.62
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.14	0.62
3:D:126:VAL:HG22	9:D:2697:HOH:O	1.98	0.62
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.14	0.62
2:C:721:ARG:HH21	2:C:783:ARG:HH21	1.47	0.62
2:C:151:ASP:HB2	2:C:157:ARG:O	1.98	0.62
3:D:810:GLU:O	3:D:813:LEU:HG	1.98	0.62
2:C:1034:GLU:HG3	9:C:9762:HOH:O	1.98	0.62
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.14	0.62
3:D:531:ASP:C	3:D:533:GLY:H	2.00	0.62
5:F:273:ARG:HB3	9:F:9511:HOH:O	1.97	0.62
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.80	0.62
2:C:557:ARG:HB2	9:C:9570:HOH:O	1.98	0.62
3:D:1495:ILE:HD11	9:E:9594:HOH:O	1.97	0.62
2:C:244:PRO:HB3	9:C:9757:HOH:O	1.99	0.62
3:N:177:ALA:HB3	9:N:2388:HOH:O	1.99	0.62
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.28	0.62
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.63	0.62
5:F:347:GLN:HG3	9:F:9808:HOH:O	1.99	0.62
2:M:802:ARG:HB3	9:M:9780:HOH:O	1.98	0.62
5:P:87:GLU:O	5:P:91:VAL:HG23	1.99	0.62
1:B:151:VAL:HG23	9:B:9528:HOH:O	1.99	0.62
1:K:67:THR:HG23	2:M:627:ARG:NH2	2.14	0.62
5:P:154:LYS:O	5:P:158:GLU:HG3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.81	0.62
2:C:503:LEU:HD13	2:C:507:ARG:O	1.99	0.62
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.30	0.62
2:M:222:MET:HB3	9:M:9807:HOH:O	1.98	0.62
3:N:674:ARG:HG2	3:N:674:ARG:HH11	1.64	0.62
2:C:606:VAL:HG22	2:C:645:VAL:HG22	1.81	0.62
2:C:313:LEU:HA	9:C:2113:HOH:O	1.98	0.62
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.82	0.62
2:M:310:LEU:O	2:M:314:THR:HG23	1.99	0.62
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.15	0.62
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.28	0.62
2:M:308:ARG:HB3	9:M:9658:HOH:O	1.99	0.62
2:C:554:ASP:HB2	2:C:880:MET:HB2	1.80	0.62
3:D:471:GLU:O	3:D:475:LYS:HD2	1.99	0.62
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.80	0.62
3:D:1436:SER:HB3	9:D:9596:HOH:O	1.98	0.62
2:M:15:LEU:HD12	2:M:15:LEU:H	1.64	0.62
5:P:395:GLU:O	5:P:399:GLN:HB2	1.98	0.62
3:D:146:PRO:HG2	9:D:9964:HOH:O	1.99	0.62
3:D:972:LEU:HD23	3:D:973:GLN:N	2.14	0.62
2:M:276:LYS:HB3	9:M:9769:HOH:O	1.99	0.62
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.00	0.62
1:K:88:ARG:HD2	1:K:88:ARG:O	1.99	0.62
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.28	0.62
1:K:62:LEU:HD12	9:K:3552:HOH:O	1.98	0.62
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.81	0.62
3:D:1399:ASP:HA	9:D:2529:HOH:O	1.99	0.62
2:M:1105:LYS:HG2	9:M:2030:HOH:O	1.99	0.62
9:A:9505:HOH:O	1:B:43:ILE:HD11	1.98	0.62
1:A:189:ARG:HB3	9:A:9613:HOH:O	1.99	0.62
2:M:42:VAL:HG12	2:M:43:GLY:H	1.65	0.62
2:C:724:ARG:NE	2:C:737:LEU:O	2.32	0.62
1:A:74:ASP:HA	9:A:9598:HOH:O	1.99	0.62
2:M:971:LYS:HA	2:M:988:VAL:HA	1.81	0.62
2:M:139:GLN:O	2:M:333:ILE:HA	2.00	0.62
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.81	0.62
1:L:26:GLU:HB3	9:L:3467:HOH:O	1.99	0.62
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.00	0.62
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.81	0.62
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.34	0.62
2:M:770:GLU:HG2	3:N:65:ARG:NH2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:184:THR:HB	1:B:194:LYS:NZ	2.15	0.62
1:A:120:VAL:HG13	9:A:9516:HOH:O	1.99	0.62
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.13	0.62
5:F:316:SER:HB3	5:F:318:GLU:O	2.00	0.62
2:M:640:ARG:HB3	9:M:2138:HOH:O	1.99	0.62
3:D:1342:GLU:HB3	9:D:9499:HOH:O	2.00	0.62
3:N:1127:GLU:HB2	9:N:9636:HOH:O	1.99	0.62
3:D:179:VAL:HB	9:D:2419:HOH:O	1.99	0.62
3:N:450:TYR:HB3	9:N:9938:HOH:O	1.99	0.62
2:C:376:ARG:NH1	5:F:285:GLU:HG2	2.15	0.62
1:L:5:LYS:HA	1:L:5:LYS:NZ	2.15	0.62
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.82	0.62
3:D:572:ARG:HH22	5:F:83:GLN:HG3	1.65	0.62
2:C:398:THR:OG1	2:C:633:GLN:HG3	2.00	0.62
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.29	0.62
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.99	0.62
2:M:97:ARG:HD2	9:M:9731:HOH:O	2.00	0.62
1:L:64:GLU:HG3	9:L:4182:HOH:O	1.99	0.62
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.29	0.62
2:M:276:LYS:H	2:M:276:LYS:HD2	1.64	0.62
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.35	0.62
3:D:675:ARG:O	3:D:678:GLU:HG2	1.99	0.62
3:N:972:LEU:HD13	9:N:2036:HOH:O	2.00	0.62
3:D:1318:TYR:HB3	9:D:2293:HOH:O	1.99	0.62
2:M:207:LEU:HD23	2:M:211:LEU:HD23	1.81	0.62
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.81	0.62
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.30	0.62
4:E:41:GLU:HG2	9:E:9566:HOH:O	1.99	0.62
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.81	0.62
2:C:543:ASN:HD22	2:C:562:SER:HB3	1.64	0.62
2:C:702:SER:HB2	9:C:9792:HOH:O	1.99	0.62
3:D:197:SER:CB	3:D:203:ALA:HB3	2.25	0.62
2:M:1095:LEU:HB2	2:M:1097:LEU:HD21	1.81	0.62
2:M:468:ARG:HD3	2:M:485:TYR:HB3	1.81	0.62
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.14	0.62
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	1.97	0.62
3:N:139:GLY:O	3:N:147:VAL:HB	2.00	0.62
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.65	0.62
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.81	0.62
2:M:37:GLU:HA	9:M:2385:HOH:O	1.98	0.62
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)
3:D:41:ARG:NH1	3:D:42:ASP:HB2	2.13	0.61
2:M:157:ARG:HD3	2:M:158:TYR:N	2.15	0.61
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.80	0.61
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.64	0.61
2:M:630:ARG:HA	9:M:9812:HOH:O	2.00	0.61
3:D:877:PRO:O	3:D:880:ILE:HG22	1.99	0.61
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.81	0.61
2:C:178:PRO:HA	9:C:2061:HOH:O	1.99	0.61
2:M:939:ARG:HG3	9:M:9643:HOH:O	2.00	0.61
5:P:342:VAL:HB	9:P:5304:HOH:O	2.00	0.61
3:N:662:GLU:HB2	9:N:2066:HOH:O	2.00	0.61
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.99	0.61
2:C:298:PHE:HB3	9:C:2271:HOH:O	2.01	0.61
3:D:109:PRO:HD3	9:D:9821:HOH:O	2.00	0.61
2:M:162:ILE:O	2:M:164:PRO:HD3	2.00	0.61
9:M:2401:HOH:O	5:P:409:LYS:HD2	1.98	0.61
3:D:611:GLN:HB2	9:F:9660:HOH:O	2.00	0.61
1:B:33:GLY:O	1:B:195:LEU:HD22	2.00	0.61
2:C:640:ARG:NH1	2:C:642:ARG:HH22	1.98	0.61
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.81	0.61
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.82	0.61
3:D:141:ILE:HG21	3:D:161:LEU:HD21	1.82	0.61
2:C:84:ARG:NH2	2:C:128:ILE:HD11	2.15	0.61
3:D:1304:LYS:HA	9:D:2093:HOH:O	2.00	0.61
2:M:720:GLU:HG2	2:M:760:SER:HB3	1.83	0.61
2:M:468:ARG:HD2	9:M:2017:HOH:O	1.98	0.61
2:M:198:ARG:NH1	2:M:231:PRO:HG3	2.16	0.61
3:N:957:PRO:HB3	3:N:959:GLU:OE1	2.00	0.61
2:M:178:PRO:HB3	9:M:9661:HOH:O	2.01	0.61
2:M:745:ILE:HG13	9:M:9989:HOH:O	2.00	0.61
3:D:1183:ILE:HG22	9:D:9811:HOH:O	2.00	0.61
2:M:149:THR:HG22	9:M:2395:HOH:O	2.00	0.61
2:C:480:THR:HG22	2:C:482:GLU:H	1.66	0.61
3:N:1236:LEU:HA	9:N:2360:HOH:O	1.98	0.61
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.00	0.61
5:P:166:LEU:O	5:P:171:LYS:HB2	2.00	0.61
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.31	0.61
3:N:428:LYS:HE3	3:N:434:ARG:NH1	2.15	0.61
1:L:54:THR:HG22	1:L:158:ILE:HG13	1.82	0.61
3:D:1154:GLU:HG2	9:D:9504:HOH:O	2.00	0.61
1:B:110:LYS:HG3	9:B:9511:HOH:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1299:PHE:HB2	9:D:9955:HOH:O	1.98	0.61
5:P:120:THR:HB	9:P:4895:HOH:O	2.00	0.61
5:F:100:VAL:HG21	9:F:9680:HOH:O	2.00	0.61
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.25	0.61
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.16	0.61
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.81	0.61
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.82	0.61
2:M:431:HIS:CD2	2:M:433:THR:H	2.19	0.61
2:M:569:VAL:HG12	2:M:996:LYS:O	2.01	0.61
3:D:1135:ARG:HD3	9:D:2109:HOH:O	2.01	0.61
5:F:278:LEU:O	5:F:282:LEU:HG	2.00	0.61
3:N:863:VAL:HG23	9:N:9553:HOH:O	2.01	0.61
2:C:511:GLU:O	2:C:526:PRO:HD3	1.99	0.61
3:D:501:ALA:HB2	9:D:9860:HOH:O	1.99	0.61
2:C:62:GLY:O	2:C:103:LYS:HG3	2.00	0.61
2:C:769:PRO:HG3	9:F:9763:HOH:O	1.99	0.61
2:C:108:ILE:H	2:C:108:ILE:HD12	1.65	0.61
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.82	0.61
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.83	0.61
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.81	0.61
3:D:668:PRO:HB2	9:F:9602:HOH:O	2.00	0.61
2:M:707:ARG:NH1	2:M:709:GLU:HB2	2.15	0.61
2:M:139:GLN:HE21	2:M:334:ARG:HD2	1.64	0.61
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.01	0.61
5:P:291:ILE:HB	9:P:3811:HOH:O	1.99	0.61
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.82	0.61
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.00	0.61
2:C:543:ASN:ND2	2:C:562:SER:HB3	2.16	0.61
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.82	0.61
3:N:618:LEU:HD22	9:N:2165:HOH:O	2.00	0.61
2:C:318:PRO:HD2	9:C:2113:HOH:O	2.00	0.61
2:M:148:PHE:HB3	9:M:9990:HOH:O	2.00	0.61
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.83	0.61
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.81	0.61
3:D:760:ARG:HB2	9:E:9559:HOH:O	2.00	0.61
3:N:950:GLY:H	3:N:953:ASP:HB2	1.66	0.61
2:M:140:ILE:HG22	2:M:333:ILE:HG13	1.83	0.61
3:N:984:THR:HB	3:N:987:GLU:OE1	2.01	0.61
5:F:361:LEU:HD23	5:F:362:SER:N	2.14	0.61
2:M:1017:THR:HG23	9:P:5990:HOH:O	2.01	0.61
3:D:1412:LYS:HE3	9:D:2567:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:807:ALA:HB2	3:D:833:GLU:OE1	2.01	0.61
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.82	0.61
3:N:535:PHE:HB2	9:P:5489:HOH:O	1.99	0.61
5:P:372:ARG:HD2	9:P:5354:HOH:O	2.01	0.61
3:N:1137:ARG:HA	3:N:1140:ILE:HD12	1.81	0.61
4:O:82:GLU:HG2	9:O:5722:HOH:O	2.01	0.61
3:N:45:PHE:HD1	3:N:86:ARG:HH22	1.48	0.61
3:N:82:LYS:HD3	9:N:2443:HOH:O	2.01	0.61
3:N:584:ASN:HB2	3:N:602:SER:OG	2.00	0.61
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.29	0.61
3:D:28:LYS:HD3	3:D:41:ARG:CZ	2.30	0.61
2:C:498:GLN:O	2:C:501:THR:HG23	2.00	0.61
2:M:773:LEU:O	2:M:777:ILE:HG13	2.01	0.61
2:M:439:CYS:HB2	2:M:541:SER:HB3	1.82	0.61
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.82	0.61
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.83	0.61
3:D:163:TYR:HB3	9:D:2435:HOH:O	2.01	0.61
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.81	0.61
3:D:964:LEU:HD22	9:D:9566:HOH:O	2.01	0.61
3:N:543:LEU:HD23	9:N:9696:HOH:O	2.01	0.61
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.33	0.61
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.82	0.61
2:C:342:ASP:O	2:C:346:VAL:HG23	2.00	0.61
1:A:58:ILE:HB	1:A:61:VAL:HB	1.83	0.61
3:N:770:LEU:HB2	9:N:9545:HOH:O	2.01	0.61
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.82	0.61
2:C:377:PRO:HA	9:C:2397:HOH:O	1.99	0.61
2:M:806:LEU:HB2	9:M:9775:HOH:O	2.01	0.61
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.83	0.60
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.83	0.60
2:C:789:SER:O	2:C:791:ARG:HG2	2.01	0.60
1:L:101:LEU:HG	1:L:114:PHE:HA	1.81	0.60
4:O:21:VAL:O	4:O:25:LYS:HG3	1.99	0.60
1:A:20:TYR:HD2	1:A:21:GLY:H	1.48	0.60
3:N:838:ARG:HB2	9:N:9806:HOH:O	2.01	0.60
3:D:438:ASP:HB2	9:D:9897:HOH:O	2.01	0.60
3:N:659:LYS:HE3	3:N:663:GLU:OE1	2.00	0.60
2:M:321:GLU:HB3	9:M:9537:HOH:O	2.00	0.60
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.66	0.60
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.82	0.60
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.36	0.60
3:D:61:GLY:CA	3:D:64:LYS:HE3	2.31	0.60
1:L:36:LEU:O	1:L:39:PRO:HD2	2.01	0.60
2:M:772:ARG:HG3	2:M:773:LEU:N	2.15	0.60
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.01	0.60
5:P:225:GLU:HB3	9:P:3420:HOH:O	2.00	0.60
5:P:117:SER:HA	9:P:4895:HOH:O	2.01	0.60
2:M:841:ASN:ND2	2:M:844:GLY:H	1.99	0.60
4:O:50:THR:HB	9:O:3763:HOH:O	2.00	0.60
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.40	0.60
1:L:103:ALA:HB1	1:L:107:LYS:HD2	1.83	0.60
5:P:209:PHE:O	5:P:213:ILE:HG13	2.00	0.60
3:D:728:LEU:HD13	3:D:745:MET:HE1	1.83	0.60
3:D:817:GLU:HG2	3:D:840:LYS:HZ2	1.66	0.60
1:L:101:LEU:HD21	1:L:113:ASP:HB3	1.83	0.60
3:N:139:GLY:H	3:N:147:VAL:HG21	1.65	0.60
1:L:110:LYS:HG3	9:L:5936:HOH:O	2.00	0.60
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.16	0.60
4:O:60:ALA:O	4:O:63:TRP:HB2	2.01	0.60
3:D:1084:THR:HG21	9:D:2388:HOH:O	2.02	0.60
2:C:424:GLY:HA3	9:C:2382:HOH:O	2.02	0.60
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.83	0.60
3:D:455:ARG:HH11	3:D:455:ARG:HG2	1.65	0.60
2:M:137:VAL:HG11	2:M:393:GLN:NE2	2.15	0.60
5:F:417:LYS:HA	9:F:9602:HOH:O	2.01	0.60
2:C:575:GLN:H	2:C:667:ALA:HB1	1.65	0.60
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.66	0.60
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.30	0.60
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.60
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.30	0.60
3:N:829:VAL:HG23	9:N:2131:HOH:O	2.01	0.60
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.81	0.60
2:C:332:ARG:HA	2:C:465:GLY:O	2.02	0.60
2:C:431:HIS:H	2:C:434:HIS:CE1	2.19	0.60
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.36	0.60
2:M:679:PHE:HD2	2:M:680:ASP:H	1.49	0.60
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.01	0.60
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.00	0.60
2:M:887:GLU:HB3	9:M:9573:HOH:O	2.01	0.60
3:N:141:ILE:HG12	3:N:449:SER:HA	1.84	0.60
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:643:VAL:HG22	2:M:647:GLN:HE22	1.65	0.60
1:B:212:ASN:O	1:B:215:VAL:HG22	2.01	0.60
3:D:105:VAL:HG21	3:D:128:TYR:HE2	1.66	0.60
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.83	0.60
2:M:944:LEU:HD21	2:M:963:LEU:HD22	1.84	0.60
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.84	0.60
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.36	0.60
2:C:122:THR:HA	9:C:9789:HOH:O	2.00	0.60
3:N:210:ARG:NH1	3:N:398:ALA:HB3	2.07	0.60
3:N:1212:ALA:HB3	3:N:1213:ARG:HH21	1.66	0.60
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.02	0.60
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.28	0.60
5:F:317:LEU:O	5:F:329:TYR:HB3	2.01	0.60
2:M:674:VAL:HG23	2:M:869:VAL:O	2.01	0.60
3:N:782:SER:O	3:N:786:ILE:HG13	2.02	0.60
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.30	0.60
2:M:571:LEU:HG	2:M:700:TYR:HA	1.83	0.60
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.83	0.60
3:N:1459:LEU:HD22	3:N:1465:ASN:HD22	1.66	0.60
3:N:65:ARG:HB3	9:N:9605:HOH:O	2.01	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.82	0.60
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.83	0.60
1:B:80:LEU:HD23	3:D:867:ARG:NH1	2.17	0.60
9:C:9676:HOH:O	3:D:621:LYS:HE2	2.02	0.60
3:N:73:CYS:HB3	3:N:76:CYS:O	2.02	0.60
2:M:752:GLY:H	2:M:792:VAL:HB	1.65	0.60
2:C:513:VAL:HG13	9:C:9526:HOH:O	2.02	0.60
2:M:609:ASN:HB2	9:M:9673:HOH:O	2.02	0.60
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.17	0.60
2:C:882:LEU:HD22	3:D:951:ILE:CD1	2.32	0.60
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.37	0.60
2:M:900:ARG:HD2	9:M:9963:HOH:O	2.02	0.60
4:O:76:GLY:N	4:O:79:LEU:HD22	2.16	0.60
2:C:798:GLY:H	2:C:827:VAL:CG1	2.14	0.60
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.31	0.60
1:L:41:ARG:HG2	1:L:177:VAL:HG21	1.84	0.60
1:L:212:ASN:O	1:L:215:VAL:HG22	2.01	0.60
4:O:36:LYS:HB2	9:O:6252:HOH:O	2.01	0.60
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.67	0.60
3:N:964:LEU:HD22	3:N:1058:ARG:NH1	2.16	0.60
2:C:269:LEU:HD12	2:C:288:ARG:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:740:GLU:HB2	9:C:2377:HOH:O	2.01	0.60
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.83	0.60
2:C:1086:ARG:HB3	2:C:1112:PHE:HE2	1.66	0.60
3:D:972:LEU:O	3:D:976:GLN:HG3	2.01	0.60
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.84	0.60
3:D:903:ASP:HA	9:D:9918:HOH:O	2.01	0.60
3:N:831:GLY:HA3	9:N:9512:HOH:O	2.02	0.60
3:N:1491:THR:O	3:N:1495:ILE:HD13	2.00	0.60
3:D:1082:ALA:O	3:D:1086:LEU:HD13	2.00	0.60
3:D:486:ARG:HH21	3:D:489:ARG:NH2	1.99	0.60
1:B:123:MET:C	1:B:125:PRO:HD3	2.22	0.60
3:N:631:ILE:O	3:N:632:VAL:HG23	2.02	0.60
2:C:470:PRO:HG2	2:C:538:GLN:OE1	2.02	0.60
1:B:38:ASN:OD1	2:C:979:THR:HA	2.02	0.60
2:C:395:LYS:HE3	2:C:407:LYS:HD2	1.83	0.60
5:P:415:THR:HB	9:P:3726:HOH:O	2.01	0.60
9:C:9634:HOH:O	3:D:630:VAL:HG23	2.01	0.60
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.83	0.60
1:A:213:GLN:O	1:A:217:ILE:HG13	2.02	0.60
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.83	0.60
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.84	0.60
3:N:215:TYR:HB2	3:N:389:GLU:HA	1.84	0.60
1:K:149:GLY:O	1:K:171:PHE:HB2	2.02	0.60
2:M:776:SER:HB2	9:M:9826:HOH:O	2.01	0.60
2:C:858:MET:SD	2:C:867:VAL:HG23	2.42	0.60
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.42	0.60
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.83	0.60
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.37	0.60
3:D:569:ASN:OD1	5:F:80:PRO:HB3	2.02	0.60
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.84	0.60
3:N:1128:VAL:HG22	9:N:9749:HOH:O	2.00	0.60
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.82	0.60
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.37	0.60
3:N:440:VAL:HG13	9:N:2153:HOH:O	2.01	0.60
3:D:1087:ARG:O	3:D:1091:SER:HB3	2.02	0.59
3:N:543:LEU:O	3:N:546:ARG:HB2	2.02	0.59
2:C:329:GLY:N	2:C:488:ALA:HB3	2.17	0.59
1:A:36:LEU:O	1:A:39:PRO:HD2	2.02	0.59
3:D:131:LYS:HB3	3:D:456:MET:HE3	1.83	0.59
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.15	0.59
3:D:61:GLY:HA3	3:D:64:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.67	0.59
2:M:66:LEU:HD22	2:M:372:LEU:HD23	1.83	0.59
2:C:1000:MET:SD	2:C:1001:VAL:HG22	2.42	0.59
1:K:213:GLN:O	1:K:217:ILE:HG13	2.02	0.59
3:N:536:ALA:HA	5:P:315:VAL:O	2.02	0.59
3:D:844:ALA:O	3:D:867:ARG:HB3	2.01	0.59
2:C:1043:TYR:HE2	3:D:768:ASN:OD1	1.85	0.59
2:M:880:MET:HG2	3:N:1038:LEU:HD21	1.84	0.59
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.17	0.59
3:N:898:GLU:HB2	3:N:921:ARG:NH2	2.16	0.59
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.67	0.59
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.15	0.59
2:M:1024:LYS:HE2	9:M:9718:HOH:O	2.02	0.59
3:D:1077:ALA:HB2	9:D:9550:HOH:O	2.02	0.59
1:L:14:ARG:HB2	9:L:5263:HOH:O	2.02	0.59
5:F:352:GLU:O	5:F:356:LYS:HG3	2.02	0.59
2:C:312:ALA:HB1	9:C:2264:HOH:O	2.03	0.59
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.37	0.59
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.84	0.59
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.02	0.59
3:D:703:ASN:ND2	3:D:704:ARG:H	2.00	0.59
1:K:218:LEU:O	1:K:222:LEU:HD23	2.02	0.59
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.02	0.59
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.37	0.59
2:C:200:LEU:HB2	9:C:9888:HOH:O	2.02	0.59
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.30	0.59
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.66	0.59
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.38	0.59
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.83	0.59
3:D:863:VAL:HA	9:D:9541:HOH:O	2.02	0.59
1:L:74:ASP:O	1:L:78:ILE:HG13	2.03	0.59
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.83	0.59
3:D:98:PRO:HD3	9:D:9723:HOH:O	2.03	0.59
3:D:1243:THR:HB	3:D:1253:THR:HG22	1.83	0.59
3:D:998:GLU:HA	9:D:9510:HOH:O	2.00	0.59
2:C:1015:LEU:HD12	9:C:9604:HOH:O	2.01	0.59
9:K:3920:HOH:O	2:M:608:GLY:HA3	2.02	0.59
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.84	0.59
2:M:621:VAL:HG13	9:M:9824:HOH:O	2.02	0.59
3:D:75:ARG:HA	9:D:9977:HOH:O	2.02	0.59
1:B:84:GLU:HG2	1:B:127:LEU:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1211:MET:SD	3:N:1213:ARG:HD2	2.41	0.59
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.38	0.59
3:N:1221:VAL:HB	9:N:9633:HOH:O	2.01	0.59
5:F:402:ASN:O	5:F:406:ARG:HG3	2.01	0.59
2:M:840:ALA:HB1	9:M:9563:HOH:O	2.01	0.59
3:D:813:LEU:O	3:D:817:GLU:HB2	2.02	0.59
2:C:583:LEU:O	2:C:587:VAL:HG23	2.01	0.59
1:B:140:MET:HG2	9:B:9655:HOH:O	2.02	0.59
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.37	0.59
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.06	0.59
1:L:123:MET:C	1:L:125:PRO:HD3	2.22	0.59
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.83	0.59
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.17	0.59
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.03	0.59
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.84	0.59
2:C:102:HIS:HB2	2:C:106:GLY:O	2.02	0.59
3:D:51:GLY:HA3	9:D:9784:HOH:O	2.02	0.59
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.66	0.59
2:C:18:LEU:HD21	2:C:542:VAL:HG11	1.82	0.59
2:M:89:THR:HA	2:M:129:ILE:O	2.03	0.59
2:C:595:LEU:HD11	9:C:9740:HOH:O	2.02	0.59
3:D:530:VAL:HG11	9:F:9549:HOH:O	2.01	0.59
3:N:950:GLY:O	3:N:953:ASP:N	2.31	0.59
3:N:975:GLU:HA	9:N:9710:HOH:O	2.03	0.59
3:N:1403:LEU:HD23	3:N:1407:LEU:HD22	1.83	0.59
1:L:90:LEU:HB3	9:L:4208:HOH:O	2.02	0.59
2:M:499:ALA:HA	9:M:2087:HOH:O	2.01	0.59
3:D:1119:SER:HA	3:D:1186:VAL:O	2.02	0.59
3:N:1176:LYS:HD3	3:N:1176:LYS:O	2.02	0.59
3:N:8:VAL:HG11	9:N:9848:HOH:O	2.01	0.59
2:C:284:ARG:HG2	2:C:285:LEU:H	1.68	0.59
3:D:528:VAL:HG23	3:D:536:ALA:O	2.03	0.59
2:M:141:HIS:CE1	2:M:334:ARG:HE	2.20	0.59
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.85	0.59
2:M:1042:ALA:HB3	3:N:710:ARG:HB3	1.84	0.59
3:D:1420:LEU:HD12	3:D:1421:LEU:H	1.67	0.59
1:A:226:SER:O	1:A:228:PRO:HD3	2.01	0.59
2:M:617:ASP:HB2	9:M:2181:HOH:O	2.03	0.59
3:N:546:ARG:HA	9:N:9543:HOH:O	2.01	0.59
3:N:573:MET:HG2	9:N:9529:HOH:O	2.01	0.59
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:383:ARG:HB2	2:C:383:ARG:CZ	2.31	0.59
2:M:689:VAL:CG2	2:M:870:ILE:HB	2.32	0.59
4:E:48:MET:N	4:E:54:LEU:HB2	2.17	0.59
3:D:793:THR:HG22	3:D:879:ARG:HA	1.84	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
1:L:148:VAL:HG22	9:L:4917:HOH:O	2.02	0.59
2:M:541:SER:HB2	9:M:9944:HOH:O	2.03	0.59
2:C:276:LYS:O	2:C:280:LYS:HB2	2.02	0.59
3:N:884:ARG:HB2	9:N:2140:HOH:O	2.02	0.59
2:C:8:ARG:NH1	2:C:8:ARG:HB2	2.18	0.59
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.32	0.59
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.02	0.59
3:D:1124:GLN:HE21	3:D:1135:ARG:HA	1.67	0.59
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.84	0.59
3:D:139:GLY:O	3:D:147:VAL:HB	2.02	0.59
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.38	0.59
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.85	0.59
3:D:857:ILE:HA	9:D:2193:HOH:O	2.02	0.59
3:N:59:ALA:HA	9:N:9941:HOH:O	2.02	0.59
5:P:350:LEU:HA	9:P:3715:HOH:O	2.02	0.59
2:C:6:PHE:HB2	9:C:2024:HOH:O	2.01	0.59
5:F:256:ARG:CZ	5:F:260:ILE:HD12	2.32	0.59
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.33	0.59
1:K:36:LEU:O	1:K:39:PRO:HD2	2.03	0.59
4:O:48:MET:N	4:O:54:LEU:HB2	2.17	0.59
3:N:172:PRO:HD2	3:N:389:GLU:O	2.03	0.59
3:N:441:ARG:O	3:N:443:VAL:HG23	2.02	0.59
4:E:87:LYS:HB2	9:E:9519:HOH:O	2.01	0.59
3:N:820:GLU:HG2	3:N:825:ALA:O	2.03	0.59
3:N:1110:ALA:HB3	9:N:9637:HOH:O	2.01	0.59
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.32	0.59
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.84	0.59
2:M:129:ILE:HA	9:M:9795:HOH:O	2.02	0.59
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.68	0.59
2:M:437:ARG:NH1	2:M:488:ALA:HA	2.17	0.59
3:D:817:GLU:HG2	3:D:840:LYS:NZ	2.17	0.59
2:C:376:ARG:HH22	5:F:285:GLU:HB3	1.67	0.59
2:C:708:TYR:H	2:C:708:TYR:HD1	1.49	0.59
4:O:45:ARG:O	4:O:47:LYS:HE3	2.03	0.59
1:K:94:LEU:HD11	1:K:119:ASP:HB3	1.84	0.59
1:L:137:ARG:NH1	1:L:137:ARG:HB3	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.38	0.59
1:B:216:GLU:HB2	9:B:9598:HOH:O	2.03	0.59
1:K:2:LEU:HD22	9:K:5005:HOH:O	2.03	0.59
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.85	0.58
2:C:536:PRO:HD2	2:C:537:LYS:HD2	1.85	0.58
5:P:385:GLU:O	5:P:397:ILE:HD13	2.03	0.58
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.02	0.58
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	2.17	0.58
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.84	0.58
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.83	0.58
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.18	0.58
2:C:750:LYS:HD2	9:C:9787:HOH:O	2.02	0.58
3:N:422:ALA:H	3:N:427:VAL:CG1	2.16	0.58
3:D:187:LYS:HD3	9:D:9662:HOH:O	2.01	0.58
2:C:975:TYR:HA	2:C:982:PRO:HA	1.84	0.58
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.31	0.58
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.33	0.58
2:C:655:LEU:HB2	9:C:9812:HOH:O	2.02	0.58
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.84	0.58
2:C:1054:THR:HG22	2:C:1059:ASP:OD2	2.03	0.58
2:C:993:PHE:CE1	2:C:995:MET:HG2	2.37	0.58
5:P:419:ARG:HG3	5:P:420:ASP:H	1.68	0.58
3:N:1492:LEU:HD12	3:N:1493:LYS:NZ	2.18	0.58
5:F:404:ALA:HB3	9:F:9613:HOH:O	2.01	0.58
3:D:1288:GLU:OE2	3:D:1289:LYS:HE3	2.03	0.58
1:L:16:GLN:HB2	9:L:4742:HOH:O	2.01	0.58
5:P:96:LEU:HB2	9:P:5295:HOH:O	2.03	0.58
2:C:431:HIS:CD2	2:C:433:THR:H	2.21	0.58
3:D:601:ARG:NH2	3:D:612:GLY:HA2	2.19	0.58
2:M:242:LEU:HD23	2:M:244:PRO:HD3	1.85	0.58
3:D:671:LYS:HG2	9:F:9580:HOH:O	2.03	0.58
3:N:984:THR:H	3:N:987:GLU:CD	2.06	0.58
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.84	0.58
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.85	0.58
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.38	0.58
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.85	0.58
3:D:101:HIS:CE1	3:D:582:LEU:HD22	2.38	0.58
2:C:732:ALA:HB3	9:C:9678:HOH:O	2.04	0.58
3:D:834:THR:HB	3:D:838:ARG:HB3	1.85	0.58
2:M:500:ASN:HB3	9:M:9721:HOH:O	2.03	0.58
3:N:440:VAL:HG23	9:N:9588:HOH:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:86:LYS:HE3	2:M:813:VAL:HG12	1.85	0.58
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.85	0.58
9:M:9760:HOH:O	3:N:1047:LYS:HD3	2.03	0.58
2:C:203:ASP:HB2	9:C:2302:HOH:O	2.03	0.58
2:C:698:ASP:HA	9:C:9547:HOH:O	2.04	0.58
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.18	0.58
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.85	0.58
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.31	0.58
3:D:148:GLU:HA	9:D:2669:HOH:O	2.03	0.58
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.17	0.58
9:D:2680:HOH:O	5:F:375:LEU:HD21	2.02	0.58
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.85	0.58
3:D:1136:LYS:HA	9:D:2534:HOH:O	2.03	0.58
3:D:1129:THR:HA	9:D:9663:HOH:O	2.03	0.58
3:D:1129:THR:HG22	9:D:2414:HOH:O	2.02	0.58
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.32	0.58
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.85	0.58
5:P:269:ASN:HB3	5:P:273:ARG:HH21	1.68	0.58
2:C:630:ARG:HA	2:C:705:ILE:HD11	1.85	0.58
2:M:204:GLN:HB3	9:M:9981:HOH:O	2.03	0.58
4:O:43:GLU:HG2	4:O:44:GLU:H	1.67	0.58
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.17	0.58
2:M:890:LEU:HA	2:M:914:ILE:CD1	2.33	0.58
5:F:393:THR:HG22	5:F:394:ARG:H	1.69	0.58
2:C:145:GLY:HA3	9:C:2408:HOH:O	2.04	0.58
5:F:410:TYR:HD2	5:F:414:ARG:HH22	1.50	0.58
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.85	0.58
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.84	0.58
3:N:111:LYS:HZ1	3:N:498:VAL:HG12	1.67	0.58
1:B:5:LYS:O	1:B:8:ALA:HB2	2.04	0.58
2:C:104:ASP:HB2	9:C:9663:HOH:O	2.03	0.58
2:M:973:VAL:O	2:M:974:LEU:HD12	2.03	0.58
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.86	0.58
1:B:86:VAL:HA	9:B:9563:HOH:O	2.03	0.58
5:P:155:THR:HA	5:P:158:GLU:OE2	2.04	0.58
2:C:244:PRO:CD	2:C:245:GLY:H	2.15	0.58
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.33	0.58
3:N:470:LEU:HD23	9:N:9663:HOH:O	2.02	0.58
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.03	0.58
2:M:525:SER:OG	2:M:528:GLU:HG3	2.04	0.58
5:P:291:ILE:O	5:P:295:MET:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:574:LEU:O	3:D:578:VAL:HG23	2.03	0.58
3:D:804:LEU:HD23	3:D:804:LEU:H	1.68	0.58
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.84	0.58
3:D:788:GLY:O	3:D:792:ILE:HG22	2.02	0.58
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.38	0.58
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.85	0.58
3:D:380:GLU:O	3:D:382:GLU:N	2.36	0.58
3:N:1441:GLN:NE2	3:N:1442:ASN:H	2.00	0.58
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.84	0.58
2:C:469:THR:HG23	2:C:470:PRO:HD2	1.84	0.58
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.04	0.58
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.32	0.58
3:D:584:ASN:HD22	3:D:584:ASN:C	2.07	0.58
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.07	0.58
2:M:838:LYS:HD2	2:M:846:LYS:HZ3	1.69	0.58
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.68	0.58
2:C:15:LEU:HD13	2:C:583:LEU:HD11	1.85	0.58
2:M:705:ILE:HD11	9:M:9812:HOH:O	2.03	0.58
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.39	0.58
1:A:2:LEU:HB2	9:A:9681:HOH:O	2.03	0.58
2:C:826:TYR:HD1	9:C:9672:HOH:O	1.85	0.58
5:P:294:ALA:HB2	9:P:3431:HOH:O	2.02	0.58
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.84	0.58
3:N:616:GLN:OE1	3:N:619:LEU:HB3	2.03	0.58
3:N:805:GLU:HB3	9:N:9995:HOH:O	2.02	0.58
3:D:178:LEU:CD2	3:D:199:LEU:H	2.17	0.58
2:C:497:ALA:HA	2:C:515:ALA:HA	1.86	0.58
2:C:981:GLU:HG3	9:C:9552:HOH:O	2.04	0.58
2:C:945:ARG:NH1	2:C:945:ARG:HB3	2.16	0.58
2:M:145:GLY:HA3	9:M:9769:HOH:O	2.02	0.58
3:N:119:SER:CB	3:N:123:LEU:HB2	2.34	0.58
3:N:1124:GLN:N	3:N:1133:ARG:O	2.36	0.58
3:N:1119:SER:HA	3:N:1186:VAL:O	2.03	0.58
2:M:772:ARG:HB2	2:M:772:ARG:NH1	2.19	0.58
2:M:49:ARG:HD3	9:M:9640:HOH:O	2.01	0.58
3:N:969:ARG:O	3:N:972:LEU:HB3	2.04	0.58
3:D:1372:VAL:HA	3:D:1375:MET:SD	2.44	0.58
2:M:27:ARG:HD3	9:M:9741:HOH:O	2.03	0.58
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.84	0.58
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.85	0.58
1:L:81:ASN:O	1:L:84:GLU:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:526:PRO:HB2	9:C:9595:HOH:O	2.02	0.58
9:N:9535:HOH:O	5:P:326:ASP:HB2	2.03	0.58
1:B:92:PRO:HA	1:B:146:ARG:NH1	2.18	0.58
2:C:1110:ASP:HA	9:C:9781:HOH:O	2.04	0.58
3:D:211:VAL:HG22	3:D:393:ILE:HG23	1.85	0.58
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.38	0.58
2:C:1003:ASP:HA	9:C:9634:HOH:O	2.04	0.58
3:D:1135:ARG:NH1	3:D:1357:ARG:HH22	2.02	0.58
5:F:138:SER:O	5:F:141:VAL:HG12	2.04	0.58
3:N:535:PHE:CB	5:P:314:PRO:HB3	2.34	0.58
3:D:139:GLY:H	3:D:147:VAL:HG21	1.69	0.58
2:M:841:ASN:OD1	2:M:845:ASN:HB3	2.04	0.58
5:F:102:LEU:O	5:F:106:VAL:HG23	2.04	0.58
9:M:2376:HOH:O	3:N:1079:LYS:HB2	2.04	0.58
1:B:14:ARG:HD2	9:B:9709:HOH:O	2.04	0.58
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.85	0.58
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.85	0.58
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.33	0.58
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.07	0.58
3:N:129:PHE:CE2	3:N:587:ARG:HD3	2.38	0.58
2:M:755:LEU:HB2	2:M:790:LEU:HD22	1.85	0.58
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.86	0.58
3:D:131:LYS:HA	3:D:456:MET:HG3	1.85	0.58
2:M:700:TYR:HB3	9:M:9662:HOH:O	2.04	0.58
2:M:846:LYS:HE3	9:M:9651:HOH:O	2.03	0.58
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.34	0.58
3:D:476:GLU:HG2	9:D:9483:HOH:O	2.02	0.58
1:B:47:SER:O	1:B:49:PRO:N	2.36	0.58
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.04	0.58
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.38	0.58
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.85	0.58
2:C:122:THR:HB	2:C:124:ASP:OD1	2.03	0.58
3:N:701:LEU:HD23	3:N:748:HIS:HB2	1.85	0.58
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.24	0.58
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.85	0.58
2:M:913:GLU:HG3	9:M:9616:HOH:O	2.04	0.58
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.86	0.57
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.03	0.57
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.03	0.57
5:F:136:LEU:HD12	5:F:137:GLY:N	2.19	0.57
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.85	0.57
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.86	0.57
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.39	0.57
3:D:493:ARG:HH12	3:D:1390:LEU:H	1.51	0.57
3:N:1280:VAL:HG22	9:N:9926:HOH:O	2.04	0.57
3:D:483:HIS:ND1	3:D:483:HIS:N	2.52	0.57
4:O:70:THR:HG21	4:O:72:ARG:HH21	1.69	0.57
1:L:226:SER:O	1:L:228:PRO:HD3	2.03	0.57
2:C:802:ARG:HB2	9:C:9893:HOH:O	2.04	0.57
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.57
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.85	0.57
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.69	0.57
1:B:86:VAL:CG1	1:B:124:ASN:HD22	2.10	0.57
2:C:108:ILE:HD11	2:C:365:ASP:OD2	2.04	0.57
1:A:133:GLU:HB2	9:C:2067:HOH:O	2.04	0.57
5:P:373:LYS:HD3	5:P:378:GLY:C	2.25	0.57
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	2.03	0.57
3:N:181:ASP:OD2	3:N:199:LEU:HB2	2.05	0.57
3:N:972:LEU:HD23	3:N:973:GLN:N	2.18	0.57
3:D:1376:MET:SD	3:D:1421:LEU:HD12	2.44	0.57
3:N:480:GLU:O	3:N:484:PRO:HD2	2.04	0.57
2:C:720:GLU:HA	2:C:759:THR:O	2.04	0.57
3:D:1293:PHE:CD2	3:D:1302:GLU:HA	2.38	0.57
1:A:158:ILE:HD13	9:A:9582:HOH:O	2.04	0.57
1:A:79:ILE:HD11	9:A:9511:HOH:O	2.04	0.57
1:A:80:LEU:HD22	9:A:9571:HOH:O	2.02	0.57
2:C:662:GLU:HG3	9:C:2147:HOH:O	2.04	0.57
3:N:408:GLU:HG3	9:N:9853:HOH:O	2.04	0.57
3:N:625:TYR:O	3:N:749:VAL:HG23	2.05	0.57
2:C:99:GLN:HB2	9:C:2236:HOH:O	2.04	0.57
3:N:572:ARG:NH2	5:P:83:GLN:HG3	2.13	0.57
5:P:408:LEU:O	5:P:412:GLU:HG2	2.03	0.57
2:C:1005:MET:HB2	3:D:629:SER:HB2	1.85	0.57
3:D:704:ARG:HG2	3:D:736:PHE:HB3	1.84	0.57
1:K:156:HIS:HD2	1:K:157:GLY:H	1.50	0.57
2:M:56:GLU:HG2	2:M:64:LEU:HD23	1.85	0.57
1:A:222:LEU:HD11	1:B:218:LEU:HD23	1.85	0.57
3:N:804:LEU:HG	9:N:9546:HOH:O	2.04	0.57
3:D:477:LEU:HD23	9:D:9483:HOH:O	2.03	0.57
4:E:17:TYR:CD2	4:E:17:TYR:N	2.71	0.57
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:132:LEU:HD13	1:B:138:LEU:HD22	1.87	0.57
2:C:252:LYS:NZ	2:C:296:GLY:HA3	2.19	0.57
2:C:92:ALA:HB1	9:C:9550:HOH:O	2.03	0.57
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.34	0.57
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.86	0.57
2:M:130:ASN:HB3	9:M:9727:HOH:O	2.04	0.57
2:M:798:GLY:H	2:M:827:VAL:HG11	1.68	0.57
5:F:369:LEU:HD23	9:F:9483:HOH:O	2.02	0.57
2:C:799:ILE:HB	9:C:9767:HOH:O	2.03	0.57
2:C:101:ILE:HD12	2:C:107:LEU:HD13	1.86	0.57
5:P:208:SER:HB2	5:P:211:ASP:CG	2.25	0.57
3:D:603:LEU:O	3:D:607:LEU:HD12	2.04	0.57
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.86	0.57
2:M:976:ASP:CB	2:M:979:THR:HG22	2.35	0.57
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.40	0.57
1:L:36:LEU:HB3	9:L:4428:HOH:O	2.04	0.57
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.39	0.57
3:D:929:ARG:HD3	9:D:2352:HOH:O	2.04	0.57
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.04	0.57
3:N:212:ARG:HD2	9:N:9862:HOH:O	2.03	0.57
2:M:269:LEU:HG	2:M:285:LEU:HD21	1.87	0.57
5:P:419:ARG:HG3	5:P:420:ASP:N	2.20	0.57
1:K:20:TYR:CD2	1:K:21:GLY:N	2.73	0.57
3:D:369:ALA:HB3	9:D:2237:HOH:O	2.03	0.57
1:A:72:LYS:HD2	1:A:73:GLU:OE2	2.05	0.57
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.19	0.57
5:P:160:ASP:HB2	9:P:4343:HOH:O	2.03	0.57
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.09	0.57
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.86	0.57
3:D:1431:THR:HG21	9:D:9888:HOH:O	2.04	0.57
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.85	0.57
2:M:575:GLN:H	2:M:667:ALA:HB1	1.69	0.57
1:A:114:PHE:HB3	9:A:9585:HOH:O	2.04	0.57
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.05	0.57
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.85	0.57
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.34	0.57
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.86	0.57
3:D:817:GLU:O	3:D:821:VAL:HG23	2.04	0.57
2:C:598:GLU:O	2:C:651:LYS:HG3	2.04	0.57
2:C:841:ASN:HD21	2:C:845:ASN:N	2.03	0.57
2:C:214:TYR:HD2	9:C:9769:HOH:O	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:60:ALA:O	4:E:63:TRP:HB2	2.05	0.57
1:A:123:MET:O	1:A:125:PRO:HD3	2.04	0.57
3:D:422:ALA:H	3:D:427:VAL:CG1	2.16	0.57
3:D:540:LEU:HD21	3:D:603:LEU:HD21	1.87	0.57
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.85	0.57
2:C:580:MET:O	2:C:902:ILE:HA	2.04	0.57
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.87	0.57
2:M:45:GLN:HG2	9:M:2429:HOH:O	2.03	0.57
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.04	0.57
2:M:1082:PRO:HA	9:M:9532:HOH:O	2.04	0.57
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.87	0.57
4:O:85:LEU:HD23	4:O:86:GLN:H	1.70	0.57
3:D:1289:LYS:HD2	9:D:9996:HOH:O	2.04	0.57
1:A:107:LYS:HA	9:A:9530:HOH:O	2.03	0.57
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.04	0.57
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.86	0.57
3:D:1094:LEU:HB3	9:D:9776:HOH:O	2.04	0.57
2:C:208:ALA:O	2:C:218:VAL:HG21	2.05	0.57
3:N:119:SER:H	3:N:123:LEU:CD2	2.18	0.57
3:N:1103:HIS:HD2	3:N:1462:LEU:H	1.53	0.57
2:M:143:SER:HB3	2:M:330:ASN:O	2.03	0.57
2:M:1104:GLU:HA	3:N:6:ARG:CD	2.35	0.57
5:F:205:ARG:HG2	9:F:9829:HOH:O	2.05	0.57
2:M:292:ARG:HD2	2:M:299:LYS:HG2	1.85	0.57
5:P:223:ALA:HA	9:P:6226:HOH:O	2.05	0.57
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.34	0.57
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.35	0.57
2:M:112:GLU:HG3	9:M:9726:HOH:O	2.03	0.57
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.57
4:O:4:PRO:HG2	9:O:6061:HOH:O	2.05	0.57
1:A:182:GLU:HG2	9:A:9502:HOH:O	2.03	0.57
5:P:131:VAL:CG1	5:P:181:GLU:HG3	2.33	0.57
2:C:882:LEU:HD22	3:D:951:ILE:HD13	1.86	0.57
2:C:1005:MET:HE2	3:D:648:MET:HB2	1.87	0.57
1:K:227:ASN:N	1:K:227:ASN:HD22	2.01	0.57
5:F:361:LEU:HD12	5:F:408:LEU:HD11	1.87	0.57
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.20	0.57
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.69	0.57
4:O:48:MET:HB2	4:O:54:LEU:CD1	2.34	0.57
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.04	0.57
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:599:GLU:HG2	2:C:600:ASP:N	2.20	0.57
1:A:89:PHE:HE2	1:A:146:ARG:HD3	1.69	0.57
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.04	0.57
3:D:1350:GLU:O	3:D:1354:LYS:HG2	2.05	0.57
3:D:730:PRO:HA	3:D:733:CYS:SG	2.44	0.57
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.20	0.57
3:D:572:ARG:NH2	5:F:83:GLN:HG3	2.20	0.57
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.19	0.57
1:L:209:GLU:HB3	9:L:3774:HOH:O	2.05	0.57
9:L:5963:HOH:O	3:N:721:VAL:HG12	2.05	0.57
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.05	0.57
1:B:226:SER:O	1:B:228:PRO:HD3	2.04	0.57
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.86	0.57
3:D:1304:LYS:HD2	9:D:2299:HOH:O	2.04	0.57
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.40	0.57
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.87	0.57
3:D:1243:THR:OG1	3:D:1253:THR:HB	2.05	0.57
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.05	0.57
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.70	0.57
3:D:1353:GLN:HG3	9:D:2099:HOH:O	2.05	0.57
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.70	0.57
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.39	0.57
2:C:64:LEU:HD13	2:C:359:MET:HG3	1.86	0.57
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.87	0.57
3:N:22:SER:HB3	9:N:9776:HOH:O	2.04	0.57
2:M:1006:HIS:O	3:N:648:MET:HE2	2.04	0.57
5:P:256:ARG:HH12	5:P:313:GLU:HG2	1.70	0.57
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.87	0.57
3:N:1049:SER:HB3	3:N:1051:GLU:OE2	2.04	0.57
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.87	0.56
2:M:721:ARG:HG2	9:M:9686:HOH:O	2.05	0.56
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.86	0.56
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.45	0.56
5:F:166:LEU:O	5:F:171:LYS:HB2	2.04	0.56
2:C:513:VAL:HG23	9:C:2376:HOH:O	2.04	0.56
2:C:614:ARG:HG2	9:C:2116:HOH:O	2.04	0.56
4:O:66:LYS:HE3	9:O:4471:HOH:O	2.05	0.56
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.20	0.56
5:P:309:LYS:HA	5:P:312:GLN:HE21	1.70	0.56
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.86	0.56
3:N:699:VAL:N	3:N:756:GLN:HE22	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:89:ARG:HA	9:D:9567:HOH:O	2.05	0.56
3:D:148:GLU:HG2	3:D:151:GLN:NE2	2.20	0.56
3:D:133:ILE:HG22	3:D:455:ARG:N	2.20	0.56
5:P:404:ALA:O	5:P:408:LEU:HD23	2.05	0.56
3:N:734:GLU:HB3	9:N:2085:HOH:O	2.04	0.56
3:D:470:LEU:HB2	3:D:503:LEU:HD11	1.87	0.56
3:D:510:GLU:O	3:D:513:ILE:HD12	2.05	0.56
3:N:395:VAL:HG23	9:N:2392:HOH:O	2.06	0.56
2:M:231:PRO:HB2	9:M:9876:HOH:O	2.05	0.56
3:D:695:ILE:HG21	3:D:720:LEU:HD11	1.87	0.56
3:N:488:ARG:HH11	3:N:488:ARG:HB3	1.70	0.56
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.85	0.56
3:D:81:THR:O	3:D:82:LYS:O	2.22	0.56
5:P:299:TRP:HE3	9:P:3308:HOH:O	1.87	0.56
5:F:142:ARG:HB2	9:F:9491:HOH:O	2.05	0.56
2:M:1079:PRO:HA	9:M:9805:HOH:O	2.05	0.56
1:K:20:TYR:HD2	1:K:21:GLY:N	2.03	0.56
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.87	0.56
5:F:208:SER:HA	9:F:9790:HOH:O	2.05	0.56
3:D:967:ALA:O	3:D:995:LEU:HD21	2.04	0.56
2:M:750:LYS:HG3	3:N:680:GLN:OE1	2.05	0.56
3:N:1336:LEU:HD23	9:N:2315:HOH:O	2.04	0.56
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.04	0.56
3:D:1087:ARG:HD3	3:D:1090:ASP:CB	2.34	0.56
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.35	0.56
3:N:80:VAL:HG12	3:N:81:THR:N	2.20	0.56
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.69	0.56
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.40	0.56
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.34	0.56
2:M:1008:ARG:NH1	2:M:1011:GLY:HA3	2.21	0.56
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.05	0.56
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.19	0.56
2:C:684:PHE:HE2	3:D:733:CYS:HG	1.52	0.56
3:D:607:LEU:HB3	3:D:614:PHE:HE2	1.70	0.56
3:D:1031:ASN:HB3	3:D:1034:GLN:CG	2.35	0.56
2:M:145:GLY:O	2:M:163:ILE:HG23	2.04	0.56
9:C:9961:HOH:O	5:F:354:LEU:HD11	2.05	0.56
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.88	0.56
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.87	0.56
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.87	0.56
1:B:206:THR:CG2	1:B:209:GLU:H	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.87	0.56
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.40	0.56
3:N:969:ARG:HB2	9:N:9844:HOH:O	2.05	0.56
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.87	0.56
2:C:172:ILE:H	2:C:172:ILE:HD12	1.70	0.56
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.20	0.56
2:C:640:ARG:HH11	2:C:642:ARG:HH22	1.52	0.56
3:N:865:THR:HG23	3:N:874:GLU:HG2	1.86	0.56
3:D:486:ARG:HH21	3:D:489:ARG:CZ	2.18	0.56
5:F:401:GLU:O	5:F:405:LEU:HB2	2.05	0.56
5:P:355:GLU:HA	9:P:3471:HOH:O	2.05	0.56
5:P:289:GLU:O	5:P:293:GLU:HG3	2.05	0.56
3:N:411:THR:HG23	3:N:429:SER:HB3	1.87	0.56
1:K:5:LYS:O	1:K:8:ALA:HB2	2.06	0.56
5:P:401:GLU:O	5:P:405:LEU:HB2	2.05	0.56
3:N:1279:GLY:O	3:N:1318:TYR:HA	2.05	0.56
3:N:1394:VAL:HG11	9:N:9728:HOH:O	2.04	0.56
3:N:683:ILE:HG21	3:N:688:TRP:CZ3	2.41	0.56
3:D:1191:PRO:HB3	3:D:1370:ILE:HD13	1.87	0.56
2:C:585:GLU:O	2:C:588:VAL:HG22	2.04	0.56
3:N:138:LYS:HA	9:N:9563:HOH:O	2.04	0.56
3:D:58:CYS:SG	3:D:59:ALA:N	2.78	0.56
3:D:1087:ARG:NH2	3:D:1238:MET:HB2	2.21	0.56
1:B:150:TYR:CE2	3:D:857:ILE:HG13	2.40	0.56
3:N:53:ILE:HG23	3:N:54:LYS:N	2.18	0.56
3:D:424:GLY:HA2	3:D:435:VAL:O	2.05	0.56
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.69	0.56
5:P:264:MET:O	5:P:267:THR:HB	2.05	0.56
2:C:275:TYR:CD2	2:C:276:LYS:HG3	2.41	0.56
3:N:530:VAL:HG23	3:N:534:ARG:O	2.05	0.56
5:P:230:LYS:HB2	9:P:4672:HOH:O	2.04	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.05	0.56
4:O:81:PRO:HB2	9:O:4797:HOH:O	2.05	0.56
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.39	0.56
2:M:173:ASP:O	2:M:184:MET:HA	2.04	0.56
3:D:774:SER:C	3:D:776:GLU:H	2.08	0.56
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.86	0.56
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.21	0.56
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.87	0.56
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.87	0.56
3:N:1122:LEU:O	3:N:1134:LEU:HD12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.41	0.56
3:N:804:LEU:HD23	3:N:804:LEU:H	1.71	0.56
2:C:338:GLU:HA	2:C:341:THR:HG22	1.88	0.56
2:M:742:VAL:HG12	2:M:743:VAL:N	2.21	0.56
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.87	0.56
2:M:1071:ILE:HG13	9:M:9978:HOH:O	2.03	0.56
3:N:788:GLY:O	3:N:792:ILE:HG22	2.05	0.56
2:C:227:PHE:HD2	2:C:230:ARG:HH21	1.54	0.56
4:O:94:PRO:HA	9:O:5690:HOH:O	2.05	0.56
5:P:407:LYS:HA	9:P:3848:HOH:O	2.05	0.56
2:M:116:GLY:HA3	2:M:378:LEU:HD23	1.88	0.56
3:D:1091:SER:HA	9:D:2229:HOH:O	2.06	0.56
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.05	0.56
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.86	0.56
3:N:699:VAL:H	3:N:756:GLN:HE22	1.52	0.56
2:C:89:THR:HA	2:C:129:ILE:O	2.06	0.56
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.05	0.56
5:F:291:ILE:O	5:F:295:MET:HB2	2.06	0.56
2:M:139:GLN:HG2	2:M:140:ILE:H	1.70	0.56
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.40	0.56
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.88	0.56
3:D:901:GLN:HB2	9:D:2047:HOH:O	2.06	0.56
2:M:41:ASN:HB2	9:M:2429:HOH:O	2.04	0.56
2:C:114:PHE:HD1	2:C:114:PHE:H	1.53	0.56
3:N:661:MET:HG2	3:N:666:ILE:HD12	1.87	0.56
5:P:226:LYS:HE3	9:P:4530:HOH:O	2.05	0.56
2:C:837:ASP:HA	2:C:999:HIS:HE1	1.71	0.56
3:N:864:VAL:HG12	3:N:865:THR:H	1.68	0.56
2:C:648:ARG:HB3	9:C:2219:HOH:O	2.06	0.56
3:N:949:ILE:HD11	3:N:1023:MET:HE1	1.87	0.56
1:A:81:ASN:HA	1:A:84:GLU:OE2	2.06	0.56
2:M:257:VAL:HG13	9:M:9572:HOH:O	2.06	0.56
2:M:789:SER:O	2:M:791:ARG:HG2	2.06	0.56
2:C:257:VAL:HG21	9:C:2339:HOH:O	2.05	0.56
2:M:276:LYS:O	2:M:280:LYS:HB2	2.05	0.56
2:M:589:ARG:CB	2:M:589:ARG:HH11	2.17	0.56
3:N:714:GLN:HB2	3:N:736:PHE:HZ	1.71	0.56
3:D:699:VAL:HG12	3:D:717:GLN:HG3	1.86	0.56
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.34	0.56
3:N:814:ALA:HB2	9:N:9921:HOH:O	2.06	0.56
3:D:68:PHE:HE2	9:D:2680:HOH:O	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:842:VAL:HG22	9:D:2270:HOH:O	2.05	0.56
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.06	0.56
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.88	0.56
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.41	0.56
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.87	0.56
3:N:1495:ILE:HG23	9:N:9711:HOH:O	2.06	0.56
3:N:1429:LEU:HG	3:N:1441:GLN:HG3	1.88	0.56
2:M:484:VAL:HA	9:M:9777:HOH:O	2.06	0.56
4:E:95:GLY:HA3	9:E:9521:HOH:O	2.05	0.56
1:B:2:LEU:HD12	1:B:3:ASP:N	2.20	0.56
2:C:100:LEU:HD12	2:C:101:ILE:O	2.06	0.56
3:D:132:TYR:HA	9:D:9863:HOH:O	2.06	0.56
2:C:1003:ASP:O	2:C:1005:MET:N	2.38	0.56
3:D:488:ARG:HG2	9:D:9629:HOH:O	2.06	0.56
5:F:385:GLU:O	5:F:397:ILE:HD13	2.05	0.56
3:N:1301:LYS:HD2	9:N:2174:HOH:O	2.05	0.56
5:F:418:LEU:HB2	9:F:9856:HOH:O	2.06	0.56
2:C:630:ARG:HH22	2:C:707:ARG:N	2.04	0.56
3:D:135:LEU:HD11	3:D:139:GLY:HA3	1.86	0.56
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.35	0.56
3:D:971:LEU:O	3:D:975:GLU:HG3	2.06	0.56
3:D:799:LYS:H	3:D:826:PRO:HG2	1.71	0.56
2:C:965:GLU:HG2	9:C:2373:HOH:O	2.06	0.56
1:K:106:PRO:HD3	9:K:4154:HOH:O	2.06	0.56
5:F:234:LYS:CD	5:F:236:SER:HB3	2.35	0.56
1:A:128:HIS:HB2	9:A:9508:HOH:O	2.06	0.56
2:C:54:ILE:HB	9:C:9495:HOH:O	2.05	0.56
2:C:36:PRO:HB2	2:C:70:GLU:HG2	1.88	0.56
2:M:551:GLU:HA	2:M:906:PHE:CE2	2.41	0.56
3:D:142:LEU:HA	9:D:9874:HOH:O	2.05	0.56
3:D:790:TYR:HD2	3:D:906:GLN:O	1.89	0.56
5:F:191:ASN:CA	5:F:194:LEU:HD23	2.34	0.56
2:M:442:GLU:HG3	9:M:9719:HOH:O	2.06	0.56
2:C:265:ARG:HA	9:C:9902:HOH:O	2.04	0.56
3:N:68:PHE:O	3:N:71:LYS:HG2	2.05	0.56
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.06	0.56
1:B:25:LEU:HD23	1:B:28:LEU:HD21	1.87	0.56
3:D:1334:GLN:HA	9:D:9693:HOH:O	2.05	0.56
3:N:1204:CYS:HB3	9:N:9589:HOH:O	2.05	0.56
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.88	0.56
3:N:574:LEU:O	3:N:578:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:137:ARG:HH11	1:L:137:ARG:HB3	1.71	0.56
3:D:1289:LYS:HB3	9:D:2542:HOH:O	2.06	0.56
3:D:33:ASN:HA	9:F:9729:HOH:O	2.05	0.56
3:D:1335:LEU:HD21	9:D:9614:HOH:O	2.05	0.56
1:A:7:LYS:HG3	9:A:9524:HOH:O	2.05	0.56
2:C:57:GLU:HB3	9:C:9973:HOH:O	2.05	0.56
3:N:783:ARG:HE	3:N:1029:ARG:CD	2.18	0.56
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.15	0.56
3:D:192:ALA:O	3:D:195:VAL:HG23	2.05	0.56
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.71	0.56
2:M:1008:ARG:HD2	3:N:624:ASP:O	2.06	0.56
2:C:879:ARG:HB2	9:C:9557:HOH:O	2.06	0.56
3:D:524:LEU:C	3:D:526:PRO:HD3	2.26	0.56
4:E:26:ARG:O	4:E:29:GLN:HG3	2.06	0.56
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.88	0.56
9:K:6004:HOH:O	1:L:43:ILE:HD13	2.05	0.56
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.06	0.56
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.40	0.56
2:C:838:LYS:HD2	2:C:997:LEU:HD12	1.86	0.56
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.36	0.56
5:F:234:LYS:HD3	5:F:236:SER:HB3	1.88	0.56
2:M:584:GLU:H	2:M:584:GLU:CD	2.08	0.56
5:F:81:VAL:O	5:F:85:LEU:HG	2.06	0.55
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.06	0.55
3:D:1209:LEU:HD22	3:D:1211:MET:CE	2.36	0.55
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.24	0.55
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.40	0.55
2:M:206:THR:O	2:M:210:GLU:HG3	2.05	0.55
2:M:911:GLU:O	2:M:915:LYS:HG2	2.06	0.55
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.25	0.55
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.88	0.55
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.88	0.55
3:N:36:THR:C	3:N:38:LYS:H	2.09	0.55
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.88	0.55
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.88	0.55
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.06	0.55
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.05	0.55
3:D:999:THR:O	3:D:1002:LYS:HB2	2.06	0.55
1:L:103:ALA:HA	9:L:4911:HOH:O	2.06	0.55
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.88	0.55
3:N:787:LEU:HD21	3:N:947:ILE:HD11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1278:ASP:HB2	3:N:1318:TYR:HE1	1.70	0.55
2:M:61:LYS:HD2	9:M:9929:HOH:O	2.06	0.55
3:N:1342:GLU:CD	3:N:1342:GLU:H	2.09	0.55
2:C:236:ILE:HG13	9:C:9904:HOH:O	2.05	0.55
2:C:426:ASP:OD1	2:C:427:VAL:HG23	2.05	0.55
2:C:269:LEU:O	2:C:269:LEU:HD23	2.06	0.55
2:C:724:ARG:NH2	2:C:734:LEU:HB3	2.20	0.55
2:M:957:LYS:HG2	9:M:9678:HOH:O	2.05	0.55
3:N:390:PRO:HG2	9:N:2717:HOH:O	2.06	0.55
2:M:772:ARG:HE	5:P:373:LYS:HD2	1.70	0.55
2:M:772:ARG:NE	5:P:373:LYS:HD2	2.21	0.55
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.35	0.55
3:D:737:ASN:HA	9:D:9487:HOH:O	2.05	0.55
1:K:227:ASN:HB2	9:K:5811:HOH:O	2.05	0.55
2:C:389:SER:C	2:C:391:LEU:H	2.08	0.55
2:M:577:PRO:HA	2:M:993:PHE:HD2	1.72	0.55
2:M:1090:LYS:HE2	2:M:1112:PHE:HE1	1.71	0.55
3:N:1459:LEU:HD22	3:N:1465:ASN:ND2	2.20	0.55
2:M:208:ALA:O	2:M:218:VAL:HG21	2.06	0.55
5:P:304:VAL:HG22	9:P:3308:HOH:O	2.06	0.55
3:D:709:HIS:HE2	3:D:711:LEU:HB2	1.71	0.55
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.86	0.55
2:M:748:GLU:HG3	9:M:2069:HOH:O	2.05	0.55
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.41	0.55
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.05	0.55
1:K:181:VAL:HG11	9:K:3503:HOH:O	2.05	0.55
3:N:1401:GLU:OE1	3:N:1415:VAL:HG11	2.06	0.55
5:P:82:ARG:HG3	5:P:86:HIS:CE1	2.41	0.55
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.87	0.55
2:M:1027:PHE:HA	9:M:9907:HOH:O	2.05	0.55
2:C:1086:ARG:HH11	3:D:88:TYR:HE1	1.54	0.55
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.19	0.55
2:C:976:ASP:CB	2:C:979:THR:HG22	2.37	0.55
3:D:966:GLU:O	3:D:969:ARG:HG2	2.06	0.55
3:D:1097:LYS:HD3	9:D:9906:HOH:O	2.07	0.55
3:N:397:LYS:HB2	9:N:2381:HOH:O	2.05	0.55
2:C:758:ARG:HB3	2:C:788:THR:O	2.07	0.55
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.22	0.55
5:F:278:LEU:HD22	5:F:290:GLU:HB3	1.88	0.55
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.88	0.55
2:C:811:PRO:HD3	9:C:9578:HOH:O	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.06	0.55
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.06	0.55
3:D:121:THR:HG23	9:D:2262:HOH:O	2.06	0.55
1:K:122:ILE:HD12	9:K:4736:HOH:O	2.05	0.55
3:D:1094:LEU:HD23	3:D:1230:GLY:HA2	1.87	0.55
1:A:212:ASN:O	1:A:215:VAL:HG22	2.06	0.55
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.17	0.55
2:C:479:VAL:HG23	2:C:506:ASN:HA	1.88	0.55
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.07	0.55
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.40	0.55
1:A:75:VAL:N	9:A:9598:HOH:O	2.39	0.55
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.87	0.55
3:D:698:LYS:HA	9:E:9480:HOH:O	2.06	0.55
2:M:41:ASN:O	2:M:46:ALA:HB2	2.06	0.55
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.42	0.55
5:F:247:ILE:O	5:F:251:ILE:HG13	2.06	0.55
4:O:76:GLY:HA3	4:O:79:LEU:HD13	1.89	0.55
2:C:1015:LEU:HD22	5:F:333:ILE:HG21	1.88	0.55
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.22	0.55
2:M:12:VAL:HG13	2:M:13:ILE:HG23	1.89	0.55
3:D:119:SER:CB	3:D:123:LEU:HB2	2.37	0.55
2:C:460:ARG:HD2	2:C:485:TYR:CE2	2.41	0.55
3:D:764:LEU:HB3	9:D:9549:HOH:O	2.07	0.55
3:D:536:ALA:HA	9:F:9527:HOH:O	2.07	0.55
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.70	0.55
5:F:195:VAL:HG11	5:F:217:ASN:OD1	2.07	0.55
2:M:567:GLN:HB2	2:M:997:LEU:HD22	1.88	0.55
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.89	0.55
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.88	0.55
2:M:975:TYR:HA	2:M:982:PRO:HA	1.88	0.55
2:M:953:VAL:HG13	2:M:966:LEU:HD22	1.89	0.55
2:C:198:ARG:NH2	2:C:203:ASP:HB3	2.22	0.55
2:C:808:ARG:HG2	9:C:9965:HOH:O	2.05	0.55
2:C:544:THR:O	2:C:547:ILE:HG13	2.06	0.55
9:N:9664:HOH:O	4:O:5:GLY:HA2	2.06	0.55
5:F:357:ALA:HA	9:F:9770:HOH:O	2.07	0.55
1:B:10:VAL:HG12	1:B:12:THR:HG23	1.87	0.55
1:L:59:GLU:HG3	1:L:139:ASN:HB3	1.88	0.55
3:N:774:SER:C	3:N:776:GLU:H	2.09	0.55
2:C:885:ILE:HD12	3:D:949:ILE:HB	1.87	0.55
3:D:572:ARG:NH2	5:F:83:GLN:HE21	1.97	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:18:ILE:HG21	3:D:516:ALA:O	2.07	0.55
3:D:462:GLN:HB3	9:D:9482:HOH:O	2.06	0.55
2:C:41:ASN:O	2:C:46:ALA:HB2	2.07	0.55
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.35	0.55
5:F:363:GLU:HA	5:F:367:MET:CE	2.37	0.55
2:M:1104:GLU:HG3	3:N:6:ARG:HD2	1.88	0.55
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.89	0.55
2:M:769:PRO:HB2	3:N:65:ARG:NH2	2.21	0.55
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.37	0.55
3:N:679:ARG:HD3	3:N:682:ASP:OD2	2.06	0.55
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.41	0.55
1:B:95:GLN:HA	1:B:146:ARG:HD2	1.87	0.55
5:P:135:ILE:HD13	5:P:135:ILE:O	2.06	0.55
2:C:704:HIS:CD2	2:C:831:ARG:HH21	2.24	0.55
3:N:911:LEU:O	3:N:915:VAL:HG23	2.07	0.55
2:C:264:PRO:HB2	9:C:9939:HOH:O	2.07	0.55
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.88	0.55
1:A:191:ASP:O	1:A:192:LEU:HD23	2.07	0.55
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.33	0.55
1:B:65:PHE:HD1	3:D:813:LEU:HD22	1.72	0.55
1:B:132:LEU:HD22	9:B:9571:HOH:O	2.05	0.55
3:D:785:ILE:HD12	3:D:785:ILE:H	1.72	0.55
5:P:172:ARG:O	5:P:176:ILE:HD13	2.07	0.55
2:M:9:ILE:HG13	2:M:9:ILE:O	2.07	0.55
3:N:75:ARG:HG3	3:N:75:ARG:HH11	1.72	0.55
3:D:823:LEU:HG	9:D:9683:HOH:O	2.07	0.55
2:M:26:TYR:O	2:M:30:LEU:HD12	2.06	0.55
1:B:81:ASN:O	1:B:84:GLU:HB3	2.06	0.55
2:C:724:ARG:CD	2:C:740:GLU:HA	2.37	0.55
2:M:1097:LEU:N	2:M:1097:LEU:HD13	2.22	0.55
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.88	0.55
2:C:674:VAL:HG23	2:C:869:VAL:O	2.06	0.55
3:D:145:VAL:HB	9:D:9524:HOH:O	2.05	0.55
3:D:28:LYS:CB	3:D:41:ARG:HD2	2.37	0.55
3:N:28:LYS:HB2	3:N:41:ARG:HD2	1.89	0.55
2:C:396:ASP:HA	2:C:633:GLN:HE22	1.72	0.55
5:P:412:GLU:HG3	5:P:418:LEU:HD22	1.88	0.55
5:P:164:LYS:HA	5:P:171:LYS:HE3	1.88	0.55
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.36	0.55
3:D:9:ARG:NH1	3:D:506:GLY:HA2	2.20	0.55
5:P:234:LYS:HD3	5:P:236:SER:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:LEU:HD11	1:B:119:ASP:HB3	1.88	0.55
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.22	0.55
3:D:1271:LYS:HG2	9:D:2043:HOH:O	2.06	0.55
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.89	0.55
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.88	0.55
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.42	0.55
1:A:156:HIS:CD2	1:A:158:ILE:HG12	2.42	0.55
2:C:529:VAL:HG21	9:C:9927:HOH:O	2.05	0.55
3:D:156:GLU:CD	3:D:156:GLU:H	2.10	0.55
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.88	0.55
3:N:424:GLY:HA3	9:N:2149:HOH:O	2.07	0.55
2:C:874:LEU:HD12	3:D:784:ASP:OD2	2.06	0.55
3:D:537:THR:C	5:F:317:LEU:HB2	2.28	0.55
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.22	0.55
2:C:976:ASP:OD1	2:C:978:ARG:HD3	2.07	0.55
5:P:184:ARG:O	5:P:188:ILE:HG13	2.07	0.55
5:P:217:ASN:O	5:P:221:ILE:HG13	2.07	0.55
5:F:136:LEU:HB3	5:F:185:GLN:HE22	1.71	0.55
2:M:411:SER:OG	2:M:452:ILE:HG23	2.06	0.55
2:C:575:GLN:HB2	2:C:670:GLN:HG2	1.87	0.55
2:C:575:GLN:N	2:C:667:ALA:HB1	2.20	0.55
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.88	0.55
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.88	0.55
5:F:416:ARG:HB2	9:F:9697:HOH:O	2.06	0.55
5:P:416:ARG:NH1	5:P:419:ARG:HB3	2.22	0.55
3:D:1115:THR:HG23	9:D:2006:HOH:O	2.06	0.55
1:L:41:ARG:HG3	9:L:4703:HOH:O	2.06	0.55
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.89	0.55
2:M:1117:SER:HB2	9:M:2359:HOH:O	2.07	0.55
3:N:709:HIS:ND1	3:N:709:HIS:N	2.55	0.55
2:C:64:LEU:HA	9:C:9791:HOH:O	2.07	0.55
2:M:157:ARG:HD3	2:M:158:TYR:H	1.72	0.55
2:M:244:PRO:HD2	2:M:245:GLY:H	1.72	0.55
5:P:136:LEU:HB3	5:P:185:GLN:HE22	1.71	0.55
3:N:119:SER:N	3:N:123:LEU:HB2	2.21	0.55
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.37	0.55
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.87	0.55
2:M:232:GLU:HG2	9:M:2023:HOH:O	2.07	0.55
2:M:64:LEU:HD12	2:M:65:VAL:N	2.22	0.55
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.88	0.55
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:222:ARG:HH12	5:P:246:ALA:HB2	1.71	0.55
2:C:817:PRO:HB3	5:F:305:GLU:OE2	2.07	0.55
3:N:865:THR:CG2	3:N:874:GLU:HG2	2.36	0.55
2:C:831:ARG:HA	9:C:9771:HOH:O	2.06	0.55
2:C:626:ARG:HB2	2:C:626:ARG:HH11	1.71	0.55
2:M:363:SER:HB3	9:M:9637:HOH:O	2.06	0.55
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.22	0.54
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.33	0.54
2:C:432:ARG:HG2	9:C:9920:HOH:O	2.06	0.54
5:P:185:GLN:O	5:P:189:GLU:HG3	2.07	0.54
2:M:144:PRO:HG3	9:M:9535:HOH:O	2.07	0.54
2:M:165:LEU:HD11	9:M:2143:HOH:O	2.07	0.54
3:N:12:LEU:HD22	3:N:511:TRP:HB2	1.89	0.54
1:L:39:PRO:O	1:L:43:ILE:HG12	2.08	0.54
3:D:675:ARG:HD3	9:D:2158:HOH:O	2.06	0.54
3:N:71:LYS:HE3	9:N:9778:HOH:O	2.06	0.54
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.42	0.54
1:B:27:PRO:O	1:B:28:LEU:HD23	2.07	0.54
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.88	0.54
4:E:92:ILE:HG21	9:E:9509:HOH:O	2.07	0.54
2:C:209:ARG:N	2:C:209:ARG:HD2	2.22	0.54
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.88	0.54
3:D:1258:ARG:O	3:D:1262:LEU:HD13	2.08	0.54
2:C:72:ARG:HH11	2:C:72:ARG:HG3	1.71	0.54
3:N:546:ARG:HG3	9:N:9696:HOH:O	2.08	0.54
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.21	0.54
3:D:119:SER:H	3:D:123:LEU:HD13	1.72	0.54
3:N:1242:HIS:CE1	3:N:1266:ARG:HD3	2.42	0.54
3:N:586:ARG:HD2	9:N:2319:HOH:O	2.07	0.54
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.89	0.54
2:M:405:ARG:HG2	9:M:2089:HOH:O	2.06	0.54
2:M:428:ARG:CZ	2:M:451:LEU:HD11	2.37	0.54
2:C:522:VAL:HG12	2:C:524:VAL:HG23	1.88	0.54
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.72	0.54
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.42	0.54
3:N:996:TRP:O	3:N:999:THR:HG22	2.07	0.54
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.34	0.54
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.89	0.54
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.89	0.54
3:D:1432:LYS:HZ1	3:D:1460:ILE:HG13	1.71	0.54
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.88	0.54
2:M:313:LEU:HD12	2:M:313:LEU:O	2.07	0.54
3:D:775:GLY:HA2	9:D:2120:HOH:O	2.07	0.54
3:D:1321:ALA:O	3:D:1339:LYS:HD3	2.07	0.54
2:M:368:THR:HB	2:M:369:PRO:HD3	1.89	0.54
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.89	0.54
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.22	0.54
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.89	0.54
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.72	0.54
2:M:157:ARG:CD	2:M:314:THR:HG22	2.35	0.54
3:D:965:GLU:O	3:D:968:ASP:HB2	2.08	0.54
5:F:125:ASP:HA	5:F:128:ARG:CZ	2.37	0.54
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.88	0.54
3:D:1307:LYS:HG2	3:D:1308:GLU:OE1	2.08	0.54
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.90	0.54
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.72	0.54
2:M:500:ASN:HD21	3:N:1067:VAL:HG23	1.73	0.54
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.89	0.54
5:P:308:LEU:O	5:P:312:GLN:HG3	2.07	0.54
2:M:584:GLU:O	2:M:588:VAL:HG13	2.07	0.54
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.88	0.54
2:C:715:THR:HG22	2:C:717:LEU:HG	1.90	0.54
2:C:206:THR:HG21	9:C:2105:HOH:O	2.07	0.54
2:C:1062:GLY:HA2	9:C:9628:HOH:O	2.06	0.54
1:A:94:LEU:HB2	9:A:9536:HOH:O	2.06	0.54
1:K:67:THR:CG2	2:M:609:ASN:HD21	2.20	0.54
2:C:73:LEU:HB3	2:C:94:LEU:HD13	1.89	0.54
5:P:154:LYS:HD2	9:P:3317:HOH:O	2.07	0.54
3:N:639:LEU:HD11	3:N:731:LEU:HD12	1.89	0.54
3:N:42:ASP:O	3:N:43:GLY:O	2.26	0.54
3:D:628:ARG:HD3	3:D:744:GLN:HE22	1.71	0.54
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.88	0.54
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.07	0.54
2:M:988:VAL:HG13	9:M:9722:HOH:O	2.07	0.54
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.37	0.54
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.71	0.54
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.35	0.54
5:P:332:PHE:HB2	9:P:5627:HOH:O	2.07	0.54
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.55	0.54
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.20	0.54
1:B:184:THR:O	1:B:192:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:58:ILE:HB	1:K:61:VAL:HB	1.89	0.54
1:B:105:GLY:O	1:B:132:LEU:HD23	2.06	0.54
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.37	0.54
3:N:829:VAL:HA	9:N:2355:HOH:O	2.06	0.54
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.47	0.54
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.42	0.54
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.37	0.54
2:M:152:PRO:HG2	9:M:9934:HOH:O	2.06	0.54
2:M:17:PRO:O	2:M:20:GLU:HB3	2.07	0.54
3:N:514:LEU:HD23	9:N:9923:HOH:O	2.08	0.54
3:D:868:TYR:CG	3:D:869:MET:N	2.75	0.54
3:D:1413:THR:HA	9:D:2122:HOH:O	2.07	0.54
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.08	0.54
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.08	0.54
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.89	0.54
3:D:116:LEU:O	3:D:118:LEU:HG	2.07	0.54
2:C:859:PRO:O	2:C:867:VAL:HG22	2.08	0.54
2:C:437:ARG:O	2:C:467:ILE:HD13	2.08	0.54
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.28	0.54
2:M:159:ILE:HG22	9:M:9660:HOH:O	2.06	0.54
3:N:565:ILE:HD13	5:P:189:GLU:HG2	1.88	0.54
3:N:704:ARG:HG3	3:N:736:PHE:CB	2.33	0.54
3:D:152:LEU:N	3:D:152:LEU:HD23	2.20	0.54
2:M:198:ARG:NH2	2:M:203:ASP:HB3	2.21	0.54
2:M:83:CYS:HA	2:M:88:LEU:HD23	1.90	0.54
2:M:335:THR:HG21	2:M:461:VAL:HG11	1.89	0.54
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.88	0.54
5:F:264:MET:O	5:F:267:THR:HB	2.07	0.54
3:D:1412:LYS:HE2	3:D:1414:PRO:HG3	1.88	0.54
1:B:97:VAL:HG13	9:B:9502:HOH:O	2.07	0.54
2:M:704:HIS:CB	2:M:831:ARG:HE	2.19	0.54
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.91	0.54
5:P:419:ARG:NH1	5:P:419:ARG:HB2	2.22	0.54
5:P:269:ASN:O	5:P:273:ARG:HG3	2.07	0.54
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.06	0.54
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.43	0.54
1:L:110:LYS:HB2	1:L:110:LYS:HZ2	1.71	0.54
3:D:1080:GLY:O	3:D:1084:THR:HG23	2.07	0.54
2:C:736:ASP:O	2:C:744:ARG:HG2	2.07	0.54
3:N:1148:VAL:O	3:N:1189:ARG:HG2	2.06	0.54
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.88	0.54
5:P:201:LYS:HB2	9:P:4870:HOH:O	2.06	0.54
2:M:637:LEU:N	2:M:637:LEU:HD23	2.23	0.54
3:N:178:LEU:HG	3:N:200:ASP:H	1.71	0.54
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.87	0.54
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.90	0.54
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.72	0.54
2:M:273:GLY:HA2	2:M:276:LYS:HD3	1.89	0.54
5:P:264:MET:HB3	9:P:3779:HOH:O	2.07	0.54
3:D:709:HIS:HA	3:D:1227:GLN:HG2	1.90	0.54
3:N:1117:TYR:HB3	9:N:2569:HOH:O	2.07	0.54
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.37	0.54
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.89	0.54
3:N:799:LYS:HD3	3:N:799:LYS:O	2.07	0.54
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.89	0.54
2:C:841:ASN:HD21	2:C:845:ASN:H	1.55	0.54
1:A:123:MET:C	1:A:125:PRO:HD3	2.28	0.54
3:N:1350:GLU:HG3	3:N:1354:LYS:HE3	1.88	0.54
3:D:1008:PHE:HZ	3:D:1032:PRO:HA	1.73	0.54
2:C:593:ALA:HA	9:C:9558:HOH:O	2.07	0.54
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.27	0.54
3:D:664:LYS:HD3	9:D:2194:HOH:O	2.07	0.54
5:F:279:GLN:HB2	9:F:9647:HOH:O	2.07	0.54
3:D:852:ALA:O	3:D:857:ILE:HG12	2.07	0.54
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.08	0.54
3:D:178:LEU:HD21	3:D:199:LEU:H	1.73	0.54
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.89	0.54
5:P:159:ILE:O	5:P:163:LEU:HG	2.07	0.54
2:M:545:ASN:O	2:M:581:THR:HG21	2.07	0.54
3:N:690:ALA:O	3:N:694:VAL:HG23	2.08	0.54
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.08	0.54
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.06	0.54
3:D:1487:VAL:HA	9:D:9715:HOH:O	2.06	0.54
5:P:192:LEU:O	5:P:196:VAL:HG23	2.08	0.54
3:D:470:LEU:HD12	9:D:2635:HOH:O	2.07	0.54
2:M:730:SER:HB3	9:M:2237:HOH:O	2.07	0.54
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.23	0.54
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.42	0.54
2:M:1085:PHE:HE1	2:M:1111:ILE:HG21	1.73	0.54
3:D:1118:ILE:HG23	9:D:9597:HOH:O	2.08	0.54
3:N:1252:ILE:HD13	9:N:9977:HOH:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:LEU:HG	1:B:114:PHE:HA	1.89	0.54
2:M:798:GLY:H	2:M:827:VAL:CG1	2.20	0.54
5:P:287:THR:N	5:P:290:GLU:OE1	2.41	0.54
3:D:1246:VAL:HG21	9:D:2550:HOH:O	2.06	0.54
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.89	0.54
2:M:497:ALA:HA	2:M:515:ALA:HA	1.88	0.54
2:C:123:GLU:HB2	9:C:2092:HOH:O	2.07	0.54
2:C:139:GLN:HG3	2:C:411:SER:O	2.07	0.54
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.89	0.54
2:M:759:THR:HB	2:M:785:VAL:HG21	1.88	0.54
4:E:25:LYS:O	4:E:29:GLN:HG2	2.08	0.54
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.23	0.54
5:F:132:ARG:O	5:F:136:LEU:HG	2.07	0.54
3:N:1103:HIS:HD2	3:N:1462:LEU:N	2.06	0.54
3:D:465:LEU:HD13	9:D:2007:HOH:O	2.08	0.54
5:P:93:LEU:HA	5:P:98:GLU:OE1	2.08	0.54
2:M:253:ALA:HB3	9:M:2207:HOH:O	2.08	0.54
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.19	0.54
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.38	0.54
1:L:115:LEU:O	1:L:115:LEU:HD12	2.08	0.54
3:N:962:GLN:O	3:N:966:GLU:HG3	2.08	0.54
3:N:661:MET:CE	3:N:677:LEU:HD11	2.38	0.54
1:L:84:GLU:HG3	1:L:127:LEU:HD22	1.88	0.54
2:C:124:ASP:CB	2:C:592:LEU:HD12	2.37	0.54
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.90	0.54
2:M:63:GLY:HA3	2:M:103:LYS:HE2	1.89	0.54
3:N:1372:VAL:HA	3:N:1375:MET:HG3	1.90	0.54
2:M:432:ARG:CZ	2:M:519:GLY:HA3	2.38	0.54
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.08	0.54
2:M:1115:LEU:HD11	9:M:9579:HOH:O	2.07	0.54
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.73	0.54
2:C:877:PRO:HG3	3:D:1020:LEU:HD12	1.89	0.54
3:D:84:ILE:O	3:D:87:ARG:HG3	2.07	0.54
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.23	0.54
3:D:510:GLU:HB3	9:D:9600:HOH:O	2.08	0.54
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.43	0.54
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.71	0.54
4:E:13:VAL:HG23	9:E:9552:HOH:O	2.06	0.54
4:E:48:MET:CB	4:E:54:LEU:HB2	2.38	0.54
3:D:850:LEU:O	3:D:853:VAL:HB	2.08	0.54
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.73	0.54
5:F:356:LYS:O	5:F:360:LYS:HG2	2.07	0.54
4:O:94:PRO:HG3	9:O:5923:HOH:O	2.06	0.54
2:M:650:ARG:HD2	2:M:653:ASP:OD2	2.08	0.54
3:N:871:LYS:HE2	9:N:9777:HOH:O	2.07	0.54
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.90	0.54
2:C:983:ILE:HG23	3:D:944:THR:O	2.08	0.54
3:D:42:ASP:O	3:D:43:GLY:O	2.25	0.54
5:P:184:ARG:HD3	5:P:188:ILE:HD11	1.90	0.54
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.90	0.54
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.42	0.54
3:D:399:ARG:NH2	3:D:432:TYR:HE2	2.06	0.54
1:L:40:LEU:HD11	9:L:4428:HOH:O	2.08	0.54
3:D:400:VAL:CG1	3:D:441:ARG:HD3	2.38	0.54
2:M:724:ARG:CG	2:M:740:GLU:HA	2.38	0.54
3:N:32:ILE:HG12	3:N:38:LYS:O	2.08	0.54
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.43	0.54
3:N:999:THR:O	3:N:1002:LYS:HB2	2.08	0.54
5:P:102:LEU:O	5:P:106:VAL:HG23	2.08	0.54
3:D:471:GLU:HG2	9:D:9659:HOH:O	2.07	0.54
3:N:1252:ILE:H	3:N:1252:ILE:HD12	1.72	0.54
3:N:1503:VAL:HG12	9:N:9617:HOH:O	2.08	0.54
4:O:85:LEU:HD23	4:O:86:GLN:N	2.23	0.54
3:N:799:LYS:H	3:N:826:PRO:HG2	1.72	0.54
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.08	0.54
1:A:93:SER:HB2	9:A:9533:HOH:O	2.06	0.54
3:N:981:GLY:HA3	9:N:2378:HOH:O	2.07	0.54
2:C:794:PRO:HB3	9:C:9647:HOH:O	2.07	0.54
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.38	0.54
1:K:216:GLU:O	1:K:220:GLU:HG3	2.07	0.54
1:A:50:GLY:O	1:A:146:ARG:HA	2.07	0.53
3:D:1087:ARG:HD2	3:D:1256:LEU:HD22	1.90	0.53
2:C:436:GLY:HA2	2:C:538:GLN:O	2.08	0.53
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.89	0.53
2:C:1008:ARG:HE	2:C:1028:GLY:H	1.56	0.53
2:C:1070:ILE:HA	9:C:9807:HOH:O	2.07	0.53
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.89	0.53
4:E:88:GLU:HB2	9:E:9594:HOH:O	2.07	0.53
3:N:1379:VAL:HA	3:N:1420:LEU:HB2	1.91	0.53
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.73	0.53
2:M:460:ARG:O	2:M:468:ARG:HG3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.37	0.53
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.90	0.53
2:M:714:ASP:HB2	9:M:2167:HOH:O	2.07	0.53
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.28	0.53
2:M:604:ALA:HB3	2:M:612:VAL:O	2.08	0.53
3:D:149:LYS:HE3	9:D:2297:HOH:O	2.08	0.53
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.29	0.53
1:B:137:ARG:HB2	9:B:9548:HOH:O	2.07	0.53
1:L:180:GLN:HG2	9:N:9580:HOH:O	2.07	0.53
1:A:160:ASP:HB2	9:A:9521:HOH:O	2.08	0.53
3:N:455:ARG:HH21	5:P:140:ARG:HD3	1.73	0.53
2:C:358:ARG:HB3	2:C:371:LYS:O	2.09	0.53
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.90	0.53
3:N:756:GLN:HE21	3:N:760:ARG:HD2	1.72	0.53
2:C:464:LEU:O	2:C:466:PHE:N	2.40	0.53
2:C:437:ARG:HG3	2:C:469:THR:OG1	2.07	0.53
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.08	0.53
2:M:961:GLU:HA	9:M:9902:HOH:O	2.07	0.53
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.73	0.53
2:M:163:ILE:HB	9:M:2375:HOH:O	2.08	0.53
3:D:516:ALA:O	3:D:518:PRO:HD3	2.09	0.53
2:M:460:ARG:HD3	9:M:2017:HOH:O	2.07	0.53
3:N:984:THR:HG23	3:N:986:ARG:H	1.73	0.53
2:M:1093:GLN:HB3	3:N:90:MET:CE	2.38	0.53
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.72	0.53
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.38	0.53
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.89	0.53
3:D:844:ALA:HA	3:D:867:ARG:NH1	2.22	0.53
2:C:553:ASP:HA	2:C:881:ASN:HA	1.89	0.53
2:C:926:PHE:CD2	2:C:930:LYS:HE2	2.43	0.53
3:N:792:ILE:O	3:N:878:GLY:HA3	2.08	0.53
1:K:170:VAL:HG12	9:K:5166:HOH:O	2.07	0.53
2:C:937:ASP:HB2	2:C:940:GLU:HG3	1.89	0.53
3:D:667:ALA:HB2	3:D:676:MET:CE	2.38	0.53
4:O:90:GLU:HA	9:O:4524:HOH:O	2.08	0.53
2:C:242:LEU:HD23	9:C:9503:HOH:O	2.08	0.53
2:C:72:ARG:HE	2:C:97:ARG:NH1	2.06	0.53
9:C:9784:HOH:O	3:D:943:THR:HG21	2.08	0.53
3:D:89:ARG:O	3:D:521:PRO:HG3	2.08	0.53
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	2.23	0.53
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.90	0.53
5:P:363:GLU:HA	5:P:367:MET:CE	2.37	0.53
3:D:1264:GLU:OE2	3:D:1424:VAL:N	2.41	0.53
1:K:14:ARG:HH12	1:K:24:VAL:HG23	1.73	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.44	0.53
2:M:358:ARG:HB3	2:M:371:LYS:O	2.08	0.53
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.91	0.53
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.38	0.53
2:C:173:ASP:O	2:C:184:MET:HA	2.08	0.53
2:C:176:VAL:C	2:C:178:PRO:HD3	2.28	0.53
2:M:514:VAL:HG11	2:M:516:ARG:NH1	2.23	0.53
2:C:350:ARG:HG2	2:C:353:ARG:NH2	2.24	0.53
2:C:927:GLY:HA2	2:C:930:LYS:HE3	1.90	0.53
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.90	0.53
3:D:789:LEU:O	3:D:792:ILE:HG23	2.08	0.53
3:D:647:ARG:NH1	3:D:650:LEU:HD23	2.24	0.53
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.72	0.53
3:D:769:LEU:H	3:D:769:LEU:HD12	1.74	0.53
3:N:1406:ARG:HG3	3:N:1406:ARG:HH11	1.73	0.53
1:A:34:VAL:HG21	2:C:939:ARG:HD2	1.90	0.53
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.89	0.53
2:C:741:GLY:HA3	9:C:9522:HOH:O	2.07	0.53
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.89	0.53
3:N:772:PRO:HA	9:N:9537:HOH:O	2.08	0.53
3:N:699:VAL:HG22	3:N:756:GLN:NE2	2.23	0.53
3:D:526:PRO:O	3:D:537:THR:HA	2.08	0.53
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.43	0.53
1:A:30:ARG:NH2	1:A:191:ASP:HB2	2.24	0.53
9:M:9722:HOH:O	3:N:948:THR:HB	2.08	0.53
2:M:662:GLU:HB3	9:M:9635:HOH:O	2.07	0.53
2:C:41:ASN:N	2:C:41:ASN:ND2	2.55	0.53
3:N:1294:VAL:HB	9:N:2223:HOH:O	2.09	0.53
3:N:524:LEU:C	3:N:526:PRO:HD3	2.28	0.53
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.91	0.53
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.38	0.53
2:M:642:ARG:HG3	2:M:654:LEU:HD21	1.91	0.53
3:N:829:VAL:H	3:N:835:SER:HB2	1.73	0.53
5:F:307:THR:O	5:F:310:ILE:HG13	2.08	0.53
3:N:583:ASP:OD2	3:N:604:THR:HG21	2.09	0.53
2:M:379:GLU:HG2	9:M:2388:HOH:O	2.07	0.53
3:N:103:TRP:HH2	3:N:1447:LEU:HD23	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.90	0.53
3:N:631:ILE:HG21	3:N:745:MET:SD	2.48	0.53
3:N:102:ILE:HD13	3:N:586:ARG:HB2	1.88	0.53
3:D:126:VAL:O	3:D:132:TYR:HD1	1.91	0.53
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.73	0.53
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.09	0.53
1:L:218:LEU:O	1:L:222:LEU:HG	2.08	0.53
3:D:1267:ARG:HH21	3:D:1331:ASP:CG	2.12	0.53
3:D:800:LYS:HD3	3:D:804:LEU:HD13	1.90	0.53
2:M:1050:GLN:HG3	9:N:2259:HOH:O	2.07	0.53
3:N:9:ARG:HA	3:N:1455:LYS:O	2.07	0.53
2:M:549:PHE:CZ	2:M:886:LEU:HD12	2.44	0.53
1:A:156:HIS:CD2	1:A:157:GLY:N	2.76	0.53
3:D:992:ILE:HD13	9:D:2530:HOH:O	2.08	0.53
1:K:83:LYS:HE2	1:K:168:ASP:H	1.73	0.53
3:N:1289:LYS:HE2	9:N:9835:HOH:O	2.09	0.53
1:K:44:LEU:O	1:K:174:VAL:HG21	2.08	0.53
2:M:247:PRO:HB3	9:M:2135:HOH:O	2.08	0.53
5:P:89:GLY:HA2	9:P:4587:HOH:O	2.08	0.53
2:C:64:LEU:CD1	2:C:100:LEU:HD13	2.39	0.53
3:N:52:PRO:HG3	3:N:78:VAL:HG22	1.90	0.53
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.74	0.53
3:D:85:VAL:HB	9:D:9784:HOH:O	2.07	0.53
3:N:906:GLN:HE22	3:N:910:SER:HB2	1.72	0.53
2:C:853:LEU:HD23	2:C:858:MET:HB2	1.91	0.53
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.91	0.53
2:C:679:PHE:C	3:D:943:THR:HG22	2.28	0.53
9:C:9697:HOH:O	4:E:28:GLN:HG3	2.08	0.53
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.89	0.53
2:C:202:TYR:OH	2:C:304:LEU:HD22	2.09	0.53
2:C:302:VAL:C	2:C:305:PRO:HD2	2.29	0.53
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.38	0.53
3:D:153:LEU:HD11	3:D:158:TYR:N	2.23	0.53
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.90	0.53
1:A:26:GLU:HB3	1:A:194:LYS:HG3	1.91	0.53
3:N:169:TYR:HA	3:N:392:SER:HA	1.91	0.53
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.24	0.53
3:N:1135:ARG:HG2	3:N:1136:LYS:HE3	1.90	0.53
3:D:1382:THR:HA	3:D:1389:LEU:HD13	1.91	0.53
5:P:234:LYS:HD2	5:P:236:SER:HB2	1.89	0.53
2:C:722:ILE:HG12	2:C:757:GLY:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.43	0.53
4:E:41:GLU:HG3	9:E:9492:HOH:O	2.07	0.53
1:A:7:LYS:HD3	9:A:9619:HOH:O	2.08	0.53
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.91	0.53
3:D:554:LEU:O	3:D:558:LEU:HG	2.09	0.53
2:M:876:VAL:HA	9:M:9508:HOH:O	2.08	0.53
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	2.07	0.53
2:M:710:ILE:HD11	2:M:758:ARG:CZ	2.39	0.53
3:N:950:GLY:C	3:N:952:ASP:N	2.58	0.53
2:M:772:ARG:HD2	5:P:373:LYS:HD2	1.91	0.53
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.90	0.53
2:M:838:LYS:HE2	2:M:997:LEU:HD12	1.90	0.53
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.37	0.53
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.90	0.53
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.90	0.53
1:A:18:ARG:O	1:A:207:PRO:HD3	2.07	0.53
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.90	0.53
1:L:92:PRO:HD3	9:L:6230:HOH:O	2.08	0.53
1:B:219:ARG:O	1:B:223:THR:HG23	2.09	0.53
3:N:1173:LEU:HD23	3:N:1174:LEU:HD23	1.90	0.53
2:M:73:LEU:HD22	2:M:118:ILE:HD11	1.90	0.53
2:M:987:ILE:HG23	9:M:9722:HOH:O	2.08	0.53
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.43	0.53
2:M:1093:GLN:HB3	3:N:90:MET:HE1	1.89	0.53
3:D:95:LEU:HD21	3:D:574:LEU:HD11	1.90	0.53
3:N:863:VAL:HG21	9:N:9770:HOH:O	2.07	0.53
2:M:42:VAL:HA	9:M:2303:HOH:O	2.09	0.53
3:N:493:ARG:HG3	3:N:494:LYS:N	2.23	0.53
3:N:115:LEU:HD12	3:N:498:VAL:HG23	1.91	0.53
3:N:1494:ALA:HB1	4:O:88:GLU:OE2	2.09	0.53
2:C:739:GLU:HB3	9:C:9747:HOH:O	2.08	0.53
2:M:338:GLU:O	2:M:341:THR:HG22	2.08	0.53
1:L:149:GLY:O	1:L:171:PHE:HB2	2.08	0.53
2:M:610:ARG:HG2	9:M:9673:HOH:O	2.09	0.53
2:M:625:LEU:HD13	2:M:639:GLN:O	2.09	0.53
3:D:178:LEU:HD22	9:D:9887:HOH:O	2.08	0.53
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.28	0.53
5:F:215:GLU:HG2	9:F:9503:HOH:O	2.08	0.53
2:C:409:ARG:HH12	7:C:8001:RPT:H18	1.74	0.53
2:M:166:PRO:HD3	2:M:265:ARG:HB2	1.90	0.53
5:P:138:SER:O	5:P:141:VAL:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:405:ARG:HH12	2:C:563:ASN:HD22	1.53	0.53
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.44	0.53
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.90	0.53
2:C:625:LEU:HD13	2:C:639:GLN:O	2.08	0.53
3:D:1395:LEU:HB3	9:D:9895:HOH:O	2.08	0.53
5:F:282:LEU:HD12	5:F:284:ARG:O	2.09	0.53
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.74	0.53
1:B:14:ARG:HG2	9:B:9567:HOH:O	2.08	0.53
5:F:154:LYS:HZ2	5:F:154:LYS:HB2	1.73	0.53
2:C:496:ILE:HD12	2:C:496:ILE:H	1.74	0.53
5:P:277:GLN:O	5:P:280:GLN:HB3	2.09	0.53
3:N:636:GLN:HB2	9:N:2002:HOH:O	2.09	0.53
1:B:149:GLY:O	1:B:171:PHE:HB2	2.09	0.53
1:A:63:HIS:CD2	2:C:801:VAL:HG12	2.44	0.53
3:D:613:ARG:O	3:D:617:ASN:HB2	2.08	0.53
3:D:143:ASN:HD21	3:D:145:VAL:HG12	1.74	0.53
2:M:254:VAL:HG21	9:M:9516:HOH:O	2.08	0.53
3:N:566:ILE:HG12	5:P:217:ASN:ND2	2.23	0.53
5:F:373:LYS:HB2	9:F:9672:HOH:O	2.08	0.53
1:K:123:MET:O	1:K:125:PRO:HD3	2.08	0.53
2:C:405:ARG:HH21	2:C:566:THR:HG21	1.73	0.53
2:C:902:ILE:O	2:C:904:PRO:HD3	2.09	0.53
2:C:721:ARG:HA	9:C:9648:HOH:O	2.09	0.53
3:N:969:ARG:HA	9:N:2036:HOH:O	2.09	0.53
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.73	0.53
2:C:1002:GLU:HA	2:C:1006:HIS:HE1	1.73	0.53
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.91	0.53
3:N:1189:ARG:HB3	3:N:1189:ARG:HH11	1.73	0.53
3:N:204:LEU:HD21	9:N:9631:HOH:O	2.08	0.53
1:L:72:LYS:HE2	9:L:5229:HOH:O	2.09	0.53
3:N:404:GLU:HB3	3:N:414:ARG:CZ	2.39	0.53
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.09	0.53
2:M:907:ASP:HA	9:M:2423:HOH:O	2.09	0.53
3:N:14:SER:HB2	3:N:16:GLU:HG2	1.91	0.53
3:N:699:VAL:HG12	3:N:717:GLN:CA	2.37	0.52
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.25	0.52
3:N:1097:LYS:O	3:N:1101:VAL:HG23	2.08	0.52
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.91	0.52
3:D:57:GLU:CD	3:D:64:LYS:HE2	2.29	0.52
3:D:1105:ILE:HG13	9:D:9769:HOH:O	2.08	0.52
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:17:TYR:O	4:E:21:VAL:HG23	2.10	0.52
3:D:863:VAL:HG21	9:D:2215:HOH:O	2.09	0.52
3:N:1312:LEU:HB2	9:N:9707:HOH:O	2.10	0.52
4:O:79:LEU:HD11	9:O:4245:HOH:O	2.08	0.52
3:N:1503:VAL:HG11	9:N:9596:HOH:O	2.09	0.52
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.40	0.52
2:C:601:GLY:O	2:C:648:ARG:HA	2.10	0.52
3:N:1402:ALA:HB2	3:N:1415:VAL:CG2	2.39	0.52
2:M:380:ALA:O	2:M:384:GLU:HB2	2.09	0.52
5:P:347:GLN:HG3	9:P:3973:HOH:O	2.09	0.52
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.90	0.52
1:K:52:ALA:HA	9:K:3524:HOH:O	2.09	0.52
1:A:44:LEU:O	1:A:174:VAL:HG21	2.09	0.52
2:M:910:LYS:HG2	9:M:2099:HOH:O	2.08	0.52
5:F:107:GLU:HG2	9:F:9515:HOH:O	2.08	0.52
2:M:626:ARG:HA	9:M:9546:HOH:O	2.08	0.52
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.91	0.52
3:D:1068:LEU:HD23	3:D:1072:ILE:HG12	1.89	0.52
2:M:170:PRO:HG2	2:M:258:TYR:HD2	1.74	0.52
3:D:131:LYS:O	3:D:133:ILE:HD13	2.09	0.52
5:F:184:ARG:HE	5:F:188:ILE:HD11	1.74	0.52
2:M:460:ARG:HB3	2:M:460:ARG:HH11	1.74	0.52
3:N:800:LYS:HD2	9:N:2127:HOH:O	2.08	0.52
2:C:708:TYR:N	2:C:708:TYR:CD1	2.77	0.52
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.91	0.52
3:D:95:LEU:HD12	3:D:517:VAL:HG23	1.90	0.52
2:C:732:ALA:HB1	2:C:735:ARG:NH2	2.24	0.52
2:M:841:ASN:HD22	2:M:841:ASN:C	2.12	0.52
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.92	0.52
3:N:215:TYR:HA	9:N:9773:HOH:O	2.09	0.52
5:F:368:VAL:HG12	9:F:9483:HOH:O	2.08	0.52
2:C:811:PRO:HD2	2:C:813:VAL:HG22	1.91	0.52
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.40	0.52
1:A:91:ASN:HB3	9:A:9551:HOH:O	2.10	0.52
4:O:33:HIS:CG	4:O:89:MET:HG2	2.43	0.52
3:N:916:TYR:O	3:N:919:PHE:HB3	2.09	0.52
3:D:1231:GLU:HG2	3:D:1232:PRO:N	2.25	0.52
3:N:732:VAL:HG13	9:N:9614:HOH:O	2.09	0.52
3:D:86:ARG:NH1	3:D:86:ARG:HG2	2.21	0.52
2:M:783:ARG:HB3	9:M:2452:HOH:O	2.08	0.52
2:C:516:ARG:CZ	3:D:1068:LEU:HB3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:73:LEU:HD11	9:M:2198:HOH:O	2.08	0.52
9:A:9609:HOH:O	2:C:856:GLU:HB3	2.09	0.52
3:N:1382:THR:HG21	3:N:1418:LYS:HZ1	1.74	0.52
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.09	0.52
2:C:778:PHE:HB3	9:C:2430:HOH:O	2.10	0.52
2:M:464:LEU:O	2:M:466:PHE:N	2.43	0.52
2:C:346:VAL:HG12	9:C:9903:HOH:O	2.08	0.52
5:F:127:ILE:HD11	9:F:9599:HOH:O	2.08	0.52
2:C:1055:LEU:HD21	2:C:1079:PRO:HG3	1.91	0.52
2:M:1104:GLU:HA	3:N:6:ARG:HD2	1.92	0.52
2:M:376:ARG:HG2	9:M:2218:HOH:O	2.08	0.52
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.09	0.52
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.10	0.52
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.91	0.52
3:D:1496:GLU:HA	3:D:1499:ARG:HD2	1.90	0.52
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.39	0.52
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.40	0.52
5:P:266:GLU:HA	5:P:269:ASN:ND2	2.24	0.52
2:M:801:VAL:O	2:M:802:ARG:HG3	2.10	0.52
3:N:1493:LYS:HA	3:N:1496:GLU:CG	2.39	0.52
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.39	0.52
5:P:403:LYS:HD2	9:P:3729:HOH:O	2.09	0.52
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.91	0.52
2:M:937:ASP:HB3	2:M:940:GLU:H	1.73	0.52
1:K:30:ARG:HG3	1:K:30:ARG:HH11	1.74	0.52
1:L:7:LYS:HG3	9:L:5022:HOH:O	2.09	0.52
3:N:52:PRO:HB2	9:N:9523:HOH:O	2.08	0.52
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.91	0.52
5:P:264:MET:O	5:P:268:ILE:HG13	2.08	0.52
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.45	0.52
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.91	0.52
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.37	0.52
2:M:902:ILE:O	2:M:904:PRO:HD3	2.10	0.52
3:D:584:ASN:ND2	3:D:589:ALA:HA	2.23	0.52
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.44	0.52
2:C:732:ALA:O	2:C:735:ARG:HG3	2.09	0.52
2:C:1033:GLY:HA2	3:D:619:LEU:O	2.09	0.52
1:L:14:ARG:HG2	9:L:5424:HOH:O	2.08	0.52
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.72	0.52
1:A:57:TYR:CE2	1:A:59:GLU:HA	2.45	0.52
2:C:165:LEU:HD13	9:C:9966:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:893:GLU:HA	9:D:9543:HOH:O	2.08	0.52
3:D:420:VAL:HG13	5:F:164:LYS:HE2	1.91	0.52
2:C:693:GLU:HG3	9:C:9813:HOH:O	2.10	0.52
1:A:149:GLY:O	1:A:171:PHE:HB2	2.09	0.52
2:C:52:PHE:HB3	2:C:53:PRO:HD3	1.89	0.52
2:C:328:LEU:HB2	2:C:488:ALA:CB	2.39	0.52
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.40	0.52
3:D:572:ARG:HB3	9:F:9505:HOH:O	2.09	0.52
2:C:195:LEU:HD23	2:C:238:LEU:HG	1.91	0.52
2:M:669:GLY:HA3	2:M:995:MET:HA	1.91	0.52
3:N:35:ARG:HG2	3:N:35:ARG:HH11	1.74	0.52
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	1.90	0.52
2:M:881:ASN:ND2	2:M:881:ASN:H	2.08	0.52
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.39	0.52
2:C:182:VAL:CG1	2:C:193:LEU:HD13	2.39	0.52
5:P:269:ASN:CB	5:P:273:ARG:HH21	2.23	0.52
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.74	0.52
2:C:918:LEU:HD23	2:C:967:PHE:O	2.09	0.52
3:N:1009:LYS:HG3	9:N:9751:HOH:O	2.08	0.52
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.24	0.52
5:P:336:GLU:CD	5:P:336:GLU:H	2.12	0.52
2:M:366:SER:HB2	9:M:9558:HOH:O	2.09	0.52
1:B:123:MET:O	1:B:125:PRO:HD3	2.10	0.52
2:M:1092:LEU:HD23	2:M:1097:LEU:HD23	1.92	0.52
1:A:46:SER:HB3	2:C:856:GLU:CG	2.38	0.52
3:D:641:GLN:HB3	3:D:717:GLN:O	2.10	0.52
3:D:890:VAL:HG23	9:D:2176:HOH:O	2.08	0.52
3:D:926:LYS:HE2	9:D:9484:HOH:O	2.08	0.52
3:N:972:LEU:HD11	9:N:9509:HOH:O	2.10	0.52
1:L:176:ARG:HB2	9:N:9671:HOH:O	2.08	0.52
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.91	0.52
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.41	0.52
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.91	0.52
5:F:166:LEU:HD13	5:F:170:HIS:HB2	1.92	0.52
3:D:838:ARG:HH11	3:D:874:GLU:HB3	1.73	0.52
3:D:36:THR:HB	3:D:38:LYS:HG3	1.91	0.52
3:D:721:VAL:HA	9:D:9665:HOH:O	2.08	0.52
1:L:50:GLY:O	1:L:146:ARG:HA	2.10	0.52
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.40	0.52
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.92	0.52
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:122:GLU:HG2	9:N:2158:HOH:O	2.09	0.52
4:E:29:GLN:HB3	9:E:9534:HOH:O	2.09	0.52
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.45	0.52
2:M:146:VAL:HG13	2:M:161:SER:O	2.09	0.52
3:D:126:VAL:O	3:D:132:TYR:CD1	2.62	0.52
3:N:516:ALA:O	3:N:518:PRO:HD3	2.10	0.52
3:D:724:GLN:C	3:D:724:GLN:HE21	2.13	0.52
2:M:1038:TRP:HH2	3:N:1096:ARG:HD2	1.74	0.52
1:A:176:ARG:HB3	9:A:9641:HOH:O	2.10	0.52
2:C:852:ILE:HD12	2:C:852:ILE:H	1.75	0.52
2:M:694:LEU:CD1	2:M:868:ASP:HB3	2.39	0.52
2:M:601:GLY:O	2:M:648:ARG:HA	2.10	0.52
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.38	0.52
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.10	0.52
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.40	0.52
1:K:32:PHE:HZ	1:L:47:SER:HG	1.56	0.52
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.44	0.52
3:D:1432:LYS:CG	3:D:1433:SER:H	2.22	0.52
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.74	0.52
3:D:62:LYS:HE2	3:D:75:ARG:NH1	2.25	0.52
2:C:813:VAL:HG13	9:C:9732:HOH:O	2.08	0.52
2:M:177:GLU:HB2	9:M:9838:HOH:O	2.09	0.52
3:D:897:TRP:CH2	3:D:902:LEU:HD21	2.45	0.52
3:D:1482:ARG:HB2	3:D:1483:PHE:CE1	2.44	0.52
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.91	0.52
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.40	0.52
3:D:45:PHE:HD1	3:D:86:ARG:HH21	1.56	0.52
3:D:455:ARG:HG2	3:D:455:ARG:NH1	2.25	0.52
2:C:1005:MET:CE	3:D:648:MET:HB2	2.40	0.52
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.91	0.52
1:A:198:ARG:C	1:A:199:ILE:HD12	2.31	0.52
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.44	0.52
2:M:1091:GLU:HA	3:N:520:LEU:HD13	1.91	0.52
2:M:578:VAL:CG2	2:M:579:VAL:HG12	2.40	0.52
3:D:1011:PHE:HZ	3:D:1039:CYS:HG	1.56	0.52
3:D:925:GLU:HG2	3:D:926:LYS:N	2.24	0.52
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.92	0.52
3:D:1342:GLU:H	3:D:1342:GLU:CD	2.13	0.52
2:C:281:LEU:CD1	2:C:306:THR:HA	2.39	0.52
3:N:1177:ALA:HB3	3:N:1183:ILE:HD11	1.91	0.52
2:C:4:LYS:HG2	9:C:9667:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:69:LEU:HD21	2:M:99:GLN:NE2	2.25	0.52
2:C:961:GLU:HA	9:C:2350:HOH:O	2.10	0.52
2:C:586:ARG:HD2	2:C:590:ASP:OD2	2.10	0.52
2:M:636:ALA:HB3	9:M:9891:HOH:O	2.09	0.52
9:D:2311:HOH:O	5:F:147:LEU:HD21	2.10	0.52
3:D:213:VAL:HG11	9:D:9853:HOH:O	2.09	0.52
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.75	0.52
5:P:128:ARG:HD3	9:P:3878:HOH:O	2.08	0.52
2:M:137:VAL:HG22	2:M:391:LEU:O	2.10	0.52
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.40	0.52
3:D:653:PHE:CE2	3:D:695:ILE:HG13	2.44	0.52
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.92	0.52
2:C:721:ARG:HH21	2:C:783:ARG:NH2	2.07	0.52
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.24	0.52
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.30	0.52
3:D:1379:VAL:O	3:D:1420:LEU:HD23	2.10	0.52
2:M:752:GLY:O	3:N:679:ARG:HG2	2.10	0.52
1:K:2:LEU:HD11	9:K:4002:HOH:O	2.09	0.52
2:C:198:ARG:HD3	9:C:9933:HOH:O	2.09	0.52
1:B:50:GLY:O	1:B:146:ARG:HA	2.10	0.52
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.10	0.52
3:N:75:ARG:HB2	9:N:9539:HOH:O	2.10	0.52
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.40	0.52
2:M:413:LEU:HD12	2:M:413:LEU:N	2.25	0.52
2:C:685:GLU:OE1	3:D:739:ASP:HA	2.10	0.52
2:M:142:ARG:NH1	2:M:325:ILE:HG12	2.25	0.52
5:P:337:HIS:H	5:P:337:HIS:CD2	2.28	0.52
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.39	0.52
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.92	0.52
3:N:731:LEU:HB2	9:N:9614:HOH:O	2.10	0.52
2:C:461:VAL:HG23	9:C:9546:HOH:O	2.10	0.52
3:D:566:ILE:HD13	5:F:217:ASN:HB3	1.91	0.52
2:C:694:LEU:CD1	2:C:868:ASP:HB3	2.40	0.52
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.39	0.52
2:M:334:ARG:CZ	2:M:418:LEU:HD21	2.40	0.52
2:M:332:ARG:NH2	2:M:464:LEU:HD11	2.25	0.52
2:M:724:ARG:HG3	2:M:741:GLY:N	2.24	0.52
5:F:358:LEU:CD2	5:F:370:LYS:HE3	2.40	0.52
5:F:408:LEU:O	5:F:412:GLU:HG2	2.10	0.52
3:N:1443:THR:HG23	9:N:2462:HOH:O	2.10	0.52
1:A:9:PRO:HB3	1:A:25:LEU:HD21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.92	0.52
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.40	0.52
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.10	0.52
3:N:658:LEU:O	3:N:661:MET:HB2	2.09	0.52
3:N:135:LEU:HD11	3:N:452:ILE:HG13	1.91	0.52
3:N:459:GLU:HG3	3:N:460:ALA:N	2.24	0.52
1:L:125:PRO:HD2	9:L:4231:HOH:O	2.10	0.52
3:D:149:LYS:HA	9:D:9512:HOH:O	2.09	0.52
1:B:19:GLU:HG3	1:B:201:THR:O	2.09	0.52
2:M:1035:MET:HG2	3:N:707:THR:O	2.09	0.52
5:F:128:ARG:O	5:F:132:ARG:HG3	2.10	0.51
2:M:998:TYR:OH	2:M:1000:MET:HA	2.10	0.51
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.93	0.51
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.75	0.51
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.40	0.51
3:N:206:ARG:O	3:N:206:ARG:HD3	2.10	0.51
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.25	0.51
1:L:170:VAL:HG23	9:L:5477:HOH:O	2.10	0.51
3:N:1366:LYS:O	3:N:1369:GLU:HB2	2.10	0.51
3:N:789:LEU:O	3:N:792:ILE:HG23	2.09	0.51
1:L:19:GLU:O	1:L:201:THR:HG23	2.09	0.51
2:C:742:VAL:HG12	2:C:743:VAL:N	2.25	0.51
5:F:323:ASP:O	5:F:325:LYS:N	2.43	0.51
3:D:592:THR:N	3:D:600:LEU:HD21	2.24	0.51
3:D:1240:THR:HA	9:D:2338:HOH:O	2.09	0.51
2:C:101:ILE:HG22	2:C:102:HIS:N	2.25	0.51
2:C:333:ILE:HD12	2:C:333:ILE:N	2.25	0.51
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.92	0.51
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.75	0.51
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.45	0.51
5:F:132:ARG:NH2	5:F:184:ARG:NH1	2.59	0.51
2:C:1057:SER:HB2	3:D:622:ARG:O	2.09	0.51
3:N:123:LEU:HG	3:N:152:LEU:HD13	1.92	0.51
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.45	0.51
2:C:595:LEU:O	2:C:655:LEU:HG	2.10	0.51
5:F:420:ASP:O	5:F:422:LEU:HD23	2.11	0.51
2:M:461:VAL:HG22	9:M:9987:HOH:O	2.10	0.51
2:C:710:ILE:HD11	2:C:758:ARG:NH2	2.26	0.51
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.51
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.75	0.51
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1417:TRP:HE1	3:D:1419:PRO:HG3	1.75	0.51
3:D:491:LYS:HD3	3:D:492:ALA:N	2.26	0.51
3:D:480:GLU:O	3:D:484:PRO:HD2	2.10	0.51
9:M:2035:HOH:O	3:N:1456:LYS:HE2	2.10	0.51
1:A:18:ARG:HH11	1:A:123:MET:HE1	1.75	0.51
3:D:505:SER:HB3	9:D:9680:HOH:O	2.09	0.51
3:D:416:ALA:H	3:D:417:PRO:CD	2.23	0.51
2:C:65:VAL:HB	2:C:101:ILE:HB	1.92	0.51
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.30	0.51
2:C:436:GLY:HA3	2:C:469:THR:HG21	1.92	0.51
2:C:89:THR:O	2:C:91:GLN:HG3	2.09	0.51
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.92	0.51
2:C:254:VAL:HG22	9:C:2339:HOH:O	2.10	0.51
1:A:26:GLU:CB	1:A:194:LYS:HG3	2.41	0.51
3:N:1380:GLU:HG3	3:N:1381:VAL:H	1.75	0.51
2:C:1030:GLN:HE22	3:D:628:ARG:NH2	2.08	0.51
2:M:679:PHE:HD1	2:M:870:ILE:HD13	1.74	0.51
2:M:890:LEU:HA	2:M:914:ILE:HD11	1.91	0.51
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.44	0.51
2:M:197:LEU:HD22	2:M:202:TYR:CD2	2.45	0.51
2:C:791:ARG:NH1	2:C:791:ARG:HB3	2.25	0.51
2:M:176:VAL:C	2:M:178:PRO:HD3	2.31	0.51
2:M:182:VAL:HB	2:M:192:PRO:HA	1.92	0.51
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.90	0.51
2:M:498:GLN:HG3	2:M:516:ARG:HH21	1.75	0.51
2:M:739:GLU:HA	9:M:2220:HOH:O	2.09	0.51
2:C:209:ARG:O	2:C:213:ALA:HB2	2.11	0.51
3:N:404:GLU:OE1	3:N:414:ARG:HD3	2.10	0.51
3:D:974:ILE:HG22	9:D:9555:HOH:O	2.11	0.51
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.40	0.51
3:D:701:LEU:HD21	3:D:763:MET:HE1	1.93	0.51
3:D:1235:GLN:HB3	3:D:1359:GLN:HE22	1.75	0.51
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.38	0.51
3:D:603:LEU:O	3:D:606:ILE:HB	2.10	0.51
5:P:306:GLU:O	5:P:310:ILE:HG13	2.10	0.51
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.91	0.51
5:P:142:ARG:HH11	5:P:142:ARG:CB	2.22	0.51
1:B:182:GLU:O	1:B:194:LYS:HB3	2.11	0.51
1:L:91:ASN:O	1:L:94:LEU:HD12	2.09	0.51
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.44	0.51
2:M:257:VAL:HG22	9:M:9998:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:26:TYR:CE2	2:M:30:LEU:HD11	2.46	0.51
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.91	0.51
3:D:1149:LEU:HD12	3:D:1161:GLU:O	2.11	0.51
1:A:227:ASN:H	1:A:227:ASN:ND2	2.09	0.51
1:B:106:PRO:HB3	9:B:9545:HOH:O	2.10	0.51
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.39	0.51
5:P:323:ASP:O	5:P:325:LYS:N	2.43	0.51
3:N:637:LEU:HD11	3:N:642:CYS:N	2.26	0.51
3:D:44:LEU:O	3:D:525:ARG:NH2	2.43	0.51
3:D:540:LEU:HA	3:D:543:LEU:HD12	1.92	0.51
1:A:24:VAL:HG22	1:A:196:THR:HB	1.92	0.51
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.93	0.51
3:D:1066:THR:HG23	3:D:1068:LEU:H	1.75	0.51
3:D:1057:VAL:HA	3:D:1069:GLU:OE2	2.10	0.51
5:F:132:ARG:HG2	5:F:181:GLU:OE1	2.10	0.51
3:N:1380:GLU:HG3	3:N:1381:VAL:N	2.25	0.51
5:P:93:LEU:HG	5:P:190:ALA:CB	2.40	0.51
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.92	0.51
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.75	0.51
3:D:807:ALA:HA	9:D:9904:HOH:O	2.10	0.51
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.09	0.51
2:M:269:LEU:HD12	2:M:288:ARG:H	1.76	0.51
1:L:184:THR:O	1:L:192:LEU:HB2	2.10	0.51
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.93	0.51
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.91	0.51
4:O:70:THR:HB	4:O:72:ARG:HE	1.75	0.51
3:N:493:ARG:HH22	3:N:1388:ARG:HB3	1.76	0.51
3:D:887:ALA:HA	9:D:9543:HOH:O	2.09	0.51
5:P:323:ASP:C	5:P:325:LYS:H	2.14	0.51
1:L:121:GLU:HG3	9:L:3921:HOH:O	2.10	0.51
2:M:879:ARG:HH12	3:N:1029:ARG:HH22	1.58	0.51
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.92	0.51
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.91	0.51
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.93	0.51
2:M:166:PRO:HG3	2:M:265:ARG:HE	1.74	0.51
2:C:1014:SER:HA	9:F:9484:HOH:O	2.11	0.51
2:C:1014:SER:OG	5:F:331:ASP:HA	2.11	0.51
3:N:119:SER:HB2	3:N:123:LEU:CB	2.40	0.51
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.73	0.51
3:D:704:ARG:HB2	3:D:736:PHE:CD2	2.46	0.51
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.11	0.51
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.30	0.51
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.93	0.51
2:M:1086:ARG:HB3	2:M:1112:PHE:CE2	2.45	0.51
2:C:132:ALA:HB1	2:C:632:ASN:ND2	2.23	0.51
1:A:219:ARG:CZ	1:B:219:ARG:HG2	2.41	0.51
2:C:958:THR:HG23	2:C:961:GLU:H	1.74	0.51
3:N:937:TYR:O	3:N:941:PHE:HD1	1.93	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.11	0.51
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.76	0.51
1:A:146:ARG:HD2	9:A:9500:HOH:O	2.10	0.51
1:K:133:GLU:OE1	2:M:605:LYS:HB3	2.11	0.51
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.41	0.51
2:C:437:ARG:HA	2:C:467:ILE:HG21	1.91	0.51
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.75	0.51
2:M:759:THR:HB	2:M:785:VAL:CG2	2.41	0.51
4:E:64:ALA:HA	4:E:67:GLU:CD	2.31	0.51
2:C:495:THR:HB	2:C:530:GLU:HG3	1.93	0.51
3:D:154:THR:HA	9:D:9863:HOH:O	2.10	0.51
3:N:565:ILE:CD1	5:P:189:GLU:HG2	2.41	0.51
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.10	0.51
2:M:232:GLU:O	2:M:235:LEU:HB2	2.10	0.51
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.93	0.51
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.46	0.51
2:M:182:VAL:HG13	9:M:9636:HOH:O	2.08	0.51
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.10	0.51
1:K:95:GLN:HG2	1:K:146:ARG:HH12	1.74	0.51
3:N:1492:LEU:O	3:N:1496:GLU:HG2	2.11	0.51
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.93	0.51
3:D:36:THR:O	3:D:38:LYS:N	2.44	0.51
3:D:970:LYS:HB2	3:D:970:LYS:NZ	2.25	0.51
9:M:9978:HOH:O	5:P:345:ALA:HB1	2.09	0.51
2:M:877:PRO:HB3	3:N:1020:LEU:HD13	1.93	0.51
2:M:122:THR:HG21	9:M:2321:HOH:O	2.11	0.51
2:C:663:ASN:HB2	9:C:2433:HOH:O	2.11	0.51
3:D:864:VAL:HG12	3:D:865:THR:H	1.75	0.51
3:N:539:ASP:HB3	9:N:9742:HOH:O	2.11	0.51
3:N:546:ARG:CZ	3:N:550:ARG:HH22	2.22	0.51
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.46	0.51
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.92	0.51
2:M:783:ARG:HG2	2:M:785:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:976:ASP:OD1	2:M:978:ARG:HG3	2.11	0.51
2:M:958:THR:HG23	9:M:9678:HOH:O	2.10	0.51
3:D:908:LYS:HG2	3:D:1027:GLY:HA3	1.91	0.51
2:M:392:SER:O	7:M:8002:RPT:H371	2.11	0.51
2:C:901:TYR:CE2	2:C:917:LEU:HD13	2.46	0.51
2:C:238:LEU:HB2	9:C:2083:HOH:O	2.11	0.51
3:D:530:VAL:HB	3:D:534:ARG:CB	2.38	0.51
2:M:676:ILE:HG23	9:M:9722:HOH:O	2.10	0.51
1:A:11:PHE:HD1	1:A:25:LEU:HD12	1.76	0.51
3:D:829:VAL:HG21	9:D:9486:HOH:O	2.10	0.51
3:D:1292:VAL:H	3:D:1305:LEU:HD21	1.76	0.51
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.41	0.51
3:D:797:LYS:NZ	3:D:1016:PRO:HB3	2.26	0.51
3:D:959:GLU:CD	3:D:959:GLU:H	2.12	0.51
3:N:823:LEU:H	3:N:823:LEU:HD23	1.76	0.51
3:N:423:ASP:HB3	5:P:175:HIS:HA	1.93	0.51
2:C:328:LEU:HD23	2:C:437:ARG:HD3	1.93	0.51
3:N:183:GLU:O	3:N:186:VAL:HG12	2.11	0.51
1:A:70:GLY:HA2	1:A:133:GLU:OE2	2.09	0.51
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.45	0.51
2:C:292:ARG:HG2	9:C:2101:HOH:O	2.11	0.51
3:D:704:ARG:HH11	3:D:738:ALA:HA	1.75	0.51
5:F:260:ILE:HG23	5:F:264:MET:CG	2.40	0.51
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.93	0.51
1:K:117:VAL:HG22	9:K:3709:HOH:O	2.10	0.51
3:D:1333:HIS:CE1	3:D:1421:LEU:HD23	2.45	0.51
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.92	0.51
3:D:770:LEU:HG	3:D:919:PHE:HE1	1.75	0.51
4:E:91:ARG:HD2	9:E:9516:HOH:O	2.11	0.51
3:N:180:LYS:O	3:N:184:GLU:HG3	2.11	0.51
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.11	0.51
2:C:1027:PHE:HA	9:C:9777:HOH:O	2.10	0.51
2:C:1083:GLU:HG2	9:C:9596:HOH:O	2.11	0.51
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.45	0.51
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.35	0.51
2:M:145:GLY:C	2:M:163:ILE:HG23	2.31	0.51
2:M:405:ARG:NH2	2:M:566:THR:HG21	2.26	0.51
3:D:750:PRO:HB2	3:D:756:GLN:OE1	2.11	0.51
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.93	0.51
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.93	0.51
2:C:760:SER:O	2:C:785:VAL:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.11	0.51
1:L:109:VAL:HG21	1:L:138:LEU:HD21	1.92	0.51
1:L:215:VAL:HG21	9:L:5732:HOH:O	2.10	0.51
5:F:352:GLU:HG3	9:F:9610:HOH:O	2.11	0.51
2:M:257:VAL:HA	9:M:2289:HOH:O	2.11	0.51
2:C:520:GLU:HB2	9:C:2128:HOH:O	2.11	0.51
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.76	0.51
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.26	0.51
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.10	0.51
3:D:1410:GLU:HG2	9:D:2012:HOH:O	2.10	0.51
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.10	0.50
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.26	0.50
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.93	0.50
2:C:1081:VAL:HG12	2:C:1086:ARG:HE	1.76	0.50
3:D:566:ILE:HG23	5:F:217:ASN:HD22	1.77	0.50
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.94	0.50
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.41	0.50
3:N:209:ARG:HG3	9:N:2381:HOH:O	2.09	0.50
2:M:420:ARG:CD	2:M:420:ARG:H	2.22	0.50
5:P:416:ARG:HB3	5:P:419:ARG:HG2	1.93	0.50
5:P:419:ARG:O	5:P:421:PHE:N	2.44	0.50
3:D:1150:ALA:HA	9:D:2006:HOH:O	2.10	0.50
1:B:75:VAL:O	1:B:79:ILE:HG23	2.11	0.50
5:P:101:GLU:HA	5:P:104:ARG:NH1	2.26	0.50
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.50
2:C:971:LYS:HD2	2:C:986:PRO:HB2	1.92	0.50
1:A:211:LEU:O	1:A:215:VAL:HG13	2.11	0.50
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.92	0.50
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.23	0.50
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.46	0.50
2:M:682:TYR:N	9:M:9536:HOH:O	2.44	0.50
3:N:12:LEU:HB2	9:N:9590:HOH:O	2.11	0.50
3:N:737:ASN:HA	9:N:9612:HOH:O	2.10	0.50
2:C:523:ILE:HG21	9:D:2662:HOH:O	2.12	0.50
5:F:362:SER:HB2	9:F:9725:HOH:O	2.10	0.50
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.40	0.50
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.94	0.50
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.11	0.50
2:C:338:GLU:O	2:C:341:THR:HG22	2.11	0.50
1:K:68:ILE:HA	9:K:4093:HOH:O	2.11	0.50
2:C:572:ILE:HG21	2:C:703:ILE:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.93	0.50
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.76	0.50
2:M:841:ASN:HB2	9:M:9839:HOH:O	2.11	0.50
2:C:21:ILE:HD12	2:C:21:ILE:H	1.76	0.50
2:M:1051:GLU:HG3	2:M:1055:LEU:HB2	1.92	0.50
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.76	0.50
3:D:132:TYR:HD2	9:D:9863:HOH:O	1.93	0.50
5:F:126:LEU:O	5:F:130:VAL:HG23	2.11	0.50
2:M:676:ILE:O	2:M:676:ILE:HG23	2.10	0.50
2:C:80:GLN:HG2	2:C:90:TYR:CE2	2.47	0.50
2:M:333:ILE:HD12	2:M:465:GLY:O	2.11	0.50
3:N:814:ALA:HB3	9:N:2003:HOH:O	2.11	0.50
2:M:666:LEU:HD12	2:M:667:ALA:H	1.76	0.50
2:M:996:LYS:HD2	9:M:9662:HOH:O	2.11	0.50
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.41	0.50
4:O:51:LEU:HG	4:O:53:GLY:N	2.26	0.50
2:C:625:LEU:O	2:C:627:ARG:N	2.45	0.50
1:K:97:VAL:HG23	9:K:3291:HOH:O	2.11	0.50
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.92	0.50
3:N:574:LEU:O	3:N:577:ALA:HB3	2.11	0.50
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.45	0.50
3:N:1493:LYS:HD3	3:N:1496:GLU:OE2	2.12	0.50
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.41	0.50
1:A:156:HIS:NE2	1:A:166:PRO:HB3	2.26	0.50
3:N:14:SER:OG	3:N:17:LYS:HB2	2.11	0.50
2:M:132:ALA:HB1	2:M:632:ASN:HD21	1.77	0.50
3:N:39:PRO:HD2	9:N:2247:HOH:O	2.11	0.50
5:F:258:ILE:HB	9:F:9558:HOH:O	2.12	0.50
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.93	0.50
1:B:72:LYS:HE2	1:B:131:THR:OG1	2.11	0.50
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.40	0.50
1:A:14:ARG:NH1	1:A:24:VAL:HG23	2.26	0.50
4:E:64:ALA:O	4:E:67:GLU:HG3	2.12	0.50
3:N:119:SER:N	3:N:123:LEU:HD22	2.22	0.50
2:M:462:ASP:HA	9:M:2351:HOH:O	2.12	0.50
1:K:19:GLU:HB3	9:K:4176:HOH:O	2.11	0.50
3:D:519:VAL:HA	3:D:544:TYR:OH	2.12	0.50
3:N:108:VAL:CG2	3:N:109:PRO:HD3	2.40	0.50
5:F:112:ALA:HA	5:F:173:TYR:CD2	2.46	0.50
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.46	0.50
1:B:189:ARG:HH11	1:B:189:ARG:HG3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.26	0.50
1:A:183:ASP:HB3	9:A:9649:HOH:O	2.10	0.50
2:C:425:PHE:HB2	9:C:9673:HOH:O	2.11	0.50
2:C:436:GLY:O	2:C:459:ALA:HB2	2.12	0.50
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.94	0.50
3:N:131:LYS:HB3	9:N:2083:HOH:O	2.11	0.50
2:M:964:LYS:HB3	9:M:9902:HOH:O	2.11	0.50
5:P:366:ALA:HB3	5:P:367:MET:CE	2.42	0.50
3:N:1136:LYS:H	3:N:1136:LYS:HE3	1.76	0.50
3:D:493:ARG:NH1	3:D:1390:LEU:H	2.08	0.50
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.46	0.50
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.92	0.50
5:F:111:GLU:O	5:F:115:LYS:HG2	2.11	0.50
2:C:230:ARG:HG3	9:C:9560:HOH:O	2.11	0.50
3:D:826:PRO:HB3	3:D:828:LYS:NZ	2.27	0.50
1:L:180:GLN:HG3	9:L:3887:HOH:O	2.10	0.50
2:C:886:LEU:HG	3:D:951:ILE:HG13	1.93	0.50
2:C:302:VAL:O	2:C:305:PRO:HD2	2.12	0.50
1:B:38:ASN:HB2	9:B:9725:HOH:O	2.10	0.50
3:N:420:VAL:O	5:P:164:LYS:HD3	2.12	0.50
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.40	0.50
2:M:768:THR:CB	2:M:771:GLU:HB3	2.41	0.50
2:C:462:ASP:HA	9:C:9665:HOH:O	2.11	0.50
5:F:109:GLY:O	5:F:113:ILE:HG13	2.12	0.50
4:O:32:ARG:HB3	9:O:5813:HOH:O	2.11	0.50
3:D:500:ARG:HH22	3:D:1388:ARG:HH11	1.60	0.50
2:M:984:GLU:HA	9:M:2224:HOH:O	2.10	0.50
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.75	0.50
3:D:1192:LEU:CD2	3:D:1345:GLU:HG2	2.39	0.50
2:M:841:ASN:HD21	2:M:845:ASN:H	1.59	0.50
2:M:260:LEU:HA	2:M:291:ALA:CB	2.42	0.50
2:M:160:ALA:O	2:M:173:ASP:HA	2.12	0.50
5:P:261:PRO:O	5:P:265:VAL:HG23	2.11	0.50
3:N:960:LYS:HB3	9:N:9922:HOH:O	2.12	0.50
2:M:637:LEU:HA	2:M:659:PRO:HG3	1.94	0.50
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.76	0.50
2:C:724:ARG:CG	2:C:740:GLU:HA	2.42	0.50
3:N:546:ARG:NH1	3:N:550:ARG:HH22	2.09	0.50
2:C:413:LEU:HD12	2:C:413:LEU:N	2.27	0.50
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.27	0.50
1:A:197:LEU:HD23	1:A:197:LEU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:721:ARG:O	2:M:758:ARG:HA	2.11	0.50
2:C:432:ARG:HD3	3:D:1048:PRO:CG	2.42	0.50
3:N:559:ALA:O	5:P:132:ARG:NH2	2.44	0.50
5:F:220:LEU:HD21	9:F:9537:HOH:O	2.12	0.50
1:K:184:THR:O	1:K:192:LEU:HD12	2.12	0.50
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.42	0.50
2:C:1008:ARG:HE	2:C:1028:GLY:CA	2.24	0.50
5:P:358:LEU:HD21	5:P:370:LYS:HE3	1.94	0.50
2:M:143:SER:HB2	2:M:332:ARG:HB2	1.93	0.50
1:K:123:MET:C	1:K:125:PRO:HD3	2.32	0.50
2:C:561:GLY:HA3	2:C:842:ARG:O	2.11	0.50
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.42	0.50
3:D:1336:LEU:HD21	3:D:1419:PRO:O	2.12	0.50
3:D:677:LEU:HD21	3:D:687:VAL:HG21	1.94	0.50
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.94	0.50
2:C:161:SER:HB3	9:C:2166:HOH:O	2.11	0.50
3:D:872:ARG:HB3	9:D:9540:HOH:O	2.11	0.50
2:M:580:MET:HB3	2:M:584:GLU:CD	2.30	0.50
2:C:508:ILE:HG21	9:C:9927:HOH:O	2.12	0.50
2:M:821:GLU:HA	9:M:9975:HOH:O	2.12	0.50
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.30	0.50
1:A:16:GLN:NE2	1:A:17:GLY:N	2.60	0.50
5:F:237:THR:HB	9:F:9628:HOH:O	2.11	0.50
1:K:133:GLU:CD	2:M:605:LYS:HB3	2.33	0.50
3:N:1045:MET:HA	9:N:2418:HOH:O	2.12	0.50
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.42	0.50
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.93	0.50
7:C:8001:RPT:H422	9:C:9511:HOH:O	2.11	0.50
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.46	0.50
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.42	0.50
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.76	0.50
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.42	0.50
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.42	0.50
3:D:465:LEU:HD22	3:D:509:PRO:O	2.12	0.50
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.93	0.50
2:C:137:VAL:HG21	2:C:393:GLN:HE21	1.76	0.50
1:A:101:LEU:HD11	1:A:113:ASP:HB2	1.94	0.50
3:D:1440:PHE:HD1	3:D:1441:GLN:H	1.59	0.50
3:N:959:GLU:HG3	3:N:1006:ALA:HB1	1.94	0.50
5:P:419:ARG:HH11	5:P:419:ARG:HB2	1.77	0.50
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:225:GLU:HG3	5:P:226:LYS:HG2	1.94	0.50
2:C:404:LEU:HD13	9:C:9579:HOH:O	2.12	0.50
2:M:693:GLU:HA	2:M:696:LYS:HG3	1.94	0.50
2:M:413:LEU:HD12	2:M:413:LEU:H	1.77	0.50
5:F:323:ASP:C	5:F:325:LYS:H	2.15	0.50
2:M:1019:GLN:HE22	3:N:621:LYS:HA	1.76	0.50
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.94	0.50
2:M:808:ARG:HG2	2:M:808:ARG:HH11	1.75	0.50
3:N:1169:ASP:HB2	9:N:2387:HOH:O	2.12	0.50
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.43	0.50
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.26	0.50
3:N:573:MET:SD	5:P:210:LEU:HD22	2.51	0.50
2:M:289:THR:HG22	2:M:290:LEU:H	1.76	0.50
3:D:521:PRO:O	3:D:525:ARG:HG2	2.12	0.50
3:D:607:LEU:HB3	3:D:614:PHE:CE2	2.47	0.50
3:N:126:VAL:O	3:N:132:TYR:HD1	1.94	0.50
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.25	0.50
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.25	0.50
2:C:952:LEU:HB3	2:C:966:LEU:CD1	2.42	0.50
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.12	0.50
2:M:367:LEU:O	2:M:372:LEU:HD13	2.12	0.50
3:N:966:GLU:HG2	9:N:9886:HOH:O	2.11	0.50
2:M:1016:ILE:CD1	5:P:317:LEU:HD21	2.42	0.50
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.94	0.50
3:N:10:ILE:HD11	3:N:1434:TRP:NE1	2.26	0.50
4:E:9:LEU:HD22	4:E:19:LEU:HD13	1.94	0.50
3:N:879:ARG:HH21	3:N:903:ASP:C	2.14	0.50
3:D:1108:ARG:HH12	3:D:1460:ILE:HG22	1.77	0.50
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.41	0.50
4:O:84:ARG:NH1	9:O:4797:HOH:O	2.44	0.50
2:C:25:SER:CB	2:C:335:THR:HB	2.42	0.50
2:M:594:ALA:HB1	2:M:654:LEU:HD12	1.92	0.50
3:N:493:ARG:O	3:N:497:GLU:HG3	2.11	0.50
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.47	0.50
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.93	0.50
2:M:57:GLU:HG3	2:M:58:ASP:OD2	2.12	0.50
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.92	0.50
3:N:1077:ALA:HA	9:N:9982:HOH:O	2.11	0.50
3:N:818:ARG:HG3	9:N:2703:HOH:O	2.11	0.50
1:B:204:SER:HB2	9:B:9508:HOH:O	2.11	0.49
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.26	0.49
2:C:557:ARG:NH1	2:C:879:ARG:HD3	2.26	0.49
2:C:505:GLY:HA3	9:C:9890:HOH:O	2.11	0.49
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.47	0.49
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.93	0.49
1:K:184:THR:HG23	1:K:192:LEU:HB3	1.94	0.49
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.12	0.49
3:D:1209:LEU:HD22	3:D:1211:MET:HE1	1.94	0.49
1:A:209:GLU:O	1:A:213:GLN:HG3	2.11	0.49
2:C:339:LEU:HD22	2:C:391:LEU:HD13	1.94	0.49
2:M:68:PHE:HB3	9:M:9640:HOH:O	2.11	0.49
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.92	0.49
1:B:211:LEU:O	1:B:215:VAL:HG13	2.12	0.49
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.42	0.49
2:M:687:ALA:C	2:M:688:ILE:HD12	2.33	0.49
5:F:142:ARG:HB3	5:F:142:ARG:HH11	1.76	0.49
1:L:29:GLU:N	9:L:5175:HOH:O	2.45	0.49
2:C:1015:LEU:HA	9:C:9604:HOH:O	2.12	0.49
3:N:619:LEU:HD13	9:N:9535:HOH:O	2.10	0.49
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.12	0.49
2:M:807:ARG:CZ	2:M:807:ARG:HB2	2.40	0.49
3:D:818:ARG:HB3	9:D:9509:HOH:O	2.12	0.49
2:M:781:LYS:HG2	9:M:2296:HOH:O	2.11	0.49
3:D:1009:LYS:HA	3:D:1012:GLU:OE2	2.12	0.49
2:M:345:ARG:HH11	2:M:345:ARG:HB3	1.77	0.49
3:N:1172:HIS:HE1	9:N:2297:HOH:O	1.95	0.49
2:C:54:ILE:CD1	2:C:356:ARG:HG2	2.35	0.49
2:C:367:LEU:O	2:C:371:LYS:HB3	2.12	0.49
3:N:602:SER:O	3:N:606:ILE:HG12	2.12	0.49
3:N:924:MET:O	3:N:927:THR:HB	2.12	0.49
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.47	0.49
2:C:498:GLN:HG3	9:C:9731:HOH:O	2.12	0.49
3:D:1072:ILE:O	3:D:1075:HIS:HD2	1.96	0.49
2:C:978:ARG:HD3	9:C:9846:HOH:O	2.11	0.49
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.41	0.49
2:M:166:PRO:HD3	2:M:265:ARG:CB	2.42	0.49
2:C:690:ILE:CG2	2:C:852:ILE:HG23	2.39	0.49
2:M:671:ASN:HD21	2:M:993:PHE:HD2	1.60	0.49
5:F:411:HIS:HB2	9:F:9615:HOH:O	2.11	0.49
2:C:580:MET:HB3	2:C:584:GLU:CD	2.31	0.49
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.12	0.49
3:N:644:LEU:HB3	9:N:9610:HOH:O	2.11	0.49
3:D:880:ILE:O	3:D:883:ALA:HB3	2.12	0.49
2:M:820:ARG:HG2	2:M:820:ARG:HH11	1.76	0.49
3:N:1068:LEU:C	3:N:1070:TYR:N	2.65	0.49
2:M:114:PHE:H	2:M:114:PHE:HD1	1.60	0.49
2:C:569:VAL:HG12	2:C:996:LYS:O	2.12	0.49
5:F:323:ASP:HB3	5:F:325:LYS:HE3	1.93	0.49
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.47	0.49
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.42	0.49
2:C:745:ILE:HD11	9:C:9745:HOH:O	2.12	0.49
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.93	0.49
1:K:69:PRO:O	1:K:71:VAL:HG23	2.11	0.49
2:C:768:THR:CB	2:C:771:GLU:HB3	2.42	0.49
3:D:175:VAL:HG12	3:D:176:ASP:OD1	2.11	0.49
2:C:983:ILE:HG22	2:C:987:ILE:HD11	1.94	0.49
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.77	0.49
5:F:82:ARG:HA	9:F:9663:HOH:O	2.12	0.49
3:D:154:THR:HG23	3:D:157:GLU:H	1.77	0.49
5:P:132:ARG:O	5:P:136:LEU:HG	2.12	0.49
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.93	0.49
5:F:394:ARG:HG2	9:F:9632:HOH:O	2.12	0.49
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.41	0.49
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.94	0.49
2:C:669:GLY:HA3	2:C:995:MET:HA	1.93	0.49
1:B:206:THR:HG22	1:B:209:GLU:H	1.77	0.49
3:D:474:GLU:HG3	3:D:500:ARG:HE	1.77	0.49
3:N:1011:PHE:CD2	3:N:1021:TYR:HB2	2.47	0.49
4:O:47:LYS:N	4:O:54:LEU:HD22	2.27	0.49
2:M:95:TYR:N	2:M:95:TYR:CD1	2.81	0.49
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.42	0.49
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.94	0.49
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.11	0.49
3:D:1225:ALA:HA	3:D:1367:HIS:ND1	2.28	0.49
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.42	0.49
2:M:627:ARG:O	2:M:638:ASP:HB3	2.13	0.49
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.42	0.49
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.42	0.49
2:C:328:LEU:CD2	2:C:437:ARG:HD3	2.43	0.49
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.94	0.49
3:D:1061:PHE:HE1	3:D:1065:LEU:HD23	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.27	0.49
3:N:561:GLY:HA2	5:P:132:ARG:CZ	2.43	0.49
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.76	0.49
3:D:462:GLN:HG2	9:D:9936:HOH:O	2.12	0.49
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.94	0.49
3:N:1124:GLN:CG	3:N:1133:ARG:HD2	2.42	0.49
2:M:209:ARG:O	2:M:213:ALA:HB2	2.12	0.49
2:M:571:LEU:HA	2:M:701:THR:O	2.13	0.49
2:C:584:GLU:HG2	9:C:9657:HOH:O	2.12	0.49
3:D:901:GLN:HG2	9:D:9763:HOH:O	2.12	0.49
2:M:54:ILE:HG23	2:M:54:ILE:O	2.13	0.49
2:M:56:GLU:HB2	2:M:64:LEU:HB3	1.94	0.49
5:P:328:PHE:O	5:P:331:ASP:N	2.35	0.49
3:D:1192:LEU:HD13	3:D:1345:GLU:HG2	1.94	0.49
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.42	0.49
2:M:121:MET:HB3	9:M:9714:HOH:O	2.12	0.49
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.42	0.49
3:D:1403:LEU:HD11	9:D:9892:HOH:O	2.11	0.49
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.76	0.49
2:M:752:GLY:HA3	3:N:679:ARG:HA	1.93	0.49
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.76	0.49
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.12	0.49
2:C:51:THR:HB	2:C:348:LEU:HD23	1.94	0.49
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.12	0.49
5:P:297:PRO:HB2	9:P:4687:HOH:O	2.13	0.49
5:F:272:SER:HB2	9:F:9540:HOH:O	2.11	0.49
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.94	0.49
3:D:212:ARG:HA	9:D:9662:HOH:O	2.11	0.49
3:D:947:ILE:O	3:D:947:ILE:HD12	2.12	0.49
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.42	0.49
2:C:260:LEU:HA	2:C:291:ALA:CB	2.42	0.49
2:C:301:GLU:O	2:C:305:PRO:HG2	2.13	0.49
5:F:217:ASN:O	5:F:221:ILE:HG13	2.12	0.49
2:M:762:LYS:HD3	2:M:771:GLU:OE1	2.12	0.49
5:F:252:ALA:HB1	5:F:265:VAL:HG21	1.93	0.49
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.95	0.49
2:M:98:LEU:HG	9:M:9996:HOH:O	2.12	0.49
2:M:1005:MET:HB2	3:N:648:MET:HE3	1.93	0.49
3:N:976:GLN:HA	3:N:979:GLU:OE1	2.12	0.49
2:M:643:VAL:HG22	2:M:647:GLN:NE2	2.26	0.49
2:M:34:VAL:CB	2:M:38:LYS:HG3	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:860:LEU:HD23	3:D:877:PRO:CB	2.43	0.49
2:C:184:MET:HB2	2:C:193:LEU:HD12	1.95	0.49
2:C:146:VAL:HG13	2:C:161:SER:O	2.12	0.49
2:M:1079:PRO:HD3	9:M:2202:HOH:O	2.11	0.49
2:M:388:ARG:HG3	9:M:9960:HOH:O	2.12	0.49
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.49
3:N:1216:SER:OG	4:O:15:SER:HA	2.12	0.49
2:M:876:VAL:O	2:M:879:ARG:O	2.31	0.49
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.94	0.49
3:N:81:THR:O	3:N:82:LYS:C	2.51	0.49
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.43	0.49
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.76	0.49
3:N:699:VAL:HG22	3:N:756:GLN:HE22	1.77	0.49
2:C:332:ARG:HB2	2:C:466:PHE:CE1	2.47	0.49
3:D:765:SER:O	3:D:767:HIS:N	2.46	0.49
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.27	0.49
1:A:42:ARG:HB3	9:B:9613:HOH:O	2.11	0.49
3:D:131:LYS:HG3	9:D:9749:HOH:O	2.12	0.49
5:F:335:ASP:CG	5:F:338:LEU:HD12	2.33	0.49
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.52	0.49
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.12	0.49
3:D:530:VAL:N	3:D:534:ARG:O	2.37	0.49
2:C:286:SER:HB3	2:C:299:LYS:CE	2.43	0.49
3:D:704:ARG:HB2	3:D:736:PHE:HD2	1.77	0.49
3:D:400:VAL:HG13	3:D:441:ARG:HD3	1.94	0.49
1:L:65:PHE:HB2	9:L:5784:HOH:O	2.12	0.49
2:M:577:PRO:HA	2:M:993:PHE:CD2	2.48	0.49
3:N:396:VAL:HA	9:N:9955:HOH:O	2.11	0.49
1:K:19:GLU:CD	1:K:19:GLU:H	2.16	0.49
2:C:783:ARG:HD3	9:C:9806:HOH:O	2.11	0.49
1:B:94:LEU:HD11	1:B:119:ASP:CB	2.42	0.49
5:P:292:ALA:HB1	5:P:299:TRP:O	2.13	0.49
1:B:192:LEU:HB3	9:B:9480:HOH:O	2.12	0.49
3:N:1353:GLN:O	3:N:1357:ARG:HD2	2.12	0.49
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.43	0.49
3:D:770:LEU:HD22	3:D:777:PRO:HA	1.93	0.49
4:E:36:LYS:HD2	9:E:9566:HOH:O	2.11	0.49
2:C:703:ILE:CD1	2:C:830:LYS:HG2	2.43	0.49
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.94	0.49
5:F:115:LYS:HG3	5:F:173:TYR:CE2	2.48	0.49
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:123:MET:HE2	1:L:204:SER:HA	1.94	0.49
2:C:620:LEU:O	2:C:620:LEU:HD22	2.13	0.49
5:P:356:LYS:NZ	5:P:417:LYS:HE2	2.26	0.49
3:D:1156:LEU:HG	3:D:1177:ALA:HB2	1.94	0.49
2:M:470:PRO:HB2	2:M:483:VAL:HG11	1.94	0.49
1:A:190:THR:HG22	9:A:9695:HOH:O	2.12	0.49
3:D:447:VAL:HG12	9:D:9781:HOH:O	2.12	0.49
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.94	0.49
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.31	0.49
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.43	0.49
5:P:85:LEU:HD22	5:P:193:ARG:HD3	1.94	0.49
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.93	0.49
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.49
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.48	0.49
5:F:366:ALA:HB3	5:F:367:MET:CE	2.42	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.28	0.49
5:P:247:ILE:O	5:P:251:ILE:HG13	2.12	0.49
5:P:82:ARG:HB2	9:P:5834:HOH:O	2.13	0.49
2:C:712:ALA:O	2:C:820:ARG:HB2	2.12	0.49
2:M:1118:LYS:HD2	9:N:9587:HOH:O	2.13	0.49
1:B:159:LYS:N	1:B:159:LYS:HD3	2.27	0.49
2:M:1070:ILE:HD13	9:N:2071:HOH:O	2.12	0.49
2:M:353:ARG:HG2	9:M:9825:HOH:O	2.12	0.49
2:C:537:LYS:CD	2:C:537:LYS:H	2.26	0.49
2:C:676:ILE:O	2:C:676:ILE:HG23	2.12	0.49
2:C:390:GLN:O	7:C:8001:RPT:H142	2.11	0.49
5:P:358:LEU:CD2	5:P:370:LYS:HE3	2.42	0.49
5:P:350:LEU:O	5:P:354:LEU:HG	2.13	0.49
2:M:671:ASN:HD22	2:M:993:PHE:HA	1.76	0.49
2:M:56:GLU:HB3	9:M:9605:HOH:O	2.12	0.49
1:A:218:LEU:O	1:A:222:LEU:HD23	2.12	0.49
2:C:722:ILE:HD12	2:C:805:ARG:CZ	2.43	0.49
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.48	0.49
2:M:881:ASN:N	2:M:881:ASN:HD22	2.04	0.49
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.78	0.49
1:L:129:ILE:HD13	9:L:4066:HOH:O	2.11	0.49
2:C:769:PRO:HD2	9:D:2497:HOH:O	2.13	0.49
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.93	0.49
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.13	0.49
2:C:175:GLU:HB3	2:C:183:SER:OG	2.13	0.49
2:C:969:GLN:HB3	9:D:2069:HOH:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1065:ALA:HB1	9:C:9619:HOH:O	2.12	0.49
3:N:424:GLY:HA2	3:N:435:VAL:O	2.12	0.49
3:N:634:GLY:O	3:N:637:LEU:HB3	2.13	0.49
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	2.25	0.49
2:C:444:PRO:HB3	7:C:8001:RPT:H302	1.95	0.49
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.48	0.49
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.36	0.49
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.94	0.49
2:C:777:ILE:HD12	9:C:9524:HOH:O	2.12	0.49
2:M:546:LEU:O	2:M:546:LEU:HD23	2.13	0.49
3:N:488:ARG:CZ	3:N:488:ARG:HB3	2.42	0.49
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.78	0.49
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.28	0.49
3:N:850:LEU:O	3:N:853:VAL:HB	2.13	0.49
2:C:8:ARG:HB2	9:C:9660:HOH:O	2.13	0.49
3:D:230:TRP:HA	9:D:2088:HOH:O	2.13	0.49
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.95	0.49
3:D:928:ALA:O	3:D:931:LEU:HB2	2.13	0.49
3:N:578:VAL:O	3:N:582:LEU:HD12	2.13	0.49
2:C:57:GLU:HG3	2:C:58:ASP:OD2	2.13	0.49
3:D:149:LYS:HA	9:D:9954:HOH:O	2.12	0.49
3:N:1182:GLU:HG2	9:N:9579:HOH:O	2.11	0.49
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.94	0.49
2:C:726:ILE:HG22	9:C:2076:HOH:O	2.12	0.49
2:M:21:ILE:HD12	2:M:21:ILE:H	1.77	0.49
3:N:880:ILE:O	3:N:883:ALA:HB3	2.13	0.49
3:D:1114:THR:HG23	3:D:1116:ASN:ND2	2.28	0.49
3:D:1087:ARG:HH21	3:D:1238:MET:HB2	1.77	0.49
2:C:365:ASP:O	2:C:367:LEU:HD12	2.13	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.43	0.49
2:C:862:PRO:HG3	2:C:975:TYR:CE1	2.48	0.49
2:M:281:LEU:CD1	2:M:306:THR:HA	2.43	0.49
2:M:409:ARG:NH2	7:M:8002:RPT:H18	2.24	0.49
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.43	0.49
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.41	0.49
5:F:117:SER:HB3	9:F:9892:HOH:O	2.13	0.49
3:D:702:LEU:HG	3:D:745:MET:HE3	1.94	0.49
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.78	0.49
3:N:1007:VAL:O	3:N:1010:ASN:HB3	2.12	0.49
3:N:996:TRP:HA	3:N:999:THR:CG2	2.40	0.49
3:D:1267:ARG:HH22	3:D:1333:HIS:CD2	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:68:ILE:HD13	1:K:138:LEU:HD13	1.94	0.49
1:B:103:ALA:HB1	1:B:107:LYS:HD2	1.95	0.49
3:D:809:PRO:O	3:D:812:ALA:HB3	2.13	0.49
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.12	0.49
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.48	0.49
2:C:893:ALA:O	2:C:897:LEU:HB2	2.13	0.49
4:E:45:ARG:HB2	4:E:46:PRO:CD	2.43	0.49
4:O:33:HIS:HB3	9:O:4524:HOH:O	2.10	0.49
2:M:338:GLU:HA	2:M:341:THR:HG22	1.94	0.49
5:P:356:LYS:O	5:P:360:LYS:HG2	2.12	0.49
2:M:543:ASN:HD22	2:M:562:SER:HB3	1.77	0.49
3:N:463:GLN:O	3:N:467:GLU:HG3	2.13	0.49
2:C:37:GLU:HA	9:C:9707:HOH:O	2.12	0.49
2:M:928:LYS:HA	9:M:2129:HOH:O	2.12	0.49
1:A:89:PHE:CZ	1:A:146:ARG:HB2	2.48	0.48
3:D:186:VAL:HG23	3:D:211:VAL:CG1	2.43	0.48
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.94	0.48
2:M:720:GLU:HA	2:M:759:THR:O	2.13	0.48
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.13	0.48
2:C:396:ASP:HA	2:C:633:GLN:NE2	2.27	0.48
3:N:1382:THR:HG22	9:N:9550:HOH:O	2.13	0.48
3:D:669:ASN:O	3:D:672:ALA:HB3	2.12	0.48
1:K:32:PHE:N	9:K:4346:HOH:O	2.40	0.48
1:B:89:PHE:HB2	9:B:9688:HOH:O	2.13	0.48
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.48	0.48
3:N:1318:TYR:HD1	3:N:1319:VAL:N	2.11	0.48
3:D:896:ALA:HB2	9:D:9543:HOH:O	2.13	0.48
3:N:958:GLU:O	3:N:961:LYS:HG2	2.13	0.48
3:N:237:LYS:HA	9:N:2400:HOH:O	2.13	0.48
3:N:998:GLU:HG2	9:N:9574:HOH:O	2.12	0.48
2:M:302:VAL:HB	9:M:9592:HOH:O	2.13	0.48
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.94	0.48
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.95	0.48
2:C:470:PRO:HB2	2:C:483:VAL:HG11	1.94	0.48
2:C:535:SER:O	2:C:538:GLN:HG2	2.13	0.48
3:D:86:ARG:HG3	3:D:86:ARG:O	2.12	0.48
4:E:26:ARG:HH11	4:E:29:GLN:NE2	2.10	0.48
2:M:242:LEU:HD13	9:M:2044:HOH:O	2.13	0.48
5:F:192:LEU:O	5:F:192:LEU:HD23	2.13	0.48
5:F:123:ASP:H	5:F:126:LEU:HD22	1.79	0.48
2:M:728:HIS:NE2	2:M:775:ARG:NH2	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1275:SER:HB3	3:N:1325:LEU:CD1	2.43	0.48
2:M:1111:ILE:HG13	2:M:1112:PHE:N	2.25	0.48
2:M:1015:LEU:HB2	5:P:334:PRO:O	2.13	0.48
3:D:633:VAL:C	3:D:635:PRO:HD3	2.33	0.48
3:D:105:VAL:HG12	3:D:106:LYS:NZ	2.28	0.48
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.95	0.48
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.96	0.48
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.13	0.48
2:C:570:PRO:CD	2:C:635:THR:HB	2.43	0.48
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.96	0.48
1:A:81:ASN:HA	1:A:84:GLU:CD	2.33	0.48
3:D:666:ILE:HG22	3:D:676:MET:HE1	1.96	0.48
3:N:671:LYS:HE2	9:N:2679:HOH:O	2.12	0.48
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.94	0.48
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.48	0.48
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.95	0.48
2:C:231:PRO:HB3	9:C:9728:HOH:O	2.13	0.48
2:C:56:GLU:HB3	9:C:9504:HOH:O	2.13	0.48
3:N:52:PRO:HD2	3:N:79:GLU:O	2.12	0.48
3:D:181:ASP:O	3:D:185:VAL:HG23	2.13	0.48
3:N:777:PRO:HG2	3:N:915:VAL:HB	1.96	0.48
3:N:1425:THR:HG23	3:N:1426:LYS:H	1.78	0.48
3:N:1198:TYR:HE2	3:N:1432:LYS:HE2	1.79	0.48
3:N:563:PRO:HG3	5:P:188:ILE:HG21	1.96	0.48
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.43	0.48
5:P:119:ILE:HD13	5:P:170:HIS:ND1	2.27	0.48
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.13	0.48
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.47	0.48
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.95	0.48
3:D:631:ILE:O	3:D:632:VAL:HG23	2.13	0.48
2:C:580:MET:O	2:C:903:SER:N	2.45	0.48
1:L:100:LEU:O	1:L:115:LEU:HG	2.13	0.48
3:D:1188:VAL:HG22	3:D:1189:ARG:O	2.14	0.48
3:D:847:ASP:HA	3:D:850:LEU:CD1	2.44	0.48
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.43	0.48
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.95	0.48
1:K:91:ASN:O	1:K:94:LEU:HD12	2.12	0.48
2:C:604:ALA:HB3	2:C:612:VAL:O	2.13	0.48
3:N:1356:TYR:CD2	3:N:1363:LEU:HD23	2.49	0.48
3:D:1159:ARG:CZ	3:D:1159:ARG:HB3	2.42	0.48
3:N:1406:ARG:HA	9:N:2372:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:910:LYS:HD3	9:M:9697:HOH:O	2.13	0.48
3:D:428:LYS:HD3	9:D:2416:HOH:O	2.12	0.48
3:D:169:TYR:N	3:D:170:PRO:CD	2.77	0.48
3:D:170:PRO:HG2	9:D:2240:HOH:O	2.13	0.48
3:N:438:ASP:HB2	9:N:9821:HOH:O	2.13	0.48
2:C:775:ARG:HE	2:C:782:ALA:CB	2.25	0.48
2:C:56:GLU:HG2	2:C:64:LEU:HD23	1.94	0.48
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.95	0.48
2:M:1097:LEU:HD22	2:M:1097:LEU:N	2.29	0.48
4:O:18:ARG:O	4:O:22:VAL:HG23	2.13	0.48
3:D:525:ARG:HA	3:D:538:SER:HB2	1.94	0.48
1:A:195:LEU:HD12	1:A:196:THR:N	2.27	0.48
3:D:122:GLU:OE1	3:D:122:GLU:HA	2.13	0.48
1:L:23:PHE:O	1:L:196:THR:HA	2.14	0.48
2:M:45:GLN:CG	2:M:49:ARG:HH22	2.27	0.48
2:M:71:TYR:CD2	2:M:71:TYR:N	2.81	0.48
3:D:105:VAL:HG12	3:D:106:LYS:HZ2	1.77	0.48
3:N:884:ARG:HD3	9:N:9544:HOH:O	2.13	0.48
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.13	0.48
2:M:683:ASN:HB2	9:M:9667:HOH:O	2.13	0.48
3:D:754:PHE:HE2	3:D:1476:THR:HG21	1.79	0.48
3:N:95:LEU:HD11	3:N:517:VAL:HG23	1.96	0.48
2:M:514:VAL:HG22	9:M:9787:HOH:O	2.13	0.48
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.94	0.48
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.27	0.48
2:M:909:ALA:C	2:M:910:LYS:HD2	2.34	0.48
5:P:353:GLU:OE1	5:P:356:LYS:HE2	2.13	0.48
3:N:581:LEU:H	3:N:581:LEU:HD23	1.78	0.48
3:N:1304:LYS:HG2	9:N:2548:HOH:O	2.13	0.48
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.12	0.48
5:P:122:LEU:HD11	5:P:126:LEU:HD23	1.95	0.48
2:M:625:LEU:O	2:M:627:ARG:N	2.45	0.48
3:N:546:ARG:NH2	3:N:550:ARG:HH12	2.12	0.48
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.49	0.48
3:D:911:LEU:O	3:D:915:VAL:HG23	2.14	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.14	0.48
4:E:16:LYS:HA	9:E:9481:HOH:O	2.12	0.48
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.95	0.48
3:N:714:GLN:OE1	3:N:765:SER:HA	2.13	0.48
3:N:1136:LYS:HB2	3:N:1139:ASP:OD2	2.13	0.48
2:C:160:ALA:O	2:C:173:ASP:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:820:ARG:HD3	9:C:2168:HOH:O	2.12	0.48
2:C:1073:GLY:HA3	9:C:9551:HOH:O	2.13	0.48
3:N:415:VAL:HG23	9:N:2389:HOH:O	2.13	0.48
4:E:50:THR:HG22	9:E:9491:HOH:O	2.12	0.48
2:M:609:ASN:ND2	2:M:627:ARG:HE	2.12	0.48
3:N:1045:MET:HE1	9:N:9654:HOH:O	2.14	0.48
3:D:142:LEU:HB3	9:D:9718:HOH:O	2.13	0.48
3:D:790:TYR:CD1	3:D:1022:VAL:HG13	2.48	0.48
3:N:27:GLU:O	3:N:28:LYS:HD2	2.13	0.48
5:P:214:GLN:O	5:P:217:ASN:HB2	2.13	0.48
3:N:152:LEU:HD21	9:N:9735:HOH:O	2.13	0.48
2:M:205:GLU:OE2	2:M:206:THR:HB	2.14	0.48
1:L:206:THR:HG23	1:L:208:LEU:H	1.78	0.48
2:M:102:HIS:HB2	2:M:106:GLY:O	2.14	0.48
2:M:1081:VAL:HB	2:M:1086:ARG:NE	2.29	0.48
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.28	0.48
3:D:829:VAL:H	3:D:835:SER:HB2	1.78	0.48
2:M:274:ARG:HB2	2:M:285:LEU:CD1	2.43	0.48
3:D:1307:LYS:CD	3:D:1307:LYS:H	2.23	0.48
2:C:722:ILE:HG23	2:C:722:ILE:O	2.14	0.48
4:E:17:TYR:HD2	4:E:17:TYR:H	1.62	0.48
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.95	0.48
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	2.14	0.48
1:L:170:VAL:C	1:L:172:SER:H	2.16	0.48
3:D:1302:GLU:HG3	9:D:9628:HOH:O	2.14	0.48
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.95	0.48
3:N:820:GLU:HA	3:N:825:ALA:O	2.14	0.48
2:C:588:VAL:HG21	2:C:664:GLY:O	2.13	0.48
2:C:426:ASP:HB2	9:C:2334:HOH:O	2.13	0.48
1:L:219:ARG:O	1:L:223:THR:HG23	2.13	0.48
1:B:170:VAL:HG23	1:B:170:VAL:O	2.13	0.48
3:N:1303:TYR:HD2	9:N:2651:HOH:O	1.96	0.48
5:F:151:LEU:HB2	5:F:155:THR:H	1.79	0.48
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.38	0.48
1:B:124:ASN:HA	9:B:9533:HOH:O	2.14	0.48
1:B:81:ASN:HD21	1:B:127:LEU:HG	1.78	0.48
2:C:108:ILE:HD12	2:C:108:ILE:N	2.28	0.48
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.48	0.48
3:D:183:GLU:O	3:D:186:VAL:HG12	2.14	0.48
3:D:213:VAL:HG22	3:D:214:GLU:H	1.79	0.48
2:C:459:ALA:HB1	2:C:467:ILE:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:458:TYR:HB3	2:C:470:PRO:HG3	1.95	0.48
3:D:639:LEU:HD12	3:D:640:HIS:H	1.78	0.48
2:C:677:MET:HE3	3:D:943:THR:O	2.13	0.48
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.14	0.48
3:N:152:LEU:CD2	3:N:152:LEU:H	2.25	0.48
2:C:952:LEU:HB3	2:C:966:LEU:HD11	1.95	0.48
3:D:699:VAL:H	3:D:756:GLN:HE21	1.57	0.48
1:L:185:ARG:HG3	1:L:190:THR:CG2	2.39	0.48
2:C:299:LYS:HB3	9:C:9713:HOH:O	2.12	0.48
2:M:431:HIS:HD2	2:M:433:THR:H	1.58	0.48
3:D:10:ILE:HD13	3:D:1447:LEU:HG	1.95	0.48
2:M:195:LEU:HG	2:M:238:LEU:HG	1.96	0.48
5:F:261:PRO:O	5:F:265:VAL:HG23	2.14	0.48
3:N:1305:LEU:HD21	3:N:1326:THR:OG1	2.14	0.48
1:A:99:LEU:HB3	1:A:114:PHE:HD2	1.78	0.48
2:M:1081:VAL:HB	2:M:1086:ARG:HE	1.78	0.48
2:M:1043:TYR:HA	9:O:4679:HOH:O	2.13	0.48
3:N:515:GLU:HB2	9:N:9820:HOH:O	2.13	0.48
1:L:191:ASP:O	1:L:192:LEU:HG	2.13	0.48
3:D:1432:LYS:HA	9:D:9581:HOH:O	2.13	0.48
1:A:20:TYR:CD2	1:A:21:GLY:N	2.80	0.48
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.43	0.48
2:C:480:THR:HG22	2:C:481:ASP:N	2.28	0.48
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.94	0.48
1:K:83:LYS:HE2	1:K:168:ASP:N	2.27	0.48
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.14	0.48
5:P:346:THR:HA	9:P:4114:HOH:O	2.12	0.48
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.49	0.48
3:N:629:SER:OG	3:N:726:ILE:HG13	2.14	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.13	0.48
2:C:64:LEU:HD12	2:C:100:LEU:HD13	1.95	0.48
2:C:1115:LEU:HB3	3:D:85:VAL:CG1	2.44	0.48
3:N:694:VAL:HG13	9:N:2371:HOH:O	2.13	0.48
5:F:128:ARG:HG2	9:F:9497:HOH:O	2.12	0.48
3:D:1223:ILE:HD12	3:D:1223:ILE:N	2.20	0.48
3:N:186:VAL:HG13	3:N:187:LYS:N	2.29	0.48
3:N:796:ARG:HA	9:N:9559:HOH:O	2.14	0.48
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.78	0.48
9:M:9830:HOH:O	5:P:351:SER:HA	2.14	0.48
2:M:666:LEU:HD12	2:M:667:ALA:N	2.29	0.48
2:C:1051:GLU:HG3	2:C:1055:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:54:ILE:HA	9:M:9582:HOH:O	2.13	0.48
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.14	0.48
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.95	0.48
2:C:627:ARG:HG3	2:C:628:PHE:H	1.77	0.48
2:C:42:VAL:HG12	2:C:43:GLY:N	2.26	0.48
3:N:1353:GLN:HE21	3:N:1357:ARG:HE	1.61	0.48
4:E:54:LEU:O	4:E:54:LEU:HD23	2.14	0.48
1:K:50:GLY:O	1:K:146:ARG:HA	2.13	0.48
3:N:462:GLN:HB2	3:N:513:ILE:HG21	1.95	0.48
3:N:897:TRP:CZ2	3:N:902:LEU:HD21	2.48	0.48
3:N:967:ALA:O	3:N:995:LEU:HD21	2.13	0.48
5:P:287:THR:C	5:P:289:GLU:H	2.16	0.48
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.95	0.48
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.13	0.48
2:C:931:GLY:HA3	9:C:2360:HOH:O	2.14	0.48
3:N:1036:ARG:NH2	9:N:9654:HOH:O	2.47	0.48
1:A:14:ARG:HH12	1:A:24:VAL:HG23	1.79	0.48
2:C:444:PRO:HB3	7:C:8001:RPT:C30	2.44	0.48
3:N:557:LEU:HD11	5:P:214:GLN:NE2	2.28	0.48
5:F:131:VAL:HG22	5:F:178:ARG:HD3	1.95	0.48
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.95	0.48
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.94	0.48
3:N:525:ARG:HD2	3:N:541:ASN:OD1	2.14	0.48
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.94	0.48
2:M:54:ILE:HB	9:M:2245:HOH:O	2.14	0.48
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	1.95	0.48
2:C:1067:TYR:CE1	3:D:655:PRO:HG3	2.49	0.48
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.48
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.14	0.48
2:M:726:ILE:O	2:M:726:ILE:HG22	2.12	0.48
3:N:674:ARG:HG2	3:N:674:ARG:NH1	2.29	0.48
2:C:769:PRO:HB3	9:F:9559:HOH:O	2.12	0.48
3:D:792:ILE:O	3:D:878:GLY:HA3	2.13	0.48
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.14	0.48
2:M:614:ARG:HG3	2:M:620:LEU:HD12	1.96	0.48
2:C:649:VAL:HG23	9:C:9833:HOH:O	2.13	0.48
2:M:278:GLU:HB3	9:M:2020:HOH:O	2.14	0.48
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.28	0.48
3:D:27:GLU:HG3	3:D:28:LYS:HD2	1.96	0.48
3:D:42:ASP:O	3:D:46:ASP:HB2	2.13	0.48
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.95	0.48
1:A:36:LEU:HD11	1:B:221:HIS:HB3	1.95	0.48
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.96	0.48
3:N:1096:ARG:NH1	3:N:1096:ARG:HG2	2.29	0.48
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.94	0.48
5:P:350:LEU:HD23	5:P:351:SER:N	2.29	0.48
3:D:1418:LYS:HG3	9:D:9914:HOH:O	2.13	0.48
2:C:144:PRO:HG2	2:C:265:ARG:NH1	2.25	0.48
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.43	0.48
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.13	0.48
2:M:1043:TYR:OH	3:N:711:LEU:HD23	2.13	0.48
3:D:1379:VAL:HA	3:D:1420:LEU:HB3	1.95	0.48
3:D:1404:ASN:HB2	9:D:9939:HOH:O	2.14	0.48
2:C:1036:GLU:HA	3:D:707:THR:HG21	1.96	0.48
3:D:1280:VAL:HG12	3:D:1281:VAL:N	2.29	0.48
2:C:184:MET:HB2	2:C:193:LEU:CD1	2.44	0.48
2:M:863:ASP:O	2:M:865:THR:N	2.47	0.48
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.13	0.48
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.79	0.48
2:C:630:ARG:HA	2:C:705:ILE:CD1	2.44	0.48
3:N:794:GLN:NE2	3:N:795:VAL:O	2.47	0.48
3:N:493:ARG:NH2	3:N:1388:ARG:HB3	2.28	0.48
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.44	0.48
5:F:388:ALA:HB1	9:F:9483:HOH:O	2.12	0.48
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.49	0.48
2:M:432:ARG:NE	2:M:519:GLY:HA3	2.29	0.48
2:C:445:GLU:HB2	2:C:559:LEU:HD21	1.95	0.48
1:L:73:GLU:HB3	1:L:77:GLU:CG	2.43	0.48
3:D:1169:ASP:HB3	9:D:2071:HOH:O	2.13	0.48
1:L:132:LEU:HD21	1:L:136:GLY:O	2.14	0.48
3:N:970:LYS:HB2	3:N:970:LYS:NZ	2.29	0.48
2:C:380:ALA:O	2:C:384:GLU:HB2	2.13	0.48
2:M:189:ARG:HH22	2:M:243:ARG:HG2	1.78	0.48
5:F:277:GLN:O	5:F:280:GLN:HB3	2.14	0.48
1:K:48:ILE:HD13	1:K:210:ALA:HB1	1.95	0.48
3:D:1259:VAL:O	3:D:1263:PHE:HD1	1.97	0.47
2:M:607:ASP:HB3	2:M:609:ASN:H	1.78	0.47
1:B:86:VAL:HG22	9:B:9508:HOH:O	2.14	0.47
3:N:80:VAL:HG12	3:N:81:THR:H	1.77	0.47
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.95	0.47
3:N:1209:LEU:HD22	3:N:1211:MET:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.34	0.47
3:D:523:ASP:O	3:D:526:PRO:HG3	2.14	0.47
3:N:122:GLU:O	3:N:126:VAL:HG23	2.13	0.47
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.44	0.47
9:C:9669:HOH:O	3:D:1075:HIS:HE1	1.96	0.47
1:A:143:ARG:HD2	1:A:145:ASP:OD1	2.14	0.47
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.49	0.47
3:N:1238:MET:HE1	3:N:1257:PRO:HG3	1.96	0.47
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.23	0.47
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.96	0.47
5:P:234:LYS:CD	5:P:236:SER:H	2.27	0.47
2:M:1082:PRO:HG3	9:M:9510:HOH:O	2.13	0.47
2:C:182:VAL:HG11	9:C:9507:HOH:O	2.13	0.47
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.49	0.47
3:N:633:VAL:C	3:N:635:PRO:HD3	2.34	0.47
3:N:1493:LYS:HB2	9:N:9693:HOH:O	2.13	0.47
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.47
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.44	0.47
1:L:19:GLU:HG3	1:L:201:THR:O	2.14	0.47
2:M:781:LYS:HG3	9:M:2053:HOH:O	2.14	0.47
2:M:345:ARG:HA	2:M:348:LEU:HB2	1.94	0.47
5:P:417:LYS:HD2	9:P:4364:HOH:O	2.13	0.47
2:M:1118:LYS:HB3	3:N:23:TYR:CE1	2.49	0.47
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.14	0.47
3:N:730:PRO:HA	3:N:733:CYS:SG	2.54	0.47
2:C:189:ARG:HH22	2:C:243:ARG:NH2	2.12	0.47
3:D:1087:ARG:HB2	3:D:1087:ARG:CZ	2.44	0.47
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.13	0.47
1:B:151:VAL:HA	1:B:155:LYS:HZ3	1.79	0.47
3:D:445:ARG:HB3	9:D:9781:HOH:O	2.13	0.47
2:C:876:VAL:O	2:C:879:ARG:O	2.32	0.47
3:D:1020:LEU:HA	3:D:1023:MET:HE3	1.96	0.47
2:C:1086:ARG:HD3	2:C:1112:PHE:HD2	1.80	0.47
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.29	0.47
5:P:193:ARG:HD2	9:P:3462:HOH:O	2.14	0.47
3:D:1491:THR:HG22	9:E:9496:HOH:O	2.13	0.47
2:C:1030:GLN:NE2	2:C:1030:GLN:HA	2.29	0.47
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.97	0.47
3:D:756:GLN:HG2	9:E:9480:HOH:O	2.13	0.47
3:D:671:LYS:O	3:D:671:LYS:HD3	2.14	0.47
2:C:244:PRO:HG2	2:C:246:ASP:CG	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:23:PHE:O	1:K:196:THR:HA	2.14	0.47
2:M:331:ARG:NH1	2:M:427:VAL:HG13	2.29	0.47
2:M:139:GLN:HE22	2:M:418:LEU:HD13	1.79	0.47
2:M:66:LEU:HD13	2:M:100:LEU:HB2	1.95	0.47
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.96	0.47
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.41	0.47
2:M:881:ASN:N	2:M:881:ASN:ND2	2.61	0.47
2:M:678:PRO:HA	2:M:683:ASN:HD21	1.79	0.47
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.95	0.47
2:M:474:VAL:HG23	2:M:478:VAL:O	2.14	0.47
4:O:48:MET:CB	4:O:54:LEU:HB2	2.44	0.47
3:N:668:PRO:HA	9:N:9706:HOH:O	2.14	0.47
4:E:49:GLN:HA	4:E:51:LEU:O	2.14	0.47
4:O:70:THR:CG2	4:O:72:ARG:HH21	2.27	0.47
5:F:352:GLU:HG2	9:F:9594:HOH:O	2.13	0.47
3:N:1111:ASP:HA	9:N:9807:HOH:O	2.13	0.47
2:M:381:ALA:HA	9:M:9949:HOH:O	2.13	0.47
3:D:39:PRO:HB2	9:D:9934:HOH:O	2.14	0.47
3:N:591:VAL:HG12	3:N:592:THR:O	2.14	0.47
1:B:133:GLU:HG3	9:B:9692:HOH:O	2.13	0.47
3:D:110:SER:HB2	9:D:9697:HOH:O	2.13	0.47
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.44	0.47
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.96	0.47
2:C:285:LEU:HD23	2:C:285:LEU:O	2.14	0.47
2:C:367:LEU:HD22	9:C:2175:HOH:O	2.14	0.47
2:C:52:PHE:HA	9:C:9979:HOH:O	2.13	0.47
2:M:551:GLU:OE1	2:M:906:PHE:HA	2.14	0.47
3:N:776:GLU:OE1	3:N:912:LYS:HD3	2.14	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.78	0.47
2:C:197:LEU:HA	9:C:9888:HOH:O	2.14	0.47
4:E:59:ASN:HB3	4:E:62:THR:OG1	2.13	0.47
1:A:133:GLU:HA	9:A:9594:HOH:O	2.13	0.47
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.35	0.47
3:N:474:GLU:O	3:N:478:LEU:HG	2.15	0.47
3:D:473:LEU:HD11	3:D:495:ARG:NH1	2.29	0.47
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.42	0.47
9:D:2394:HOH:O	4:E:54:LEU:HD11	2.14	0.47
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.94	0.47
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.28	0.47
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.79	0.47
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:843:PHE:CZ	3:D:864:VAL:HG11	2.49	0.47
3:N:664:LYS:HA	9:N:2138:HOH:O	2.14	0.47
3:N:491:LYS:HG3	9:N:9963:HOH:O	2.13	0.47
2:C:110:GLU:H	2:C:368:THR:HG21	1.79	0.47
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.44	0.47
2:C:134:ARG:HH21	2:C:394:PHE:N	2.12	0.47
1:A:30:ARG:HH22	1:A:191:ASP:HB2	1.79	0.47
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.78	0.47
9:C:9961:HOH:O	5:F:350:LEU:HD21	2.14	0.47
3:D:672:ALA:HA	5:F:420:ASP:OD2	2.15	0.47
3:N:1280:VAL:HG12	3:N:1281:VAL:N	2.29	0.47
3:D:836:VAL:HG12	9:D:9486:HOH:O	2.14	0.47
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.29	0.47
3:D:114:THR:O	3:D:495:ARG:HG3	2.15	0.47
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.95	0.47
3:D:501:ALA:HA	3:D:504:ASP:HB2	1.97	0.47
3:N:834:THR:HB	3:N:838:ARG:HB3	1.95	0.47
2:M:841:ASN:HD22	2:M:843:HIS:H	1.60	0.47
2:M:63:GLY:CA	2:M:103:LYS:HE2	2.45	0.47
1:B:173:PRO:HB2	1:B:205:VAL:HG22	1.96	0.47
2:C:352:ALA:O	2:C:355:VAL:HG12	2.15	0.47
3:D:171:LEU:HA	3:D:390:PRO:HA	1.96	0.47
2:C:413:LEU:H	2:C:413:LEU:CD1	2.25	0.47
3:N:728:LEU:HD12	3:N:729:HIS:N	2.30	0.47
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.49	0.47
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.30	0.47
2:C:16:PRO:HG2	2:C:460:ARG:HH12	1.79	0.47
3:D:1468:LEU:CD1	3:D:1470:ARG:HD3	2.43	0.47
2:C:945:ARG:HD3	2:C:949:LYS:HE3	1.96	0.47
2:M:393:GLN:HB3	7:M:8002:RPT:H343	1.97	0.47
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.95	0.47
3:N:1382:THR:HG21	3:N:1418:LYS:HZ2	1.77	0.47
3:D:584:ASN:HA	9:D:9901:HOH:O	2.15	0.47
2:M:773:LEU:HD21	5:P:354:LEU:HD22	1.95	0.47
3:D:891:GLU:N	9:D:9484:HOH:O	2.47	0.47
2:M:602:GLU:HA	2:M:647:GLN:O	2.14	0.47
5:P:236:SER:HB3	9:P:3697:HOH:O	2.14	0.47
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.50	0.47
2:C:420:ARG:HG2	2:C:421:GLU:H	1.79	0.47
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.76	0.47
1:L:84:GLU:HG3	1:L:127:LEU:CD2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:848:GLU:HB3	9:N:9763:HOH:O	2.14	0.47
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.95	0.47
2:M:1102:LEU:HD11	3:N:9:ARG:HB2	1.97	0.47
1:K:34:VAL:HG21	9:M:2370:HOH:O	2.15	0.47
3:D:659:LYS:HD3	3:D:659:LYS:O	2.14	0.47
2:C:19:THR:HG22	2:C:19:THR:O	2.15	0.47
2:M:1030:GLN:HB2	3:N:626:SER:HB2	1.96	0.47
1:K:102:LYS:HG2	9:K:3922:HOH:O	2.13	0.47
2:C:537:LYS:HD2	2:C:537:LYS:H	1.80	0.47
2:C:1081:VAL:CG1	2:C:1086:ARG:HE	2.27	0.47
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.96	0.47
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.45	0.47
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.95	0.47
3:N:563:PRO:O	3:N:567:ILE:HG13	2.13	0.47
3:D:399:ARG:HH21	3:D:432:TYR:HE2	1.61	0.47
2:M:227:PHE:HA	2:M:230:ARG:NE	2.22	0.47
3:N:1352:ILE:CG2	3:N:1368:ILE:HD13	2.45	0.47
2:M:196:LEU:O	2:M:199:VAL:HB	2.15	0.47
3:N:719:VAL:N	9:N:9610:HOH:O	2.47	0.47
5:P:142:ARG:NH1	5:P:150:THR:HG21	2.30	0.47
2:M:269:LEU:HD11	2:M:287:GLY:HA2	1.97	0.47
2:M:197:LEU:CD1	2:M:207:LEU:HD11	2.45	0.47
2:C:752:GLY:C	2:C:791:ARG:HH12	2.18	0.47
1:B:191:ASP:O	1:B:192:LEU:HG	2.13	0.47
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.49	0.47
3:N:96:ALA:HB2	9:N:9830:HOH:O	2.13	0.47
1:K:18:ARG:O	1:K:201:THR:OG1	2.32	0.47
2:C:114:PHE:HB2	9:C:9593:HOH:O	2.14	0.47
2:M:802:ARG:HH11	2:M:802:ARG:CB	2.28	0.47
3:D:1302:GLU:OE2	3:D:1304:LYS:HG2	2.15	0.47
1:A:57:TYR:CD1	1:A:161:ARG:HB3	2.50	0.47
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.95	0.47
1:A:219:ARG:NH1	1:B:219:ARG:HG2	2.29	0.47
2:M:1019:GLN:NE2	3:N:621:LYS:HA	2.28	0.47
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.29	0.47
2:C:1047:HIS:CD2	3:D:1471:LEU:HD11	2.50	0.47
1:B:171:PHE:HD2	9:B:9528:HOH:O	1.96	0.47
2:C:269:LEU:HD23	9:C:2225:HOH:O	2.15	0.47
2:C:285:LEU:HD12	2:C:288:ARG:O	2.14	0.47
2:C:48:PHE:O	2:C:52:PHE:HB2	2.15	0.47
3:N:58:CYS:SG	3:N:59:ALA:N	2.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.44	0.47
5:P:151:LEU:HB2	5:P:155:THR:OG1	2.15	0.47
3:N:550:ARG:HH21	5:P:211:ASP:CG	2.18	0.47
2:C:673:LEU:CD2	2:C:867:VAL:HG12	2.45	0.47
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.79	0.47
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.45	0.47
2:C:1016:ILE:HD12	3:D:526:PRO:HG2	1.96	0.47
3:D:601:ARG:HE	3:D:606:ILE:HA	1.78	0.47
2:C:212:GLY:C	2:C:215:GLY:H	2.18	0.47
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.13	0.47
1:A:36:LEU:O	1:A:40:LEU:HG	2.15	0.47
3:D:572:ARG:HH12	5:F:79:ASP:CG	2.18	0.47
3:D:969:ARG:O	3:D:972:LEU:HB3	2.14	0.47
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.15	0.47
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.15	0.47
3:D:1220:ALA:HB1	3:D:1223:ILE:CD1	2.41	0.47
3:N:704:ARG:CD	3:N:705:ALA:H	2.26	0.47
2:M:768:THR:O	2:M:772:ARG:HB3	2.15	0.47
2:M:772:ARG:CD	5:P:373:LYS:HD2	2.44	0.47
2:M:431:HIS:HB3	2:M:434:HIS:CD2	2.49	0.47
2:C:389:SER:C	2:C:391:LEU:N	2.68	0.47
2:M:741:GLY:HA3	9:M:9845:HOH:O	2.13	0.47
2:M:833:LEU:HB2	9:M:9662:HOH:O	2.14	0.47
2:M:897:LEU:CD1	2:M:921:ALA:HA	2.44	0.47
3:D:955:VAL:HB	3:D:1011:PHE:CE1	2.43	0.47
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.30	0.47
2:M:984:GLU:HG3	3:N:944:THR:O	2.15	0.47
1:B:190:THR:HG22	9:B:9536:HOH:O	2.14	0.47
2:M:194:VAL:HG21	2:M:221:LEU:HA	1.97	0.47
2:C:1006:HIS:N	2:C:1006:HIS:ND1	2.63	0.47
9:D:2189:HOH:O	5:F:145:PRO:HB3	2.14	0.47
3:N:684:LYS:HB3	3:N:686:GLU:HG3	1.96	0.47
2:C:612:VAL:HG22	2:C:622:GLU:HB2	1.97	0.47
3:D:1151:ARG:HB2	9:D:9606:HOH:O	2.15	0.47
1:L:111:ALA:HB3	1:L:124:ASN:O	2.15	0.47
2:C:816:LYS:HB3	9:C:9840:HOH:O	2.15	0.47
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.97	0.47
3:N:440:VAL:HG12	3:N:441:ARG:N	2.30	0.47
3:D:995:LEU:HA	9:D:2036:HOH:O	2.14	0.47
2:C:654:LEU:HD13	2:C:664:GLY:N	2.29	0.47
5:P:82:ARG:HG2	9:P:4186:HOH:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:75:ARG:NH1	3:N:75:ARG:HG3	2.27	0.47
2:M:910:LYS:HD2	2:M:910:LYS:N	2.30	0.47
1:B:72:LYS:HG2	9:B:9498:HOH:O	2.14	0.47
1:B:32:PHE:HA	1:B:35:THR:OG1	2.15	0.47
3:D:894:LYS:HB2	9:D:9872:HOH:O	2.13	0.47
2:C:451:LEU:H	2:C:451:LEU:HD12	1.79	0.47
2:C:55:GLU:HG2	9:C:2379:HOH:O	2.14	0.47
3:N:610:LYS:HG2	3:N:611:GLN:HG2	1.96	0.47
2:M:544:THR:O	2:M:547:ILE:HG13	2.15	0.47
2:M:279:GLU:HA	9:M:9687:HOH:O	2.13	0.47
3:D:229:ALA:HB1	9:D:9916:HOH:O	2.14	0.47
1:A:127:LEU:HD12	1:A:127:LEU:C	2.34	0.47
2:M:619:ARG:HG3	9:M:9814:HOH:O	2.15	0.47
3:N:982:PHE:HZ	9:N:2480:HOH:O	1.98	0.47
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.95	0.47
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.44	0.47
1:A:33:GLY:O	1:A:195:LEU:HD22	2.14	0.47
3:D:28:LYS:O	3:D:43:GLY:HA2	2.15	0.47
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.97	0.47
3:D:1495:ILE:N	3:D:1495:ILE:HD12	2.29	0.47
5:P:361:LEU:HD13	5:P:366:ALA:HB1	1.97	0.47
2:C:232:GLU:O	2:C:235:LEU:HB2	2.14	0.47
2:C:83:CYS:CA	2:C:88:LEU:HB3	2.39	0.47
3:N:1223:ILE:N	3:N:1223:ILE:HD12	2.25	0.47
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.50	0.47
2:C:137:VAL:O	2:C:391:LEU:HD11	2.15	0.47
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.97	0.47
5:F:367:MET:HA	5:F:370:LYS:NZ	2.30	0.47
5:F:141:VAL:O	5:F:145:PRO:HD2	2.15	0.47
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.96	0.47
3:D:539:ASP:OD2	5:F:318:GLU:HB2	2.14	0.47
5:F:316:SER:C	5:F:318:GLU:N	2.68	0.47
3:N:139:GLY:N	3:N:147:VAL:HG21	2.30	0.47
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.97	0.47
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.97	0.47
2:M:1076:VAL:HG21	3:N:752:SER:HB3	1.97	0.47
3:N:933:ALA:O	3:N:937:TYR:HD1	1.96	0.47
5:F:74:LYS:HG3	9:F:9539:HOH:O	2.14	0.47
2:M:220:GLY:HA3	9:M:9540:HOH:O	2.15	0.47
2:M:277:ALA:HB1	9:M:2036:HOH:O	2.14	0.47
1:B:123:MET:CE	1:B:204:SER:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:52:PHE:O	2:C:54:ILE:N	2.48	0.47
2:C:877:PRO:HG3	3:D:1020:LEU:CD1	2.44	0.47
2:M:164:PRO:HD2	2:M:170:PRO:O	2.15	0.47
1:B:41:ARG:HB2	1:B:177:VAL:HG21	1.95	0.47
5:P:184:ARG:NH2	9:P:3604:HOH:O	2.46	0.47
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.49	0.47
2:C:1018:GLN:HG3	2:C:1060:ILE:HD13	1.97	0.47
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.30	0.47
2:C:346:VAL:HB	9:C:2037:HOH:O	2.15	0.47
3:N:36:THR:O	3:N:38:LYS:N	2.46	0.47
2:M:371:LYS:HB2	9:M:9512:HOH:O	2.14	0.47
1:A:101:LEU:HD12	1:A:114:PHE:CD1	2.50	0.47
3:N:137:PRO:HD2	3:N:453:ASP:HB2	1.97	0.47
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.14	0.47
5:P:409:LYS:HE3	5:P:410:TYR:CD1	2.49	0.47
1:K:97:VAL:HG12	1:K:99:LEU:HD12	1.97	0.47
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.96	0.47
1:K:225:PHE:CE1	1:L:25:LEU:HD22	2.50	0.47
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.50	0.47
2:M:543:ASN:ND2	2:M:562:SER:HB3	2.30	0.47
2:M:423:ALA:HB1	9:M:9593:HOH:O	2.15	0.47
2:M:167:LYS:HD3	2:M:168:ARG:N	2.30	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.97	0.47
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.45	0.47
2:C:71:TYR:HD1	9:C:9517:HOH:O	1.97	0.47
3:N:639:LEU:HD12	3:N:639:LEU:H	1.80	0.47
3:N:698:LYS:HA	3:N:756:GLN:NE2	2.30	0.47
3:D:1026:SER:C	3:D:1028:ALA:H	2.16	0.47
3:D:730:PRO:HA	3:D:733:CYS:HG	1.80	0.47
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.97	0.47
2:C:444:PRO:HG3	2:C:452:ILE:HD12	1.96	0.47
2:C:515:ALA:C	2:C:516:ARG:HG2	2.35	0.47
5:F:85:LEU:HB2	9:F:9663:HOH:O	2.14	0.47
5:F:188:ILE:HA	9:F:9537:HOH:O	2.15	0.47
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.97	0.47
2:C:47:ALA:HA	2:C:50:GLU:OE2	2.15	0.47
3:N:703:ASN:ND2	3:N:704:ARG:H	2.13	0.47
3:D:584:ASN:HB3	9:D:9515:HOH:O	2.15	0.47
2:C:144:PRO:HB2	9:C:9808:HOH:O	2.15	0.47
2:M:96:ALA:HB3	9:M:9996:HOH:O	2.14	0.47
2:C:603:VAL:H	2:C:647:GLN:H	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:189:ARG:HG3	1:L:189:ARG:NH1	2.30	0.47
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.42	0.47
3:N:510:GLU:O	3:N:513:ILE:HD12	2.14	0.47
3:N:844:ALA:HB3	3:N:848:GLU:OE2	2.15	0.47
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.96	0.47
2:C:715:THR:HG22	9:C:2002:HOH:O	2.14	0.47
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.96	0.47
5:F:340:SER:OG	5:F:342:VAL:HG23	2.15	0.47
3:N:64:LYS:HE3	9:N:9919:HOH:O	2.14	0.47
5:F:287:THR:HG23	5:F:289:GLU:H	1.80	0.47
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.78	0.47
2:M:1097:LEU:HD11	3:N:103:TRP:CZ3	2.50	0.46
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.41	0.46
2:C:305:PRO:HG3	2:C:308:ARG:HH22	1.80	0.46
2:M:170:PRO:HA	9:M:9800:HOH:O	2.14	0.46
5:F:209:PHE:HE2	5:F:213:ILE:HD11	1.80	0.46
3:D:210:ARG:NH1	3:D:398:ALA:HB3	2.30	0.46
1:A:206:THR:HG22	1:A:209:GLU:H	1.80	0.46
1:K:12:THR:HG23	1:K:24:VAL:HB	1.97	0.46
2:M:671:ASN:ND2	2:M:993:PHE:HB2	2.30	0.46
2:C:721:ARG:O	2:C:758:ARG:HA	2.14	0.46
3:N:968:ASP:O	3:N:971:LEU:HB3	2.15	0.46
3:N:972:LEU:O	3:N:976:GLN:HG3	2.14	0.46
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.50	0.46
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.44	0.46
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.49	0.46
2:M:269:LEU:HD12	2:M:288:ARG:HG3	1.97	0.46
3:N:551:ASN:O	3:N:555:LYS:HG3	2.14	0.46
3:D:95:LEU:CD2	3:D:574:LEU:HD11	2.45	0.46
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.96	0.46
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.50	0.46
3:N:1026:SER:C	3:N:1028:ALA:H	2.17	0.46
2:C:7:GLY:HA3	2:C:907:ASP:O	2.15	0.46
5:P:122:LEU:HA	9:P:4063:HOH:O	2.14	0.46
4:E:12:MET:HA	4:E:12:MET:CE	2.45	0.46
2:M:929:ARG:HG3	2:M:929:ARG:HH11	1.80	0.46
2:C:471:TYR:CD2	2:C:533:ASP:HA	2.50	0.46
2:M:50:GLU:HA	2:M:266:ARG:NH1	2.31	0.46
1:L:99:LEU:HA	9:L:4955:HOH:O	2.15	0.46
4:E:70:THR:HB	9:E:9533:HOH:O	2.14	0.46
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:LEU:HD13	1:B:127:LEU:HD23	1.97	0.46
2:C:110:GLU:HB2	2:C:368:THR:CG2	2.45	0.46
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.97	0.46
3:D:168:THR:HA	9:D:9616:HOH:O	2.15	0.46
1:A:23:PHE:CD1	1:A:211:LEU:HD23	2.50	0.46
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.45	0.46
2:M:185:LYS:HB3	2:M:188:LYS:O	2.15	0.46
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.23	0.46
1:A:178:ALA:CB	2:C:864:GLY:H	2.28	0.46
3:D:503:LEU:HD23	3:D:508:ARG:HH12	1.80	0.46
5:F:292:ALA:HB1	5:F:299:TRP:O	2.15	0.46
2:M:205:GLU:CD	2:M:206:THR:N	2.68	0.46
3:D:720:LEU:CD1	3:D:720:LEU:H	2.23	0.46
3:D:442:ASN:HA	9:D:9677:HOH:O	2.14	0.46
2:M:897:LEU:HD11	2:M:921:ALA:HA	1.96	0.46
2:C:993:PHE:CD1	2:C:993:PHE:C	2.88	0.46
2:M:101:ILE:HG22	2:M:102:HIS:H	1.80	0.46
2:M:517:ARG:HG3	2:M:522:VAL:HG21	1.96	0.46
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.15	0.46
3:D:105:VAL:HG23	9:D:9538:HOH:O	2.15	0.46
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.79	0.46
2:C:8:ARG:HB2	2:C:8:ARG:HH11	1.80	0.46
3:D:574:LEU:O	3:D:577:ALA:HB3	2.15	0.46
2:M:820:ARG:HG2	2:M:820:ARG:NH1	2.30	0.46
5:F:321:ILE:O	5:F:327:SER:HB3	2.15	0.46
2:M:498:GLN:CG	2:M:516:ARG:HH21	2.27	0.46
1:L:5:LYS:HZ1	1:L:5:LYS:HA	1.81	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.81	0.46
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.97	0.46
3:N:196:VAL:HG12	9:N:9691:HOH:O	2.14	0.46
2:M:352:ALA:O	2:M:356:ARG:HG3	2.16	0.46
3:D:1402:ALA:HB2	3:D:1415:VAL:HG23	1.96	0.46
2:M:592:LEU:HD13	9:M:2275:HOH:O	2.14	0.46
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.96	0.46
5:P:77:THR:O	5:P:81:VAL:HG23	2.15	0.46
3:N:54:LYS:HG3	3:N:55:ASP:OD1	2.16	0.46
2:M:403:SER:O	2:M:407:LYS:HG3	2.15	0.46
3:D:171:LEU:HD13	3:D:389:GLU:C	2.35	0.46
2:C:16:PRO:CG	2:C:460:ARG:HH12	2.28	0.46
3:N:1382:THR:OG1	3:N:1418:LYS:HE3	2.15	0.46
5:F:123:ASP:HB2	5:F:126:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1264:GLU:CD	3:D:1425:THR:H	2.19	0.46
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.70	0.46
1:A:205:VAL:HG23	1:A:206:THR:N	2.31	0.46
3:N:1465:ASN:HA	3:N:1465:ASN:HD22	1.49	0.46
3:D:104:PHE:HB2	9:D:9538:HOH:O	2.15	0.46
9:B:9616:HOH:O	3:D:813:LEU:HD21	2.15	0.46
3:D:654:LYS:HD3	3:D:674:ARG:HH22	1.80	0.46
2:C:757:GLY:HA2	2:C:789:SER:HB3	1.96	0.46
2:C:1109:VAL:CG2	3:D:3:LYS:HG2	2.43	0.46
3:D:844:ALA:O	3:D:867:ARG:HD2	2.15	0.46
3:D:859:ASP:O	3:D:877:PRO:HG2	2.16	0.46
2:M:342:ASP:O	2:M:346:VAL:HG23	2.16	0.46
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.16	0.46
5:P:320:PRO:CB	5:P:324:GLU:HG2	2.45	0.46
2:M:1067:TYR:HE2	5:P:342:VAL:HA	1.81	0.46
2:C:642:ARG:HA	9:C:9967:HOH:O	2.15	0.46
4:O:86:GLN:HB3	4:O:86:GLN:HE21	1.59	0.46
3:N:1366:LYS:O	3:N:1370:ILE:HG12	2.16	0.46
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.97	0.46
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.15	0.46
2:C:911:GLU:O	2:C:915:LYS:HG2	2.15	0.46
1:L:133:GLU:HG3	1:L:134:GLU:HG2	1.97	0.46
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.46	0.46
5:P:139:ALA:HA	9:P:3321:HOH:O	2.15	0.46
1:B:150:TYR:HD2	3:D:857:ILE:HG13	1.77	0.46
3:D:422:ALA:O	3:D:427:VAL:HG21	2.16	0.46
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.15	0.46
3:N:1431:THR:OG1	3:N:1432:LYS:N	2.49	0.46
9:D:9547:HOH:O	5:F:349:LEU:HD12	2.15	0.46
3:N:1256:LEU:HA	3:N:1259:VAL:HG23	1.98	0.46
2:M:897:LEU:HG	2:M:920:GLN:HE21	1.77	0.46
3:D:68:PHE:O	3:D:71:LYS:HG2	2.15	0.46
3:D:56:TYR:CE2	3:D:66:GLN:HA	2.50	0.46
5:P:317:LEU:O	5:P:329:TYR:HB3	2.15	0.46
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.98	0.46
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.79	0.46
4:E:58:PRO:HB2	9:E:9487:HOH:O	2.16	0.46
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.81	0.46
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.16	0.46
5:P:416:ARG:CZ	5:P:419:ARG:HB3	2.46	0.46
3:D:552:ASN:HA	3:D:555:LYS:HE3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:960:LYS:HG2	3:D:964:LEU:HD12	1.98	0.46
3:N:647:ARG:CZ	9:N:2258:HOH:O	2.63	0.46
1:A:7:LYS:HD2	9:A:9499:HOH:O	2.15	0.46
2:C:961:GLU:HA	2:C:961:GLU:OE2	2.16	0.46
5:F:287:THR:C	5:F:289:GLU:H	2.18	0.46
1:L:34:VAL:HG12	9:M:9557:HOH:O	2.15	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.97	0.46
2:M:790:LEU:C	2:M:790:LEU:HD23	2.35	0.46
3:D:1486:VAL:HG12	3:D:1487:VAL:N	2.30	0.46
2:C:127:PHE:O	2:C:133:ASP:HA	2.16	0.46
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.45	0.46
1:A:30:ARG:NH1	1:A:191:ASP:HB2	2.31	0.46
2:M:680:ASP:HB2	2:M:682:TYR:CE2	2.50	0.46
2:M:904:PRO:HG3	9:M:9623:HOH:O	2.16	0.46
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.81	0.46
2:M:437:ARG:C	2:M:438:ILE:HD12	2.35	0.46
2:M:565:GLN:OE1	2:M:842:ARG:HG2	2.14	0.46
2:M:1104:GLU:H	2:M:1104:GLU:CD	2.19	0.46
1:A:101:LEU:HG	1:A:114:PHE:CA	2.43	0.46
2:M:1016:ILE:HD12	5:P:317:LEU:HD21	1.97	0.46
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.45	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.16	0.46
3:D:829:VAL:HG11	9:D:2252:HOH:O	2.15	0.46
3:N:1008:PHE:HB3	3:N:1012:GLU:OE2	2.15	0.46
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.97	0.46
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.73	0.46
5:P:314:PRO:HD2	9:P:4162:HOH:O	2.15	0.46
3:D:1295:GLU:HG2	9:D:9793:HOH:O	2.15	0.46
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.97	0.46
2:M:861:LEU:HD23	2:M:862:PRO:N	2.31	0.46
3:D:1046:GLN:HB2	9:D:9695:HOH:O	2.15	0.46
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.84	0.46
5:P:127:ILE:HD11	9:P:4895:HOH:O	2.16	0.46
3:N:1342:GLU:HB3	9:N:9577:HOH:O	2.15	0.46
2:M:17:PRO:O	2:M:20:GLU:N	2.46	0.46
3:D:667:ALA:HB2	3:D:676:MET:HE1	1.97	0.46
2:C:915:LYS:O	2:C:968:LEU:HD22	2.14	0.46
2:C:39:ARG:HG3	9:C:9773:HOH:O	2.15	0.46
2:M:429:ASP:HB3	9:M:9514:HOH:O	2.15	0.46
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1306:PRO:HG3	9:D:9577:HOH:O	2.16	0.46
3:D:1258:ARG:HG3	3:D:1262:LEU:HD13	1.96	0.46
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.42	0.46
3:N:928:ALA:O	3:N:931:LEU:HB2	2.16	0.46
3:D:581:LEU:HD12	3:D:603:LEU:HD12	1.96	0.46
2:C:129:ILE:HG12	2:C:386:PHE:O	2.16	0.46
2:C:93:PRO:HB2	9:C:9537:HOH:O	2.14	0.46
2:C:1013:TYR:HB2	5:F:335:ASP:OD2	2.15	0.46
2:M:409:ARG:HG2	9:M:2089:HOH:O	2.16	0.46
2:M:428:ARG:O	3:N:1078:ARG:NH1	2.49	0.46
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.13	0.46
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.51	0.46
3:N:434:ARG:HG3	9:N:9784:HOH:O	2.14	0.46
3:D:93:ILE:HG12	3:D:548:ILE:HD12	1.98	0.46
3:D:983:LEU:HB2	9:D:9513:HOH:O	2.16	0.46
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.15	0.46
3:D:208:PRO:CB	3:D:395:VAL:HG13	2.45	0.46
2:C:1101:THR:O	2:C:1102:LEU:HD12	2.15	0.46
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.15	0.46
3:D:1346:ARG:HB2	3:D:1346:ARG:NH1	2.30	0.46
3:D:860:LEU:O	3:D:877:PRO:HD2	2.16	0.46
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.97	0.46
5:F:353:GLU:OE1	5:F:356:LYS:HD2	2.16	0.46
1:K:9:PRO:HG2	1:L:224:TYR:CD2	2.51	0.46
4:O:4:PRO:HG3	9:O:5463:HOH:O	2.15	0.46
4:O:5:GLY:O	4:O:9:LEU:HG	2.15	0.46
1:A:43:ILE:HA	1:A:47:SER:OG	2.16	0.46
2:M:4:LYS:HE3	9:M:9956:HOH:O	2.15	0.46
2:C:3:ILE:CD1	2:C:900:ARG:HB2	2.46	0.46
3:N:1383:ASP:HB3	3:N:1416:ALA:H	1.81	0.46
1:L:159:LYS:N	1:L:159:LYS:HD3	2.31	0.46
3:D:22:SER:HB3	9:D:9666:HOH:O	2.16	0.46
3:N:608:SER:OG	3:N:609:GLY:N	2.46	0.46
3:N:899:LEU:CD1	3:N:900:ILE:HG23	2.46	0.46
3:N:388:HIS:H	5:P:97:GLU:HG3	1.79	0.46
2:M:952:LEU:HD22	2:M:952:LEU:N	2.29	0.46
1:B:123:MET:CG	9:B:9635:HOH:O	2.64	0.46
3:N:82:LYS:NZ	3:N:82:LYS:HB2	2.31	0.46
3:D:468:LEU:HB3	9:D:9997:HOH:O	2.16	0.46
2:C:289:THR:HG22	2:C:290:LEU:HD22	1.97	0.46
2:C:289:THR:HG22	2:C:290:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:73:LEU:HB2	9:M:2197:HOH:O	2.15	0.46
3:N:42:ASP:O	3:N:46:ASP:HB2	2.16	0.46
5:P:215:GLU:O	5:P:218:GLN:HB3	2.16	0.46
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.41	0.46
2:M:575:GLN:HB3	2:M:670:GLN:HA	1.97	0.46
9:M:2201:HOH:O	4:O:32:ARG:HD3	2.16	0.46
3:N:1300:SER:HB2	9:N:2406:HOH:O	2.15	0.46
1:A:86:VAL:HG23	1:A:202:ASP:OD1	2.16	0.46
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.30	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:CD	2.45	0.46
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.97	0.46
3:D:847:ASP:OD1	3:D:848:GLU:N	2.49	0.46
3:D:867:ARG:CB	3:D:867:ARG:HH11	2.29	0.46
3:D:919:PHE:O	3:D:919:PHE:HD2	1.98	0.46
2:C:1049:LEU:HG	2:C:1053:LEU:HD11	1.96	0.46
1:L:123:MET:O	1:L:125:PRO:HD3	2.16	0.46
2:C:1092:LEU:HD22	2:C:1099:VAL:CG2	2.46	0.46
3:N:1304:LYS:HB3	9:N:9487:HOH:O	2.15	0.46
5:P:343:ASP:HA	9:P:5842:HOH:O	2.15	0.46
4:O:61:GLU:HG3	4:O:61:GLU:H	1.49	0.46
1:L:69:PRO:HB3	9:L:5138:HOH:O	2.16	0.46
3:D:1359:GLN:HE21	3:D:1359:GLN:HB3	1.51	0.46
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.22	0.46
2:M:137:VAL:O	2:M:391:LEU:HD21	2.15	0.46
2:C:1005:MET:CB	3:D:629:SER:HB2	2.45	0.46
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.80	0.46
2:C:524:VAL:HG22	9:C:2060:HOH:O	2.15	0.46
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	1.97	0.46
1:L:23:PHE:CE1	1:L:208:LEU:HD13	2.50	0.46
2:M:669:GLY:O	2:M:670:GLN:HG2	2.15	0.46
3:N:181:ASP:O	3:N:185:VAL:HG23	2.16	0.46
3:N:191:LEU:HD22	3:N:195:VAL:CG2	2.45	0.46
1:B:89:PHE:CD1	1:B:120:VAL:HG22	2.50	0.46
2:M:343:GLN:HB2	9:M:9681:HOH:O	2.15	0.46
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.96	0.46
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.45	0.46
3:N:669:ASN:O	3:N:672:ALA:HB3	2.15	0.46
2:C:630:ARG:HE	2:C:705:ILE:CG1	2.29	0.46
2:C:705:ILE:HG22	2:C:827:VAL:O	2.16	0.46
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.81	0.46
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.96	0.46
2:M:841:ASN:HD22	2:M:843:HIS:N	2.14	0.46
3:N:441:ARG:O	3:N:443:VAL:N	2.49	0.46
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.16	0.46
2:M:636:ALA:HB2	2:M:703:ILE:HG22	1.97	0.46
3:D:984:THR:HG22	3:D:987:GLU:CD	2.35	0.46
5:P:319:THR:HG21	9:P:5402:HOH:O	2.16	0.46
2:C:72:ARG:HB3	9:C:2179:HOH:O	2.15	0.46
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.15	0.46
2:C:682:TYR:N	9:C:9490:HOH:O	2.49	0.46
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.96	0.46
2:C:595:LEU:HB2	9:C:2223:HOH:O	2.15	0.46
3:N:704:ARG:CZ	3:N:737:ASN:O	2.64	0.46
5:P:422:LEU:HD11	9:P:3715:HOH:O	2.16	0.46
2:M:329:GLY:N	2:M:488:ALA:HB3	2.31	0.46
2:M:599:GLU:HB2	9:M:9583:HOH:O	2.15	0.46
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.44	0.46
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.25	0.46
2:C:252:LYS:HZ2	2:C:296:GLY:HA3	1.81	0.46
2:C:705:ILE:HA	2:C:827:VAL:O	2.16	0.46
5:F:289:GLU:O	5:F:293:GLU:HG3	2.16	0.46
3:D:827:ILE:O	3:D:837:GLY:HA3	2.16	0.46
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.96	0.46
2:C:319:GLY:HA3	9:C:2214:HOH:O	2.16	0.46
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.46
3:N:630:VAL:HG12	3:N:631:ILE:N	2.30	0.46
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.27	0.46
1:A:195:LEU:CD1	1:A:197:LEU:HD22	2.40	0.46
2:M:146:VAL:HG11	2:M:306:THR:HG22	1.98	0.46
2:M:91:GLN:CD	2:M:117:HIS:HB3	2.37	0.46
2:M:675:ALA:CA	2:M:989:VAL:HG12	2.37	0.46
3:N:213:VAL:HG22	3:N:214:GLU:H	1.81	0.46
2:M:205:GLU:O	2:M:209:ARG:HD2	2.15	0.46
2:M:438:ILE:HG22	2:M:439:CYS:O	2.16	0.46
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.43	0.46
3:N:31:THR:HB	3:N:32:ILE:H	1.62	0.46
3:D:68:PHE:HA	3:D:71:LYS:NZ	2.31	0.46
3:N:1114:THR:HA	9:N:2201:HOH:O	2.16	0.46
2:M:1090:LYS:HE2	2:M:1112:PHE:CE1	2.51	0.46
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.98	0.46
5:P:102:LEU:HD22	5:P:183:ALA:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.98	0.46
3:N:411:THR:HG22	9:N:2263:HOH:O	2.16	0.46
2:C:242:LEU:HA	9:C:9503:HOH:O	2.16	0.46
3:D:591:VAL:HG12	3:D:592:THR:O	2.16	0.46
3:D:694:VAL:HG13	9:D:2053:HOH:O	2.16	0.46
2:M:311:PHE:HB2	9:M:2157:HOH:O	2.16	0.46
2:C:761:PHE:CD1	2:C:761:PHE:N	2.84	0.46
3:N:667:ALA:HB2	9:N:2385:HOH:O	2.15	0.46
9:M:2448:HOH:O	5:P:283:GLY:HA2	2.15	0.46
2:M:708:TYR:N	2:M:708:TYR:CD1	2.79	0.46
3:N:586:ARG:HG2	9:N:2658:HOH:O	2.16	0.45
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.46	0.45
2:C:860:HIS:HE2	2:C:975:TYR:HB2	1.81	0.45
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.99	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.98	0.45
3:D:564:GLU:HB2	9:F:9561:HOH:O	2.16	0.45
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.30	0.45
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.98	0.45
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.51	0.45
3:D:1346:ARG:HB2	3:D:1346:ARG:HH11	1.81	0.45
3:D:1043:GLY:O	3:D:1056:PRO:HB3	2.15	0.45
5:F:226:LYS:HE3	9:F:9804:HOH:O	2.17	0.45
3:D:1403:LEU:HD12	9:D:2493:HOH:O	2.15	0.45
3:D:531:ASP:HB2	9:D:2123:HOH:O	2.16	0.45
2:M:822:VAL:HG13	9:M:9775:HOH:O	2.15	0.45
3:N:1495:ILE:O	3:N:1498:ALA:HB3	2.16	0.45
3:D:235:ALA:HB3	9:D:2112:HOH:O	2.16	0.45
2:C:354:GLY:HA2	9:C:9624:HOH:O	2.15	0.45
2:M:60:GLY:HA2	9:M:9972:HOH:O	2.16	0.45
1:B:87:VAL:HA	9:B:9635:HOH:O	2.16	0.45
2:M:1051:GLU:HG2	2:M:1056:LYS:CD	2.44	0.45
1:A:211:LEU:HD12	1:A:211:LEU:O	2.16	0.45
2:C:578:VAL:HG21	2:C:991:GLN:O	2.16	0.45
5:P:132:ARG:NH1	5:P:136:LEU:HD21	2.27	0.45
3:N:765:SER:O	3:N:767:HIS:N	2.49	0.45
2:M:890:LEU:HA	2:M:914:ILE:HD13	1.96	0.45
2:M:83:CYS:CA	2:M:88:LEU:HB3	2.42	0.45
2:C:773:LEU:O	2:C:777:ILE:HG13	2.16	0.45
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.81	0.45
2:M:893:ALA:O	2:M:897:LEU:HD22	2.16	0.45
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1086:ARG:HH11	2:M:1112:PHE:HA	1.82	0.45
3:N:523:ASP:O	3:N:526:PRO:HG3	2.17	0.45
2:M:603:VAL:HG23	2:M:647:GLN:O	2.16	0.45
3:N:1087:ARG:HG2	3:N:1087:ARG:HH11	1.81	0.45
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.28	0.45
2:C:43:GLY:HA2	2:C:341:THR:OG1	2.16	0.45
3:N:1365:ASP:O	3:N:1369:GLU:HG3	2.16	0.45
2:M:811:PRO:HD3	9:M:9734:HOH:O	2.16	0.45
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.32	0.45
2:C:742:VAL:HG23	9:C:2181:HOH:O	2.15	0.45
2:C:471:TYR:HE1	2:C:491:GLU:OE2	1.99	0.45
4:O:61:GLU:O	4:O:65:MET:HE2	2.16	0.45
3:N:827:ILE:O	3:N:837:GLY:HA3	2.16	0.45
4:O:69:LEU:O	4:O:69:LEU:HD23	2.16	0.45
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.31	0.45
3:N:1246:VAL:HG21	9:N:2444:HOH:O	2.16	0.45
3:N:156:GLU:O	3:N:159:ARG:HB3	2.17	0.45
1:A:216:GLU:HG3	1:A:220:GLU:OE1	2.16	0.45
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.98	0.45
3:D:1256:LEU:HA	3:D:1259:VAL:HG23	1.98	0.45
2:C:68:PHE:HZ	2:C:71:TYR:HB3	1.80	0.45
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.40	0.45
2:C:10:ARG:HH11	2:C:11:GLU:H	1.63	0.45
2:C:16:PRO:O	2:C:18:LEU:HD12	2.16	0.45
2:C:873:PRO:O	2:C:876:VAL:HG23	2.16	0.45
3:N:1425:THR:CG2	3:N:1426:LYS:N	2.79	0.45
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.51	0.45
5:F:220:LEU:O	5:F:224:VAL:HG23	2.15	0.45
1:K:184:THR:O	1:K:192:LEU:HB2	2.16	0.45
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.31	0.45
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.98	0.45
5:F:104:ARG:CZ	9:F:9749:HOH:O	2.64	0.45
3:N:1380:GLU:HB2	3:N:1420:LEU:HD23	1.98	0.45
2:C:238:LEU:HD23	2:C:241:LEU:HB3	1.99	0.45
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.80	0.45
3:D:750:PRO:O	3:D:756:GLN:OE1	2.35	0.45
2:M:768:THR:CG2	2:M:771:GLU:HB3	2.46	0.45
1:A:206:THR:CG2	1:A:209:GLU:H	2.30	0.45
1:L:206:THR:HG23	1:L:208:LEU:N	2.31	0.45
2:M:52:PHE:O	2:M:54:ILE:N	2.50	0.45
2:M:68:PHE:CE1	2:M:96:ALA:HB1	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:493:ARG:HG2	3:D:493:ARG:NH1	2.30	0.45
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.52	0.45
3:N:65:ARG:H	3:N:68:PHE:HZ	1.64	0.45
3:N:1012:GLU:HG3	3:N:1021:TYR:OH	2.15	0.45
2:C:30:LEU:HD12	2:C:30:LEU:O	2.16	0.45
2:M:713:ARG:NH2	2:M:819:VAL:HG22	2.32	0.45
3:N:696:HIS:HB2	4:O:48:MET:CE	2.47	0.45
3:D:135:LEU:HA	3:D:453:ASP:O	2.16	0.45
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.16	0.45
3:D:799:LYS:N	3:D:826:PRO:HG2	2.31	0.45
3:D:618:LEU:HD11	3:D:1463:LYS:HD2	1.97	0.45
5:P:338:LEU:HB2	9:P:5459:HOH:O	2.16	0.45
3:D:411:THR:HG23	9:D:9915:HOH:O	2.16	0.45
2:M:626:ARG:HG2	9:M:2116:HOH:O	2.15	0.45
2:C:64:LEU:HB2	2:C:359:MET:SD	2.56	0.45
3:D:427:VAL:HB	3:D:435:VAL:HB	1.99	0.45
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.47	0.45
2:M:905:ILE:HG22	2:M:906:PHE:CD1	2.52	0.45
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.98	0.45
2:C:455:LEU:O	2:C:541:SER:HB3	2.16	0.45
4:E:37:ASN:HD22	4:E:89:MET:HE2	1.81	0.45
3:D:153:LEU:HD11	3:D:157:GLU:HB2	1.97	0.45
3:D:965:GLU:HB2	9:D:9490:HOH:O	2.16	0.45
3:D:462:GLN:HB2	3:D:513:ILE:HG21	1.98	0.45
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.47	0.45
3:N:171:LEU:HA	3:N:390:PRO:HA	1.97	0.45
5:F:270:LYS:HB3	5:F:295:MET:CE	2.46	0.45
2:C:80:GLN:O	2:C:83:CYS:HB2	2.17	0.45
2:M:435:TYR:C	2:M:437:ARG:H	2.18	0.45
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.81	0.45
3:D:926:LYS:HE3	9:D:9911:HOH:O	2.16	0.45
1:A:111:ALA:HB3	1:A:124:ASN:O	2.16	0.45
3:D:1278:ASP:HB2	3:D:1318:TYR:CE1	2.51	0.45
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.15	0.45
3:D:862:ASP:O	3:D:877:PRO:HD3	2.16	0.45
3:D:661:MET:SD	3:D:687:VAL:HG22	2.57	0.45
2:C:598:GLU:HB2	2:C:615:TYR:OH	2.17	0.45
3:D:957:PRO:HG3	3:D:1010:ASN:HD22	1.81	0.45
2:C:939:ARG:HG3	9:C:9564:HOH:O	2.16	0.45
1:K:30:ARG:HG3	1:K:30:ARG:NH1	2.31	0.45
2:C:165:LEU:HA	2:C:166:PRO:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:ARG:HG3	9:B:9505:HOH:O	2.16	0.45
2:C:261:ILE:HA	9:C:2458:HOH:O	2.17	0.45
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.45
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.29	0.45
3:N:1033:GLN:HB3	9:N:9622:HOH:O	2.17	0.45
3:D:521:PRO:C	3:D:525:ARG:HH11	2.20	0.45
5:F:215:GLU:N	9:F:9503:HOH:O	2.48	0.45
2:M:164:PRO:HG2	9:M:9517:HOH:O	2.17	0.45
3:D:153:LEU:HD13	3:D:157:GLU:HB2	1.98	0.45
3:N:28:LYS:O	3:N:43:GLY:HA2	2.16	0.45
2:M:267:TYR:HB2	2:M:272:ALA:CB	2.47	0.45
3:N:950:GLY:O	3:N:951:ILE:C	2.54	0.45
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.17	0.45
5:F:393:THR:O	5:F:397:ILE:HG13	2.16	0.45
3:N:806:PHE:CG	3:N:806:PHE:O	2.69	0.45
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.47	0.45
3:N:984:THR:HG22	3:N:987:GLU:CG	2.40	0.45
2:M:64:LEU:HB2	2:M:359:MET:SD	2.56	0.45
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.17	0.45
2:C:839:LEU:N	2:C:839:LEU:HD23	2.31	0.45
2:M:1036:GLU:O	2:M:1039:ALA:HB3	2.16	0.45
3:D:1341:PRO:O	3:D:1344:VAL:HG23	2.17	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	1.98	0.45
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.46	0.45
2:C:716:LYS:HE3	9:C:9571:HOH:O	2.16	0.45
1:L:110:LYS:HD3	9:L:4382:HOH:O	2.16	0.45
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.37	0.45
1:A:182:GLU:HB3	9:A:9489:HOH:O	2.17	0.45
2:C:9:ILE:O	2:C:9:ILE:HG13	2.16	0.45
2:C:410:ILE:HD12	2:C:410:ILE:N	2.32	0.45
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.47	0.45
2:M:626:ARG:HB2	2:M:639:GLN:NE2	2.31	0.45
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.98	0.45
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.46	0.45
3:N:1213:ARG:HD3	9:N:2343:HOH:O	2.15	0.45
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.47	0.45
3:N:728:LEU:HD11	3:N:732:VAL:CG2	2.46	0.45
3:D:729:HIS:ND1	3:D:730:PRO:N	2.64	0.45
3:D:553:ARG:HH22	5:F:211:ASP:CG	2.19	0.45
5:P:128:ARG:O	5:P:132:ARG:HG3	2.16	0.45
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.98	0.45
5:P:141:VAL:O	5:P:145:PRO:HD2	2.15	0.45
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.98	0.45
2:C:41:ASN:N	2:C:41:ASN:HD22	1.97	0.45
2:M:897:LEU:HD22	2:M:921:ALA:HB2	1.98	0.45
3:N:1114:THR:HG23	3:N:1114:THR:O	2.16	0.45
2:M:1104:GLU:HA	3:N:6:ARG:HD3	1.97	0.45
2:M:68:PHE:CZ	2:M:71:TYR:HB3	2.49	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.99	0.45
2:M:704:HIS:CG	2:M:831:ARG:HH21	2.34	0.45
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.46	0.45
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.46	0.45
3:N:1353:GLN:HE21	3:N:1353:GLN:HB3	1.54	0.45
3:N:1353:GLN:HE21	3:N:1357:ARG:NE	2.15	0.45
4:O:17:TYR:O	4:O:21:VAL:HG23	2.16	0.45
1:L:189:ARG:HG3	1:L:189:ARG:HH11	1.81	0.45
5:F:282:LEU:HB2	5:F:284:ARG:H	1.81	0.45
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.32	0.45
1:L:94:LEU:HD11	9:L:4208:HOH:O	2.16	0.45
3:D:619:LEU:HB2	9:D:9516:HOH:O	2.15	0.45
3:N:179:VAL:HG22	3:N:389:GLU:HG3	1.99	0.45
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.51	0.45
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.98	0.45
2:M:380:ALA:HA	2:M:383:ARG:HG2	1.99	0.45
2:C:165:LEU:HD12	2:C:166:PRO:C	2.37	0.45
3:D:169:TYR:HA	3:D:392:SER:HA	1.99	0.45
2:C:713:ARG:NH1	3:D:532:GLY:HA2	2.31	0.45
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.99	0.45
3:N:651:GLU:HA	3:N:651:GLU:OE1	2.17	0.45
5:F:241:TRP:HA	5:F:244:ARG:NH1	2.31	0.45
3:D:1467:ILE:HG13	9:D:9868:HOH:O	2.16	0.45
5:F:263:HIS:HB2	9:F:9611:HOH:O	2.17	0.45
2:C:863:ASP:O	2:C:865:THR:N	2.50	0.45
3:D:1258:ARG:NE	3:D:1262:LEU:HD11	2.32	0.45
3:N:197:SER:HB2	3:N:205:TYR:OH	2.17	0.45
3:D:1094:LEU:HD23	9:D:9776:HOH:O	2.16	0.45
2:C:326:ASP:HB2	2:C:431:HIS:ND1	2.32	0.45
3:D:639:LEU:CD1	3:D:640:HIS:H	2.29	0.45
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.52	0.45
3:N:1432:LYS:H	3:N:1432:LYS:HG3	1.48	0.45
3:N:130:SER:O	3:N:568:ARG:NH2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.31	0.45
5:F:374:GLY:N	9:F:9672:HOH:O	2.49	0.45
3:D:1312:LEU:HB2	9:D:2444:HOH:O	2.16	0.45
4:E:13:VAL:HG21	4:E:19:LEU:HB2	1.98	0.45
2:M:688:ILE:N	2:M:688:ILE:HD12	2.31	0.45
4:O:75:PHE:HD1	9:O:5601:HOH:O	1.99	0.45
3:N:1312:LEU:CB	9:N:9707:HOH:O	2.64	0.45
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.51	0.45
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.51	0.45
3:N:989:TYR:HB2	9:N:9817:HOH:O	2.17	0.45
1:K:20:TYR:CE2	1:K:22:GLU:HG2	2.52	0.45
2:C:817:PRO:C	2:C:819:VAL:H	2.20	0.45
4:O:70:THR:CB	4:O:72:ARG:HE	2.29	0.45
3:D:1084:THR:HG22	9:D:9646:HOH:O	2.17	0.45
3:N:701:LEU:H	3:N:701:LEU:HD22	1.82	0.45
3:N:647:ARG:CZ	3:N:680:GLN:HE21	2.29	0.45
3:N:683:ILE:HG22	9:N:2260:HOH:O	2.16	0.45
2:C:704:HIS:CG	2:C:831:ARG:HE	2.34	0.45
3:D:666:ILE:HG13	3:D:666:ILE:H	1.61	0.45
2:C:693:GLU:OE2	2:C:855:VAL:HG21	2.17	0.45
2:M:3:ILE:HG21	9:M:2314:HOH:O	2.16	0.45
3:N:379:ALA:HB2	9:N:9717:HOH:O	2.15	0.45
3:D:700:VAL:HB	3:D:748:HIS:O	2.17	0.45
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.47	0.45
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.82	0.45
5:P:392:VAL:CG1	5:P:396:ARG:HG3	2.47	0.45
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.98	0.45
3:D:507:ASN:HB3	9:D:9971:HOH:O	2.17	0.45
5:P:154:LYS:HE3	5:P:158:GLU:HG2	1.98	0.45
3:D:764:LEU:HD12	3:D:765:SER:N	2.32	0.45
2:C:886:LEU:CG	3:D:951:ILE:HG13	2.46	0.45
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.32	0.45
5:F:193:ARG:NH2	9:F:9492:HOH:O	2.50	0.45
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.52	0.45
3:D:637:LEU:HD11	3:D:641:GLN:HB2	1.99	0.45
3:D:1264:GLU:OE2	3:D:1264:GLU:HA	2.16	0.45
3:D:728:LEU:HD13	3:D:745:MET:CE	2.45	0.45
1:A:100:LEU:N	9:A:9585:HOH:O	2.48	0.45
3:D:127:LEU:HD21	3:D:461:ILE:CD1	2.44	0.45
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.52	0.45
3:N:996:TRP:O	3:N:1000:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:114:PHE:CD1	2:C:114:PHE:N	2.84	0.45
2:M:1034:GLU:CA	2:M:1037:VAL:HG23	2.47	0.45
5:P:372:ARG:HG2	9:P:6083:HOH:O	2.17	0.45
4:O:43:GLU:HG2	4:O:44:GLU:N	2.32	0.45
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.52	0.45
2:C:4:LYS:HB2	9:C:9680:HOH:O	2.17	0.45
3:N:1348:LEU:HA	3:N:1348:LEU:HD13	1.81	0.45
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.17	0.45
4:O:87:LYS:HE2	4:O:91:ARG:CZ	2.47	0.45
5:P:270:LYS:HE2	9:P:5582:HOH:O	2.17	0.45
3:N:598:ARG:NH2	5:P:318:GLU:O	2.48	0.45
2:C:70:GLU:HB2	2:C:97:ARG:HD2	1.98	0.45
3:N:82:LYS:HD3	5:P:337:HIS:HB3	1.99	0.45
3:N:55:ASP:HA	3:N:82:LYS:HE3	1.98	0.45
5:P:134:LYS:HA	9:P:4179:HOH:O	2.16	0.45
2:M:290:LEU:HB3	2:M:302:VAL:HG12	1.98	0.45
3:D:180:LYS:HG3	9:D:2419:HOH:O	2.17	0.45
3:N:1211:MET:HG2	3:N:1213:ARG:NE	2.32	0.45
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.99	0.45
2:C:1088:LEU:HA	2:C:1091:GLU:OE1	2.17	0.45
3:D:90:MET:N	9:D:9497:HOH:O	2.50	0.45
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.82	0.45
5:F:132:ARG:HG2	5:F:181:GLU:CD	2.36	0.45
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.80	0.45
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.46	0.45
3:N:1390:LEU:HD22	9:N:2508:HOH:O	2.16	0.45
2:M:987:ILE:HG12	3:N:948:THR:CG2	2.47	0.45
2:M:842:ARG:HB2	9:M:9551:HOH:O	2.16	0.45
5:F:370:LYS:HZ3	5:F:371:LEU:HG	1.81	0.45
2:M:52:PHE:HB3	2:M:53:PRO:HD3	1.99	0.45
3:N:972:LEU:HD21	3:N:976:GLN:HE21	1.82	0.45
3:D:127:LEU:CD1	3:D:457:GLY:H	2.30	0.45
2:M:1039:ALA:O	2:M:1043:TYR:HD1	2.00	0.45
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.99	0.45
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.17	0.45
1:K:91:ASN:H	1:K:94:LEU:HD12	1.82	0.45
1:K:89:PHE:CB	1:K:94:LEU:HD13	2.45	0.45
1:K:41:ARG:NH1	1:K:177:VAL:HB	2.32	0.45
9:M:2262:HOH:O	3:N:3:LYS:HB3	2.17	0.45
3:N:411:THR:HG21	9:N:9532:HOH:O	2.17	0.45
2:C:20:GLU:HG2	2:C:21:ILE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:532:MET:HG3	2:C:533:ASP:N	2.32	0.45
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.16	0.45
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.30	0.45
3:N:55:ASP:HB3	3:N:82:LYS:HE3	1.98	0.45
3:N:882:PHE:O	3:N:886:VAL:HG23	2.17	0.45
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.17	0.45
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.35	0.45
1:A:197:LEU:HD23	1:A:197:LEU:H	1.82	0.45
2:C:211:LEU:HD11	2:C:308:ARG:CB	2.37	0.45
3:N:18:ILE:HG21	3:N:516:ALA:O	2.17	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.31	0.45
3:D:1466:VAL:CG2	3:D:1472:ILE:HD11	2.39	0.45
1:A:133:GLU:CG	1:A:134:GLU:N	2.76	0.45
5:F:291:ILE:CG2	5:F:304:VAL:HG21	2.46	0.45
2:M:227:PHE:HB3	9:M:9899:HOH:O	2.17	0.45
2:M:571:LEU:HD12	2:M:701:THR:O	2.17	0.45
2:C:1051:GLU:HG2	2:C:1056:LYS:HG3	1.98	0.45
1:A:99:LEU:C	1:A:100:LEU:HD12	2.37	0.45
3:D:141:ILE:CG2	3:D:161:LEU:HD21	2.45	0.45
5:F:416:ARG:NH1	9:F:9866:HOH:O	2.46	0.45
2:M:770:GLU:HB2	9:N:2049:HOH:O	2.17	0.45
3:D:645:PRO:HG3	3:D:725:SER:O	2.16	0.45
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.44	0.45
3:N:696:HIS:HB2	4:O:48:MET:HE1	1.99	0.45
3:N:161:LEU:HD13	3:N:452:ILE:HD13	1.99	0.45
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.99	0.45
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.30	0.45
3:D:1115:THR:HG21	3:D:1151:ARG:NH2	2.32	0.45
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.78	0.45
3:D:895:VAL:O	3:D:899:LEU:HG	2.17	0.45
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.17	0.45
2:C:196:LEU:HD21	2:C:303:PHE:CG	2.52	0.45
1:L:122:ILE:HD12	1:L:122:ILE:N	2.32	0.45
3:D:188:GLY:HA2	9:D:2289:HOH:O	2.17	0.45
2:M:283:ILE:HG23	9:M:2206:HOH:O	2.17	0.45
2:C:896:PHE:O	2:C:924:VAL:HG11	2.17	0.45
1:K:111:ALA:HB3	1:K:124:ASN:O	2.17	0.45
3:D:1090:ASP:HA	3:D:1093:TYR:HB2	1.97	0.44
2:C:359:MET:HA	9:C:2175:HOH:O	2.17	0.44
3:N:1149:LEU:HD11	3:N:1160:LEU:HB3	1.99	0.44
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:601:ARG:HG2	3:N:606:ILE:CD1	2.46	0.44
3:D:83:SER:O	3:D:86:ARG:HB3	2.17	0.44
2:M:239:PHE:HD1	9:M:9955:HOH:O	1.99	0.44
2:C:578:VAL:HG11	2:C:991:GLN:HB3	2.00	0.44
2:M:772:ARG:HH21	5:P:378:GLY:HA2	1.81	0.44
2:M:983:ILE:CG2	2:M:987:ILE:HD11	2.45	0.44
2:M:542:VAL:HG23	9:M:9944:HOH:O	2.16	0.44
3:D:1418:LYS:HB3	9:D:9806:HOH:O	2.16	0.44
3:N:6:ARG:C	3:N:7:LYS:HG3	2.38	0.44
2:C:186:VAL:HG23	2:C:187:ASN:N	2.25	0.44
2:M:1085:PHE:CZ	3:N:1468:LEU:HG	2.52	0.44
2:M:1088:LEU:HD23	2:M:1089:VAL:N	2.31	0.44
3:D:1492:LEU:HD12	3:D:1493:LYS:NZ	2.31	0.44
2:M:686:ASP:N	9:N:2186:HOH:O	2.49	0.44
3:N:462:GLN:HB3	9:N:9521:HOH:O	2.17	0.44
3:D:804:LEU:HD23	3:D:804:LEU:N	2.30	0.44
3:N:1237:THR:N	9:N:2360:HOH:O	2.49	0.44
2:C:648:ARG:HG2	9:C:9825:HOH:O	2.17	0.44
1:K:199:ILE:HD12	1:K:199:ILE:N	2.32	0.44
3:D:39:PRO:HG2	3:D:47:GLU:OE2	2.17	0.44
2:C:98:LEU:N	2:C:98:LEU:HD12	2.32	0.44
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.81	0.44
3:D:1392:GLY:N	9:D:9923:HOH:O	2.49	0.44
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.99	0.44
3:D:685:ASP:HB3	9:D:9826:HOH:O	2.16	0.44
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.52	0.44
1:B:150:TYR:HE1	1:B:168:ASP:HB3	1.82	0.44
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.41	0.44
2:M:1008:ARG:NH2	2:M:1020:PRO:HB3	2.32	0.44
3:D:520:LEU:CD2	3:D:540:LEU:HD22	2.47	0.44
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.32	0.44
4:E:37:ASN:HD22	4:E:89:MET:CE	2.30	0.44
2:M:428:ARG:HD3	2:M:449:ILE:O	2.17	0.44
5:F:192:LEU:O	5:F:196:VAL:HG23	2.17	0.44
5:F:303:ARG:NH2	9:F:9668:HOH:O	2.50	0.44
3:D:506:GLY:HA3	3:D:1454:GLY:HA3	2.00	0.44
2:C:405:ARG:HB3	9:C:9528:HOH:O	2.16	0.44
3:N:22:SER:HA	3:N:90:MET:O	2.18	0.44
3:D:1271:LYS:HB2	9:D:2687:HOH:O	2.17	0.44
5:F:222:ARG:HD2	5:F:242:TRP:CE3	2.52	0.44
5:F:172:ARG:O	5:F:176:ILE:HD13	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:176:VAL:HG11	9:C:9635:HOH:O	2.17	0.44
2:M:753:ASP:O	2:M:792:VAL:HG23	2.17	0.44
3:D:1244:GLY:HA2	9:D:2331:HOH:O	2.17	0.44
3:N:111:LYS:NZ	3:N:498:VAL:HG12	2.32	0.44
5:F:234:LYS:HD3	5:F:236:SER:H	1.82	0.44
3:N:610:LYS:HB3	9:N:2113:HOH:O	2.16	0.44
3:N:416:ALA:H	3:N:417:PRO:CD	2.31	0.44
5:F:229:TYR:HE1	9:F:9586:HOH:O	2.00	0.44
1:L:150:TYR:H	3:N:855:HIS:CE1	2.35	0.44
3:D:587:ARG:HD3	9:D:9502:HOH:O	2.18	0.44
3:D:168:THR:OG1	3:D:393:ILE:HB	2.17	0.44
2:M:794:PRO:HB2	2:M:1027:PHE:HZ	1.82	0.44
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.40	0.44
2:M:720:GLU:CD	2:M:758:ARG:HD2	2.38	0.44
3:D:131:LYS:HE2	5:F:83:GLN:NE2	2.29	0.44
3:N:978:TYR:HD1	9:N:9888:HOH:O	2.00	0.44
3:D:61:GLY:HA2	3:D:64:LYS:HE3	1.98	0.44
3:D:1491:THR:HG22	9:E:9527:HOH:O	2.17	0.44
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.84	0.44
9:C:9809:HOH:O	5:F:349:LEU:HB2	2.16	0.44
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.26	0.44
2:C:136:ILE:HG23	2:C:391:LEU:CD2	2.47	0.44
1:K:198:ARG:HG2	9:K:3473:HOH:O	2.18	0.44
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.99	0.44
1:A:85:LEU:HD12	1:A:86:VAL:N	2.32	0.44
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.47	0.44
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.98	0.44
2:M:422:ARG:NH1	9:M:2004:HOH:O	2.51	0.44
3:D:619:LEU:HD12	9:D:9516:HOH:O	2.16	0.44
3:D:619:LEU:HD23	3:D:619:LEU:O	2.18	0.44
2:C:543:ASN:HD21	2:C:562:SER:C	2.19	0.44
3:D:785:ILE:HD12	3:D:785:ILE:N	2.32	0.44
1:B:95:GLN:HG3	1:B:146:ARG:HD2	2.00	0.44
3:N:1377:LYS:HE2	9:N:9728:HOH:O	2.16	0.44
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.32	0.44
5:F:307:THR:HA	5:F:310:ILE:HD11	1.98	0.44
2:M:58:ASP:O	2:M:59:LYS:HG3	2.17	0.44
1:A:165:ILE:O	1:A:165:ILE:HD12	2.16	0.44
5:P:376:ILE:HG22	5:P:377:ASP:OD1	2.17	0.44
1:K:63:HIS:HB3	9:K:5125:HOH:O	2.16	0.44
2:M:557:ARG:NE	2:M:560:MET:SD	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1173:LEU:CD2	3:N:1174:LEU:HD23	2.47	0.44
2:M:1115:LEU:HD21	3:N:84:ILE:HD12	2.00	0.44
3:N:546:ARG:CZ	3:N:550:ARG:NH2	2.81	0.44
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.80	0.44
1:A:63:HIS:HA	9:A:9482:HOH:O	2.17	0.44
3:N:129:PHE:C	3:N:568:ARG:HH21	2.20	0.44
3:N:29:PRO:HG3	3:N:549:ASN:ND2	2.33	0.44
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.52	0.44
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.99	0.44
5:P:141:VAL:HB	9:P:4054:HOH:O	2.18	0.44
3:D:699:VAL:CG2	3:D:760:ARG:HB3	2.47	0.44
2:C:913:GLU:O	2:C:916:GLU:HB3	2.17	0.44
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.48	0.44
4:O:49:GLN:HA	4:O:51:LEU:O	2.18	0.44
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.47	0.44
2:M:212:GLY:C	2:M:215:GLY:H	2.21	0.44
3:N:800:LYS:HG2	9:N:9629:HOH:O	2.17	0.44
5:P:173:TYR:HE2	9:P:5021:HOH:O	2.00	0.44
3:D:996:TRP:HE3	3:D:999:THR:CG2	2.26	0.44
3:D:838:ARG:HE	3:D:838:ARG:HB2	1.54	0.44
5:P:273:ARG:NH2	9:P:3957:HOH:O	2.50	0.44
3:D:1239:ARG:HH22	3:D:1254:GLN:HB2	1.82	0.44
3:D:805:GLU:HA	9:D:9963:HOH:O	2.16	0.44
2:M:611:ILE:N	2:M:611:ILE:HD12	2.32	0.44
3:N:864:VAL:HG12	3:N:865:THR:N	2.30	0.44
3:D:995:LEU:HD12	9:D:2036:HOH:O	2.16	0.44
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.53	0.44
1:L:73:GLU:HB3	1:L:77:GLU:HG3	1.97	0.44
4:E:70:THR:HG22	4:E:71:GLY:N	2.32	0.44
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.99	0.44
1:A:104:GLU:HB3	9:A:9622:HOH:O	2.15	0.44
4:E:40:LEU:O	4:E:40:LEU:HD22	2.17	0.44
3:N:1153:VAL:HG12	3:N:1155:VAL:HG22	2.00	0.44
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.98	0.44
2:C:492:ASP:HB3	2:C:518:LYS:HD2	1.99	0.44
2:C:73:LEU:O	2:C:73:LEU:HD12	2.16	0.44
2:C:93:PRO:HB3	9:C:9910:HOH:O	2.18	0.44
3:D:1045:MET:HG2	3:D:1072:ILE:O	2.17	0.44
2:M:159:ILE:C	9:M:9990:HOH:O	2.55	0.44
3:N:29:PRO:HG3	3:N:549:ASN:HD21	1.82	0.44
3:D:630:VAL:O	3:D:726:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:630:VAL:CA	3:D:744:GLN:HG2	2.47	0.44
3:D:1209:LEU:HD22	3:D:1211:MET:SD	2.57	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.33	0.44
2:M:253:ALA:O	2:M:256:TYR:HB2	2.17	0.44
3:N:396:VAL:HG13	3:N:446:VAL:O	2.18	0.44
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.82	0.44
2:M:769:PRO:HB2	3:N:65:ARG:CZ	2.48	0.44
5:P:286:PRO:HD3	9:P:4921:HOH:O	2.17	0.44
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.32	0.44
3:D:1288:GLU:OE1	3:D:1289:LYS:HG3	2.17	0.44
1:A:72:LYS:HA	2:C:608:GLY:N	2.32	0.44
1:A:88:ARG:HG2	1:A:88:ARG:O	2.17	0.44
4:O:33:HIS:HA	9:O:5072:HOH:O	2.18	0.44
5:P:100:VAL:HG12	5:P:104:ARG:HH12	1.82	0.44
2:C:79:PRO:HB3	9:C:2096:HOH:O	2.16	0.44
5:P:203:THR:HG22	5:P:204:GLY:N	2.32	0.44
3:N:519:VAL:N	9:N:9660:HOH:O	2.50	0.44
5:P:84:TYR:HD1	9:P:3565:HOH:O	2.00	0.44
2:C:309:TYR:CE2	2:C:321:GLU:HB3	2.53	0.44
1:B:83:LYS:HE3	1:B:167:VAL:HG12	1.99	0.44
3:D:211:VAL:HG13	3:D:393:ILE:HG23	1.99	0.44
2:C:313:LEU:HD12	2:C:313:LEU:O	2.17	0.44
3:N:102:ILE:HG13	9:N:2374:HOH:O	2.15	0.44
2:M:428:ARG:HH21	2:M:451:LEU:HD21	1.82	0.44
1:A:191:ASP:O	1:A:191:ASP:CG	2.56	0.44
3:D:1173:LEU:HD23	3:D:1174:LEU:N	2.32	0.44
2:C:195:LEU:HB3	9:C:9594:HOH:O	2.16	0.44
2:C:525:SER:OG	2:C:527:GLU:HG3	2.17	0.44
3:D:441:ARG:O	3:D:443:VAL:N	2.50	0.44
2:M:561:GLY:HA3	2:M:842:ARG:O	2.17	0.44
5:F:398:ARG:HB3	9:F:9487:HOH:O	2.18	0.44
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.99	0.44
3:N:526:PRO:HB2	5:P:317:LEU:HD11	2.00	0.44
3:D:917:GLN:HA	9:D:9488:HOH:O	2.16	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HG3	2.48	0.44
1:B:143:ARG:CD	1:B:158:ILE:HG21	2.48	0.44
1:B:143:ARG:HD3	1:B:158:ILE:HG21	1.98	0.44
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.46	0.44
2:M:817:PRO:C	2:M:819:VAL:H	2.20	0.44
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.38	0.44
2:M:498:GLN:HB3	2:M:500:ASN:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:816:LYS:O	2:C:819:VAL:HB	2.18	0.44
1:A:7:LYS:NZ	1:A:188:GLN:HE22	2.15	0.44
3:D:156:GLU:CD	3:D:156:GLU:N	2.70	0.44
1:K:216:GLU:OE1	1:K:219:ARG:HD2	2.17	0.44
5:P:101:GLU:O	5:P:105:LYS:HG3	2.17	0.44
2:C:726:ILE:HG22	2:C:726:ILE:O	2.17	0.44
2:M:189:ARG:HH22	2:M:243:ARG:CD	2.31	0.44
1:B:142:VAL:HG23	1:B:142:VAL:O	2.17	0.44
3:D:780:LYS:HE2	9:D:2356:HOH:O	2.18	0.44
5:F:94:LEU:HD23	5:F:95:THR:N	2.33	0.44
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.52	0.44
2:C:1087:VAL:HG13	2:C:1091:GLU:OE2	2.17	0.44
2:M:964:LYS:HE2	9:M:9902:HOH:O	2.17	0.44
5:P:128:ARG:CZ	5:P:128:ARG:HB2	2.48	0.44
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	2.00	0.44
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.45	0.44
2:M:113:VAL:HG12	2:M:115:LEU:HD23	1.98	0.44
3:D:1374:GLN:HG2	9:D:9769:HOH:O	2.17	0.44
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.99	0.44
2:C:41:ASN:HA	2:C:45:GLN:OE1	2.17	0.44
2:M:309:TYR:HA	2:M:312:ALA:HB3	1.99	0.44
5:F:370:LYS:HB3	5:F:370:LYS:HZ3	1.82	0.44
5:F:256:ARG:NE	5:F:260:ILE:HD12	2.33	0.44
2:M:1083:GLU:N	9:M:9532:HOH:O	2.47	0.44
4:E:9:LEU:HD22	4:E:19:LEU:CD1	2.47	0.44
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.32	0.44
5:F:372:ARG:HD3	9:F:9526:HOH:O	2.17	0.44
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.52	0.44
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.17	0.44
5:P:413:SER:HA	5:P:416:ARG:HD3	1.98	0.44
3:N:484:PRO:O	3:N:489:ARG:HD2	2.18	0.44
1:L:124:ASN:ND2	1:L:127:LEU:HD22	2.32	0.44
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.46	0.44
3:N:1503:VAL:HG22	9:N:2327:HOH:O	2.18	0.44
3:N:824:ASN:HB3	9:N:9554:HOH:O	2.18	0.44
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.30	0.44
3:N:175:VAL:HA	3:N:389:GLU:OE1	2.17	0.44
3:N:1156:LEU:HD13	3:N:1176:LYS:HD2	2.00	0.44
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.46	0.44
1:B:1:MET:HE1	9:B:9547:HOH:O	2.16	0.44
3:N:1217:ILE:H	3:N:1217:ILE:HG13	1.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:719:VAL:O	3:D:719:VAL:HG23	2.18	0.44
3:N:1063:GLU:HB3	9:N:2380:HOH:O	2.17	0.44
3:D:1087:ARG:HB3	3:D:1234:THR:HG23	1.99	0.44
3:D:1236:LEU:HD12	3:D:1256:LEU:CD1	2.47	0.44
3:N:546:ARG:NH1	3:N:550:ARG:NH2	2.65	0.44
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.46	0.44
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	2.33	0.44
3:N:641:GLN:HB3	3:N:717:GLN:O	2.18	0.44
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	1.99	0.44
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.99	0.44
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.99	0.44
2:C:444:PRO:HD2	2:C:452:ILE:O	2.18	0.44
2:C:474:VAL:HG13	2:C:530:GLU:O	2.18	0.44
3:N:29:PRO:HG3	9:N:9768:HOH:O	2.17	0.44
2:C:890:LEU:C	2:C:890:LEU:HD23	2.37	0.44
3:D:629:SER:OG	3:D:630:VAL:N	2.50	0.44
3:D:470:LEU:HD11	3:D:509:PRO:HG3	2.00	0.44
3:N:506:GLY:C	3:N:507:ASN:HD22	2.21	0.44
1:A:106:PRO:HG3	1:A:133:GLU:O	2.18	0.44
3:N:951:ILE:HG23	3:N:1062:ARG:HH21	1.82	0.44
3:N:525:ARG:HB2	3:N:538:SER:OG	2.18	0.44
1:K:88:ARG:HB3	9:K:3485:HOH:O	2.16	0.44
2:C:565:GLN:HA	2:C:995:MET:HE3	2.00	0.44
3:N:645:PRO:HB3	3:N:723:GLY:O	2.17	0.44
2:M:704:HIS:O	2:M:705:ILE:HG23	2.17	0.44
1:B:158:ILE:HA	1:B:158:ILE:HD13	1.84	0.44
3:D:867:ARG:HB3	3:D:867:ARG:HH11	1.83	0.44
2:M:925:TYR:C	2:M:925:TYR:CD1	2.91	0.44
3:N:679:ARG:NH2	3:N:681:ARG:HD2	2.33	0.44
1:K:30:ARG:HD2	9:K:4362:HOH:O	2.17	0.44
2:M:1032:PHE:HA	9:M:2368:HOH:O	2.17	0.44
2:C:1103:ASP:N	2:C:1107:ASN:O	2.51	0.44
2:C:493:ARG:HD2	9:C:9650:HOH:O	2.17	0.44
3:D:396:VAL:HG13	3:D:446:VAL:O	2.18	0.44
3:D:175:VAL:HG11	3:D:218:LYS:H	1.83	0.44
2:C:333:ILE:O	2:C:465:GLY:HA3	2.17	0.44
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.99	0.44
3:D:1068:LEU:O	3:D:1068:LEU:HD23	2.18	0.44
2:M:165:LEU:HA	2:M:165:LEU:HD12	1.88	0.44
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.33	0.44
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:400:VAL:HA	3:D:442:ASN:O	2.18	0.44
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.37	0.44
3:N:33:ASN:O	3:N:36:THR:O	2.36	0.44
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.53	0.44
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.83	0.44
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.33	0.44
2:M:269:LEU:O	2:M:269:LEU:HD23	2.18	0.44
2:M:704:HIS:CG	2:M:831:ARG:HE	2.36	0.44
2:M:1042:ALA:CB	3:N:710:ARG:HE	2.29	0.44
3:D:1332:PRO:HB2	3:D:1421:LEU:HD22	2.00	0.44
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.18	0.44
3:N:661:MET:SD	3:N:673:ALA:HB1	2.57	0.44
1:B:109:VAL:HG22	9:B:9571:HOH:O	2.17	0.44
2:C:630:ARG:HE	2:C:705:ILE:HG13	1.82	0.44
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.47	0.44
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.18	0.44
2:C:25:SER:OG	2:C:337:GLY:N	2.48	0.44
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.82	0.44
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.31	0.44
2:M:62:GLY:O	2:M:103:LYS:HG3	2.18	0.44
2:M:910:LYS:HB3	2:M:912:PRO:HD2	2.00	0.44
4:O:61:GLU:C	4:O:65:MET:HE2	2.38	0.44
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.00	0.44
3:N:832:ARG:HG2	9:N:9674:HOH:O	2.18	0.44
1:B:112:ARG:CZ	1:B:112:ARG:HB3	2.47	0.44
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.99	0.44
2:M:930:LYS:HA	9:M:9525:HOH:O	2.18	0.44
3:N:456:MET:C	9:N:2390:HOH:O	2.56	0.44
2:C:110:GLU:HB2	2:C:368:THR:HG22	1.99	0.43
2:C:71:TYR:H	2:C:71:TYR:HD2	1.65	0.43
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.33	0.43
3:D:191:LEU:HB3	3:D:195:VAL:HG21	2.00	0.43
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.16	0.43
3:D:525:ARG:N	3:D:526:PRO:HD3	2.33	0.43
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.82	0.43
5:P:358:LEU:HD11	5:P:370:LYS:NZ	2.33	0.43
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.99	0.43
2:C:235:LEU:HA	9:C:2083:HOH:O	2.18	0.43
3:D:669:ASN:HB3	9:D:9547:HOH:O	2.17	0.43
2:M:418:LEU:HD12	2:M:418:LEU:N	2.33	0.43
2:M:670:GLN:HG3	2:M:700:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.48	0.43
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.21	0.43
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.57	0.43
2:M:1090:LYS:HD2	3:N:90:MET:SD	2.58	0.43
3:D:1496:GLU:O	3:D:1500:LYS:HG3	2.17	0.43
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.31	0.43
5:F:319:THR:HB	5:F:321:ILE:HD11	1.99	0.43
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.99	0.43
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.00	0.43
2:M:916:GLU:O	2:M:919:ALA:HB3	2.18	0.43
3:D:650:LEU:HD22	3:D:688:TRP:CZ3	2.53	0.43
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.81	0.43
2:M:380:ALA:O	2:M:383:ARG:HG2	2.18	0.43
2:C:712:ALA:HB1	9:C:2168:HOH:O	2.18	0.43
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.18	0.43
2:C:360:LEU:HD12	9:C:9600:HOH:O	2.18	0.43
3:D:16:GLU:HA	3:D:19:ARG:NH1	2.33	0.43
3:N:994:GLN:HA	3:N:994:GLN:HE21	1.83	0.43
3:D:1406:ARG:HD3	3:D:1406:ARG:C	2.39	0.43
2:M:241:LEU:HD23	9:M:9797:HOH:O	2.18	0.43
4:E:52:GLU:HB3	4:E:55:PHE:CZ	2.53	0.43
3:D:216:VAL:HG12	9:D:9947:HOH:O	2.17	0.43
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.82	0.43
2:C:674:VAL:HG12	2:C:990:GLY:O	2.18	0.43
2:C:689:VAL:HB	2:C:870:ILE:CG1	2.36	0.43
2:C:460:ARG:HD2	2:C:485:TYR:CD2	2.52	0.43
2:C:535:SER:HB2	2:C:537:LYS:HD3	2.00	0.43
2:C:557:ARG:NH1	2:C:879:ARG:HG2	2.33	0.43
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.18	0.43
1:A:63:HIS:HE1	9:C:2299:HOH:O	2.00	0.43
2:C:443:THR:HG23	2:C:449:ILE:HG13	1.99	0.43
3:D:1031:ASN:O	3:D:1034:GLN:HB2	2.17	0.43
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.18	0.43
5:P:85:LEU:HD22	5:P:193:ARG:CD	2.48	0.43
3:D:1219:GLU:HG2	3:D:1220:ALA:N	2.33	0.43
3:N:1096:ARG:HH11	3:N:1096:ARG:HG2	1.82	0.43
2:C:232:GLU:HG3	2:C:235:LEU:CD1	2.48	0.43
3:D:513:ILE:HA	9:D:9738:HOH:O	2.18	0.43
2:M:728:HIS:CE1	2:M:775:ARG:HH12	2.36	0.43
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.45	0.43
5:F:359:SER:C	5:F:361:LEU:H	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:6:ARG:HH11	3:D:6:ARG:CB	2.24	0.43
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.33	0.43
3:D:1267:ARG:HH22	3:D:1333:HIS:HD2	1.65	0.43
1:K:209:GLU:O	1:K:213:GLN:HG3	2.19	0.43
4:E:54:LEU:HA	4:E:58:PRO:HG2	2.01	0.43
3:N:661:MET:HE1	3:N:677:LEU:HD11	2.01	0.43
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.99	0.43
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.49	0.43
4:O:82:GLU:O	4:O:85:LEU:HD22	2.18	0.43
3:N:115:LEU:HD12	3:N:499:VAL:HG22	1.99	0.43
2:C:838:LYS:O	2:C:838:LYS:HG3	2.18	0.43
1:A:2:LEU:O	1:A:6:LEU:HB3	2.18	0.43
9:D:9603:HOH:O	5:F:337:HIS:HB3	2.18	0.43
2:C:111:ASP:HB3	2:C:112:GLU:OE2	2.18	0.43
2:M:625:LEU:HD22	2:M:639:GLN:HB3	2.00	0.43
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.83	0.43
5:P:211:ASP:N	5:P:211:ASP:OD1	2.51	0.43
3:N:915:VAL:HG13	3:N:931:LEU:HD21	2.00	0.43
3:D:553:ARG:CZ	9:F:9503:HOH:O	2.65	0.43
3:D:553:ARG:NE	9:D:9572:HOH:O	2.51	0.43
1:A:66:SER:O	1:A:75:VAL:HG23	2.19	0.43
2:M:674:VAL:O	2:M:989:VAL:HA	2.17	0.43
4:E:61:GLU:OE2	4:E:62:THR:N	2.52	0.43
5:F:295:MET:HB3	5:F:299:TRP:CG	2.53	0.43
2:M:707:ARG:HH12	2:M:709:GLU:CB	2.21	0.43
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.99	0.43
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.54	0.43
3:N:852:ALA:O	3:N:857:ILE:HG12	2.18	0.43
1:L:100:LEU:HB2	1:L:115:LEU:CD2	2.44	0.43
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.83	0.43
2:M:287:GLY:O	2:M:288:ARG:C	2.56	0.43
3:N:153:LEU:HD11	3:N:158:TYR:CA	2.48	0.43
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.53	0.43
3:D:853:VAL:CG2	3:D:858:VAL:HG23	2.48	0.43
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.49	0.43
2:C:190:LYS:HG3	9:C:9876:HOH:O	2.19	0.43
3:D:805:GLU:O	3:D:805:GLU:OE1	2.37	0.43
5:F:305:GLU:O	5:F:309:LYS:HG3	2.18	0.43
5:F:115:LYS:HG3	5:F:173:TYR:HE2	1.82	0.43
3:D:1154:GLU:HB2	9:D:9708:HOH:O	2.18	0.43
1:K:9:PRO:HD2	1:L:224:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ARG:NH2	1:A:88:ARG:NH2	2.65	0.43
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.83	0.43
3:D:1413:THR:HG22	9:D:2035:HOH:O	2.18	0.43
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.99	0.43
5:F:241:TRP:HA	5:F:244:ARG:HH12	1.83	0.43
5:F:230:LYS:HD3	9:F:9882:HOH:O	2.17	0.43
2:M:957:LYS:HA	9:M:2387:HOH:O	2.18	0.43
2:C:861:LEU:HD23	2:C:862:PRO:N	2.34	0.43
3:D:130:SER:O	3:D:568:ARG:NH2	2.50	0.43
2:C:938:LYS:N	9:C:9976:HOH:O	2.51	0.43
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.18	0.43
5:P:412:GLU:HA	9:P:3726:HOH:O	2.17	0.43
3:D:1107:VAL:O	3:D:1218:GLY:N	2.49	0.43
3:N:1135:ARG:HD3	3:N:1139:ASP:HB2	1.98	0.43
1:K:197:LEU:H	1:K:197:LEU:CD2	2.30	0.43
3:D:703:ASN:ND2	3:D:704:ARG:N	2.66	0.43
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.43
2:C:580:MET:HB2	2:C:902:ILE:HG12	1.99	0.43
3:D:890:VAL:HG21	3:D:922:LEU:CD1	2.49	0.43
2:M:1005:MET:HE3	3:N:645:PRO:HB2	2.01	0.43
2:M:603:VAL:H	2:M:647:GLN:H	1.66	0.43
2:M:36:PRO:HG2	2:M:70:GLU:CB	2.46	0.43
2:M:389:SER:HB2	9:M:9823:HOH:O	2.17	0.43
1:K:101:LEU:HG	1:K:114:PHE:CA	2.43	0.43
3:D:838:ARG:HD3	3:D:874:GLU:HB3	2.00	0.43
3:N:1403:LEU:HD23	3:N:1407:LEU:CD2	2.47	0.43
2:C:607:ASP:HB3	2:C:610:ARG:H	1.84	0.43
2:M:1067:TYR:CE1	3:N:655:PRO:HB3	2.54	0.43
3:N:835:SER:N	9:N:9806:HOH:O	2.52	0.43
1:A:18:ARG:HD3	1:A:123:MET:CE	2.48	0.43
2:M:132:ALA:HB2	9:M:2414:HOH:O	2.18	0.43
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.83	0.43
2:M:1100:GLN:HB2	2:M:1100:GLN:HE21	1.69	0.43
2:M:175:GLU:HB3	2:M:183:SER:OG	2.18	0.43
3:N:1449:GLU:HG2	9:N:9651:HOH:O	2.18	0.43
1:A:89:PHE:HB2	9:A:9536:HOH:O	2.17	0.43
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.83	0.43
2:M:625:LEU:HD22	2:M:639:GLN:CB	2.48	0.43
3:D:639:LEU:HD22	3:D:766:ALA:CB	2.48	0.43
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.38	0.43
3:D:537:THR:HG22	9:F:9527:HOH:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:OG1	2:C:444:PRO:HD2	2.18	0.43
1:A:42:ARG:CZ	9:A:9609:HOH:O	2.66	0.43
3:D:131:LYS:HG3	3:D:568:ARG:HG2	2.00	0.43
3:D:569:ASN:ND2	5:F:210:LEU:HD22	2.33	0.43
3:D:566:ILE:HG12	5:F:217:ASN:ND2	2.33	0.43
3:D:459:GLU:O	3:D:463:GLN:HG2	2.18	0.43
3:D:210:ARG:HG3	3:D:398:ALA:HB3	2.00	0.43
2:M:1075:ASP:HB2	4:O:31:LEU:HD12	2.00	0.43
2:M:1015:LEU:HD12	5:P:335:ASP:OD1	2.19	0.43
2:C:752:GLY:H	2:C:792:VAL:HB	1.83	0.43
1:B:27:PRO:HG2	1:B:186:LEU:HD12	2.01	0.43
2:M:385:PHE:O	2:M:389:SER:HB3	2.19	0.43
3:D:625:TYR:CD1	3:D:625:TYR:N	2.86	0.43
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.18	0.43
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.48	0.43
2:M:802:ARG:HH11	2:M:802:ARG:HB3	1.84	0.43
1:A:32:PHE:HD2	9:A:9505:HOH:O	2.01	0.43
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.18	0.43
2:M:913:GLU:O	2:M:916:GLU:HB3	2.19	0.43
2:C:598:GLU:HB2	2:C:615:TYR:CZ	2.53	0.43
1:A:73:GLU:N	1:A:73:GLU:OE2	2.52	0.43
3:N:1203:LYS:HB2	9:N:9807:HOH:O	2.18	0.43
3:D:591:VAL:HG11	9:D:2452:HOH:O	2.17	0.43
1:A:109:VAL:O	1:A:129:ILE:HB	2.18	0.43
2:M:189:ARG:HG2	2:M:189:ARG:HH11	1.83	0.43
2:C:3:ILE:HA	2:C:900:ARG:O	2.19	0.43
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.01	0.43
5:P:245:GLN:HA	9:P:3671:HOH:O	2.17	0.43
3:D:615:ARG:HG3	3:D:615:ARG:HH11	1.82	0.43
1:B:84:GLU:HB3	1:B:127:LEU:HD21	2.00	0.43
3:D:178:LEU:CG	3:D:200:ASP:H	2.28	0.43
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	2.10	0.43
3:D:187:LYS:HG2	9:D:9853:HOH:O	2.19	0.43
3:D:112:ILE:O	3:D:116:LEU:HB2	2.18	0.43
2:C:1115:LEU:CB	3:D:85:VAL:HG13	2.48	0.43
2:M:1008:ARG:HB2	2:M:1027:PHE:HB2	2.00	0.43
2:C:10:ARG:NH1	2:C:11:GLU:H	2.16	0.43
2:C:679:PHE:O	3:D:943:THR:HG22	2.18	0.43
4:E:26:ARG:HA	4:E:29:GLN:OE1	2.18	0.43
2:M:148:PHE:HB2	9:M:9837:HOH:O	2.19	0.43
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:908:LYS:HA	3:D:911:LEU:HD22	2.01	0.43
5:P:363:GLU:HA	5:P:367:MET:HE2	2.00	0.43
5:P:358:LEU:HD11	5:P:367:MET:SD	2.58	0.43
2:C:525:SER:OG	2:C:528:GLU:HG3	2.18	0.43
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.34	0.43
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.54	0.43
2:M:230:ARG:HB2	9:M:9523:HOH:O	2.19	0.43
2:M:335:THR:CG2	2:M:461:VAL:HG11	2.49	0.43
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.47	0.43
3:D:440:VAL:HG12	3:D:441:ARG:N	2.33	0.43
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.39	0.43
2:M:1086:ARG:NH1	2:M:1112:PHE:HA	2.33	0.43
3:N:1294:VAL:O	3:N:1300:SER:HA	2.19	0.43
5:F:205:ARG:HD2	5:F:251:ILE:HG21	2.01	0.43
1:K:32:PHE:O	1:K:36:LEU:HG	2.19	0.43
2:C:44:ILE:HA	2:C:344:PHE:CE1	2.54	0.43
2:M:301:GLU:O	2:M:305:PRO:HG2	2.19	0.43
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.53	0.43
2:C:722:ILE:HD12	2:C:805:ARG:NH2	2.32	0.43
3:N:96:ALA:CB	9:N:9830:HOH:O	2.66	0.43
3:D:475:LYS:O	3:D:479:GLU:HG2	2.18	0.43
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.18	0.43
3:D:598:ARG:NH2	5:F:318:GLU:O	2.51	0.43
3:N:1312:LEU:HD21	9:N:2005:HOH:O	2.18	0.43
3:N:992:ILE:O	3:N:995:LEU:HB3	2.19	0.43
1:L:124:ASN:HD22	1:L:127:LEU:HD22	1.83	0.43
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.47	0.43
5:F:187:LEU:HD21	9:F:9584:HOH:O	2.17	0.43
2:M:26:TYR:CD2	2:M:30:LEU:HD11	2.54	0.43
1:B:23:PHE:O	1:B:196:THR:HA	2.19	0.43
5:P:100:VAL:HG11	9:P:6003:HOH:O	2.17	0.43
2:M:21:ILE:HD12	2:M:21:ILE:N	2.33	0.43
3:D:1114:THR:HG23	3:D:1114:THR:O	2.17	0.43
2:M:243:ARG:HG2	9:M:9816:HOH:O	2.18	0.43
2:C:27:ARG:HD2	9:C:9549:HOH:O	2.18	0.43
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.19	0.43
2:M:697:ARG:HB2	9:M:9519:HOH:O	2.19	0.43
3:D:746:ALA:HB2	9:D:9498:HOH:O	2.19	0.43
1:K:66:SER:O	1:K:75:VAL:HG23	2.18	0.43
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	2.01	0.43
3:N:436:GLU:HB2	3:N:445:ARG:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.54	0.43
2:C:877:PRO:HG2	3:D:1023:MET:CE	2.48	0.43
2:C:874:LEU:CD2	3:D:1023:MET:SD	3.06	0.43
3:D:1487:VAL:O	4:E:73:LEU:HA	2.18	0.43
2:M:185:LYS:HG2	2:M:190:LYS:HG2	2.01	0.43
2:C:854:PRO:C	2:C:856:GLU:N	2.71	0.43
3:D:130:SER:HB2	9:D:9649:HOH:O	2.18	0.43
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.18	0.43
5:F:194:LEU:N	5:F:194:LEU:HD22	2.33	0.43
2:M:566:THR:O	2:M:566:THR:HG22	2.19	0.43
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.53	0.43
5:F:209:PHE:HD1	9:F:9815:HOH:O	2.01	0.43
3:D:570:GLU:HB2	5:F:214:GLN:NE2	2.34	0.43
5:F:214:GLN:O	5:F:217:ASN:HB2	2.19	0.43
2:M:911:GLU:OE2	3:N:1062:ARG:NE	2.51	0.43
2:M:431:HIS:HB3	2:M:434:HIS:NE2	2.34	0.43
2:C:602:GLU:HA	2:C:647:GLN:O	2.19	0.43
1:B:27:PRO:C	1:B:28:LEU:HD23	2.39	0.43
3:N:643:GLY:CA	3:N:727:GLN:HB2	2.42	0.43
3:N:693:GLU:HA	4:O:48:MET:CE	2.48	0.43
5:F:274:THR:O	5:F:278:LEU:HG	2.18	0.43
2:C:162:ILE:HD12	2:C:172:ILE:CB	2.49	0.43
1:L:127:LEU:HD12	1:L:128:HIS:H	1.84	0.43
3:D:1299:PHE:H	3:D:1299:PHE:HD2	1.66	0.43
3:N:481:MET:SD	3:N:493:ARG:HA	2.58	0.43
5:P:401:GLU:O	5:P:405:LEU:HD13	2.19	0.43
1:A:227:ASN:HD22	1:A:227:ASN:N	2.16	0.43
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.99	0.43
2:M:189:ARG:HH22	2:M:243:ARG:CG	2.32	0.43
5:P:258:ILE:HG13	9:P:3765:HOH:O	2.18	0.43
1:A:90:LEU:HD21	9:A:9569:HOH:O	2.18	0.43
2:C:100:LEU:HD22	2:C:372:LEU:HD22	2.01	0.43
3:N:422:ALA:O	3:N:427:VAL:HG21	2.18	0.43
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.66	0.43
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.52	0.43
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.38	0.43
5:P:393:THR:O	5:P:397:ILE:HG13	2.18	0.43
2:C:1005:MET:O	2:C:1005:MET:HG3	2.18	0.43
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.19	0.43
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.48	0.43
3:D:637:LEU:HD11	3:D:642:CYS:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:660:ALA:O	2:C:667:ALA:O	2.37	0.43
3:D:884:ARG:HA	9:D:9724:HOH:O	2.18	0.43
1:K:203:GLY:HA2	9:K:4352:HOH:O	2.19	0.43
3:D:55:ASP:HB3	3:D:56:TYR:H	1.57	0.43
3:N:644:LEU:N	9:N:9610:HOH:O	2.50	0.43
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.48	0.43
3:D:2:LYS:HB3	3:D:3:LYS:NZ	2.33	0.43
5:F:316:SER:HB2	5:F:319:THR:OG1	2.19	0.43
1:L:84:GLU:HB2	9:N:9942:HOH:O	2.18	0.43
3:D:1377:LYS:HB3	3:D:1378:TYR:CE1	2.54	0.43
4:O:70:THR:CG2	4:O:72:ARG:HE	2.31	0.43
2:M:1103:ASP:N	2:M:1107:ASN:O	2.52	0.43
3:N:834:THR:HG22	3:N:838:ARG:HD2	2.01	0.43
3:D:781:PRO:HB3	3:D:785:ILE:CG2	2.49	0.43
3:D:33:ASN:O	3:D:36:THR:O	2.36	0.43
5:P:169:GLU:CD	5:P:169:GLU:H	2.22	0.43
1:K:220:GLU:HB2	9:K:5313:HOH:O	2.18	0.43
1:L:145:ASP:O	1:L:171:PHE:HE1	2.02	0.43
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.99	0.43
2:M:663:ASN:HD22	2:M:663:ASN:HA	1.65	0.43
1:B:88:ARG:NH1	9:B:9562:HOH:O	2.51	0.43
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.83	0.43
3:N:45:PHE:N	9:N:9567:HOH:O	2.51	0.43
3:N:1033:GLN:NE2	3:N:1036:ARG:HD3	2.27	0.43
2:M:1115:LEU:N	2:M:1115:LEU:CD1	2.82	0.43
2:C:689:VAL:O	2:C:869:VAL:HG23	2.19	0.43
3:D:639:LEU:N	3:D:729:HIS:CD2	2.86	0.43
3:N:1264:GLU:OE2	3:N:1425:THR:HB	2.19	0.43
3:D:535:PHE:O	5:F:315:VAL:HG22	2.18	0.43
4:E:29:GLN:CB	4:E:33:HIS:NE2	2.82	0.43
2:C:432:ARG:HG2	2:C:432:ARG:H	1.65	0.43
3:D:1047:LYS:HE3	3:D:1051:GLU:HB2	2.01	0.43
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.19	0.43
2:C:854:PRO:O	2:C:856:GLU:N	2.52	0.43
3:D:641:GLN:HG2	9:D:9590:HOH:O	2.18	0.43
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.19	0.43
3:N:1125:PRO:HB2	3:N:1126:ASP:H	1.64	0.43
3:D:734:GLU:HA	9:D:9487:HOH:O	2.19	0.43
2:C:22:GLN:O	2:C:121:MET:HE1	2.19	0.43
2:M:65:VAL:HB	2:M:101:ILE:HB	2.00	0.43
3:D:1292:VAL:O	3:D:1303:TYR:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:693:GLU:O	4:O:48:MET:HE1	2.19	0.43
1:L:58:ILE:HD13	1:L:140:MET:HB3	2.01	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.86	0.43
5:P:287:THR:O	5:P:289:GLU:N	2.51	0.43
5:P:143:HIS:HB2	5:P:152:ASP:OD1	2.19	0.43
2:M:926:PHE:O	2:M:930:LYS:HG3	2.18	0.43
5:F:313:GLU:HG2	5:F:313:GLU:H	1.47	0.43
5:P:197:SER:O	5:P:200:LYS:HB3	2.18	0.43
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.19	0.43
3:N:1334:GLN:HG3	9:N:2654:HOH:O	2.18	0.43
2:M:85:GLU:HA	9:M:9565:HOH:O	2.18	0.43
2:C:289:THR:HB	9:C:9939:HOH:O	2.19	0.43
2:C:1008:ARG:NH2	2:C:1021:LEU:O	2.50	0.43
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.34	0.43
2:M:859:PRO:O	2:M:867:VAL:HG22	2.19	0.43
1:A:176:ARG:O	1:A:200:TRP:HE3	2.02	0.43
2:M:227:PHE:O	2:M:230:ARG:HD3	2.19	0.43
2:M:651:LYS:HD2	9:M:2254:HOH:O	2.19	0.43
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.54	0.43
2:M:1004:LYS:O	2:M:1006:HIS:ND1	2.52	0.43
2:M:1021:LEU:CD2	5:P:332:PHE:HA	2.45	0.43
3:D:806:PHE:O	3:D:806:PHE:CD1	2.72	0.43
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.49	0.43
3:D:1274:ILE:H	3:D:1274:ILE:HG13	1.54	0.43
3:D:473:LEU:HD11	3:D:495:ARG:HH12	1.82	0.43
3:D:1314:LYS:HZ3	3:D:1317:ASP:H	1.67	0.43
3:N:452:ILE:HG23	3:N:452:ILE:O	2.19	0.43
2:C:172:ILE:N	2:C:172:ILE:HD12	2.33	0.43
3:D:1239:ARG:NH2	3:D:1254:GLN:HB2	2.34	0.43
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.48	0.43
2:M:1109:VAL:HG21	3:N:3:LYS:O	2.19	0.43
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	2.01	0.43
1:L:92:PRO:HB3	9:L:5570:HOH:O	2.19	0.43
1:B:72:LYS:HD3	9:B:9705:HOH:O	2.18	0.43
2:C:357:GLU:HB2	9:C:9624:HOH:O	2.19	0.43
3:N:500:ARG:HG3	3:N:500:ARG:HH11	1.84	0.43
3:D:563:PRO:HB3	9:D:9517:HOH:O	2.18	0.43
9:C:2220:HOH:O	3:D:758:GLU:HB3	2.18	0.43
2:C:327:HIS:O	2:C:330:ASN:HB2	2.19	0.43
3:N:783:ARG:HE	3:N:1029:ARG:HD3	1.84	0.42
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:674:VAL:O	2:C:989:VAL:HA	2.19	0.42
9:C:9491:HOH:O	3:D:613:ARG:HG3	2.18	0.42
2:C:308:ARG:HH11	2:C:308:ARG:HG2	1.84	0.42
1:B:41:ARG:HG3	1:B:42:ARG:N	2.34	0.42
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.00	0.42
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	2.01	0.42
3:N:1471:LEU:HD12	3:N:1472:ILE:N	2.31	0.42
5:F:373:LYS:HG2	9:F:9532:HOH:O	2.19	0.42
2:M:331:ARG:CZ	2:M:427:VAL:HG13	2.49	0.42
2:M:250:ARG:HG2	9:M:2207:HOH:O	2.19	0.42
3:D:474:GLU:CG	3:D:500:ARG:HE	2.32	0.42
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.33	0.42
3:N:1282:ARG:NH1	9:N:2080:HOH:O	2.51	0.42
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.54	0.42
5:P:102:LEU:HD23	5:P:183:ALA:HA	2.01	0.42
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.54	0.42
3:N:989:TYR:HA	9:N:9914:HOH:O	2.19	0.42
2:C:1049:LEU:HG	2:C:1053:LEU:CD1	2.49	0.42
3:N:1493:LYS:HA	3:N:1496:GLU:HG2	1.99	0.42
3:D:647:ARG:HD3	3:D:647:ARG:O	2.19	0.42
5:F:234:LYS:HD2	5:F:236:SER:HB3	2.00	0.42
2:C:441:VAL:O	2:C:559:LEU:HD12	2.18	0.42
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.83	0.42
3:D:984:THR:CG2	3:D:987:GLU:H	2.31	0.42
2:C:1105:LYS:O	2:C:1107:ASN:N	2.52	0.42
2:C:925:TYR:C	2:C:925:TYR:CD1	2.92	0.42
5:F:392:VAL:HA	9:F:9723:HOH:O	2.18	0.42
2:C:69:LEU:HB2	2:C:97:ARG:HB2	2.01	0.42
3:N:1144:LEU:HD13	3:N:1174:LEU:HD12	2.01	0.42
3:N:777:PRO:HD2	3:N:912:LYS:HG2	2.01	0.42
2:C:676:ILE:HG22	2:C:988:VAL:O	2.19	0.42
2:C:91:GLN:HG2	2:C:119:PRO:HG3	2.01	0.42
1:B:36:LEU:C	1:B:39:PRO:HD2	2.37	0.42
3:N:42:ASP:O	3:N:49:ILE:HD12	2.18	0.42
2:M:166:PRO:HB2	9:M:9802:HOH:O	2.19	0.42
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.19	0.42
3:D:462:GLN:NE2	3:D:513:ILE:HB	2.34	0.42
1:A:143:ARG:HG3	1:A:144:VAL:N	2.32	0.42
3:D:10:ILE:CD1	3:D:1447:LEU:HG	2.49	0.42
5:F:367:MET:HA	5:F:370:LYS:HZ2	1.83	0.42
2:M:984:GLU:OE1	3:N:945:SER:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.83	0.42
2:M:1015:LEU:HA	5:P:335:ASP:HB2	2.01	0.42
2:C:1010:THR:HG21	5:F:341:PRO:CG	2.49	0.42
2:M:1043:TYR:HA	3:N:710:ARG:NH2	2.34	0.42
2:C:708:TYR:HE2	2:C:793:PRO:CD	2.30	0.42
3:N:793:THR:O	3:N:879:ARG:NH1	2.52	0.42
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.48	0.42
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.54	0.42
2:C:378:LEU:HD11	2:C:382:ILE:HD11	2.01	0.42
3:D:1403:LEU:HD23	3:D:1407:LEU:HD22	2.00	0.42
3:N:799:LYS:HE2	3:N:824:ASN:O	2.19	0.42
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.49	0.42
1:K:11:PHE:HD2	1:L:228:PRO:HA	1.84	0.42
5:F:401:GLU:O	5:F:405:LEU:HD13	2.18	0.42
1:A:18:ARG:HD3	1:A:123:MET:HE3	2.00	0.42
3:N:1319:VAL:HG23	3:N:1319:VAL:O	2.19	0.42
5:P:169:GLU:HA	5:P:172:ARG:NH2	2.34	0.42
2:C:715:THR:CG2	2:C:717:LEU:HG	2.49	0.42
2:M:380:ALA:HB2	9:M:2136:HOH:O	2.19	0.42
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.49	0.42
5:F:340:SER:O	5:F:342:VAL:N	2.52	0.42
5:P:240:THR:O	5:P:244:ARG:HG3	2.20	0.42
3:D:426:LYS:HB2	9:D:2623:HOH:O	2.20	0.42
5:P:161:GLN:NE2	9:P:3901:HOH:O	2.52	0.42
3:D:498:VAL:HG12	9:D:9841:HOH:O	2.18	0.42
1:B:150:TYR:HD1	1:B:169:ALA:O	2.02	0.42
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.19	0.42
2:C:72:ARG:NH1	2:C:72:ARG:HG3	2.32	0.42
3:D:119:SER:HB2	3:D:123:LEU:CB	2.48	0.42
3:D:613:ARG:HA	3:D:613:ARG:HD2	1.90	0.42
2:C:1090:LYS:NZ	3:D:90:MET:HG3	2.34	0.42
3:N:127:LEU:HB3	3:N:132:TYR:O	2.18	0.42
2:C:474:VAL:HG23	2:C:478:VAL:O	2.18	0.42
3:N:1106:VAL:HB	3:N:1108:ARG:HH21	1.84	0.42
3:N:1476:THR:C	3:N:1478:SER:H	2.23	0.42
3:N:734:GLU:OE1	3:N:782:SER:HB2	2.18	0.42
3:D:513:ILE:HG13	9:D:2007:HOH:O	2.18	0.42
5:F:348:SER:OG	5:F:349:LEU:N	2.53	0.42
3:N:951:ILE:HG23	3:N:1062:ARG:NH2	2.35	0.42
2:M:437:ARG:HG2	2:M:467:ILE:HG22	2.02	0.42
3:N:520:LEU:CD1	3:N:521:PRO:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:520:LEU:O	3:N:525:ARG:NH1	2.52	0.42
1:L:206:THR:CG2	1:L:209:GLU:H	2.26	0.42
2:M:897:LEU:CD2	2:M:921:ALA:HB2	2.50	0.42
5:F:370:LYS:NZ	5:F:370:LYS:HB3	2.34	0.42
3:D:955:VAL:O	3:D:1039:CYS:HB3	2.20	0.42
5:P:409:LYS:HG3	5:P:410:TYR:N	2.35	0.42
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.55	0.42
1:B:107:LYS:HB2	9:B:9631:HOH:O	2.19	0.42
4:O:79:LEU:HA	4:O:79:LEU:HD12	1.93	0.42
2:M:802:ARG:HB3	2:M:802:ARG:NH1	2.34	0.42
4:O:44:GLU:HG3	9:O:5061:HOH:O	2.20	0.42
5:F:401:GLU:HG3	5:F:405:LEU:HD22	2.01	0.42
4:E:46:PRO:CB	4:E:63:TRP:NE1	2.83	0.42
2:M:690:ILE:CG2	2:M:852:ILE:HG12	2.49	0.42
2:C:663:ASN:HA	2:C:663:ASN:HD22	1.60	0.42
2:M:352:ALA:O	2:M:355:VAL:HG12	2.19	0.42
3:D:167:GLU:HB2	9:D:9804:HOH:O	2.19	0.42
5:F:135:ILE:O	5:F:135:ILE:HD13	2.19	0.42
4:O:59:ASN:ND2	9:O:5180:HOH:O	2.52	0.42
1:K:173:PRO:HB3	1:K:204:SER:HB3	2.01	0.42
2:C:697:ARG:O	2:C:699:PHE:N	2.53	0.42
1:B:86:VAL:O	1:B:86:VAL:HG13	2.17	0.42
2:C:352:ALA:C	2:C:355:VAL:HG12	2.39	0.42
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.19	0.42
2:C:69:LEU:HD12	2:C:97:ARG:HB2	2.01	0.42
3:N:82:LYS:C	3:N:83:SER:HG	2.22	0.42
2:M:1115:LEU:CD1	2:M:1115:LEU:H	2.31	0.42
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.34	0.42
3:D:765:SER:OG	3:D:766:ALA:N	2.52	0.42
3:D:581:LEU:CD1	3:D:603:LEU:HD12	2.50	0.42
2:M:246:ASP:HB2	9:M:9955:HOH:O	2.19	0.42
2:C:578:VAL:HG13	2:C:671:ASN:OD1	2.19	0.42
3:N:563:PRO:HG2	3:N:566:ILE:HB	2.01	0.42
2:M:1000:MET:HG3	7:M:8002:RPT:H472	2.00	0.42
1:A:26:GLU:HG2	1:A:27:PRO:HG3	2.00	0.42
5:P:361:LEU:HD23	5:P:362:SER:N	2.35	0.42
3:N:765:SER:C	3:N:767:HIS:H	2.22	0.42
3:N:1133:ARG:HB2	9:N:9762:HOH:O	2.18	0.42
2:M:80:GLN:O	2:M:83:CYS:HB2	2.19	0.42
3:D:704:ARG:CD	3:D:705:ALA:H	2.32	0.42
2:C:852:ILE:HD12	2:C:852:ILE:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.84	0.42
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.49	0.42
2:M:35:PRO:HD2	2:M:38:LYS:CG	2.49	0.42
3:N:95:LEU:HD11	3:N:517:VAL:CG2	2.50	0.42
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.18	0.42
2:C:253:ALA:O	2:C:256:TYR:HB2	2.19	0.42
3:N:9:ARG:HG3	3:N:1456:LYS:HG2	2.01	0.42
3:N:1402:ALA:HB1	9:N:2424:HOH:O	2.18	0.42
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	2.02	0.42
9:N:9815:HOH:O	5:P:140:ARG:HB2	2.19	0.42
1:B:207:PRO:HB2	9:B:9532:HOH:O	2.18	0.42
2:M:808:ARG:HA	9:M:9526:HOH:O	2.19	0.42
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.49	0.42
3:N:93:ILE:HD13	3:N:548:ILE:HD11	2.01	0.42
5:P:122:LEU:HD12	9:P:4063:HOH:O	2.18	0.42
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.54	0.42
3:D:1467:ILE:HG22	9:D:9522:HOH:O	2.19	0.42
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.49	0.42
5:F:87:GLU:HB3	9:F:9506:HOH:O	2.20	0.42
2:C:270:GLY:O	2:C:271:GLU:HG2	2.18	0.42
1:B:213:GLN:HB2	1:B:213:GLN:HE21	1.58	0.42
4:E:14:ASP:HB2	9:E:9493:HOH:O	2.18	0.42
3:D:914:LEU:HD22	3:D:930:LEU:HD21	2.00	0.42
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.50	0.42
2:M:361:MET:HG2	9:M:2349:HOH:O	2.18	0.42
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.19	0.42
5:P:131:VAL:HG13	5:P:178:ARG:HG2	2.02	0.42
2:C:431:HIS:CD2	2:C:433:THR:HG1	2.38	0.42
2:C:876:VAL:HG11	2:C:885:ILE:HD11	2.02	0.42
2:C:1090:LYS:HZ1	3:D:90:MET:HG3	1.85	0.42
3:N:106:LYS:HB3	3:N:586:ARG:NH1	2.34	0.42
2:C:77:PRO:HD2	2:C:91:GLN:O	2.20	0.42
5:P:88:ILE:HG21	5:P:193:ARG:CZ	2.50	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:C	2.73	0.42
2:M:444:PRO:HB3	7:M:8002:RPT:H302	2.01	0.42
5:P:411:HIS:HA	5:P:414:ARG:HG3	2.01	0.42
3:N:1122:LEU:O	3:N:1135:ARG:N	2.45	0.42
3:D:704:ARG:NH1	3:D:737:ASN:O	2.53	0.42
3:D:1434:TRP:CZ3	3:D:1455:LYS:HB3	2.54	0.42
2:C:276:LYS:HG2	9:C:2408:HOH:O	2.19	0.42
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:577:PRO:HB2	2:C:580:MET:HG3	2.01	0.42
1:L:142:VAL:HG23	1:L:142:VAL:O	2.20	0.42
4:O:31:LEU:HD23	4:O:35:PHE:CD1	2.54	0.42
2:C:710:ILE:HD12	2:C:790:LEU:HB2	2.01	0.42
3:D:500:ARG:HG3	9:D:9797:HOH:O	2.20	0.42
3:D:1412:LYS:HG3	9:D:9570:HOH:O	2.18	0.42
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.55	0.42
3:D:1274:ILE:HA	9:D:9544:HOH:O	2.17	0.42
1:B:49:PRO:HB3	1:B:148:VAL:HG13	2.01	0.42
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.49	0.42
1:L:119:ASP:HB3	9:L:4208:HOH:O	2.17	0.42
3:D:1183:ILE:O	3:D:1183:ILE:HD12	2.20	0.42
3:N:838:ARG:HD3	3:N:874:GLU:HB3	2.00	0.42
3:N:679:ARG:HB3	9:N:9725:HOH:O	2.19	0.42
2:C:744:ARG:HA	9:C:9908:HOH:O	2.19	0.42
3:N:1047:LYS:HG2	3:N:1053:PHE:CE1	2.55	0.42
2:M:798:GLY:HA2	9:M:2295:HOH:O	2.18	0.42
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.00	0.42
2:M:50:GLU:HA	2:M:266:ARG:CZ	2.50	0.42
2:C:636:ALA:C	2:C:637:LEU:HD23	2.40	0.42
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.40	0.42
1:K:229:GLN:HB2	1:K:229:GLN:HE21	1.68	0.42
3:N:508:ARG:HG3	9:N:2034:HOH:O	2.18	0.42
3:D:102:ILE:HG13	9:D:9521:HOH:O	2.19	0.42
2:C:956:GLY:HA2	9:C:9712:HOH:O	2.19	0.42
2:C:774:LEU:HD21	9:C:9684:HOH:O	2.18	0.42
1:L:68:ILE:HG23	9:L:6170:HOH:O	2.18	0.42
1:B:123:MET:HG2	9:B:9635:HOH:O	2.20	0.42
3:D:715:ALA:HB3	3:D:764:LEU:CA	2.47	0.42
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.84	0.42
2:M:90:TYR:CE2	2:M:120:LEU:HB2	2.55	0.42
5:P:136:LEU:HD12	5:P:137:GLY:N	2.35	0.42
2:M:393:GLN:HB2	7:M:8002:RPT:O9	2.20	0.42
2:M:405:ARG:HD2	2:M:442:GLU:OE1	2.19	0.42
2:M:689:VAL:O	2:M:869:VAL:HG23	2.20	0.42
2:M:729:LEU:HB3	9:M:2237:HOH:O	2.20	0.42
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.85	0.42
2:M:546:LEU:HD23	2:M:842:ARG:HH11	1.85	0.42
3:N:1283:ILE:N	3:N:1315:ASP:OD1	2.52	0.42
3:N:645:PRO:HA	3:N:721:VAL:O	2.19	0.42
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	2.01	0.42
1:K:18:ARG:HG2	9:K:4001:HOH:O	2.19	0.42
1:B:140:MET:HG3	9:B:9666:HOH:O	2.19	0.42
2:C:172:ILE:HA	2:C:185:LYS:O	2.18	0.42
2:M:1078:GLU:HA	2:M:1079:PRO:HD3	1.93	0.42
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.20	0.42
1:A:32:PHE:HB2	9:A:9526:HOH:O	2.19	0.42
3:D:501:ALA:HB1	3:D:1453:ALA:CB	2.49	0.42
3:N:964:LEU:HD22	3:N:1058:ARG:HH12	1.81	0.42
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.20	0.42
2:M:86:LYS:CE	2:M:813:VAL:HG12	2.49	0.42
2:C:614:ARG:HG3	2:C:620:LEU:HB3	2.02	0.42
3:N:1394:VAL:HG21	3:N:1397:LYS:HE3	2.02	0.42
3:N:739:ASP:O	3:N:743:ASP:OD2	2.37	0.42
3:N:1341:PRO:HA	3:N:1344:VAL:HG23	2.01	0.42
2:C:658:GLY:N	2:C:661:SER:OG	2.52	0.42
2:C:964:LYS:HB2	9:C:2350:HOH:O	2.19	0.42
5:P:352:GLU:O	5:P:356:LYS:HG3	2.19	0.42
2:M:928:LYS:HD2	9:M:2219:HOH:O	2.18	0.42
2:C:94:LEU:HD21	9:C:9517:HOH:O	2.19	0.42
3:N:1037:GLN:OE1	3:N:1042:ARG:HB3	2.20	0.42
2:C:886:LEU:HD23	2:C:886:LEU:HA	1.92	0.42
3:D:1034:GLN:O	3:D:1037:GLN:HG3	2.19	0.42
3:D:1065:LEU:HD12	3:D:1066:THR:N	2.34	0.42
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.83	0.42
2:M:391:LEU:HD23	2:M:391:LEU:C	2.40	0.42
3:N:187:LYS:HA	3:N:187:LYS:HD3	1.87	0.42
3:D:584:ASN:HD21	3:D:589:ALA:CA	2.30	0.42
2:M:141:HIS:HB2	9:M:9692:HOH:O	2.19	0.42
2:M:455:LEU:HD12	2:M:459:ALA:HB3	2.00	0.42
2:C:137:VAL:O	2:C:391:LEU:HD21	2.20	0.42
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.33	0.42
2:M:838:LYS:CD	2:M:846:LYS:HZ3	2.33	0.42
3:N:1283:ILE:HG23	3:N:1290:LEU:HD21	2.00	0.42
3:N:1315:ASP:HB2	9:N:9493:HOH:O	2.20	0.42
3:D:93:ILE:HD12	3:D:519:VAL:HG22	2.02	0.42
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.49	0.42
2:C:833:LEU:HD11	2:C:849:VAL:HG21	2.02	0.42
3:D:1129:THR:C	3:D:1130:ARG:HD2	2.40	0.42
3:N:154:THR:HG23	3:N:157:GLU:H	1.83	0.42
1:L:116:PRO:HD3	9:L:6307:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:815:LEU:HD21	2:M:820:ARG:O	2.19	0.42
3:N:135:LEU:HD11	3:N:139:GLY:HA3	2.02	0.42
2:C:798:GLY:HA3	2:C:828:ALA:O	2.20	0.42
2:M:654:LEU:HD11	2:M:657:ASP:HA	2.00	0.42
4:O:43:GLU:H	4:O:43:GLU:CD	2.23	0.42
2:C:841:ASN:C	2:C:841:ASN:HD22	2.23	0.42
3:N:411:THR:HG23	3:N:429:SER:CB	2.49	0.42
3:N:1148:VAL:HG21	3:N:1203:LYS:HA	2.02	0.42
3:D:1463:LYS:HA	3:D:1463:LYS:HD3	1.85	0.42
2:C:559:LEU:HD23	2:C:560:MET:N	2.35	0.42
3:D:169:TYR:N	3:D:170:PRO:HD2	2.35	0.42
3:D:1041:LEU:HD23	3:D:1041:LEU:O	2.19	0.42
1:L:95:GLN:H	1:L:95:GLN:NE2	2.18	0.42
1:B:84:GLU:HG2	1:B:127:LEU:CD1	2.49	0.42
2:C:101:ILE:HG22	2:C:102:HIS:H	1.85	0.42
2:M:537:LYS:HE3	2:M:905:ILE:HD11	2.02	0.42
2:M:290:LEU:HD22	2:M:302:VAL:HG11	2.00	0.42
2:M:1008:ARG:NH1	2:M:1011:GLY:CA	2.82	0.42
3:D:23:TYR:OH	3:D:89:ARG:NE	2.53	0.42
2:M:721:ARG:HG3	2:M:721:ARG:HH11	1.85	0.42
2:M:727:PRO:HB3	9:M:2452:HOH:O	2.19	0.42
3:D:1047:LYS:HA	3:D:1053:PHE:CZ	2.55	0.42
5:F:131:VAL:CG1	5:F:181:GLU:HG3	2.48	0.42
2:M:405:ARG:HH21	2:M:409:ARG:NH2	2.18	0.42
2:M:443:THR:HG23	2:M:449:ILE:HG13	2.02	0.42
2:C:135:VAL:O	2:C:392:SER:HA	2.19	0.42
3:D:209:ARG:CZ	3:D:397:LYS:HG3	2.49	0.42
2:C:343:GLN:HA	9:C:2037:HOH:O	2.19	0.42
1:L:18:ARG:O	1:L:207:PRO:HD3	2.19	0.42
2:M:660:ALA:O	2:M:667:ALA:O	2.38	0.42
2:M:316:GLY:O	2:M:318:PRO:HD3	2.19	0.42
3:N:1459:LEU:HD22	3:N:1465:ASN:HA	2.01	0.42
3:D:1292:VAL:N	3:D:1305:LEU:HD21	2.35	0.42
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.50	0.42
2:C:420:ARG:HG2	2:C:421:GLU:N	2.34	0.42
3:D:491:LYS:HB2	9:D:9973:HOH:O	2.19	0.42
2:C:755:LEU:CD2	2:C:825:VAL:HG11	2.47	0.42
2:M:815:LEU:HD11	2:M:819:VAL:HG12	2.02	0.42
2:C:881:ASN:H	2:C:881:ASN:ND2	2.15	0.42
3:N:799:LYS:N	3:N:826:PRO:HG2	2.34	0.42
1:L:103:ALA:O	1:L:138:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:87:LYS:HD2	9:E:9516:HOH:O	2.20	0.42
3:N:115:LEU:CD1	3:N:498:VAL:HG23	2.50	0.42
1:A:7:LYS:HB2	9:A:9499:HOH:O	2.18	0.42
2:M:496:ILE:HD12	2:M:496:ILE:H	1.85	0.42
2:M:380:ALA:HA	2:M:383:ARG:CD	2.50	0.42
5:P:356:LYS:HZ1	5:P:417:LYS:HE2	1.85	0.42
2:M:1032:PHE:HD1	9:M:2368:HOH:O	2.03	0.42
1:L:85:LEU:HD12	1:L:86:VAL:N	2.35	0.42
5:P:276:ARG:HB2	9:P:4488:HOH:O	2.19	0.42
3:D:415:VAL:N	9:D:2009:HOH:O	2.51	0.42
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.42
3:D:203:ALA:HB2	9:D:9843:HOH:O	2.20	0.42
5:P:175:HIS:O	5:P:179:GLU:HG2	2.20	0.42
3:N:546:ARG:NH2	3:N:550:ARG:HH22	2.17	0.42
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.34	0.42
2:C:75:GLU:O	2:C:93:PRO:HG2	2.19	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:N	2.53	0.42
5:F:220:LEU:HB2	5:F:243:ILE:HD11	2.01	0.42
3:N:782:SER:N	3:N:785:ILE:HD13	2.34	0.42
2:M:571:LEU:HD12	2:M:701:THR:N	2.34	0.42
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.44	0.42
3:N:6:ARG:HG2	9:N:9676:HOH:O	2.19	0.42
3:D:1011:PHE:HZ	3:D:1039:CYS:SG	2.42	0.42
3:N:1317:ASP:OD2	3:N:1317:ASP:N	2.49	0.42
1:K:32:PHE:HB2	9:K:4346:HOH:O	2.20	0.42
2:M:305:PRO:HA	2:M:308:ARG:HB2	2.01	0.42
1:B:28:LEU:HB2	1:B:193:ASP:HB2	2.01	0.42
3:D:491:LYS:HG3	9:D:9655:HOH:O	2.19	0.42
5:F:326:ASP:HB2	9:F:9660:HOH:O	2.20	0.42
3:N:477:LEU:HD21	3:N:495:ARG:HD3	2.00	0.42
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.48	0.42
2:M:1059:ASP:OD2	2:M:1079:PRO:HA	2.20	0.42
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.01	0.42
2:C:599:GLU:HG2	2:C:600:ASP:H	1.84	0.42
2:M:103:LYS:HG2	9:M:9553:HOH:O	2.19	0.42
1:K:44:LEU:CD2	1:K:199:ILE:HG12	2.49	0.42
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.19	0.42
2:C:384:GLU:HA	2:C:388:ARG:HH21	1.85	0.42
3:N:828:LYS:HD3	3:N:828:LYS:N	2.34	0.42
2:C:14:PRO:HA	9:C:2347:HOH:O	2.20	0.42
2:M:495:THR:HG21	2:M:524:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:406:HIS:ND1	2:C:406:HIS:O	2.52	0.42
3:N:120:ALA:HB1	9:N:2018:HOH:O	2.20	0.42
1:K:53:VAL:HG21	1:K:82:LEU:HB3	2.01	0.42
2:C:64:LEU:HD13	2:C:359:MET:CG	2.50	0.42
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.50	0.42
2:C:466:PHE:HD2	9:C:9744:HOH:O	2.03	0.42
3:N:1423:GLY:O	3:N:1426:LYS:N	2.53	0.42
2:M:790:LEU:HD23	2:M:791:ARG:N	2.34	0.42
3:D:142:LEU:O	3:D:142:LEU:HD12	2.20	0.42
2:C:218:VAL:HG22	2:C:221:LEU:HD23	2.00	0.42
2:C:207:LEU:HD13	2:C:221:LEU:HD13	2.02	0.42
2:C:258:TYR:O	2:C:290:LEU:HG	2.20	0.42
2:C:289:THR:O	2:C:291:ALA:N	2.53	0.42
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.41	0.42
2:M:172:ILE:HD12	2:M:172:ILE:N	2.35	0.42
1:B:217:ILE:O	1:B:221:HIS:ND1	2.53	0.42
3:N:28:LYS:HD3	3:N:41:ARG:NH1	2.34	0.42
2:M:276:LYS:HE3	9:M:9970:HOH:O	2.20	0.42
3:D:15:PRO:HG3	9:D:9862:HOH:O	2.20	0.42
2:M:405:ARG:HH21	2:M:409:ARG:HH21	1.68	0.42
1:A:199:ILE:N	9:A:9498:HOH:O	2.52	0.42
3:D:634:GLY:O	3:D:637:LEU:HB3	2.19	0.42
3:D:675:ARG:HH22	5:F:420:ASP:HA	1.84	0.42
2:C:137:VAL:HG22	2:C:391:LEU:O	2.20	0.42
1:L:195:LEU:HD12	1:L:196:THR:N	2.34	0.42
2:C:1056:LYS:CD	3:D:623:VAL:HG13	2.45	0.42
3:N:450:TYR:HA	9:N:9669:HOH:O	2.18	0.42
1:A:110:LYS:HB2	9:A:9528:HOH:O	2.19	0.42
3:D:1176:LYS:HA	3:D:1179:GLU:OE1	2.19	0.42
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.94	0.42
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.82	0.42
3:D:1128:VAL:O	3:D:1129:THR:C	2.58	0.42
5:F:138:SER:HB2	5:F:140:ARG:HG2	2.02	0.42
3:D:1118:ILE:HG21	3:D:1346:ARG:CZ	2.50	0.42
1:B:132:LEU:CD1	1:B:138:LEU:HD22	2.48	0.42
5:P:340:SER:O	5:P:342:VAL:N	2.52	0.42
2:M:1050:GLN:HA	2:M:1053:LEU:HD12	2.02	0.42
2:M:841:ASN:ND2	2:M:841:ASN:C	2.73	0.42
3:N:1441:GLN:NE2	3:N:1442:ASN:HB2	2.35	0.42
3:D:992:ILE:O	3:D:995:LEU:HB3	2.20	0.42
3:D:159:ARG:HB2	3:D:159:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:742:VAL:HG12	2:C:743:VAL:H	1.84	0.42
2:M:47:ALA:O	2:M:50:GLU:HB3	2.20	0.42
2:M:591:SER:HB2	9:M:2161:HOH:O	2.18	0.42
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.35	0.42
3:D:681:ARG:NH1	9:D:2081:HOH:O	2.53	0.42
3:D:1238:MET:HE1	3:D:1257:PRO:HG3	2.02	0.41
3:D:1351:GLU:HA	3:D:1354:LYS:HG2	2.01	0.41
3:D:123:LEU:HD12	9:D:9569:HOH:O	2.19	0.41
3:D:765:SER:C	3:D:767:HIS:H	2.24	0.41
3:N:105:VAL:HG12	3:N:106:LYS:HZ1	1.85	0.41
2:C:555:ALA:HB2	3:D:1070:TYR:CE2	2.55	0.41
3:N:734:GLU:HB2	9:N:9534:HOH:O	2.19	0.41
3:D:672:ALA:HB2	9:F:9494:HOH:O	2.18	0.41
5:F:350:LEU:O	5:F:354:LEU:HB2	2.20	0.41
2:C:244:PRO:CD	2:C:245:GLY:N	2.82	0.41
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.55	0.41
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.19	0.41
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	2.02	0.41
1:K:156:HIS:HD2	1:K:157:GLY:N	2.18	0.41
5:F:370:LYS:NZ	5:F:371:LEU:HG	2.35	0.41
2:C:666:LEU:HG	2:C:668:LEU:HD11	2.02	0.41
2:M:744:ARG:HE	2:M:747:ALA:HB2	1.86	0.41
1:L:156:HIS:HE1	1:L:166:PRO:HB3	1.84	0.41
9:M:9879:HOH:O	5:P:334:PRO:HG2	2.18	0.41
3:N:63:TYR:HE1	3:N:74:GLU:OE1	2.03	0.41
2:M:525:SER:HA	9:M:2109:HOH:O	2.20	0.41
3:N:153:LEU:HD12	3:N:154:THR:N	2.35	0.41
3:N:1066:THR:HG22	3:N:1069:GLU:OE1	2.20	0.41
2:M:1044:GLY:HA3	4:O:17:TYR:CD1	2.55	0.41
4:O:54:LEU:HA	4:O:58:PRO:HG2	2.00	0.41
2:M:877:PRO:HG3	3:N:1023:MET:CE	2.49	0.41
1:B:19:GLU:O	1:B:200:TRP:HA	2.20	0.41
1:A:64:GLU:O	1:A:64:GLU:HG2	2.20	0.41
2:C:713:ARG:HH12	3:D:532:GLY:HA2	1.85	0.41
5:P:392:VAL:HG12	5:P:396:ARG:HG3	2.02	0.41
3:N:653:PHE:CE2	3:N:695:ILE:HG13	2.53	0.41
4:E:84:ARG:NH1	4:E:84:ARG:HB2	2.35	0.41
1:L:188:GLN:N	9:L:5782:HOH:O	2.53	0.41
3:N:605:ASP:HB3	9:N:9598:HOH:O	2.19	0.41
5:F:281:GLU:HB3	9:F:9529:HOH:O	2.20	0.41
3:D:683:ILE:HA	9:D:9956:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:PHE:HZ	1:A:146:ARG:HB2	1.83	0.41
3:D:1090:ASP:HA	3:D:1093:TYR:CB	2.49	0.41
3:D:1465:ASN:ND2	3:D:1470:ARG:NH1	2.66	0.41
1:A:23:PHE:O	1:A:196:THR:HA	2.19	0.41
5:F:82:ARG:HD3	9:F:9734:HOH:O	2.20	0.41
2:M:162:ILE:HG21	2:M:172:ILE:HD13	2.02	0.41
2:C:578:VAL:N	2:C:671:ASN:OD1	2.53	0.41
1:B:34:VAL:HA	9:B:9725:HOH:O	2.19	0.41
1:A:30:ARG:NH1	2:C:938:LYS:HE2	2.35	0.41
1:K:197:LEU:N	1:K:197:LEU:HD23	2.33	0.41
2:M:459:ALA:HB1	2:M:467:ILE:CG2	2.50	0.41
1:K:156:HIS:CD2	1:K:157:GLY:H	2.33	0.41
2:M:54:ILE:HG12	2:M:56:GLU:HG2	2.02	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CG	2.50	0.41
5:P:321:ILE:HG13	5:P:332:PHE:HE1	1.86	0.41
3:D:106:LYS:HD3	3:D:106:LYS:HA	1.81	0.41
3:D:983:LEU:CB	9:D:9513:HOH:O	2.68	0.41
1:K:36:LEU:HB2	1:K:195:LEU:CD2	2.50	0.41
3:D:1129:THR:O	3:D:1130:ARG:HD2	2.20	0.41
2:M:474:VAL:HG13	2:M:530:GLU:C	2.40	0.41
3:D:1294:VAL:O	3:D:1300:SER:HA	2.19	0.41
2:M:654:LEU:HD11	2:M:657:ASP:CG	2.40	0.41
3:N:481:MET:HB2	3:N:1388:ARG:HH21	1.84	0.41
1:L:177:VAL:HB	9:L:4703:HOH:O	2.20	0.41
2:C:124:ASP:OD1	2:C:125:GLY:N	2.53	0.41
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	2.00	0.41
1:K:25:LEU:C	1:K:25:LEU:HD23	2.40	0.41
2:M:260:LEU:HG	2:M:261:ILE:CG1	2.49	0.41
1:A:79:ILE:O	1:A:83:LYS:HG3	2.20	0.41
3:N:871:LYS:HB3	3:N:873:LEU:HD11	2.02	0.41
2:M:167:LYS:HE3	2:M:168:ARG:NH2	2.35	0.41
3:D:196:VAL:HG13	3:D:202:VAL:HG13	2.01	0.41
2:M:933:GLY:HA2	9:M:9889:HOH:O	2.19	0.41
2:M:398:THR:O	2:M:399:ASN:HB3	2.20	0.41
5:F:149:GLU:HA	5:F:149:GLU:OE1	2.19	0.41
3:D:953:ASP:N	3:D:953:ASP:OD2	2.54	0.41
3:N:235:ALA:HB1	9:N:9519:HOH:O	2.20	0.41
9:M:9622:HOH:O	3:N:791:TYR:HE2	2.03	0.41
1:K:57:TYR:CZ	1:K:161:ARG:HD2	2.55	0.41
1:L:44:LEU:O	1:L:174:VAL:HG21	2.18	0.41
3:N:1084:THR:HG23	9:N:9666:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:768:THR:HG23	9:C:9533:HOH:O	2.20	0.41
3:D:396:VAL:HG23	9:D:9579:HOH:O	2.20	0.41
2:C:734:LEU:HA	2:C:737:LEU:HD12	2.02	0.41
2:M:403:SER:OG	2:M:404:LEU:N	2.54	0.41
3:D:389:GLU:HG2	3:D:389:GLU:O	2.20	0.41
3:N:639:LEU:N	3:N:729:HIS:CD2	2.88	0.41
2:M:1008:ARG:HH21	2:M:1029:GLY:H	1.68	0.41
2:C:461:VAL:N	9:C:9546:HOH:O	2.53	0.41
3:D:940:THR:O	3:D:943:THR:HG23	2.20	0.41
3:D:49:ILE:HB	3:D:50:PHE:CE1	2.55	0.41
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.41
3:D:146:PRO:HA	9:D:9718:HOH:O	2.20	0.41
2:C:194:VAL:HG21	2:C:221:LEU:HA	2.01	0.41
2:M:339:LEU:HD22	2:M:391:LEU:HD13	2.02	0.41
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.87	0.41
2:C:943:VAL:HG11	2:C:973:VAL:HG22	2.03	0.41
3:N:813:LEU:HD12	3:N:814:ALA:N	2.35	0.41
2:C:145:GLY:O	2:C:163:ILE:HG23	2.20	0.41
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.19	0.41
3:N:56:TYR:HB3	9:N:2129:HOH:O	2.20	0.41
2:M:208:ALA:HA	2:M:221:LEU:HD21	2.01	0.41
2:M:211:LEU:HD13	2:M:308:ARG:HG3	2.02	0.41
5:P:303:ARG:HG2	9:P:3308:HOH:O	2.20	0.41
1:B:26:GLU:HG3	1:B:194:LYS:HZ2	1.85	0.41
3:N:1061:PHE:HE1	3:N:1065:LEU:HD23	1.85	0.41
3:N:684:LYS:HG2	9:N:2365:HOH:O	2.20	0.41
2:C:193:LEU:HB2	9:C:9507:HOH:O	2.21	0.41
2:C:185:LYS:HG2	2:C:190:LYS:HG2	2.03	0.41
2:M:498:GLN:O	2:M:532:MET:SD	2.79	0.41
3:D:1378:TYR:CD1	3:D:1378:TYR:N	2.87	0.41
2:C:769:PRO:O	2:C:772:ARG:HB3	2.20	0.41
3:N:2:LYS:HB3	3:N:3:LYS:CE	2.50	0.41
3:N:678:GLU:HG3	3:N:679:ARG:HG3	2.03	0.41
3:N:681:ARG:NH1	3:N:681:ARG:HB3	2.36	0.41
1:B:92:PRO:HA	1:B:146:ARG:CZ	2.50	0.41
5:P:364:ARG:NH1	5:P:392:VAL:HG21	2.35	0.41
5:P:163:LEU:HB3	5:P:174:LEU:HD11	2.01	0.41
3:D:468:LEU:HD22	9:D:2533:HOH:O	2.20	0.41
2:C:332:ARG:CZ	2:C:464:LEU:HD11	2.50	0.41
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.37	0.41
2:C:308:ARG:HG3	9:C:9545:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1031:ASN:O	3:D:1035:ILE:HG12	2.20	0.41
3:D:786:ILE:HD13	3:D:908:LYS:HB3	2.02	0.41
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.50	0.41
1:K:184:THR:HG23	1:K:192:LEU:CB	2.50	0.41
2:C:1020:PRO:HD2	2:C:1057:SER:OG	2.21	0.41
3:N:1352:ILE:HG22	3:N:1368:ILE:HD13	2.03	0.41
3:D:441:ARG:HG2	3:D:442:ASN:N	2.35	0.41
2:C:145:GLY:C	2:C:163:ILE:HG23	2.40	0.41
2:M:367:LEU:HD23	2:M:371:LYS:NZ	2.31	0.41
3:N:1275:SER:HB3	3:N:1325:LEU:HD11	2.01	0.41
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.80	0.41
3:N:107:ASP:O	3:N:108:VAL:C	2.59	0.41
2:M:207:LEU:HD22	2:M:221:LEU:HD13	2.02	0.41
2:M:865:THR:HA	2:M:866:PRO:HD3	1.90	0.41
2:C:239:PHE:CE1	2:C:250:ARG:HB3	2.55	0.41
5:F:115:LYS:HG2	9:F:9676:HOH:O	2.20	0.41
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.50	0.41
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.34	0.41
2:C:717:LEU:HD11	9:C:2279:HOH:O	2.20	0.41
1:L:7:LYS:HA	9:L:5355:HOH:O	2.20	0.41
3:N:196:VAL:HG13	3:N:202:VAL:HG11	2.02	0.41
2:C:3:ILE:HD13	2:C:900:ARG:HB2	2.02	0.41
3:D:984:THR:HG22	3:D:987:GLU:H	1.84	0.41
3:D:683:ILE:N	3:D:683:ILE:HD12	2.35	0.41
2:C:1019:GLN:HG2	2:C:1019:GLN:H	1.65	0.41
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.20	0.41
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.55	0.41
3:N:501:ALA:HA	3:N:504:ASP:HB2	2.02	0.41
3:D:1481:VAL:HB	9:E:9482:HOH:O	2.20	0.41
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.51	0.41
2:M:545:ASN:HB3	2:M:583:LEU:HD13	2.02	0.41
2:C:413:LEU:CD2	2:C:448:ASN:HD21	2.17	0.41
2:C:1115:LEU:CD1	2:C:1115:LEU:H	2.31	0.41
3:D:525:ARG:HA	3:D:538:SER:CB	2.51	0.41
3:D:89:ARG:HB3	9:D:9497:HOH:O	2.20	0.41
3:N:105:VAL:HG12	3:N:106:LYS:HZ2	1.86	0.41
2:C:208:ALA:HA	2:C:221:LEU:HD21	2.02	0.41
2:M:444:PRO:HD2	2:M:452:ILE:O	2.20	0.41
3:D:459:GLU:HA	9:D:9482:HOH:O	2.20	0.41
2:M:462:ASP:N	9:M:2120:HOH:O	2.54	0.41
2:C:462:ASP:CG	2:C:463:GLU:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:208:LEU:CD2	1:L:208:LEU:H	2.33	0.41
2:M:899:GLN:HG3	2:M:901:TYR:OH	2.20	0.41
3:N:444:VAL:O	3:N:446:VAL:HG23	2.20	0.41
2:C:668:LEU:O	2:C:993:PHE:CZ	2.73	0.41
5:F:256:ARG:HD3	5:F:260:ILE:HB	2.02	0.41
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.03	0.41
1:L:100:LEU:HD12	1:L:115:LEU:HD21	2.02	0.41
3:D:1319:VAL:HG11	3:D:1325:LEU:HD11	2.02	0.41
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	2.02	0.41
3:D:1379:VAL:HA	3:D:1420:LEU:CB	2.50	0.41
5:F:226:LYS:HB2	5:F:238:TYR:OH	2.20	0.41
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	2.35	0.41
5:P:290:GLU:CD	5:P:290:GLU:H	2.23	0.41
2:M:742:VAL:HG12	2:M:743:VAL:H	1.85	0.41
3:N:1263:PHE:HA	3:N:1375:MET:HE1	2.02	0.41
1:K:44:LEU:HD21	1:K:199:ILE:HG12	2.03	0.41
3:D:591:VAL:HG22	9:D:9851:HOH:O	2.18	0.41
5:F:119:ILE:HG12	9:F:9493:HOH:O	2.20	0.41
2:C:634:GLY:HA3	9:C:2295:HOH:O	2.20	0.41
3:D:1098:LEU:N	3:D:1098:LEU:HD12	2.35	0.41
3:N:1310:ARG:HB3	9:N:9491:HOH:O	2.20	0.41
1:K:59:GLU:HG3	1:K:139:ASN:HB3	2.03	0.41
1:K:211:LEU:O	1:K:214:ALA:HB3	2.20	0.41
1:K:212:ASN:O	1:K:215:VAL:HG22	2.21	0.41
1:B:123:MET:HE3	1:B:204:SER:HA	2.02	0.41
2:M:872:ASN:OD1	2:M:873:PRO:HD2	2.20	0.41
2:C:107:LEU:HB3	9:C:2236:HOH:O	2.19	0.41
5:P:151:LEU:HB2	5:P:155:THR:H	1.86	0.41
3:N:603:LEU:O	3:N:607:LEU:HD12	2.20	0.41
3:D:168:THR:O	3:D:393:ILE:N	2.52	0.41
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.50	0.41
2:C:435:TYR:C	2:C:437:ARG:H	2.24	0.41
2:C:684:PHE:HA	3:D:784:ASP:OD1	2.21	0.41
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.29	0.41
3:D:614:PHE:HB3	9:D:9835:HOH:O	2.20	0.41
2:M:172:ILE:HD12	2:M:172:ILE:H	1.84	0.41
3:D:400:VAL:HG21	3:D:441:ARG:NH1	2.28	0.41
1:L:23:PHE:HZ	1:L:207:PRO:HB2	1.86	0.41
2:C:279:GLU:HG3	2:C:280:LYS:N	2.34	0.41
2:M:367:LEU:HA	2:M:371:LYS:HB2	2.03	0.41
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1303:TYR:CD1	3:D:1325:LEU:HD23	2.56	0.41
2:M:512:ARG:HA	9:M:2109:HOH:O	2.20	0.41
1:K:28:LEU:HD11	1:K:36:LEU:HD12	2.02	0.41
3:N:943:THR:HA	9:N:9516:HOH:O	2.20	0.41
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.85	0.41
3:D:578:VAL:O	3:D:582:LEU:HD12	2.21	0.41
5:F:108:GLU:OE1	5:F:108:GLU:HA	2.20	0.41
2:C:630:ARG:NH2	2:C:707:ARG:HB2	2.36	0.41
2:C:92:ALA:HB2	9:C:2288:HOH:O	2.21	0.41
4:O:72:ARG:N	9:O:3347:HOH:O	2.53	0.41
2:C:813:VAL:HG12	9:C:9512:HOH:O	2.21	0.41
2:C:937:ASP:HB2	2:C:940:GLU:H	1.86	0.41
2:M:1032:PHE:CD2	2:M:1052:MET:HG2	2.56	0.41
2:C:1105:LYS:HD2	2:C:1107:ASN:HD21	1.86	0.41
1:K:208:LEU:O	1:K:211:LEU:HB3	2.21	0.41
1:A:121:GLU:HB3	9:A:9529:HOH:O	2.20	0.41
3:N:176:ASP:HB2	9:N:2270:HOH:O	2.19	0.41
2:M:627:ARG:HA	9:M:9521:HOH:O	2.19	0.41
1:B:81:ASN:ND2	1:B:128:HIS:O	2.54	0.41
2:C:66:LEU:HD13	2:C:100:LEU:HB2	2.03	0.41
2:C:48:PHE:HE2	9:C:9738:HOH:O	2.03	0.41
2:M:290:LEU:H	2:M:290:LEU:HD23	1.86	0.41
3:N:639:LEU:HD12	3:N:729:HIS:NE2	2.35	0.41
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.21	0.41
2:C:504:GLU:HB2	2:C:507:ARG:HB2	2.01	0.41
2:C:945:ARG:O	2:C:948:GLU:HG3	2.20	0.41
1:A:30:ARG:CZ	1:A:191:ASP:HB2	2.50	0.41
5:P:370:LYS:NZ	5:P:370:LYS:HB3	2.36	0.41
2:M:707:ARG:HH11	2:M:824:ARG:CG	2.33	0.41
2:M:775:ARG:NH1	5:P:423:ASP:O	2.54	0.41
5:F:409:LYS:HG3	5:F:410:TYR:N	2.35	0.41
2:C:710:ILE:HD11	2:C:758:ARG:HH21	1.84	0.41
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.69	0.41
2:M:31:GLN:O	2:M:34:VAL:HG23	2.21	0.41
2:M:22:GLN:O	2:M:121:MET:HE1	2.21	0.41
1:B:156:HIS:CE1	1:B:158:ILE:H	2.39	0.41
3:D:95:LEU:CD1	3:D:517:VAL:HG23	2.51	0.41
1:L:29:GLU:OE2	1:L:189:ARG:NH2	2.53	0.41
5:F:278:LEU:HB3	5:F:286:PRO:HG2	2.03	0.41
3:N:462:GLN:HE21	3:N:513:ILE:CD1	2.34	0.41
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1243:THR:HG1	3:N:1253:THR:HB	1.85	0.41
2:C:399:ASN:ND2	2:C:399:ASN:N	2.66	0.41
5:F:273:ARG:HG2	5:F:276:ARG:NH1	2.35	0.41
3:N:838:ARG:HH11	3:N:874:GLU:HB3	1.84	0.41
1:A:72:LYS:HA	2:C:608:GLY:CA	2.50	0.41
3:D:826:PRO:HB3	3:D:828:LYS:HZ3	1.85	0.41
3:N:956:ILE:HD13	3:N:960:LYS:NZ	2.36	0.41
2:C:509:ALA:HB1	9:C:9815:HOH:O	2.21	0.41
3:N:92:HIS:HA	3:N:519:VAL:HG23	2.02	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.80	0.41
2:M:1025:ALA:HA	9:M:9518:HOH:O	2.20	0.41
3:D:1348:LEU:O	3:D:1349:VAL:C	2.58	0.41
3:D:1362:LYS:HA	3:D:1362:LYS:HD3	1.93	0.41
1:K:185:ARG:HD3	9:K:4032:HOH:O	2.21	0.41
1:K:127:LEU:HD12	1:K:128:HIS:N	2.35	0.41
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.50	0.41
2:C:355:VAL:HB	9:C:9756:HOH:O	2.20	0.41
2:M:18:LEU:HD22	2:M:590:ASP:HB2	2.02	0.41
3:N:694:VAL:HG22	9:N:2371:HOH:O	2.20	0.41
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.56	0.41
3:D:553:ARG:HD3	9:F:9503:HOH:O	2.20	0.41
5:F:215:GLU:HG3	5:F:250:ALA:CB	2.51	0.41
1:B:45:LEU:HD21	1:B:177:VAL:HG13	2.02	0.41
2:C:1008:ARG:HH21	2:C:1028:GLY:CA	2.32	0.41
2:M:443:THR:OG1	2:M:444:PRO:HD2	2.19	0.41
5:P:370:LYS:HZ2	5:P:370:LYS:HB3	1.85	0.41
3:D:760:ARG:NH1	4:E:59:ASN:OD1	2.53	0.41
1:K:227:ASN:ND2	1:K:227:ASN:H	2.07	0.41
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.36	0.41
2:C:347:GLY:HA2	9:C:9903:HOH:O	2.19	0.41
3:N:400:VAL:HA	3:N:442:ASN:O	2.20	0.41
2:M:195:LEU:O	2:M:199:VAL:HG23	2.20	0.41
2:M:374:ASN:HD21	2:M:377:PRO:HD3	1.85	0.41
5:P:328:PHE:HA	5:P:328:PHE:HD2	1.77	0.41
2:C:376:ARG:HH22	5:F:285:GLU:CB	2.33	0.41
3:N:534:ARG:HD2	5:P:315:VAL:CG2	2.51	0.41
3:D:101:HIS:CE1	3:D:582:LEU:HD13	2.56	0.41
3:D:847:ASP:HA	3:D:850:LEU:HD13	2.03	0.41
3:D:482:LYS:HB3	3:D:483:HIS:ND1	2.36	0.41
2:C:881:ASN:HD22	2:C:881:ASN:N	2.07	0.41
1:A:150:TYR:CD1	2:C:696:LYS:HG2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:800:LYS:HG2	9:D:2552:HOH:O	2.20	0.41
3:D:1046:GLN:HG2	3:D:1052:THR:HG22	2.03	0.41
2:C:759:THR:HA	9:C:9930:HOH:O	2.21	0.41
3:D:107:ASP:O	3:D:108:VAL:C	2.59	0.41
2:C:472:ARG:HD2	2:C:480:THR:O	2.21	0.41
1:B:22:GLU:HG2	1:B:198:ARG:CG	2.51	0.41
3:N:1053:PHE:HD2	9:N:9968:HOH:O	2.02	0.41
5:P:309:LYS:HA	5:P:312:GLN:NE2	2.35	0.41
1:B:106:PRO:HG3	1:B:134:GLU:CD	2.40	0.41
1:B:44:LEU:HD23	1:B:48:ILE:HD12	2.03	0.41
1:K:86:VAL:HG12	1:K:124:ASN:HB2	2.02	0.41
2:C:438:ILE:HG22	2:C:439:CYS:O	2.21	0.41
2:M:1064:ASN:ND2	5:P:344:ALA:HB2	2.36	0.41
5:F:324:GLU:HA	9:F:9742:HOH:O	2.21	0.41
1:B:165:ILE:HG12	9:B:9537:HOH:O	2.20	0.41
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.21	0.41
3:N:178:LEU:HD11	9:N:9572:HOH:O	2.21	0.41
9:N:2443:HOH:O	5:P:337:HIS:HA	2.20	0.41
5:P:337:HIS:H	5:P:337:HIS:HD2	1.68	0.41
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.51	0.41
4:E:26:ARG:NH1	4:E:29:GLN:NE2	2.68	0.41
2:C:127:PHE:HE1	2:C:386:PHE:HE2	1.68	0.41
2:C:129:ILE:HB	2:C:134:ARG:HG3	2.01	0.41
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.56	0.41
3:D:1047:LYS:HD2	3:D:1051:GLU:OE1	2.21	0.41
2:C:862:PRO:CG	2:C:975:TYR:HE1	2.34	0.41
2:M:172:ILE:HA	2:M:185:LYS:O	2.20	0.41
5:F:79:ASP:HB3	5:F:80:PRO:HD2	2.02	0.41
1:A:184:THR:HG23	1:A:192:LEU:CB	2.49	0.41
3:N:1106:VAL:HA	9:N:9633:HOH:O	2.21	0.41
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.51	0.41
2:C:597:ALA:O	2:C:652:GLY:N	2.54	0.41
3:D:399:ARG:HG3	9:D:9991:HOH:O	2.21	0.41
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.56	0.41
2:M:911:GLU:O	2:M:914:ILE:HG22	2.21	0.41
3:D:653:PHE:CD1	3:D:653:PHE:N	2.86	0.41
3:D:704:ARG:CB	3:D:736:PHE:HB3	2.51	0.41
3:D:441:ARG:O	3:D:443:VAL:HG23	2.21	0.41
3:N:44:LEU:HG	9:N:9808:HOH:O	2.19	0.41
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.51	0.41
2:M:669:GLY:C	2:M:670:GLN:HG2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:31:THR:HG21	3:N:527:MET:CE	2.51	0.41
3:N:400:VAL:C	3:N:402:PRO:HD3	2.42	0.41
5:F:362:SER:C	5:F:364:ARG:H	2.23	0.41
2:M:64:LEU:HD22	2:M:359:MET:SD	2.61	0.41
3:D:890:VAL:HG13	3:D:926:LYS:HD3	2.03	0.41
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.35	0.41
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.21	0.41
3:D:1221:VAL:O	3:D:1222:GLY:C	2.58	0.41
3:D:806:PHE:O	3:D:807:ALA:C	2.59	0.41
3:D:1325:LEU:C	9:D:2444:HOH:O	2.58	0.41
3:D:1171:VAL:HG12	3:D:1171:VAL:O	2.21	0.41
5:P:409:LYS:HE3	5:P:410:TYR:HD1	1.85	0.41
3:D:1376:MET:HE3	3:D:1421:LEU:HA	2.02	0.41
2:M:492:ASP:HB3	2:M:518:LYS:HG2	2.02	0.41
2:C:881:ASN:N	2:C:881:ASN:ND2	2.69	0.41
1:B:103:ALA:HB1	1:B:107:LYS:CD	2.51	0.41
2:C:378:LEU:O	2:C:382:ILE:HG13	2.21	0.41
2:C:176:VAL:O	2:C:178:PRO:HD3	2.20	0.41
2:C:29:ALA:HB2	2:C:337:GLY:HA2	2.01	0.41
3:N:1154:GLU:HG3	3:N:1159:ARG:HG2	2.02	0.41
3:D:1060:SER:O	3:D:1063:GLU:O	2.39	0.41
3:D:1299:PHE:N	3:D:1299:PHE:HD2	2.19	0.41
3:N:179:VAL:HG23	9:N:9797:HOH:O	2.21	0.41
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.51	0.41
1:A:156:HIS:HE1	1:A:167:VAL:O	2.03	0.41
2:M:798:GLY:HA3	2:M:828:ALA:O	2.20	0.41
3:D:967:ALA:HB2	9:D:2079:HOH:O	2.21	0.41
1:B:12:THR:OG1	1:B:24:VAL:HB	2.21	0.41
3:D:156:GLU:O	3:D:159:ARG:HB3	2.21	0.41
2:C:593:ALA:HB1	2:C:658:GLY:HA3	2.02	0.41
2:C:242:LEU:HD23	2:C:242:LEU:HA	1.92	0.41
1:B:219:ARG:HD3	9:B:9524:HOH:O	2.20	0.41
1:K:30:ARG:HG2	9:K:4745:HOH:O	2.21	0.41
2:M:132:ALA:HA	9:M:2436:HOH:O	2.20	0.41
2:M:808:ARG:NH1	2:M:808:ARG:HG2	2.35	0.41
2:M:352:ALA:C	2:M:355:VAL:HG12	2.41	0.41
3:D:818:ARG:HD2	9:D:9809:HOH:O	2.20	0.41
2:C:745:ILE:HD12	9:C:2126:HOH:O	2.21	0.41
3:D:1156:LEU:HD21	3:D:1177:ALA:HA	2.02	0.41
1:K:102:LYS:HD2	9:K:3447:HOH:O	2.19	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:471:TYR:HD2	2:C:533:ASP:HA	1.85	0.41
3:N:827:ILE:HB	3:N:828:LYS:HD3	2.02	0.41
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	2.02	0.41
5:F:227:PHE:CZ	5:F:229:TYR:HA	2.56	0.41
3:D:1480:PHE:HE2	9:E:9493:HOH:O	2.04	0.41
3:D:1143:GLY:HA2	9:D:9689:HOH:O	2.20	0.41
3:N:223:LEU:N	3:N:365:ASP:O	2.50	0.41
3:D:53:ILE:O	3:D:53:ILE:HG12	2.20	0.41
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.21	0.41
2:M:917:LEU:HD12	9:M:2374:HOH:O	2.19	0.41
4:E:90:GLU:HB3	9:E:9562:HOH:O	2.20	0.41
2:M:854:PRO:O	2:M:856:GLU:N	2.54	0.41
1:A:135:GLY:HA2	9:A:9515:HOH:O	2.20	0.41
3:D:60:CYS:HA	9:D:2600:HOH:O	2.20	0.41
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.84	0.41
5:P:151:LEU:O	5:P:155:THR:HB	2.21	0.41
3:D:393:ILE:N	3:D:393:ILE:HD12	2.31	0.41
3:N:1425:THR:CG2	3:N:1426:LYS:H	2.33	0.41
3:D:606:ILE:O	3:D:613:ARG:HB2	2.21	0.41
5:F:317:LEU:HD23	5:F:317:LEU:O	2.21	0.41
3:N:125:GLN:NE2	3:N:587:ARG:HH21	2.16	0.41
3:D:27:GLU:HG3	3:D:27:GLU:O	2.20	0.41
2:C:91:GLN:HA	2:C:119:PRO:HA	2.03	0.41
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.48	0.41
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.52	0.41
3:D:629:SER:HB3	3:D:726:ILE:HD11	2.03	0.41
2:C:660:ALA:O	2:C:667:ALA:HB3	2.21	0.41
2:M:78:PHE:CB	2:M:88:LEU:HD21	2.49	0.41
9:M:9830:HOH:O	5:P:354:LEU:HD12	2.21	0.41
5:F:408:LEU:HA	5:F:411:HIS:ND1	2.36	0.41
1:K:19:GLU:O	1:K:200:TRP:HA	2.20	0.41
3:N:965:GLU:HB2	9:N:2437:HOH:O	2.19	0.41
3:D:645:PRO:HB3	3:D:723:GLY:O	2.21	0.41
2:M:512:ARG:HD3	2:M:523:ILE:HD11	2.01	0.41
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.50	0.41
2:C:722:ILE:HG23	2:C:805:ARG:NH2	2.36	0.41
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.46	0.41
2:C:1039:ALA:HB2	3:D:707:THR:HG21	2.02	0.41
5:F:399:GLN:HB3	9:F:9591:HOH:O	2.19	0.41
2:C:605:LYS:HG2	2:C:612:VAL:HB	2.03	0.41
2:M:739:GLU:HG3	9:M:9499:HOH:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:115:LYS:HD3	5:F:118:GLU:OE2	2.21	0.41
4:O:73:LEU:N	9:O:3347:HOH:O	2.54	0.41
3:N:1503:VAL:HG13	9:N:2327:HOH:O	2.20	0.41
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.03	0.41
2:C:585:GLU:HB2	9:C:2332:HOH:O	2.21	0.41
2:C:958:THR:CG2	2:C:961:GLU:HG2	2.50	0.41
2:C:51:THR:O	2:C:51:THR:HG22	2.21	0.41
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.86	0.41
5:F:244:ARG:HB2	5:F:244:ARG:HH11	1.86	0.41
3:D:683:ILE:H	3:D:683:ILE:HD12	1.86	0.41
1:K:185:ARG:O	1:K:185:ARG:HD2	2.21	0.41
2:C:878:SER:HB3	3:D:1029:ARG:NH1	2.35	0.41
4:O:42:PRO:HD3	9:O:4549:HOH:O	2.19	0.41
3:N:1335:LEU:HD21	3:N:1343:ALA:CB	2.51	0.41
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.21	0.40
3:N:53:ILE:HB	3:N:86:ARG:HD3	2.02	0.40
3:N:550:ARG:NE	9:N:9529:HOH:O	2.54	0.40
3:N:731:LEU:CD1	3:N:931:LEU:HB3	2.51	0.40
2:C:333:ILE:HD11	2:C:467:ILE:HG13	2.02	0.40
2:C:479:VAL:HG23	2:C:506:ASN:CA	2.51	0.40
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.57	0.40
3:N:40:GLU:OE1	3:N:40:GLU:HA	2.21	0.40
2:M:276:LYS:CD	2:M:276:LYS:H	2.32	0.40
3:N:134:VAL:HG12	3:N:152:LEU:HB3	2.03	0.40
2:C:396:ASP:O	2:C:403:SER:N	2.54	0.40
3:N:706:PRO:HA	9:N:9787:HOH:O	2.21	0.40
2:M:418:LEU:HD12	2:M:418:LEU:H	1.86	0.40
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.02	0.40
3:D:836:VAL:HA	3:D:839:LEU:HB2	2.04	0.40
3:N:881:LEU:HD12	9:N:9868:HOH:O	2.20	0.40
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.84	0.40
1:B:89:PHE:HD1	1:B:120:VAL:HG13	1.85	0.40
1:B:191:ASP:OD1	1:B:191:ASP:N	2.55	0.40
2:C:1102:LEU:HD23	2:C:1106:ASP:C	2.42	0.40
2:C:1002:GLU:HA	2:C:1006:HIS:CE1	2.56	0.40
3:N:1065:LEU:HD12	3:N:1066:THR:N	2.37	0.40
4:E:36:LYS:HD3	4:E:36:LYS:HA	1.82	0.40
3:N:1128:VAL:O	3:N:1129:THR:C	2.58	0.40
2:C:252:LYS:HZ3	2:C:296:GLY:HA3	1.85	0.40
2:M:900:ARG:NE	9:M:2073:HOH:O	2.54	0.40
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.21	0.40
3:N:1346:ARG:HG2	9:N:9698:HOH:O	2.21	0.40
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.21	0.40
2:M:1105:LYS:O	2:M:1107:ASN:N	2.54	0.40
2:M:654:LEU:HD21	2:M:657:ASP:OD2	2.20	0.40
3:N:838:ARG:HG2	3:N:865:THR:OG1	2.22	0.40
1:L:110:LYS:NZ	1:L:110:LYS:HB2	2.36	0.40
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.33	0.40
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.51	0.40
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.51	0.40
3:D:769:LEU:HD12	3:D:769:LEU:N	2.36	0.40
3:N:980:MET:HB3	3:N:982:PHE:CE1	2.56	0.40
3:D:912:LYS:HE3	9:D:2356:HOH:O	2.21	0.40
1:L:86:VAL:O	1:L:86:VAL:HG13	2.20	0.40
2:M:5:ARG:H	2:M:5:ARG:HG3	1.77	0.40
3:D:34:TYR:O	3:D:37:LEU:HD23	2.21	0.40
5:F:336:GLU:HB2	9:F:9817:HOH:O	2.21	0.40
5:F:105:LYS:HE2	5:F:179:GLU:O	2.21	0.40
1:K:46:SER:HA	9:K:5849:HOH:O	2.21	0.40
2:C:307:LEU:HG	2:C:311:PHE:CE2	2.56	0.40
3:N:702:LEU:HD23	3:N:716:PHE:CD1	2.55	0.40
5:P:147:LEU:HG	9:P:3632:HOH:O	2.20	0.40
3:N:1362:LYS:HB3	9:N:9810:HOH:O	2.21	0.40
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.54	0.40
2:C:70:GLU:N	9:C:9625:HOH:O	2.53	0.40
3:N:927:THR:O	3:N:931:LEU:HG	2.21	0.40
3:D:603:LEU:HA	3:D:606:ILE:HG13	2.03	0.40
2:C:379:GLU:HG3	9:C:2275:HOH:O	2.20	0.40
3:D:1047:LYS:HD2	3:D:1051:GLU:CD	2.42	0.40
2:M:129:ILE:HD12	2:M:129:ILE:N	2.36	0.40
2:M:408:ARG:O	2:M:454:SER:HB2	2.21	0.40
3:N:1379:VAL:HA	3:N:1420:LEU:CB	2.50	0.40
1:A:179:PHE:HD2	9:A:9593:HOH:O	2.03	0.40
2:M:771:GLU:HB2	9:P:5420:HOH:O	2.21	0.40
2:C:267:TYR:N	2:C:267:TYR:CD2	2.89	0.40
2:C:265:ARG:HD3	2:C:267:TYR:HB3	2.04	0.40
3:N:1295:GLU:HB2	3:N:1300:SER:OG	2.22	0.40
3:N:849:ALA:O	3:N:853:VAL:HG23	2.21	0.40
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.56	0.40
3:N:809:PRO:O	3:N:812:ALA:HB3	2.21	0.40
3:D:1432:LYS:HZ3	3:D:1460:ILE:HG13	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:605:LYS:CG	2:C:612:VAL:HB	2.52	0.40
1:A:150:TYR:HD1	2:C:696:LYS:HG2	1.87	0.40
1:B:101:LEU:HB2	1:B:114:PHE:CE2	2.56	0.40
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.21	0.40
3:N:502:PHE:CD1	3:N:509:PRO:HB3	2.56	0.40
1:K:34:VAL:HG23	9:K:3503:HOH:O	2.20	0.40
3:D:31:THR:HB	3:D:32:ILE:H	1.63	0.40
5:F:421:PHE:C	5:F:423:ASP:N	2.73	0.40
3:N:463:GLN:HE21	3:N:463:GLN:HA	1.86	0.40
1:L:105:GLY:O	1:L:132:LEU:HB3	2.21	0.40
2:M:547:ILE:HA	2:M:548:PRO:HD3	1.90	0.40
3:N:471:GLU:HG2	9:N:2578:HOH:O	2.21	0.40
2:M:942:GLU:O	2:M:945:ARG:HB3	2.21	0.40
2:C:2:GLU:HG2	9:C:9602:HOH:O	2.21	0.40
2:C:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.40
2:C:1068:GLU:HG2	9:C:2111:HOH:O	2.21	0.40
3:N:1043:GLY:N	9:N:9654:HOH:O	2.53	0.40
5:P:155:THR:HG22	5:P:156:VAL:N	2.35	0.40
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	2.03	0.40
2:C:677:MET:CE	2:C:983:ILE:HD13	2.51	0.40
3:D:1026:SER:C	3:D:1028:ALA:N	2.75	0.40
3:N:1264:GLU:HG2	3:N:1266:ARG:CZ	2.51	0.40
2:C:258:TYR:HD2	9:C:2316:HOH:O	2.04	0.40
2:M:163:ILE:HB	2:M:171:TRP:CZ2	2.56	0.40
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.57	0.40
3:D:671:LYS:N	9:D:9547:HOH:O	2.46	0.40
3:D:1097:LYS:NZ	9:D:9536:HOH:O	2.53	0.40
3:D:1264:GLU:HG2	3:D:1266:ARG:HH21	1.86	0.40
2:C:1055:LEU:CD2	2:C:1079:PRO:HG3	2.51	0.40
3:D:929:ARG:HB3	9:D:2176:HOH:O	2.21	0.40
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.86	0.40
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.49	0.40
2:M:109:LYS:HE2	9:M:2096:HOH:O	2.21	0.40
2:C:1039:ALA:HB2	3:D:707:THR:CG2	2.51	0.40
2:C:732:ALA:HB2	9:C:9752:HOH:O	2.21	0.40
3:D:770:LEU:HB2	3:D:1210:SER:O	2.21	0.40
3:D:1432:LYS:CG	3:D:1433:SER:N	2.83	0.40
2:M:200:LEU:HD22	2:M:300:ASP:OD1	2.21	0.40
3:N:866:VAL:HG12	3:N:867:ARG:N	2.37	0.40
3:N:1192:LEU:HD13	3:N:1345:GLU:HB3	2.03	0.40
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:642:ARG:HG2	2:M:642:ARG:HH11	1.86	0.40
3:N:8:VAL:HG12	3:N:9:ARG:N	2.37	0.40
1:K:152:PRO:HB3	2:M:832:LYS:NZ	2.36	0.40
2:M:693:GLU:HA	2:M:693:GLU:OE1	2.21	0.40
1:K:106:PRO:HB3	9:K:3754:HOH:O	2.20	0.40
3:N:823:LEU:N	3:N:823:LEU:HD23	2.36	0.40
2:C:140:ILE:HD12	2:C:140:ILE:H	1.86	0.40
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	2.03	0.40
1:L:30:ARG:HG2	1:L:30:ARG:HH11	1.86	0.40
3:D:1238:MET:CE	3:D:1257:PRO:HG3	2.50	0.40
3:D:1258:ARG:HE	3:D:1351:GLU:HG3	1.86	0.40
2:C:54:ILE:HG12	2:C:56:GLU:HG2	2.03	0.40
3:N:210:ARG:O	3:N:394:LEU:O	2.40	0.40
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	2.02	0.40
3:N:1166:LEU:HD12	3:N:1171:VAL:CG2	2.50	0.40
5:P:210:LEU:HA	5:P:213:ILE:HD12	2.03	0.40
2:M:126:SER:HB3	2:M:395:LYS:NZ	2.37	0.40
1:B:62:LEU:HG	1:B:163:ASN:CG	2.41	0.40
3:D:1037:GLN:OE1	3:D:1042:ARG:NE	2.53	0.40
3:D:1066:THR:HG22	3:D:1069:GLU:H	1.86	0.40
5:F:85:LEU:HA	9:F:9492:HOH:O	2.21	0.40
3:N:562:ALA:HB1	3:N:567:ILE:HD11	2.02	0.40
5:P:215:GLU:OE2	5:P:254:GLN:NE2	2.53	0.40
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.50	0.40
5:P:408:LEU:HA	5:P:411:HIS:CE1	2.55	0.40
2:M:1046:ALA:HB3	3:N:1476:THR:HG22	2.02	0.40
1:A:19:GLU:O	1:A:200:TRP:HA	2.21	0.40
3:N:1133:ARG:HG2	3:N:1134:LEU:N	2.36	0.40
2:M:230:ARG:HA	2:M:231:PRO:HD3	1.80	0.40
1:K:23:PHE:HB2	1:K:197:LEU:HD23	2.03	0.40
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	2.03	0.40
2:C:916:GLU:O	2:C:919:ALA:HB3	2.22	0.40
2:M:602:GLU:HB3	9:M:9999:HOH:O	2.21	0.40
3:D:598:ARG:HD3	5:F:320:PRO:HD3	2.03	0.40
3:N:867:ARG:NH1	9:N:9942:HOH:O	2.54	0.40
2:M:323:ASP:HA	9:M:9868:HOH:O	2.21	0.40
2:C:34:VAL:HB	2:C:38:LYS:HG3	2.02	0.40
3:D:659:LYS:HD3	3:D:659:LYS:C	2.41	0.40
2:M:1030:GLN:CB	3:N:626:SER:HB2	2.52	0.40
2:C:1069:ALA:HA	9:C:2111:HOH:O	2.21	0.40
2:M:410:ILE:HD12	2:M:410:ILE:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:343:ASP:O	5:F:346:THR:HB	2.21	0.40
3:D:1000:THR:CG2	3:D:1001:GLU:N	2.84	0.40
3:D:742:GLY:HA3	9:D:9931:HOH:O	2.22	0.40
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.80	0.40
3:D:396:VAL:HG22	9:D:9613:HOH:O	2.20	0.40
5:P:179:GLU:HG3	9:P:5874:HOH:O	2.21	0.40
2:C:1016:ILE:CD1	3:D:526:PRO:HG2	2.52	0.40
2:M:979:THR:HG23	2:M:981:GLU:N	2.19	0.40
5:F:194:LEU:H	5:F:194:LEU:CD2	2.34	0.40
2:C:1008:ARG:HH22	2:C:1021:LEU:C	2.25	0.40
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.89	0.40
3:D:566:ILE:HG13	5:F:192:LEU:HD11	2.04	0.40
5:P:361:LEU:HD12	5:P:408:LEU:HG	2.03	0.40
2:C:527:GLU:HB3	9:C:9801:HOH:O	2.21	0.40
3:D:1423:GLY:O	3:D:1426:LYS:N	2.54	0.40
2:M:728:HIS:HE1	2:M:775:ARG:HH12	1.68	0.40
3:D:704:ARG:HB2	3:D:736:PHE:HB3	2.02	0.40
1:L:152:PRO:HG2	3:N:857:ILE:HD12	2.03	0.40
3:N:1280:VAL:HG12	3:N:1281:VAL:H	1.86	0.40
2:M:285:LEU:HG	2:M:287:GLY:O	2.21	0.40
3:D:1497:GLU:OE1	3:D:1500:LYS:HD2	2.22	0.40
3:D:3:LYS:CD	3:D:3:LYS:H	2.34	0.40
1:K:217:ILE:H	1:K:217:ILE:HG13	1.70	0.40
4:E:17:TYR:N	4:E:17:TYR:HD2	2.17	0.40
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.66	0.40
3:D:52:PRO:HG3	3:D:78:VAL:HG13	2.03	0.40
3:D:169:TYR:HA	3:D:392:SER:CB	2.52	0.40
3:D:1362:LYS:HB3	9:D:9652:HOH:O	2.22	0.40
3:N:1320:GLU:HG2	3:N:1339:LYS:NZ	2.36	0.40
3:N:1422:MET:CE	3:N:1427:SER:HA	2.52	0.40
3:D:773:ALA:HB2	3:D:1228:SER:HB3	2.04	0.40
2:M:44:ILE:HA	9:M:2405:HOH:O	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	8	13
1	B	227/315 (72%)	198 (87%)	23 (10%)	6 (3%)	7	10
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	11	18
1	L	227/315 (72%)	203 (89%)	20 (9%)	4 (2%)	11	18
2	C	1117/1119 (100%)	907 (81%)	157 (14%)	53 (5%)	3	3
2	M	1117/1119 (100%)	906 (81%)	158 (14%)	53 (5%)	3	3
3	D	1388/1524 (91%)	1108 (80%)	207 (15%)	73 (5%)	2	2
3	N	1388/1524 (91%)	1105 (80%)	208 (15%)	75 (5%)	2	2
4	E	93/99 (94%)	75 (81%)	15 (16%)	3 (3%)	5	6
4	O	93/99 (94%)	75 (81%)	15 (16%)	3 (3%)	5	6
5	F	341/423 (81%)	285 (84%)	38 (11%)	18 (5%)	2	2
5	P	341/423 (81%)	287 (84%)	38 (11%)	16 (5%)	3	3
All	All	6786/7590 (89%)	5550 (82%)	923 (14%)	313 (5%)	3	3

All (313) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	262	ALA
2	C	288	ARG
2	C	290	LEU
2	C	422	ARG
2	C	462	ASP
2	C	465	GLY
2	C	548	PRO
2	C	680	ASP
2	C	864	GLY
2	C	908	GLY
2	C	1004	LYS

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Mol	Chain	Res	Type
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	381	ALA
3	D	385	VAL
3	D	440	VAL
3	D	504	ASP
3	D	705	ALA
3	D	766	ALA
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1243	THR
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	324	GLU
5	F	341	PRO
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	288	ARG
2	M	290	LEU
2	M	422	ARG

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Mol	Chain	Res	Type
2	M	462	ASP
2	M	465	GLY
2	M	680	ASP
2	M	864	GLY
2	M	908	GLY
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	82	LYS
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	381	ALA
3	N	385	VAL
3	N	440	VAL
3	N	504	ASP
3	N	705	ALA
3	N	766	ALA
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1243	THR
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO
5	P	324	GLU
5	P	390	PHE
1	A	187	GLY
1	B	187	GLY
2	C	18	LEU
2	C	59	LYS
2	C	156	GLY

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Mol	Chain	Res	Type
2	C	170	PRO
2	C	261	ILE
2	C	363	SER
2	C	369	PRO
2	C	626	ARG
2	C	627	ARG
2	C	1106	ASP
3	D	96	ALA
3	D	98	PRO
3	D	165	LYS
3	D	220	ARG
3	D	231	VAL
3	D	417	PRO
3	D	594	PRO
3	D	609	GLY
3	D	783	ARG
3	D	803	GLY
3	D	822	ALA
3	D	1020	LEU
4	E	53	GLY
5	F	326	ASP
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	363	SER
2	M	369	PRO
2	M	413	LEU
2	M	447	ALA
2	M	548	PRO
2	M	626	ARG
2	M	1106	ASP
3	N	31	THR
3	N	37	LEU
3	N	98	PRO
3	N	165	LYS
3	N	220	ARG
3	N	417	PRO
3	N	594	PRO
3	N	609	GLY
3	N	783	ARG
3	N	803	GLY

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Mol	Chain	Res	Type
3	N	822	ALA
4	O	53	GLY
5	P	326	ASP
5	P	341	PRO
1	A	106	PRO
1	A	188	GLN
1	B	106	PRO
2	C	74	GLY
2	C	164	PRO
2	C	251	ASP
2	C	273	GLY
2	C	447	ALA
2	C	517	ARG
2	C	727	PRO
2	C	783	ARG
2	C	1007	ALA
3	D	31	THR
3	D	37	LEU
3	D	120	ALA
3	D	170	PRO
3	D	424	GLY
3	D	451	ASP
3	D	1248	GLY
3	D	1286	THR
3	D	1349	VAL
5	F	288	TYR
5	F	420	ASP
1	L	106	PRO
2	M	74	GLY
2	M	164	PRO
2	M	170	PRO
2	M	251	ASP
2	M	423	ALA
2	M	517	ARG
2	M	529	VAL
2	M	627	ARG
2	M	727	PRO
3	N	96	ALA
3	N	120	ALA
3	N	170	PRO
3	N	231	VAL
3	N	424	GLY

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Mol	Chain	Res	Type
3	N	530	VAL
3	N	1338	ALA
3	N	1349	VAL
3	N	1389	LEU
5	P	232	ARG
5	P	288	TYR
5	P	420	ASP
2	C	180	GLY
2	C	400	PRO
2	C	413	LEU
2	C	781	LYS
2	C	1097	LEU
3	D	46	ASP
3	D	415	VAL
3	D	416	ALA
3	D	509	PRO
3	D	522	PRO
3	D	530	VAL
3	D	1338	ALA
3	D	1385	GLY
3	D	1389	LEU
5	F	232	ARG
5	F	286	PRO
5	F	297	PRO
5	F	329	TYR
5	F	393	THR
1	K	106	PRO
2	M	180	GLY
2	M	223	ASP
2	M	273	GLY
2	M	455	LEU
2	M	781	LYS
2	M	1007	ALA
2	M	1097	LEU
3	N	24	GLY
3	N	415	VAL
3	N	416	ALA
3	N	451	ASP
3	N	509	PRO
3	N	522	PRO
3	N	782	SER
3	N	1019	PRO

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Mol	Chain	Res	Type
3	N	1064	GLY
3	N	1248	GLY
3	N	1385	GLY
5	P	286	PRO
5	P	297	PRO
1	B	188	GLN
2	C	399	ASN
2	C	529	VAL
2	C	905	ILE
3	D	24	GLY
3	D	161	LEU
3	D	808	THR
3	D	1019	PRO
3	D	1064	GLY
3	D	1213	ARG
3	D	1241	PHE
3	D	1315	ASP
3	D	1379	VAL
5	F	97	GLU
5	F	416	ARG
2	M	18	LEU
3	N	161	LEU
3	N	533	GLY
3	N	808	THR
3	N	1241	PHE
3	N	1286	THR
3	N	1315	ASP
3	N	1341	PRO
5	P	184	ARG
5	P	393	THR
1	B	9	PRO
2	C	79	PRO
2	C	779	GLY
3	D	425	GLY
3	D	782	SER
3	D	1288	GLU
5	F	167	PRO
5	F	293	GLU
2	M	79	PRO
2	M	705	ILE
2	M	779	GLY
2	M	1059	ASP

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Mol	Chain	Res	Type
3	N	1213	ARG
3	N	1390	LEU
5	P	416	ARG
2	C	424	GLY
3	D	368	VAL
3	D	1306	PRO
1	K	9	PRO
2	M	399	ASN
3	N	368	VAL
3	N	425	GLY
5	P	167	PRO
1	A	9	PRO
2	C	1076	VAL
3	D	1446	VAL
1	L	9	PRO
2	M	646	GLY
3	N	173	PRO
3	N	1306	PRO
3	N	1379	VAL
3	N	1446	VAL
5	P	314	PRO
3	D	136	ASP
2	M	767	PRO
2	M	905	ILE
2	M	1076	VAL
2	C	53	PRO
2	C	835	VAL
3	D	173	PRO
3	D	781	PRO
2	M	17	PRO
2	M	415	PRO
3	N	136	ASP
3	N	169	TYR
3	N	1268	PRO
2	C	17	PRO
2	C	377	PRO
2	C	646	GLY
2	C	767	PRO
3	D	526	PRO
5	F	314	PRO
2	M	377	PRO
2	C	166	PRO

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Mol	Chain	Res	Type
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.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	159 (79%)	43 (21%)	1	2
1	B	202/273 (74%)	161 (80%)	41 (20%)	1	2
1	K	202/273 (74%)	158 (78%)	44 (22%)	1	2
1	L	202/273 (74%)	160 (79%)	42 (21%)	1	2
2	C	941/941 (100%)	714 (76%)	227 (24%)	1	1
2	M	941/941 (100%)	738 (78%)	203 (22%)	1	2
3	D	1123/1279 (88%)	868 (77%)	255 (23%)	1	1
3	N	1123/1279 (88%)	871 (78%)	252 (22%)	1	1
4	E	83/87 (95%)	62 (75%)	21 (25%)	1	1
4	O	83/87 (95%)	65 (78%)	18 (22%)	1	2
5	F	295/370 (80%)	233 (79%)	62 (21%)	1	2
5	P	295/370 (80%)	246 (83%)	49 (17%)	3	5
All	All	5692/6446 (88%)	4435 (78%)	1257 (22%)	1	2

All (1257) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	16	GLN
1	A	20	TYR
1	A	26	GLU
1	A	44	LEU

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Mol	Chain	Res	Type
1	A	45	LEU
1	A	47	SER
1	A	66	SER
1	A	73	GLU
1	A	74	ASP
1	A	89	PHE
1	A	96	THR
1	A	101	LEU
1	A	104	GLU
1	A	112	ARG
1	A	115	LEU
1	A	121	GLU
1	A	127	LEU
1	A	133	GLU
1	A	137	ARG
1	A	161	ARG
1	A	163	ASN
1	A	167	VAL
1	A	170	VAL
1	A	184	THR
1	A	186	LEU
1	A	188	GLN
1	A	190	THR
1	A	191	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG
1	A	205	VAL
1	A	206	THR
1	A	208	LEU
1	A	211	LEU
1	A	223	THR
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	5	LYS
1	B	7	LYS
1	B	9	PRO
1	B	26	GLU
1	B	30	ARG
1	B	41	ARG
1	B	60	ASP

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Mol	Chain	Res	Type
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	80	LEU
1	B	88	ARG
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	101	LEU
1	B	112	ARG
1	B	121	GLU
1	B	124	ASN
1	B	128	HIS
1	B	133	GLU
1	B	140	MET
1	B	141	GLU
1	B	146	ARG
1	B	159	LYS
1	B	162	ILE
1	B	189	ARG
1	B	190	THR
1	B	193	ASP
1	B	196	THR
1	B	197	LEU
1	B	200	TRP
1	B	206	THR
1	B	208	LEU
1	B	209	GLU
1	B	213	GLN
1	B	224	TYR
2	C	1	MET
2	C	5	ARG
2	C	8	ARG
2	C	10	ARG
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN

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Mol	Chain	Res	Type
2	C	34	VAL
2	C	37	GLU
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	81	ASP
2	C	82	GLU
2	C	87	ASP
2	C	95	TYR
2	C	98	LEU
2	C	99	GLN
2	C	100	LEU
2	C	104	ASP
2	C	110	GLU
2	C	114	PHE
2	C	115	LEU
2	C	133	ASP
2	C	135	VAL
2	C	137	VAL
2	C	139	GLN
2	C	140	ILE
2	C	141	HIS
2	C	144	PRO
2	C	149	THR
2	C	150	PRO
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	161	SER
2	C	163	ILE
2	C	168	ARG
2	C	170	PRO
2	C	178	PRO
2	C	194	VAL
2	C	196	LEU
2	C	198	ARG
2	C	205	GLU
2	C	221	LEU
2	C	222	MET
2	C	223	ASP
2	C	229	MET
2	C	237	ARG

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Mol	Chain	Res	Type
2	C	238	LEU
2	C	252	LYS
2	C	254	VAL
2	C	257	VAL
2	C	267	TYR
2	C	268	ASP
2	C	275	TYR
2	C	279	GLU
2	C	285	LEU
2	C	286	SER
2	C	290	LEU
2	C	292	ARG
2	C	297	GLU
2	C	303	PHE
2	C	304	LEU
2	C	308	ARG
2	C	309	TYR
2	C	321	GLU
2	C	323	ASP
2	C	332	ARG
2	C	340	MET
2	C	342	ASP
2	C	343	GLN
2	C	350	ARG
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	364	GLU
2	C	365	ASP
2	C	367	LEU
2	C	376	ARG
2	C	379	GLU
2	C	383	ARG
2	C	384	GLU
2	C	388	ARG
2	C	392	SER
2	C	393	GLN
2	C	394	PHE
2	C	399	ASN
2	C	400	PRO
2	C	408	ARG
2	C	413	LEU

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Mol	Chain	Res	Type
2	C	419	THR
2	C	420	ARG
2	C	421	GLU
2	C	422	ARG
2	C	425	PHE
2	C	426	ASP
2	C	432	ARG
2	C	443	THR
2	C	451	LEU
2	C	452	ILE
2	C	453	THR
2	C	460	ARG
2	C	474	VAL
2	C	479	VAL
2	C	482	GLU
2	C	486	MET
2	C	492	ASP
2	C	496	ILE
2	C	502	PRO
2	C	503	LEU
2	C	508	ILE
2	C	517	ARG
2	C	527	GLU
2	C	533	ASP
2	C	537	LYS
2	C	542	VAL
2	C	548	PRO
2	C	554	ASP
2	C	559	LEU
2	C	564	MET
2	C	565	GLN
2	C	584	GLU
2	C	589	ARG
2	C	620	LEU
2	C	621	VAL
2	C	622	GLU
2	C	633	GLN
2	C	640	ARG
2	C	650	ARG
2	C	654	LEU
2	C	655	LEU
2	C	657	ASP

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Mol	Chain	Res	Type
2	C	663	ASN
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	684	PHE
2	C	686	ASP
2	C	691	SER
2	C	693	GLU
2	C	699	PHE
2	C	714	ASP
2	C	722	ILE
2	C	724	ARG
2	C	725	ASP
2	C	727	PRO
2	C	730	SER
2	C	740	GLU
2	C	744	ARG
2	C	749	VAL
2	C	759	THR
2	C	768	THR
2	C	771	GLU
2	C	773	LEU
2	C	780	GLU
2	C	785	VAL
2	C	791	ARG
2	C	794	PRO
2	C	796	GLU
2	C	799	ILE
2	C	804	VAL
2	C	808	ARG
2	C	820	ARG
2	C	821	GLU
2	C	829	GLN
2	C	834	GLN
2	C	835	VAL
2	C	839	LEU
2	C	841	ASN
2	C	858	MET
2	C	860	HIS
2	C	862	PRO
2	C	863	ASP

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Mol	Chain	Res	Type
2	C	868	ASP
2	C	870	ILE
2	C	877	PRO
2	C	881	ASN
2	C	882	LEU
2	C	886	LEU
2	C	904	PRO
2	C	905	ILE
2	C	907	ASP
2	C	916	GLU
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	939	ARG
2	C	945	ARG
2	C	948	GLU
2	C	950	LEU
2	C	953	VAL
2	C	966	LEU
2	C	976	ASP
2	C	978	ARG
2	C	981	GLU
2	C	984	GLU
2	C	988	VAL
2	C	993	PHE
2	C	995	MET
2	C	1000	MET
2	C	1002	GLU
2	C	1006	HIS
2	C	1008	ARG
2	C	1016	ILE
2	C	1019	GLN
2	C	1021	LEU
2	C	1024	LYS
2	C	1026	GLN
2	C	1052	MET
2	C	1054	THR
2	C	1074	GLU
2	C	1076	VAL
2	C	1082	PRO
2	C	1083	GLU
2	C	1085	PHE

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Mol	Chain	Res	Type
2	C	1087	VAL
2	C	1092	LEU
2	C	1095	LEU
2	C	1098	ASP
2	C	1103	ASP
2	C	1104	GLU
2	C	1106	ASP
2	C	1109	VAL
3	D	3	LYS
3	D	5	VAL
3	D	6	ARG
3	D	9	ARG
3	D	12	LEU
3	D	14	SER
3	D	16	GLU
3	D	25	GLU
3	D	27	GLU
3	D	29	PRO
3	D	31	THR
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	48	ARG
3	D	53	ILE
3	D	55	ASP
3	D	56	TYR
3	D	58	CYS
3	D	62	LYS
3	D	68	PHE
3	D	71	LYS
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL
3	D	86	ARG
3	D	87	ARG
3	D	95	LEU
3	D	101	HIS
3	D	102	ILE
3	D	112	ILE
3	D	115	LEU
3	D	117	ASP

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Mol	Chain	Res	Type
3	D	118	LEU
3	D	122	GLU
3	D	127	LEU
3	D	133	ILE
3	D	143	ASN
3	D	145	VAL
3	D	150	ARG
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	170	PRO
3	D	171	LEU
3	D	185	VAL
3	D	199	LEU
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	389	GLU
3	D	394	LEU
3	D	405	ASP
3	D	411	THR
3	D	413	ASP
3	D	421	LEU
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	452	ILE
3	D	455	ARG
3	D	456	MET
3	D	459	GLU
3	D	475	LYS
3	D	481	MET
3	D	483	HIS
3	D	486	ARG
3	D	488	ARG
3	D	502	PHE
3	D	504	ASP
3	D	521	PRO
3	D	528	VAL

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Mol	Chain	Res	Type
3	D	529	GLN
3	D	535	PHE
3	D	537	THR
3	D	540	LEU
3	D	542	ASP
3	D	554	LEU
3	D	565	ILE
3	D	568	ARG
3	D	569	ASN
3	D	571	LYS
3	D	576	GLU
3	D	584	ASN
3	D	590	PRO
3	D	594	PRO
3	D	613	ARG
3	D	618	LEU
3	D	624	ASP
3	D	629	SER
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	656	PHE
3	D	661	MET
3	D	675	ARG
3	D	676	MET
3	D	682	ASP
3	D	688	TRP
3	D	695	ILE
3	D	702	LEU
3	D	704	ARG
3	D	713	ILE
3	D	716	PHE
3	D	719	VAL
3	D	724	GLN
3	D	734	GLU
3	D	739	ASP
3	D	749	VAL
3	D	754	PHE
3	D	781	PRO
3	D	792	ILE
3	D	793	THR

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Mol	Chain	Res	Type
3	D	794	GLN
3	D	796	ARG
3	D	797	LYS
3	D	800	LYS
3	D	805	GLU
3	D	810	GLU
3	D	813	LEU
3	D	824	ASN
3	D	828	LYS
3	D	829	VAL
3	D	832	ARG
3	D	839	LEU
3	D	847	ASP
3	D	850	LEU
3	D	851	LEU
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	867	ARG
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	891	GLU
3	D	902	LEU
3	D	910	SER
3	D	914	LEU
3	D	916	TYR
3	D	917	GLN
3	D	919	PHE
3	D	922	LEU
3	D	927	THR
3	D	944	THR
3	D	951	ILE
3	D	952	ASP
3	D	957	PRO
3	D	959	GLU
3	D	968	ASP
3	D	972	LEU
3	D	985	ASP
3	D	987	GLU

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Mol	Chain	Res	Type
3	D	999	THR
3	D	1001	GLU
3	D	1026	SER
3	D	1029	ARG
3	D	1032	PRO
3	D	1041	LEU
3	D	1042	ARG
3	D	1051	GLU
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1087	ARG
3	D	1095	THR
3	D	1096	ARG
3	D	1109	GLU
3	D	1112	CYS
3	D	1116	ASN
3	D	1127	GLU
3	D	1135	ARG
3	D	1139	ASP
3	D	1144	LEU
3	D	1151	ARG
3	D	1160	LEU
3	D	1161	GLU
3	D	1164	ARG
3	D	1166	LEU
3	D	1167	SER
3	D	1173	LEU
3	D	1176	LYS
3	D	1195	GLN
3	D	1207	TYR
3	D	1209	LEU
3	D	1211	MET
3	D	1215	VAL
3	D	1223	ILE
3	D	1227	GLN
3	D	1231	GLU
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR

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Mol	Chain	Res	Type
3	D	1251	ASP
3	D	1258	ARG
3	D	1260	ILE
3	D	1264	GLU
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1276	GLU
3	D	1285	GLU
3	D	1288	GLU
3	D	1290	LEU
3	D	1299	PHE
3	D	1305	LEU
3	D	1307	LYS
3	D	1314	LYS
3	D	1317	ASP
3	D	1318	TYR
3	D	1331	ASP
3	D	1337	GLU
3	D	1344	VAL
3	D	1345	GLU
3	D	1346	ARG
3	D	1348	LEU
3	D	1353	GLN
3	D	1359	GLN
3	D	1363	LEU
3	D	1365	ASP
3	D	1368	ILE
3	D	1376	MET
3	D	1378	TYR
3	D	1382	THR
3	D	1387	SER
3	D	1388	ARG
3	D	1389	LEU
3	D	1401	GLU
3	D	1403	LEU
3	D	1406	ARG
3	D	1415	VAL
3	D	1420	LEU
3	D	1421	LEU
3	D	1424	VAL
3	D	1432	LYS

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Mol	Chain	Res	Type
3	D	1435	LEU
3	D	1440	PHE
3	D	1447	LEU
3	D	1460	ILE
3	D	1463	LYS
3	D	1465	ASN
3	D	1479	ASP
3	D	1485	GLN
3	D	1488	ASP
3	D	1496	GLU
3	D	1501	GLU
4	E	14	ASP
4	E	20	THR
4	E	28	GLN
4	E	29	GLN
4	E	30	LEU
4	E	31	LEU
4	E	32	ARG
4	E	33	HIS
4	E	40	LEU
4	E	42	PRO
4	E	43	GLU
4	E	45	ARG
4	E	56	ASP
4	E	57	ASP
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	67	GLU
4	E	81	PRO
4	E	84	ARG
4	E	87	LYS
5	F	80	PRO
5	F	83	GLN
5	F	84	TYR
5	F	86	HIS
5	F	90	GLN
5	F	91	VAL
5	F	101	GLU
5	F	111	GLU
5	F	125	ASP
5	F	126	LEU

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Mol	Chain	Res	Type
5	F	127	ILE
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	145	PRO
5	F	149	GLU
5	F	154	LYS
5	F	164	LYS
5	F	170	HIS
5	F	174	LEU
5	F	184	ARG
5	F	187	LEU
5	F	207	LEU
5	F	208	SER
5	F	209	PHE
5	F	218	GLN
5	F	233	PHE
5	F	234	LYS
5	F	240	THR
5	F	244	ARG
5	F	245	GLN
5	F	256	ARG
5	F	261	PRO
5	F	264	MET
5	F	280	GLN
5	F	282	LEU
5	F	290	GLU
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	310	ILE
5	F	313	GLU
5	F	328	PHE
5	F	329	TYR
5	F	331	ASP
5	F	340	SER
5	F	341	PRO
5	F	347	GLN
5	F	349	LEU
5	F	355	GLU
5	F	363	GLU
5	F	365	GLU

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Mol	Chain	Res	Type
5	F	370	LYS
5	F	393	THR
5	F	396	ARG
5	F	399	GLN
5	F	403	LYS
5	F	406	ARG
5	F	408	LEU
5	F	410	TYR
5	F	414	ARG
5	F	420	ASP
1	K	5	LYS
1	K	9	PRO
1	K	12	THR
1	K	18	ARG
1	K	26	GLU
1	K	29	GLU
1	K	44	LEU
1	K	60	ASP
1	K	62	LEU
1	K	67	THR
1	K	73	GLU
1	K	84	GLU
1	K	88	ARG
1	K	89	PHE
1	K	90	LEU
1	K	92	PRO
1	K	94	LEU
1	K	101	LEU
1	K	112	ARG
1	K	115	LEU
1	K	121	GLU
1	K	127	LEU
1	K	134	GLU
1	K	142	VAL
1	K	145	ASP
1	K	146	ARG
1	K	156	HIS
1	K	165	ILE
1	K	167	VAL
1	K	176	ARG
1	K	179	PHE
1	K	180	GLN

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Mol	Chain	Res	Type
1	K	183	ASP
1	K	184	THR
1	K	186	LEU
1	K	196	THR
1	K	197	LEU
1	K	198	ARG
1	K	206	THR
1	K	211	LEU
1	K	216	GLU
1	K	219	ARG
1	K	223	THR
1	K	227	ASN
1	L	1	MET
1	L	2	LEU
1	L	4	SER
1	L	5	LYS
1	L	7	LYS
1	L	26	GLU
1	L	29	GLU
1	L	38	ASN
1	L	41	ARG
1	L	47	SER
1	L	55	SER
1	L	62	LEU
1	L	73	GLU
1	L	77	GLU
1	L	80	LEU
1	L	88	ARG
1	L	89	PHE
1	L	94	LEU
1	L	95	GLN
1	L	101	LEU
1	L	108	GLU
1	L	112	ARG
1	L	113	ASP
1	L	121	GLU
1	L	123	MET
1	L	126	ASP
1	L	138	LEU
1	L	141	GLU
1	L	159	LYS
1	L	160	ASP

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Mol	Chain	Res	Type
1	L	167	VAL
1	L	177	VAL
1	L	182	GLU
1	L	190	THR
1	L	191	ASP
1	L	201	THR
1	L	204	SER
1	L	206	THR
1	L	208	LEU
1	L	213	GLN
1	L	220	GLU
1	L	221	HIS
2	M	5	ARG
2	M	10	ARG
2	M	22	GLN
2	M	26	TYR
2	M	30	LEU
2	M	31	GLN
2	M	33	ASP
2	M	34	VAL
2	M	48	PHE
2	M	49	ARG
2	M	51	THR
2	M	71	TYR
2	M	79	PRO
2	M	86	LYS
2	M	91	GLN
2	M	95	TYR
2	M	98	LEU
2	M	99	GLN
2	M	100	LEU
2	M	102	HIS
2	M	104	ASP
2	M	105	THR
2	M	107	LEU
2	M	108	ILE
2	M	110	GLU
2	M	114	PHE
2	M	115	LEU
2	M	133	ASP
2	M	134	ARG
2	M	141	HIS

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Mol	Chain	Res	Type
2	M	143	SER
2	M	149	THR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	167	LYS
2	M	168	ARG
2	M	178	PRO
2	M	182	VAL
2	M	184	MET
2	M	187	ASN
2	M	189	ARG
2	M	198	ARG
2	M	209	ARG
2	M	216	GLU
2	M	218	VAL
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	230	ARG
2	M	237	ARG
2	M	239	PHE
2	M	243	ARG
2	M	252	LYS
2	M	254	VAL
2	M	260	LEU
2	M	267	TYR
2	M	276	LYS
2	M	279	GLU
2	M	285	LEU
2	M	290	LEU
2	M	293	PHE
2	M	295	ASP
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	321	GLU
2	M	322	VAL
2	M	328	LEU
2	M	345	ARG

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Mol	Chain	Res	Type
2	M	348	LEU
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	367	LEU
2	M	371	LYS
2	M	374	ASN
2	M	384	GLU
2	M	393	GLN
2	M	397	GLU
2	M	413	LEU
2	M	415	PRO
2	M	420	ARG
2	M	421	GLU
2	M	422	ARG
2	M	425	PHE
2	M	426	ASP
2	M	435	TYR
2	M	443	THR
2	M	451	LEU
2	M	455	LEU
2	M	460	ARG
2	M	468	ARG
2	M	469	THR
2	M	474	VAL
2	M	479	VAL
2	M	482	GLU
2	M	496	ILE
2	M	500	ASN
2	M	503	LEU
2	M	507	ARG
2	M	524	VAL
2	M	538	GLN
2	M	540	PHE
2	M	542	VAL
2	M	545	ASN
2	M	563	ASN
2	M	564	MET
2	M	571	LEU
2	M	583	LEU
2	M	584	GLU
2	M	586	ARG

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Mol	Chain	Res	Type
2	M	589	ARG
2	M	590	ASP
2	M	591	SER
2	M	599	GLU
2	M	605	LYS
2	M	607	ASP
2	M	620	LEU
2	M	626	ARG
2	M	627	ARG
2	M	630	ARG
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	645	VAL
2	M	653	ASP
2	M	654	LEU
2	M	657	ASP
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	679	PHE
2	M	684	PHE
2	M	689	VAL
2	M	697	ARG
2	M	699	PHE
2	M	713	ARG
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	730	SER
2	M	735	ARG
2	M	737	LEU
2	M	739	GLU
2	M	749	VAL
2	M	750	LYS
2	M	755	LEU
2	M	762	LYS
2	M	772	ARG
2	M	775	ARG
2	M	780	GLU
2	M	785	VAL
2	M	799	ILE

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Mol	Chain	Res	Type
2	M	802	ARG
2	M	807	ARG
2	M	808	ARG
2	M	821	GLU
2	M	825	VAL
2	M	834	GLN
2	M	835	VAL
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	862	PRO
2	M	863	ASP
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	910	LYS
2	M	911	GLU
2	M	925	TYR
2	M	937	ASP
2	M	950	LEU
2	M	958	THR
2	M	966	LEU
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	999	HIS
2	M	1000	MET
2	M	1002	GLU
2	M	1003	ASP
2	M	1008	ARG
2	M	1009	SER
2	M	1016	ILE
2	M	1035	MET
2	M	1058	ASP
2	M	1060	ILE
2	M	1074	GLU
2	M	1076	VAL
2	M	1079	PRO
2	M	1087	VAL
2	M	1092	LEU
2	M	1095	LEU
2	M	1097	LEU

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Mol	Chain	Res	Type
2	M	1098	ASP
2	M	1100	GLN
2	M	1103	ASP
2	M	1117	SER
2	M	1118	LYS
3	N	3	LYS
3	N	6	ARG
3	N	12	LEU
3	N	15	PRO
3	N	20	SER
3	N	27	GLU
3	N	32	ILE
3	N	34	TYR
3	N	35	ARG
3	N	41	ARG
3	N	52	PRO
3	N	53	ILE
3	N	55	ASP
3	N	56	TYR
3	N	65	ARG
3	N	66	GLN
3	N	71	LYS
3	N	76	CYS
3	N	80	VAL
3	N	82	LYS
3	N	85	VAL
3	N	87	ARG
3	N	102	ILE
3	N	103	TRP
3	N	106	LYS
3	N	108	VAL
3	N	112	ILE
3	N	117	ASP
3	N	123	LEU
3	N	128	TYR
3	N	130	SER
3	N	133	ILE
3	N	142	LEU
3	N	145	VAL
3	N	153	LEU
3	N	155	ASP
3	N	160	GLU

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Mol	Chain	Res	Type
3	N	161	LEU
3	N	162	ARG
3	N	166	GLN
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	185	VAL
3	N	190	GLU
3	N	199	LEU
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	210	ARG
3	N	389	GLU
3	N	395	VAL
3	N	413	ASP
3	N	414	ARG
3	N	419	ASP
3	N	421	LEU
3	N	430	ASP
3	N	432	TYR
3	N	442	ASN
3	N	445	ARG
3	N	450	TYR
3	N	455	ARG
3	N	456	MET
3	N	459	GLU
3	N	463	GLN
3	N	465	LEU
3	N	475	LYS
3	N	481	MET
3	N	483	HIS
3	N	486	ARG
3	N	488	ARG
3	N	493	ARG
3	N	502	PHE
3	N	503	LEU
3	N	505	SER
3	N	509	PRO
3	N	511	TRP
3	N	521	PRO
3	N	530	VAL

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Mol	Chain	Res	Type
3	N	554	LEU
3	N	576	GLU
3	N	581	LEU
3	N	584	ASN
3	N	592	THR
3	N	594	PRO
3	N	601	ARG
3	N	602	SER
3	N	616	GLN
3	N	617	ASN
3	N	629	SER
3	N	641	GLN
3	N	651	GLU
3	N	652	LEU
3	N	666	ILE
3	N	674	ARG
3	N	676	MET
3	N	677	LEU
3	N	681	ARG
3	N	688	TRP
3	N	692	GLU
3	N	695	ILE
3	N	701	LEU
3	N	704	ARG
3	N	709	HIS
3	N	710	ARG
3	N	716	PHE
3	N	721	VAL
3	N	736	PHE
3	N	739	ASP
3	N	754	PHE
3	N	758	GLU
3	N	768	ASN
3	N	770	LEU
3	N	778	LEU
3	N	783	ARG
3	N	786	ILE
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS
3	N	799	LYS

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Mol	Chain	Res	Type
3	N	800	LYS
3	N	805	GLU
3	N	823	LEU
3	N	828	LYS
3	N	836	VAL
3	N	847	ASP
3	N	863	VAL
3	N	865	THR
3	N	868	TYR
3	N	869	MET
3	N	876	SER
3	N	879	ARG
3	N	880	ILE
3	N	888	GLU
3	N	890	VAL
3	N	891	GLU
3	N	892	ASP
3	N	897	TRP
3	N	899	LEU
3	N	907	GLU
3	N	914	LEU
3	N	942	SER
3	N	951	ILE
3	N	959	GLU
3	N	971	LEU
3	N	972	LEU
3	N	984	THR
3	N	990	ASP
3	N	991	GLN
3	N	994	GLN
3	N	999	THR
3	N	1020	LEU
3	N	1033	GLN
3	N	1034	GLN
3	N	1035	ILE
3	N	1039	CYS
3	N	1045	MET
3	N	1051	GLU
3	N	1052	THR
3	N	1058	ARG
3	N	1060	SER
3	N	1062	ARG

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Mol	Chain	Res	Type
3	N	1063	GLU
3	N	1065	LEU
3	N	1068	LEU
3	N	1083	ASP
3	N	1084	THR
3	N	1087	ARG
3	N	1090	ASP
3	N	1095	THR
3	N	1096	ARG
3	N	1101	VAL
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1115	THR
3	N	1127	GLU
3	N	1129	THR
3	N	1130	ARG
3	N	1136	LYS
3	N	1141	GLU
3	N	1144	LEU
3	N	1151	ARG
3	N	1164	ARG
3	N	1166	LEU
3	N	1183	ILE
3	N	1195	GLN
3	N	1207	TYR
3	N	1208	ASP
3	N	1213	ARG
3	N	1216	SER
3	N	1217	ILE
3	N	1231	GLU
3	N	1238	MET
3	N	1243	THR
3	N	1252	ILE
3	N	1259	VAL
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1269	LYS
3	N	1285	GLU
3	N	1286	THR
3	N	1295	GLU

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Mol	Chain	Res	Type
3	N	1297	GLU
3	N	1299	PHE
3	N	1301	LYS
3	N	1306	PRO
3	N	1307	LYS
3	N	1308	GLU
3	N	1311	LEU
3	N	1312	LEU
3	N	1314	LYS
3	N	1317	ASP
3	N	1318	TYR
3	N	1331	ASP
3	N	1332	PRO
3	N	1337	GLU
3	N	1344	VAL
3	N	1346	ARG
3	N	1353	GLN
3	N	1355	VAL
3	N	1363	LEU
3	N	1372	VAL
3	N	1382	THR
3	N	1387	SER
3	N	1389	LEU
3	N	1391	GLU
3	N	1395	LEU
3	N	1399	ASP
3	N	1401	GLU
3	N	1403	LEU
3	N	1418	LYS
3	N	1419	PRO
3	N	1420	LEU
3	N	1424	VAL
3	N	1431	THR
3	N	1432	LYS
3	N	1433	SER
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1441	GLN
3	N	1447	LEU
3	N	1465	ASN
3	N	1466	VAL

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Mol	Chain	Res	Type
3	N	1476	THR
3	N	1478	SER
3	N	1483	PHE
3	N	1485	GLN
3	N	1488	ASP
4	O	12	MET
4	O	14	ASP
4	O	15	SER
4	O	32	ARG
4	O	41	GLU
4	O	42	PRO
4	O	45	ARG
4	O	51	LEU
4	O	54	LEU
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	66	LYS
4	O	70	THR
4	O	72	ARG
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
5	P	83	GLN
5	P	84	TYR
5	P	86	HIS
5	P	87	GLU
5	P	91	VAL
5	P	96	LEU
5	P	101	GLU
5	P	108	GLU
5	P	125	ASP
5	P	132	ARG
5	P	135	ILE
5	P	136	LEU
5	P	142	ARG
5	P	150	THR
5	P	164	LYS
5	P	174	LEU
5	P	186	HIS
5	P	187	LEU
5	P	209	PHE

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Mol	Chain	Res	Type
5	P	211	ASP
5	P	212	LEU
5	P	214	GLN
5	P	220	LEU
5	P	225	GLU
5	P	231	ARG
5	P	234	LYS
5	P	240	THR
5	P	277	GLN
5	P	285	GLU
5	P	289	GLU
5	P	295	MET
5	P	302	LYS
5	P	319	THR
5	P	327	SER
5	P	328	PHE
5	P	337	HIS
5	P	341	PRO
5	P	347	GLN
5	P	350	LEU
5	P	353	GLU
5	P	363	GLU
5	P	365	GLU
5	P	370	LYS
5	P	393	THR
5	P	399	GLN
5	P	403	LYS
5	P	410	TYR
5	P	419	ARG
5	P	420	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (169) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	227	ASN
1	A	229	GLN
1	B	16	GLN

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Mol	Chain	Res	Type
1	B	38	ASN
1	B	81	ASN
1	B	95	GLN
1	B	124	ASN
1	B	163	ASN
1	B	212	ASN
1	B	213	GLN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	117	HIS
2	C	320	HIS
2	C	399	ASN
2	C	448	ASN
2	C	498	GLN
2	C	543	ASN
2	C	552	HIS
2	C	563	ASN
2	C	565	GLN
2	C	632	ASN
2	C	663	ASN
2	C	670	GLN
2	C	834	GLN
2	C	841	ASN
2	C	845	ASN
2	C	881	ASN
2	C	884	GLN
2	C	889	HIS
2	C	899	GLN
2	C	969	GLN
2	C	999	HIS
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	143	ASN
3	D	151	GLN
3	D	463	GLN
3	D	549	ASN
3	D	560	GLN
3	D	584	ASN
3	D	703	ASN

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Mol	Chain	Res	Type
3	D	724	GLN
3	D	756	GLN
3	D	768	ASN
3	D	824	ASN
3	D	917	GLN
3	D	976	GLN
3	D	994	GLN
3	D	1025	GLN
3	D	1033	GLN
3	D	1075	HIS
3	D	1103	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1184	GLN
3	D	1202	GLN
3	D	1323	GLN
3	D	1333	HIS
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1465	ASN
4	E	37	ASN
4	E	86	GLN
5	F	83	GLN
5	F	90	GLN
5	F	185	GLN
5	F	218	GLN
5	F	312	GLN
5	F	337	HIS
5	F	402	ASN
1	K	38	ASN
1	K	156	HIS
1	K	180	GLN
1	K	213	GLN
1	K	227	ASN
1	K	229	GLN
1	L	38	ASN
1	L	95	GLN
1	L	128	HIS
1	L	212	ASN
1	L	229	GLN
2	M	22	GLN

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Mol	Chain	Res	Type
2	M	31	GLN
2	M	99	GLN
2	M	117	HIS
2	M	139	GLN
2	M	343	GLN
2	M	374	ASN
2	M	390	GLN
2	M	431	HIS
2	M	434	HIS
2	M	448	ASN
2	M	506	ASN
2	M	563	ASN
2	M	575	GLN
2	M	609	ASN
2	M	632	ASN
2	M	639	GLN
2	M	663	ASN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	881	ASN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
3	N	101	HIS
3	N	462	GLN
3	N	463	GLN
3	N	507	ASN
3	N	549	ASN
3	N	552	ASN
3	N	569	ASN
3	N	703	ASN
3	N	717	GLN
3	N	727	GLN
3	N	737	ASN
3	N	748	HIS
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN

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Mol	Chain	Res	Type
3	N	855	HIS
3	N	906	GLN
3	N	917	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1033	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1202	GLN
3	N	1242	HIS
3	N	1323	GLN
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1393	GLN
3	N	1404	ASN
3	N	1441	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	161	GLN
5	P	185	GLN
5	P	191	ASN
5	P	245	GLN
5	P	269	ASN
5	P	279	GLN
5	P	312	GLN
5	P	337	HIS
5	P	399	GLN
5	P	402	ASN

5.3.3 RNA ⓘ

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 493 ligands modelled in this entry, 491 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
7	RPT	C	8001	-	68,68,68	2.25	22 (32%)	87,101,101	1.40	12 (13%)
7	RPT	M	8002	-	68,68,68	2.29	22 (32%)	87,101,101	1.40	10 (11%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	RPT	C	8001	-	-	0/64/96/96	0/2/6/6
7	RPT	M	8002	-	-	0/64/96/96	0/2/6/6

All (44) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	8002	RPT	O2-C8	-2.07	1.28	1.35
7	M	8002	RPT	C32-C22	2.02	1.58	1.53
7	C	8001	RPT	C27-C28	2.27	1.59	1.50
7	M	8002	RPT	C27-C28	2.35	1.59	1.50
7	C	8001	RPT	C45-C38	2.38	1.59	1.53
7	C	8001	RPT	C1-C9	2.41	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	8002	RPT	C41-N3	2.42	1.51	1.46
7	C	8001	RPT	C41-N3	2.45	1.51	1.46
7	M	8002	RPT	C1-C9	2.47	1.51	1.43
7	M	8002	RPT	O4-C11	2.52	1.26	1.21
7	C	8001	RPT	O7-C25	2.56	1.48	1.44
7	C	8001	RPT	C3-C2	2.60	1.46	1.41
7	C	8001	RPT	O5-C12	2.61	1.57	1.43
7	C	8001	RPT	C8-C7	2.61	1.52	1.40
7	C	8001	RPT	C38-N4	2.62	1.55	1.48
7	M	8002	RPT	C3-C43	2.65	1.51	1.46
7	M	8002	RPT	C8-C7	2.70	1.53	1.40
7	M	8002	RPT	O5-C12	2.73	1.58	1.43
7	C	8001	RPT	C3-C43	2.79	1.51	1.46
7	C	8001	RPT	O4-C11	3.01	1.27	1.21
7	M	8002	RPT	C24-C25	3.08	1.62	1.54
7	C	8001	RPT	C40-N3	3.19	1.52	1.46
7	C	8001	RPT	C24-C25	3.21	1.63	1.54
7	M	8002	RPT	C3-C2	3.42	1.48	1.41
7	C	8001	RPT	C2-C1	3.74	1.50	1.38
7	M	8002	RPT	C40-N3	3.75	1.54	1.46
7	C	8001	RPT	C5-C10	3.95	1.53	1.43
7	M	8002	RPT	C5-C10	4.00	1.53	1.43
7	M	8002	RPT	C10-C9	4.13	1.54	1.42
7	M	8002	RPT	O6-C27	4.23	1.55	1.43
7	C	8001	RPT	C8-C9	4.26	1.57	1.43
7	M	8002	RPT	C8-C9	4.29	1.58	1.43
7	M	8002	RPT	C3-C4	4.30	1.46	1.40
7	M	8002	RPT	C2-C1	4.32	1.52	1.38
7	M	8002	RPT	C38-N4	4.39	1.60	1.48
7	C	8001	RPT	C10-C9	4.40	1.54	1.42
7	C	8001	RPT	C39-N4	4.73	1.57	1.47
7	C	8001	RPT	C42-N4	4.85	1.57	1.47
7	M	8002	RPT	O5-C29	5.03	1.54	1.39
7	C	8001	RPT	O5-C29	5.14	1.55	1.39
7	C	8001	RPT	O6-C27	5.31	1.58	1.43
7	C	8001	RPT	C3-C4	5.56	1.48	1.40
7	M	8002	RPT	C42-N4	5.98	1.59	1.47
7	M	8002	RPT	C39-N4	6.10	1.59	1.47

All (22) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	M	8002	RPT	C34-C26-C25	-2.89	105.97	111.38
7	M	8002	RPT	C31-C20-C19	-2.88	103.02	110.07
7	C	8001	RPT	C31-C20-C19	-2.71	103.44	110.07
7	M	8002	RPT	C4-C3-C43	-2.48	115.16	119.67
7	C	8001	RPT	C34-C26-C25	-2.25	107.18	111.38
7	M	8002	RPT	C32-C22-C23	-2.07	106.97	111.24
7	C	8001	RPT	O11-C15-N1	2.02	128.01	123.84
7	M	8002	RPT	O12-C4-C10	2.06	122.93	118.41
7	M	8002	RPT	C31-C20-C21	2.10	115.85	110.99
7	C	8001	RPT	O12-C4-C10	2.18	123.19	118.41
7	C	8001	RPT	C3-C43-N2	2.18	124.47	120.77
7	C	8001	RPT	C37-O6-C27	2.21	117.78	113.20
7	C	8001	RPT	C26-C27-C28	2.40	117.54	111.79
7	C	8001	RPT	C12-O5-C29	2.57	123.22	116.58
7	M	8002	RPT	C25-O7-C35	2.65	121.81	117.70
7	C	8001	RPT	C25-O7-C35	3.24	122.72	117.70
7	C	8001	RPT	C24-C23-C22	3.49	120.92	115.25
7	M	8002	RPT	C24-C23-C22	3.95	121.68	115.25
7	C	8001	RPT	C20-C21-C22	4.22	121.16	114.24
7	M	8002	RPT	C20-C21-C22	4.48	121.58	114.24
7	M	8002	RPT	C2-N1-C15	4.54	133.05	123.66
7	C	8001	RPT	C2-N1-C15	5.13	134.26	123.66

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	C	8001	RPT	6	0
7	M	8002	RPT	7	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	0.84	26 (11%) 7 6	27, 63, 91, 115	0
1	B	229/315 (72%)	1.69	70 (30%) 1 0	48, 93, 115, 119	0
1	K	229/315 (72%)	0.81	23 (10%) 9 10	34, 65, 94, 134	0
1	L	229/315 (72%)	1.22	48 (20%) 1 1	52, 92, 110, 131	0
2	C	1119/1119 (100%)	1.04	191 (17%) 2 2	21, 75, 106, 118	0
2	M	1119/1119 (100%)	1.15	215 (19%) 2 1	25, 79, 109, 122	0
3	D	1392/1524 (91%)	1.13	252 (18%) 2 2	24, 65, 112, 132	0
3	N	1392/1524 (91%)	1.15	264 (18%) 2 1	25, 69, 117, 138	0
4	E	95/99 (95%)	1.34	18 (18%) 2 1	42, 83, 108, 126	0
4	O	95/99 (95%)	1.13	17 (17%) 2 2	46, 80, 107, 114	0
5	F	345/423 (81%)	1.21	82 (23%) 1 1	49, 84, 110, 127	0
5	P	345/423 (81%)	1.41	92 (26%) 1 1	63, 89, 114, 124	0
All	All	6818/7590 (89%)	1.15	1298 (19%) 2 1	21, 75, 112, 138	0

All (1298) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	177	ALA	14.7
1	B	130	ALA	13.8
1	L	6	LEU	13.7
4	E	85	LEU	13.3
3	D	229	ALA	12.2
3	D	1245	GLY	10.6
2	C	813	VAL	10.3
3	N	1246	VAL	10.0
2	C	180	GLY	9.9
2	C	478	VAL	9.0
2	C	362	GLY	8.8

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Mol	Chain	Res	Type	RSRZ
5	F	139	ALA	8.8
3	N	1242	HIS	8.8
1	K	1	MET	8.7
2	C	65	VAL	8.6
3	N	225	LEU	8.6
3	N	1503	VAL	8.5
2	C	311	PHE	8.5
5	F	145	PRO	8.4
3	D	73	CYS	8.3
3	D	202	VAL	8.3
2	C	349	ALA	8.3
2	M	644	VAL	8.1
3	D	212	ARG	8.0
1	B	120	VAL	8.0
1	B	58	ILE	8.0
3	N	802	ALA	8.0
2	M	366	SER	8.0
4	E	95	GLY	7.9
3	N	371	ILE	7.9
2	M	105	THR	7.9
3	D	407	VAL	7.8
3	D	1240	THR	7.8
3	D	378	ILE	7.8
2	M	483	VAL	7.7
3	D	210	ARG	7.7
1	B	109	VAL	7.7
3	N	251	PHE	7.7
3	N	1248	GLY	7.7
3	N	401	TYR	7.6
3	D	446	VAL	7.6
3	D	803	GLY	7.6
3	N	808	THR	7.5
3	D	242	LEU	7.5
3	D	823	LEU	7.4
3	N	204	LEU	7.4
3	D	1243	THR	7.3
3	D	228	ALA	7.3
3	N	1492	LEU	7.3
3	N	232	GLU	7.3
5	P	371	LEU	7.3
1	B	129	ILE	7.3
1	K	2	LEU	7.3

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Mol	Chain	Res	Type	RSRZ
3	D	470	LEU	7.3
2	C	819	VAL	7.3
3	D	211	VAL	7.3
3	D	239	GLY	7.3
3	N	238	PRO	7.2
3	N	1408	ILE	7.2
3	D	77	GLY	7.1
3	D	802	ALA	7.1
3	D	216	VAL	7.1
5	P	321	ILE	7.0
4	E	80	VAL	7.0
5	F	311	ALA	7.0
2	M	69	LEU	7.0
2	M	207	LEU	6.9
3	N	230	TRP	6.9
3	N	1243	THR	6.9
2	C	92	ALA	6.9
5	F	147	LEU	6.9
2	C	320	HIS	6.8
3	N	407	VAL	6.8
3	N	186	VAL	6.8
3	N	224	ARG	6.8
3	N	1247	ALA	6.8
4	E	94	PRO	6.7
3	D	1503	VAL	6.7
5	P	145	PRO	6.7
5	P	95	THR	6.7
4	E	93	TYR	6.7
2	C	372	LEU	6.7
2	M	211	LEU	6.7
1	B	111	ALA	6.7
1	L	97	VAL	6.7
2	C	776	SER	6.7
3	D	444	VAL	6.7
3	N	205	TYR	6.6
3	N	175	VAL	6.6
4	E	79	LEU	6.6
2	M	361	MET	6.6
5	P	144	ILE	6.6
3	D	1251	ASP	6.6
3	N	169	TYR	6.6
1	B	92	PRO	6.6

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Mol	Chain	Res	Type	RSRZ
2	M	513	VAL	6.6
3	D	238	PRO	6.6
3	N	200	ASP	6.6
1	A	1	MET	6.6
5	P	153	PRO	6.5
2	C	226	VAL	6.5
3	D	1408	ILE	6.5
3	D	1386	ASP	6.4
2	C	765	SER	6.4
1	L	2	LEU	6.4
3	D	123	LEU	6.4
1	A	6	LEU	6.4
5	P	415	THR	6.4
2	M	362	GLY	6.4
2	M	354	GLY	6.3
3	N	379	ALA	6.3
3	D	208	PRO	6.3
3	N	228	ALA	6.3
3	D	215	TYR	6.3
5	F	386	VAL	6.3
2	M	372	LEU	6.3
3	D	74	GLU	6.2
5	P	376	ILE	6.1
4	O	94	PRO	6.1
3	N	1398	TRP	6.1
3	N	1505	ALA	6.1
3	D	248	PRO	6.1
3	D	245	LEU	6.1
1	B	117	VAL	6.1
2	C	155	PRO	6.1
3	N	594	PRO	6.1
3	D	439	LEU	6.0
2	C	356	ARG	6.0
1	L	1	MET	6.0
2	M	145	GLY	6.0
3	D	165	LYS	5.9
5	F	90	GLN	5.9
3	N	248	PRO	5.9
2	C	360	LEU	5.9
2	C	153	ALA	5.9
2	M	249	LYS	5.9
3	N	1502	ALA	5.9

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Mol	Chain	Res	Type	RSRZ
2	C	246	ASP	5.8
2	M	303	PHE	5.8
3	N	403	PHE	5.8
3	N	60	CYS	5.8
3	D	416	ALA	5.8
3	D	1247	ALA	5.8
3	N	801	GLY	5.8
1	B	69	PRO	5.8
3	D	369	ALA	5.8
1	K	3	ASP	5.7
3	N	176	ASP	5.7
5	P	173	TYR	5.7
3	N	250	LEU	5.7
3	D	825	ALA	5.7
3	D	1404	ASN	5.7
5	P	150	THR	5.6
3	N	243	ALA	5.6
5	P	90	GLN	5.6
3	D	196	VAL	5.6
2	C	152	PRO	5.5
3	D	136	ASP	5.5
2	M	1	MET	5.5
5	P	322	GLY	5.5
3	N	1387	SER	5.5
2	C	225	SER	5.5
2	M	182	VAL	5.5
1	B	135	GLY	5.5
3	D	1387	SER	5.4
3	D	830	ALA	5.4
3	N	241	ILE	5.4
5	F	291	ILE	5.4
3	D	205	TYR	5.4
3	N	384	VAL	5.4
3	D	240	GLU	5.4
5	P	411	HIS	5.4
5	P	323	ASP	5.4
2	C	303	PHE	5.4
1	B	62	LEU	5.3
5	P	89	GLY	5.3
5	P	275	ALA	5.3
2	M	152	PRO	5.3
3	N	202	VAL	5.3

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Mol	Chain	Res	Type	RSRZ
3	N	233	LYS	5.3
5	P	163	LEU	5.3
3	N	166	GLN	5.3
3	N	1249	ALA	5.3
2	C	417	GLY	5.3
1	B	162	ILE	5.3
3	D	1249	ALA	5.2
1	B	149	GLY	5.2
1	B	2	LEU	5.2
1	B	150	TYR	5.2
3	D	806	PHE	5.2
2	M	536	PRO	5.2
2	C	229	MET	5.2
3	D	201	GLY	5.2
3	N	239	GLY	5.2
1	L	93	SER	5.2
2	M	246	ASP	5.2
3	D	1242	HIS	5.2
3	D	166	GLN	5.2
5	F	388	ALA	5.2
3	D	188	GLY	5.2
2	C	307	LEU	5.2
2	M	290	LEU	5.1
3	D	375	GLU	5.1
5	P	75	ILE	5.1
2	M	186	VAL	5.1
1	B	124	ASN	5.1
2	M	294	GLU	5.1
5	F	377	ASP	5.1
1	B	118	ALA	5.1
3	D	816	HIS	5.1
3	D	377	VAL	5.0
2	M	169	GLY	5.0
2	C	38	LYS	5.0
3	N	595	GLY	5.0
5	P	359	SER	5.0
2	C	202	TYR	5.0
5	F	410	TYR	5.0
3	N	137	PRO	5.0
1	K	189	ARG	5.0
5	P	147	LEU	5.0
3	D	247	GLU	5.0

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Mol	Chain	Res	Type	RSRZ
2	M	214	TYR	5.0
3	N	76	CYS	4.9
2	C	209	ARG	4.9
3	N	221	ALA	4.9
3	D	1244	GLY	4.9
3	D	137	PRO	4.9
5	P	274	THR	4.9
2	C	286	SER	4.9
3	N	184	GLU	4.9
2	C	777	ILE	4.9
2	C	116	GLY	4.9
2	C	313	LEU	4.8
1	L	118	ALA	4.8
5	P	292	ALA	4.8
5	F	387	GLY	4.8
3	N	165	LYS	4.8
1	B	60	ASP	4.8
2	C	811	PRO	4.8
5	F	364	ARG	4.8
5	P	284	ARG	4.8
3	N	1407	LEU	4.8
3	D	1241	PHE	4.8
2	C	58	ASP	4.8
3	D	801	GLY	4.7
3	N	388	HIS	4.7
3	N	179	VAL	4.7
2	M	179	ASN	4.7
3	N	870	GLY	4.7
2	M	270	GLY	4.7
1	B	114	PHE	4.7
2	C	154	ARG	4.7
2	M	202	TYR	4.7
4	O	93	TYR	4.7
4	O	87	LYS	4.7
3	N	178	LEU	4.7
2	M	39	ARG	4.7
3	N	809	PRO	4.7
2	M	807	ARG	4.7
5	P	368	VAL	4.7
1	L	94	LEU	4.6
3	D	1413	THR	4.6
5	F	276	ARG	4.6

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Mol	Chain	Res	Type	RSRZ
2	C	260	LEU	4.6
2	M	522	VAL	4.6
3	N	836	VAL	4.6
4	O	95	GLY	4.6
5	P	357	ALA	4.6
3	N	139	GLY	4.6
2	M	236	ILE	4.6
3	N	839	LEU	4.6
3	D	897	TRP	4.6
3	N	141	ILE	4.6
2	M	252	LYS	4.6
2	C	282	GLY	4.5
2	M	189	ARG	4.5
3	D	481	MET	4.5
2	C	174	LEU	4.5
3	D	241	ILE	4.5
2	M	52	PHE	4.5
1	B	87	VAL	4.5
2	M	478	VAL	4.5
3	N	245	LEU	4.5
2	M	618	GLY	4.5
3	N	370	ALA	4.5
2	M	58	ASP	4.4
4	O	96	GLU	4.4
3	N	418	GLY	4.4
3	N	227	LEU	4.4
2	C	764	GLU	4.4
3	D	426	LYS	4.4
3	D	1502	ALA	4.4
2	M	180	GLY	4.4
3	D	450	TYR	4.4
3	N	163	TYR	4.4
3	N	394	LEU	4.4
2	C	177	GLU	4.4
1	L	135	GLY	4.4
1	B	61	VAL	4.3
1	L	117	VAL	4.3
3	N	3	LYS	4.3
1	L	203	GLY	4.3
5	P	365	GLU	4.3
3	D	864	VAL	4.3
2	C	767	PRO	4.3

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Mol	Chain	Res	Type	RSRZ
3	D	403	PHE	4.3
2	M	260	LEU	4.3
2	M	534	VAL	4.3
5	P	168	LYS	4.3
3	D	232	GLU	4.3
1	B	155	LYS	4.3
5	P	96	LEU	4.3
3	D	1246	VAL	4.3
3	D	401	TYR	4.3
3	D	595	GLY	4.3
2	C	189	ARG	4.2
3	N	215	TYR	4.2
1	B	70	GLY	4.2
2	C	486	MET	4.2
2	C	256	TYR	4.2
1	B	3	ASP	4.2
2	M	243	ARG	4.2
3	D	1388	ARG	4.2
2	M	197	LEU	4.2
5	F	357	ALA	4.2
5	P	374	GLY	4.2
2	M	729	LEU	4.2
3	D	839	LEU	4.2
3	N	383	GLY	4.2
2	C	814	GLU	4.2
5	F	233	PHE	4.2
5	P	364	ARG	4.2
3	N	213	VAL	4.2
3	N	1252	ILE	4.2
2	C	179	ASN	4.2
5	F	349	LEU	4.2
2	M	227	PHE	4.1
3	N	806	PHE	4.1
3	D	67	ARG	4.1
3	N	389	GLU	4.1
2	C	252	LYS	4.1
3	D	78	VAL	4.1
3	N	126	VAL	4.1
2	M	293	PHE	4.1
3	D	1497	GLU	4.1
3	N	247	GLU	4.1
1	B	63	HIS	4.1

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Mol	Chain	Res	Type	RSRZ
3	D	1324	PRO	4.1
1	A	181	VAL	4.1
3	N	377	VAL	4.1
2	M	496	ILE	4.1
3	N	181	ASP	4.1
4	E	57	ASP	4.1
5	P	378	GLY	4.1
2	M	763	GLY	4.1
5	F	94	LEU	4.1
2	C	293	PHE	4.1
3	D	418	GLY	4.1
5	F	288	TYR	4.1
3	N	196	VAL	4.1
3	N	424	GLY	4.1
3	N	1245	GLY	4.1
3	N	1424	VAL	4.0
2	C	1	MET	4.0
3	D	798	GLU	4.0
2	C	1119	ARG	4.0
2	C	314	THR	4.0
3	D	192	ALA	4.0
3	D	213	VAL	4.0
1	B	71	VAL	4.0
2	C	251	ASP	4.0
2	M	318	PRO	4.0
3	D	809	PRO	4.0
3	N	385	VAL	4.0
3	D	128	TYR	4.0
2	C	283	ILE	4.0
2	M	115	LEU	4.0
3	N	810	GLU	4.0
2	C	163	ILE	4.0
5	F	89	GLY	4.0
2	C	39	ARG	4.0
2	C	205	GLU	3.9
5	F	144	ILE	3.9
5	F	358	LEU	3.9
3	D	180	LYS	3.9
5	P	143	HIS	3.9
2	C	763	GLY	3.9
3	N	1200	VAL	3.9
3	D	157	GLU	3.9

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Mol	Chain	Res	Type	RSRZ
3	D	489	ARG	3.9
5	P	391	GLY	3.9
5	F	369	LEU	3.9
1	B	164	ALA	3.9
3	D	198	ARG	3.9
1	B	1	MET	3.9
3	D	379	ALA	3.9
3	N	422	ALA	3.9
1	B	49	PRO	3.9
3	N	1298	GLY	3.9
3	D	75	ARG	3.8
2	M	612	VAL	3.8
3	D	1400	VAL	3.8
5	F	304	VAL	3.8
1	L	119	ASP	3.8
3	N	533	GLY	3.8
2	C	654	LEU	3.8
3	D	249	TYR	3.8
5	P	408	LEU	3.8
1	A	7	LYS	3.8
2	C	361	MET	3.8
4	O	60	ALA	3.8
5	F	368	VAL	3.8
3	N	201	GLY	3.8
2	M	153	ALA	3.8
3	N	369	ALA	3.8
2	C	781	LYS	3.8
3	N	206	ARG	3.8
4	E	46	PRO	3.8
2	M	268	ASP	3.8
5	F	142	ARG	3.8
3	N	425	GLY	3.8
2	M	785	VAL	3.8
5	P	403	LYS	3.8
2	M	244	PRO	3.8
3	N	445	ARG	3.8
4	E	47	LYS	3.8
2	M	221	LEU	3.8
2	M	524	VAL	3.7
1	B	119	ASP	3.7
2	M	621	VAL	3.7
3	D	384	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
3	N	246	PRO	3.7
1	B	64	GLU	3.7
2	M	253	ALA	3.7
3	D	366	LYS	3.7
3	D	1111	ASP	3.7
2	M	99	GLN	3.7
2	M	320	HIS	3.7
5	F	362	SER	3.7
2	C	484	VAL	3.7
2	C	822	VAL	3.7
3	D	808	THR	3.7
3	N	1240	THR	3.7
1	B	6	LEU	3.7
2	M	98	LEU	3.7
1	A	39	PRO	3.7
3	N	155	ASP	3.7
5	F	389	PHE	3.7
1	K	142	VAL	3.7
3	D	836	VAL	3.7
3	D	1326	THR	3.7
3	N	1241	PHE	3.7
1	L	144	VAL	3.7
1	L	5	LYS	3.7
1	L	146	ARG	3.7
2	M	154	ARG	3.7
3	D	827	ILE	3.7
5	F	359	SER	3.7
1	L	3	ASP	3.7
1	B	132	LEU	3.7
3	N	1491	THR	3.6
3	D	243	ALA	3.6
3	D	406	ASP	3.6
3	N	219	GLU	3.6
2	M	8	ARG	3.6
1	K	4	SER	3.6
2	C	34	VAL	3.6
5	F	173	TYR	3.6
1	A	94	LEU	3.6
2	C	281	LEU	3.6
5	P	278	LEU	3.6
2	M	347	GLY	3.6
1	A	93	SER	3.6

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Mol	Chain	Res	Type	RSRZ
2	M	267	TYR	3.6
2	C	1118	LYS	3.6
1	B	136	GLY	3.6
2	M	63	GLY	3.6
2	M	245	GLY	3.6
1	B	131	THR	3.6
2	M	439	CYS	3.6
3	N	244	GLU	3.6
1	K	93	SER	3.6
3	N	452	ILE	3.6
4	O	39	VAL	3.6
1	B	188	GLN	3.6
3	D	1200	VAL	3.6
3	D	1368	ILE	3.6
3	D	509	PRO	3.5
3	N	390	PRO	3.5
1	A	2	LEU	3.5
2	M	292	ARG	3.5
1	L	64	GLU	3.5
1	B	53	VAL	3.5
1	B	151	VAL	3.5
2	M	474	VAL	3.5
3	N	1259	VAL	3.5
5	F	224	VAL	3.5
5	F	102	LEU	3.5
2	M	648	ARG	3.5
2	C	289	THR	3.5
2	C	234	ALA	3.5
2	C	101	ILE	3.5
3	N	395	VAL	3.5
3	N	1285	GLU	3.5
1	A	3	ASP	3.5
2	C	133	ASP	3.5
3	N	823	LEU	3.5
3	D	812	ALA	3.5
5	F	143	HIS	3.5
1	L	158	ILE	3.5
1	B	82	LEU	3.5
3	D	383	GLY	3.5
5	F	324	GLU	3.5
3	D	178	LEU	3.5
3	D	1501	GLU	3.4

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Mol	Chain	Res	Type	RSRZ
3	N	408	GLU	3.4
5	P	384	GLU	3.4
2	C	168	ARG	3.4
2	M	615	TYR	3.4
3	D	429	SER	3.4
3	N	410	SER	3.4
5	F	308	LEU	3.4
3	D	1119	SER	3.4
5	F	95	THR	3.4
3	D	815	ALA	3.4
5	F	399	GLN	3.4
3	N	458	ALA	3.4
1	A	11	PHE	3.4
1	K	179	PHE	3.4
3	N	128	TYR	3.4
2	M	100	LEU	3.4
2	M	472	ARG	3.4
2	M	515	ALA	3.4
2	C	249	LYS	3.4
2	M	762	LYS	3.4
3	D	532	GLY	3.4
5	P	283	GLY	3.4
1	B	79	ILE	3.4
2	C	134	ARG	3.4
2	M	200	LEU	3.4
3	N	1400	VAL	3.4
3	N	811	GLU	3.4
2	C	287	GLY	3.4
3	N	481	MET	3.4
2	C	181	VAL	3.3
2	M	774	LEU	3.3
2	M	819	VAL	3.3
3	N	914	LEU	3.3
5	P	404	ALA	3.3
2	M	1082	PRO	3.3
2	M	512	ARG	3.3
5	F	126	LEU	3.3
3	D	800	LYS	3.3
3	N	218	LYS	3.3
3	N	1238	MET	3.3
2	C	100	LEU	3.3
5	F	370	LYS	3.3

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Mol	Chain	Res	Type	RSRZ
3	D	417	PRO	3.3
2	C	66	LEU	3.3
1	K	53	VAL	3.3
3	D	147	VAL	3.3
2	M	60	GLY	3.3
3	D	200	ASP	3.3
3	N	1250	ALA	3.3
1	B	110	LYS	3.3
3	N	824	ASN	3.3
5	F	205	ARG	3.3
2	C	69	LEU	3.3
3	D	1233	GLY	3.3
1	B	93	SER	3.3
3	N	416	ALA	3.3
3	N	240	GLU	3.3
2	C	169	GLY	3.3
3	D	513	ILE	3.3
3	N	378	ILE	3.3
3	D	405	ASP	3.3
2	C	769	PRO	3.3
5	P	390	PHE	3.3
2	M	203	ASP	3.2
3	N	135	LEU	3.2
2	M	495	THR	3.2
2	M	649	VAL	3.2
3	D	368	VAL	3.2
2	M	92	ALA	3.2
3	N	825	ALA	3.2
2	C	227	PHE	3.2
2	M	371	LYS	3.2
5	F	365	GLU	3.2
5	P	271	LEU	3.2
2	M	373	VAL	3.2
1	A	52	ALA	3.2
3	D	235	ALA	3.2
2	C	198	ARG	3.2
3	D	68	PHE	3.2
2	C	371	LYS	3.2
3	N	189	GLN	3.2
2	M	355	VAL	3.2
3	D	1409	ALA	3.2
3	N	198	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
5	F	414	ARG	3.2
5	P	152	ASP	3.2
1	L	123	MET	3.2
5	F	421	PHE	3.2
2	C	771	GLU	3.2
2	M	313	LEU	3.2
2	C	162	ILE	3.2
3	D	402	PRO	3.2
2	C	107	LEU	3.2
5	F	393	THR	3.2
2	M	181	VAL	3.2
3	D	381	ALA	3.2
3	D	400	VAL	3.2
3	N	803	GLY	3.2
3	D	508	ARG	3.1
2	M	764	GLU	3.1
2	C	352	ALA	3.1
2	C	31	GLN	3.1
1	L	4	SER	3.1
3	D	505	SER	3.1
3	N	131	LYS	3.1
5	P	407	LYS	3.1
4	O	4	PRO	3.1
2	M	128	ILE	3.1
2	M	477	GLY	3.1
3	D	371	ILE	3.1
5	P	77	THR	3.1
5	P	287	THR	3.1
1	K	87	VAL	3.1
2	C	60	GLY	3.1
3	N	412	GLY	3.1
1	L	134	GLU	3.1
3	N	208	PRO	3.1
3	D	412	GLY	3.1
1	B	5	LYS	3.1
1	L	122	ILE	3.1
2	C	772	ARG	3.1
2	M	271	GLU	3.1
1	B	142	VAL	3.1
3	D	425	GLY	3.1
1	B	59	GLU	3.1
3	D	244	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
2	M	994	ILE	3.1
2	C	255	ALA	3.1
4	O	64	ALA	3.1
2	M	375	SER	3.1
3	N	237	LYS	3.1
5	F	154	LYS	3.1
3	D	408	GLU	3.1
3	D	599	PRO	3.1
3	D	189	GLN	3.1
4	E	49	GLN	3.1
2	C	40	GLU	3.1
5	F	384	GLU	3.1
2	M	269	LEU	3.0
3	D	207	PHE	3.0
5	P	377	ASP	3.0
3	D	1461	GLY	3.0
1	L	163	ASN	3.0
1	B	144	VAL	3.0
1	K	144	VAL	3.0
2	C	800	VAL	3.0
2	M	1118	LYS	3.0
3	D	409	VAL	3.0
3	N	211	VAL	3.0
3	N	1106	VAL	3.0
4	E	81	PRO	3.0
2	M	6	PHE	3.0
2	M	466	PHE	3.0
3	N	191	LEU	3.0
5	F	133	ALA	3.0
2	M	40	GLU	3.0
2	M	973	VAL	3.0
3	D	251	PHE	3.0
3	N	588	GLY	3.0
5	F	149	GLU	3.0
2	C	176	VAL	3.0
2	C	322	VAL	3.0
3	N	231	VAL	3.0
3	D	1263	PHE	3.0
1	L	96	THR	3.0
5	F	98	GLU	3.0
3	N	841	TYR	3.0
3	N	185	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
3	N	402	PRO	3.0
5	P	358	LEU	3.0
1	B	143	ARG	3.0
2	C	245	GLY	3.0
3	D	822	ALA	3.0
5	F	84	TYR	3.0
3	N	112	ILE	3.0
3	D	146	PRO	3.0
2	C	455	LEU	2.9
1	A	12	THR	2.9
1	B	21	GLY	2.9
1	L	72	LYS	2.9
2	C	660	ALA	2.9
2	M	503	LEU	2.9
3	N	840	LYS	2.9
2	C	6	PHE	2.9
2	M	443	THR	2.9
2	M	283	ILE	2.9
3	N	1349	VAL	2.9
2	M	174	LEU	2.9
3	D	1325	LEU	2.9
3	N	540	LEU	2.9
2	C	761	PHE	2.9
2	M	265	ARG	2.9
3	D	170	PRO	2.9
2	M	1029	GLY	2.9
3	N	72	VAL	2.9
2	C	773	LEU	2.9
5	F	320	PRO	2.9
2	C	199	VAL	2.9
3	D	1394	VAL	2.9
5	F	91	VAL	2.9
2	C	339	LEU	2.9
2	M	195	LEU	2.9
2	M	993	PHE	2.9
3	D	1489	GLN	2.9
3	N	1401	GLU	2.9
4	E	86	GLN	2.9
3	N	381	ALA	2.9
3	D	1277	ILE	2.9
3	N	1495	ILE	2.9
5	F	325	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
2	M	222	MET	2.9
3	D	435	VAL	2.9
3	N	223	LEU	2.9
1	L	17	GLY	2.9
3	D	1181	GLY	2.9
3	D	1300	SER	2.8
1	K	188	GLN	2.8
2	M	304	LEU	2.8
2	C	768	THR	2.8
3	N	62	LYS	2.8
3	D	140	ALA	2.8
1	B	127	LEU	2.8
5	P	405	LEU	2.8
5	P	417	LYS	2.8
1	B	67	THR	2.8
2	C	377	PRO	2.8
3	D	193	PRO	2.8
2	M	275	TYR	2.8
3	D	1407	LEU	2.8
3	N	578	VAL	2.8
3	N	842	VAL	2.8
2	M	127	PHE	2.8
3	D	1494	ALA	2.8
5	P	356	LYS	2.8
1	L	90	LEU	2.8
2	C	1027	PHE	2.8
5	F	322	GLY	2.8
2	C	727	PRO	2.8
3	D	826	PRO	2.8
3	N	807	ALA	2.8
3	N	49	ILE	2.8
3	N	220	ARG	2.8
1	L	36	LEU	2.8
3	N	1205	TYR	2.8
3	D	437	VAL	2.8
3	D	856	GLY	2.8
3	D	172	PRO	2.8
5	P	127	ILE	2.8
3	N	199	LEU	2.8
5	F	354	LEU	2.8
3	D	1303	TYR	2.8
5	F	216	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
3	N	207	PHE	2.8
5	P	235	PHE	2.8
5	P	142	ARG	2.8
1	B	96	THR	2.7
2	M	191	PHE	2.7
3	D	843	PHE	2.7
2	M	251	ASP	2.7
5	P	363	GLU	2.7
5	F	376	ILE	2.7
3	D	506	GLY	2.7
4	E	45	ARG	2.7
3	N	1487	VAL	2.7
2	C	416	GLY	2.7
3	D	1279	GLY	2.7
2	M	97	ARG	2.7
2	M	1119	ARG	2.7
3	N	1197	ARG	2.7
2	C	374	ASN	2.7
2	M	533	ASP	2.7
5	P	267	THR	2.7
3	N	417	PRO	2.7
3	N	1371	VAL	2.7
5	P	345	ALA	2.7
2	M	516	ARG	2.7
5	P	176	ILE	2.7
3	N	1201	CYS	2.7
2	C	300	ASP	2.7
2	C	248	PRO	2.7
1	B	174	VAL	2.7
2	C	479	VAL	2.7
3	N	699	VAL	2.7
1	L	37	GLY	2.7
2	M	780	GLU	2.7
5	F	397	ILE	2.7
2	C	61	LYS	2.7
1	B	98	THR	2.7
5	F	153	PRO	2.7
1	B	170	VAL	2.7
3	D	457	GLY	2.7
5	P	387	GLY	2.7
3	N	597	ASP	2.7
5	F	321	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
5	P	192	LEU	2.7
1	L	35	THR	2.7
2	M	14	PRO	2.7
2	M	783	ARG	2.7
1	B	11	PHE	2.7
3	N	446	VAL	2.7
5	F	374	GLY	2.7
3	N	132	TYR	2.7
2	M	284	ARG	2.6
3	N	382	GLU	2.6
3	N	1429	LEU	2.6
3	N	596	SER	2.6
1	K	97	VAL	2.6
2	M	427	VAL	2.6
2	M	1032	PHE	2.6
3	D	1272	ALA	2.6
3	D	1321	ALA	2.6
4	O	86	GLN	2.6
5	F	195	VAL	2.6
5	P	233	PHE	2.6
3	D	824	ASN	2.6
5	F	241	TRP	2.6
3	D	445	ARG	2.6
4	O	42	PRO	2.6
5	F	295	MET	2.6
1	L	60	ASP	2.6
1	L	130	ALA	2.6
3	D	100	ALA	2.6
3	N	413	ASP	2.6
3	D	821	VAL	2.6
4	E	44	GLU	2.6
3	D	209	ARG	2.6
5	P	202	TYR	2.6
5	P	86	HIS	2.6
2	M	360	LEU	2.6
5	P	136	LEU	2.6
2	M	319	GLY	2.6
5	F	150	THR	2.6
2	M	67	ASP	2.6
2	M	302	VAL	2.6
3	D	185	VAL	2.6
5	F	148	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
3	N	236	TYR	2.6
3	D	949	ILE	2.6
4	E	96	GLU	2.6
5	F	395	GLU	2.6
5	P	285	GLU	2.6
2	C	812	GLY	2.6
1	A	185	ARG	2.6
1	K	184	THR	2.6
3	D	206	ARG	2.6
3	D	237	LYS	2.6
1	A	153	ALA	2.6
1	B	89	PHE	2.6
2	C	534	VAL	2.6
3	N	435	VAL	2.6
2	C	224	GLU	2.6
3	D	163	TYR	2.6
1	A	158	ILE	2.6
1	L	132	LEU	2.6
2	M	296	GLY	2.6
2	M	369	PRO	2.6
3	N	441	ARG	2.6
3	N	818	ARG	2.6
3	N	1283	ILE	2.6
3	N	1368	ILE	2.6
1	B	95	GLN	2.6
2	M	422	ARG	2.6
5	P	172	ARG	2.6
3	N	1397	LYS	2.6
2	C	192	PRO	2.6
2	C	998	TYR	2.6
3	D	174	GLY	2.6
3	D	1205	TYR	2.6
3	N	1244	GLY	2.6
2	M	892	LEU	2.6
1	B	52	ALA	2.6
1	L	16	GLN	2.6
1	L	159	LYS	2.5
2	M	266	ARG	2.5
2	M	606	VAL	2.5
3	N	1206	GLY	2.5
2	C	294	GLU	2.5
2	M	491	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
5	P	84	TYR	2.5
2	M	410	ILE	2.5
2	C	495	THR	2.5
5	P	74	LYS	2.5
2	C	315	ALA	2.5
3	N	386	HIS	2.5
2	M	989	VAL	2.5
3	N	700	VAL	2.5
1	B	173	PRO	2.5
5	F	416	ARG	2.5
3	N	203	ALA	2.5
1	L	11	PHE	2.5
2	M	484	VAL	2.5
2	M	367	LEU	2.5
3	D	1239	ARG	2.5
3	N	488	ARG	2.5
1	L	20	TYR	2.5
1	B	104	GLU	2.5
5	P	175	HIS	2.5
3	D	649	ALA	2.5
2	M	718	GLY	2.5
2	C	12	VAL	2.5
2	M	219	GLN	2.5
2	C	783	ARG	2.5
2	M	808	ARG	2.5
2	M	790	LEU	2.5
3	D	512	MET	2.5
5	P	295	MET	2.5
5	F	403	LYS	2.5
2	C	970	GLY	2.5
3	D	896	ALA	2.5
2	M	765	SER	2.5
5	P	332	PHE	2.5
3	N	400	VAL	2.5
3	D	173	PRO	2.5
5	F	285	GLU	2.5
3	D	116	LEU	2.5
4	O	51	LEU	2.5
3	N	1318	TYR	2.5
1	L	185	ARG	2.5
2	M	279	GLU	2.5
1	A	86	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
2	M	23	VAL	2.5
2	C	367	LEU	2.5
5	F	93	LEU	2.5
3	N	625	TYR	2.5
2	C	135	VAL	2.4
2	M	257	VAL	2.4
2	M	475	VAL	2.4
3	N	427	VAL	2.4
3	D	1297	GLU	2.4
1	B	66	SER	2.4
3	D	482	LYS	2.4
1	B	134	GLU	2.4
1	B	148	VAL	2.4
2	M	235	LEU	2.4
3	N	931	LEU	2.4
2	M	7	GLY	2.4
4	O	53	GLY	2.4
3	N	88	TYR	2.4
2	C	55	GLU	2.4
3	D	176	ASP	2.4
3	D	451	ASP	2.4
3	N	1299	PHE	2.4
3	N	1273	VAL	2.4
3	D	1206	GLY	2.4
1	A	79	ILE	2.4
3	D	367	ILE	2.4
2	C	499	ALA	2.4
2	M	247	PRO	2.4
3	N	1414	PRO	2.4
2	C	319	GLY	2.4
2	M	812	GLY	2.4
3	D	179	VAL	2.4
3	N	1003	VAL	2.4
3	D	874	GLU	2.4
2	M	118	ILE	2.4
5	F	394	ARG	2.4
3	N	426	LYS	2.4
3	N	655	PRO	2.4
2	M	1023	GLY	2.4
2	C	146	VAL	2.4
2	M	972	VAL	2.4
3	D	1312	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
5	P	375	LEU	2.4
3	D	1490	LYS	2.4
3	N	136	ASP	2.4
5	F	360	LYS	2.4
3	N	785	ILE	2.4
3	N	869	MET	2.4
1	L	116	PRO	2.4
2	C	178	PRO	2.4
3	D	1222	GLY	2.4
3	N	405	ASP	2.4
5	P	218	GLN	2.4
2	M	163	ILE	2.4
3	D	184	GLU	2.4
1	K	52	ALA	2.4
3	D	814	ALA	2.4
3	N	672	ALA	2.4
1	L	39	PRO	2.3
3	D	1398	TRP	2.3
2	M	350	ARG	2.3
2	M	383	ARG	2.3
2	M	471	TYR	2.3
2	M	925	TYR	2.3
3	N	1499	ARG	2.3
2	C	617	ASP	2.3
2	C	346	VAL	2.3
2	C	823	VAL	2.3
2	C	861	LEU	2.3
3	N	437	VAL	2.3
2	M	333	ILE	2.3
3	N	1089	ALA	2.3
1	K	135	GLY	2.3
3	D	1406	ARG	2.3
1	L	95	GLN	2.3
2	M	1100	GLN	2.3
3	N	50	PHE	2.3
3	N	372	ASP	2.3
1	B	211	LEU	2.3
3	D	199	LEU	2.3
3	D	1262	LEU	2.3
3	N	858	VAL	2.3
2	M	10	ARG	2.3
3	D	507	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	444	PRO	2.3
3	D	1226	ALA	2.3
3	D	1248	GLY	2.3
3	N	373	PRO	2.3
4	E	63	TRP	2.3
5	P	329	TYR	2.3
3	D	115	LEU	2.3
3	D	1290	LEU	2.3
3	N	1041	LEU	2.3
3	D	1371	VAL	2.3
3	N	415	VAL	2.3
2	M	374	ASN	2.3
1	K	180	GLN	2.3
2	C	99	GLN	2.3
1	B	106	PRO	2.3
2	C	611	ILE	2.3
3	N	39	PRO	2.3
3	N	406	ASP	2.3
1	K	186	LEU	2.3
3	D	204	LEU	2.3
3	D	394	LEU	2.3
2	C	635	THR	2.3
2	C	527	GLU	2.3
2	M	506	ASN	2.3
3	D	700	VAL	2.3
3	D	183	GLU	2.3
3	N	507	ASN	2.3
3	D	144	GLY	2.3
3	D	1201	CYS	2.3
2	M	101	ILE	2.3
2	M	370	ALA	2.3
2	C	993	PHE	2.3
5	F	419	ARG	2.3
5	P	232	ARG	2.3
2	C	729	LEU	2.3
3	N	171	LEU	2.3
3	N	1305	LEU	2.3
3	N	1504	GLU	2.3
2	M	1107	ASN	2.3
3	N	1404	ASN	2.3
2	M	738	ASP	2.3
3	N	71	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	782	ALA	2.3
5	P	397	ILE	2.3
2	C	243	ARG	2.3
3	D	388	HIS	2.3
3	N	387	LEU	2.3
5	P	370	LYS	2.3
3	N	591	VAL	2.3
2	C	244	PRO	2.3
3	N	173	PRO	2.3
2	M	1111	ILE	2.2
3	N	380	GLU	2.2
4	E	64	ALA	2.2
2	M	537	LYS	2.2
2	M	896	PHE	2.2
3	D	1071	PHE	2.2
3	N	33	ASN	2.2
4	E	35	PHE	2.2
3	D	469	ASP	2.2
1	A	53	VAL	2.2
5	P	141	VAL	2.2
2	C	247	PRO	2.2
3	N	1324	PRO	2.2
1	K	178	ALA	2.2
2	C	213	ALA	2.2
2	C	222	MET	2.2
1	L	202	ASP	2.2
1	K	37	GLY	2.2
3	D	70	GLY	2.2
2	C	200	LEU	2.2
2	M	168	ARG	2.2
3	N	832	ARG	2.2
3	N	1287	GLU	2.2
5	F	371	LEU	2.2
2	C	888	THR	2.2
3	N	1102	THR	2.2
2	C	644	VAL	2.2
2	M	435	TYR	2.2
3	D	175	VAL	2.2
5	F	229	TYR	2.2
5	P	410	TYR	2.2
3	N	794	GLN	2.2
3	N	1110	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
3	N	1212	ALA	2.2
2	C	108	ILE	2.2
5	P	221	ILE	2.2
2	M	138	SER	2.2
3	D	1322	GLY	2.2
3	N	212	ARG	2.2
2	M	861	LEU	2.2
3	D	478	LEU	2.2
3	N	789	LEU	2.2
5	F	151	LEU	2.2
1	A	144	VAL	2.2
1	B	205	VAL	2.2
2	C	435	TYR	2.2
2	M	166	PRO	2.2
3	N	560	GLN	2.2
3	D	1319	VAL	2.2
2	M	732	ALA	2.2
1	A	60	ASP	2.2
2	C	288	ARG	2.2
2	C	619	ARG	2.2
3	N	1364	HIS	2.2
2	M	62	GLY	2.2
3	D	2	LYS	2.2
2	C	1097	LEU	2.2
3	N	1325	LEU	2.2
1	K	35	THR	2.2
2	C	37	GLU	2.2
3	D	781	PRO	2.2
5	P	286	PRO	2.2
2	C	1099	VAL	2.2
2	M	645	VAL	2.2
3	D	1424	VAL	2.2
1	A	5	LYS	2.2
2	C	27	ARG	2.2
2	C	1096	ALA	2.2
2	M	497	ALA	2.2
3	D	1110	ALA	2.2
2	C	789	SER	2.2
2	M	669	GLY	2.2
5	P	204	GLY	2.2
3	N	68	PHE	2.2
1	B	90	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
3	D	520	LEU	2.2
5	P	151	LEU	2.2
2	M	433	THR	2.2
5	P	339	PRO	2.2
2	C	603	VAL	2.2
2	C	649	VAL	2.2
2	M	226	VAL	2.2
2	M	295	ASP	2.2
3	D	1313	VAL	2.2
2	C	147	TYR	2.2
2	C	208	ALA	2.2
3	N	673	ALA	2.2
1	L	187	GLY	2.2
2	M	990	GLY	2.2
3	D	1218	GLY	2.2
2	C	799	ILE	2.2
2	C	531	PHE	2.2
2	M	114	PHE	2.2
2	M	299	LYS	2.2
5	P	94	LEU	2.2
5	P	282	LEU	2.2
3	D	1383	ASP	2.2
4	O	56	ASP	2.2
5	P	131	VAL	2.1
2	C	309	TYR	2.1
3	N	192	ALA	2.1
5	P	388	ALA	2.1
5	F	400	ILE	2.1
3	N	67	ARG	2.1
5	F	398	ARG	2.1
2	M	391	LEU	2.1
3	N	582	LEU	2.1
5	P	422	LEU	2.1
1	A	35	THR	2.1
4	O	38	THR	2.1
3	N	101	HIS	2.1
3	N	157	GLU	2.1
5	P	289	GLU	2.1
1	A	167	VAL	2.1
3	D	130	SER	2.1
3	D	431	VAL	2.1
3	D	1067	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	1101	VAL	2.1
3	N	1486	VAL	2.1
3	N	1472	ILE	2.1
1	A	99	LEU	2.1
1	L	89	PHE	2.1
2	C	1032	PHE	2.1
3	D	600	LEU	2.1
3	D	914	LEU	2.1
3	N	653	PHE	2.1
3	N	911	LEU	2.1
3	N	1390	LEU	2.1
3	N	1395	LEU	2.1
3	D	380	GLU	2.1
2	M	535	SER	2.1
1	L	88	ARG	2.1
3	D	236	TYR	2.1
2	M	2	GLU	2.1
2	M	38	LYS	2.1
2	M	238	LEU	2.1
4	O	75	PHE	2.1
3	N	750	PRO	2.1
5	F	279	GLN	2.1
2	C	634	GLY	2.1
2	C	1057	SER	2.1
3	N	1119	SER	2.1
3	D	539	ASP	2.1
3	N	183	GLU	2.1
3	D	49	ILE	2.1
3	D	565	ILE	2.1
3	N	1198	TYR	2.1
1	B	163	ASN	2.1
2	M	307	LEU	2.1
3	N	104	PHE	2.1
3	N	242	LEU	2.1
2	C	345	ARG	2.1
2	C	780	GLU	2.1
2	C	46	ALA	2.1
3	D	62	LYS	2.1
3	D	1273	VAL	2.1
3	N	621	LYS	2.1
1	L	68	ILE	2.1
2	M	526	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
2	M	761	PHE	2.1
3	N	470	LEU	2.1
4	O	41	GLU	2.1
5	P	348	SER	2.1
2	M	850	ALA	2.1
2	C	613	VAL	2.1
3	D	1294	VAL	2.1
3	D	434	ARG	2.1
1	B	78	ILE	2.1
3	N	84	ILE	2.1
1	B	57	TYR	2.1
2	C	1023	GLY	2.1
1	K	36	LEU	2.1
1	K	39	PRO	2.1
2	M	217	LEU	2.1
1	A	172	SER	2.1
2	C	850	ALA	2.0
3	D	370	ALA	2.0
1	L	108	GLU	2.0
3	D	1292	VAL	2.0
3	N	147	VAL	2.0
3	N	1294	VAL	2.0
5	F	385	GLU	2.0
2	C	710	ILE	2.0
2	C	305	PRO	2.0
2	C	548	PRO	2.0
2	M	440	PRO	2.0
3	N	226	PRO	2.0
5	F	210	LEU	2.0
2	C	365	ASP	2.0
2	M	368	THR	2.0
2	M	566	THR	2.0
3	N	796	ARG	2.0
5	P	355	GLU	2.0
2	C	636	ALA	2.0
2	C	59	LYS	2.0
2	C	930	LYS	2.0
1	A	34	VAL	2.0
2	C	674	VAL	2.0
2	M	194	VAL	2.0
3	D	795	VAL	2.0
2	M	287	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
2	C	67	ASP	2.0
2	C	659	PRO	2.0
3	D	191	LEU	2.0
2	C	394	PHE	2.0
2	M	453	THR	2.0
3	N	38	LYS	2.0
2	M	1066	ALA	2.0
1	L	71	VAL	2.0
2	C	194	VAL	2.0
2	C	645	VAL	2.0
2	C	658	GLY	2.0
2	C	743	VAL	2.0
2	M	864	GLY	2.0
3	D	530	VAL	2.0
3	D	915	VAL	2.0
3	N	80	VAL	2.0
1	L	125	PRO	2.0
3	D	393	ILE	2.0
2	C	775	ARG	2.0
2	M	348	LEU	2.0
3	N	75	ARG	2.0
5	F	413	SER	2.0
5	P	406	ARG	2.0
2	C	926	PHE	2.0
2	M	419	THR	2.0
3	D	1102	THR	2.0
2	M	187	ASN	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains.

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	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9029	1/1	0.93	0.20	1.86	33,33,33,33	0
6	MG	K	9410	1/1	0.90	0.33	1.80	36,36,36,36	0
6	MG	D	9095	1/1	0.93	0.25	1.24	30,30,30,30	0
7	RPT	M	8002	63/63	0.89	0.28	1.19	33,45,55,57	0
6	MG	N	9402	1/1	0.99	0.30	1.09	45,45,45,45	0
6	MG	N	9200	1/1	0.90	0.20	0.65	38,38,38,38	0
7	RPT	C	8001	63/63	0.89	0.26	0.46	26,40,66,82	0
6	MG	M	9400	1/1	0.99	0.19	0.38	40,40,40,40	0
6	MG	D	9038	1/1	0.96	0.20	0.13	39,39,39,39	0
6	MG	O	9197	1/1	0.88	0.32	0.03	57,57,57,57	0
6	MG	D	9001	1/1	0.78	0.18	-0.05	36,36,36,36	0
6	MG	B	9033	1/1	0.96	0.22	-0.14	33,33,33,33	0
6	MG	D	9017	1/1	0.95	0.17	-0.33	42,42,42,42	0
6	MG	M	9219	1/1	0.94	0.20	-0.47	47,47,47,47	0
6	MG	L	9183	1/1	0.91	0.17	-0.52	37,37,37,37	0
6	MG	N	9398	1/1	0.98	0.20	-0.58	48,48,48,48	0
6	MG	P	9189	1/1	0.87	0.13	-0.59	49,49,49,49	0
6	MG	L	9182	1/1	0.83	0.17	-0.60	47,47,47,47	0
8	ZN	D	7058	1/1	0.63	0.18	-0.62	106,106,106,106	0
6	MG	M	9247	1/1	0.84	0.17	-0.65	51,51,51,51	0
6	MG	N	9211	1/1	0.79	0.11	-0.67	44,44,44,44	0
6	MG	M	9407	1/1	0.92	0.17	-0.83	35,35,35,35	0
6	MG	D	9073	1/1	0.98	0.14	-0.83	34,34,34,34	0
6	MG	A	9354	1/1	0.93	0.12	-0.93	37,37,37,37	0
6	MG	K	9213	1/1	0.88	0.16	-0.95	43,43,43,43	0
6	MG	E	9007	1/1	0.88	0.14	-1.01	40,40,40,40	0
6	MG	F	9057	1/1	0.98	0.14	-1.04	30,30,30,30	0
6	MG	M	9242	1/1	0.94	0.20	-1.05	35,35,35,35	0
6	MG	C	9031	1/1	0.93	0.10	-1.22	40,40,40,40	0
6	MG	M	9208	1/1	0.92	0.10	-1.23	39,39,39,39	0
6	MG	D	9009	1/1	0.97	0.11	-1.29	43,43,43,43	0
6	MG	D	9054	1/1	0.75	0.11	-1.32	44,44,44,44	0
6	MG	M	9299	1/1	0.90	0.14	-1.34	43,43,43,43	0
6	MG	M	9300	1/1	0.91	0.11	-1.37	39,39,39,39	0
6	MG	A	9081	1/1	0.88	0.10	-1.39	40,40,40,40	0
6	MG	A	9002	1/1	0.98	0.16	-1.39	31,31,31,31	0
6	MG	D	9028	1/1	0.91	0.12	-1.44	34,34,34,34	0
6	MG	N	9467	1/1	0.92	0.18	-1.48	35,35,35,35	0
6	MG	C	9004	1/1	0.77	0.15	-1.51	39,39,39,39	0
6	MG	M	9196	1/1	0.97	0.10	-1.53	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9434	1/1	0.98	0.09	-1.55	34,34,34,34	0
6	MG	D	9087	1/1	0.92	0.12	-1.58	43,43,43,43	0
6	MG	B	9059	1/1	0.89	0.14	-1.60	48,48,48,48	0
6	MG	N	9207	1/1	0.94	0.09	-1.63	41,41,41,41	0
6	MG	N	9199	1/1	0.98	0.07	-1.67	35,35,35,35	0
6	MG	K	9188	1/1	0.92	0.14	-1.68	40,40,40,40	0
6	MG	B	9032	1/1	0.87	0.08	-1.70	34,34,34,34	0
6	MG	N	9271	1/1	0.97	0.08	-1.73	43,43,43,43	0
6	MG	E	9074	1/1	0.96	0.04	-1.82	59,59,59,59	0
6	MG	D	9036	1/1	0.83	0.09	-1.84	44,44,44,44	0
6	MG	F	9035	1/1	0.96	0.10	-1.86	40,40,40,40	0
6	MG	D	9024	1/1	0.91	0.08	-1.87	36,36,36,36	0
8	ZN	N	7059	1/1	0.84	0.06	-1.89	93,93,93,93	0
6	MG	N	9238	1/1	0.96	0.13	-1.94	43,43,43,43	0
6	MG	D	9113	1/1	0.97	0.09	-1.99	34,34,34,34	0
6	MG	P	9228	1/1	0.97	0.08	-2.02	43,43,43,43	0
6	MG	A	9013	1/1	0.94	0.07	-2.02	44,44,44,44	0
6	MG	D	9365	1/1	0.93	0.25	-2.04	41,41,41,41	0
6	MG	C	9003	1/1	0.95	0.11	-2.06	38,38,38,38	0
6	MG	D	9367	1/1	0.89	0.12	-2.13	31,31,31,31	0
6	MG	D	9330	1/1	0.86	0.15	-2.22	39,39,39,39	0
6	MG	D	9011	1/1	0.98	0.07	-2.23	33,33,33,33	0
6	MG	M	9239	1/1	0.92	0.11	-2.28	34,34,34,34	0
6	MG	M	9260	1/1	0.90	0.10	-2.32	36,36,36,36	0
6	MG	C	9092	1/1	0.95	0.06	-2.35	44,44,44,44	0
6	MG	N	9298	1/1	0.98	0.04	-2.40	55,55,55,55	0
6	MG	C	9046	1/1	0.99	0.04	-2.40	38,38,38,38	0
8	ZN	N	7113	1/1	0.87	0.07	-2.41	84,84,84,84	0
6	MG	A	9156	1/1	0.91	0.07	-2.45	43,43,43,43	0
6	MG	C	9015	1/1	0.98	0.11	-2.47	38,38,38,38	0
6	MG	N	9243	1/1	0.91	0.12	-2.50	35,35,35,35	0
6	MG	N	9214	1/1	0.99	0.06	-2.50	33,33,33,33	0
6	MG	A	9010	1/1	0.93	0.08	-2.53	30,30,30,30	0
6	MG	D	9089	1/1	0.97	0.06	-2.59	36,36,36,36	0
6	MG	N	9431	1/1	0.96	0.09	-2.63	39,39,39,39	0
6	MG	D	9329	1/1	0.90	0.09	-2.74	33,33,33,33	0
8	ZN	D	7112	1/1	0.94	0.05	-2.90	80,80,80,80	0
6	MG	N	9316	1/1	0.99	0.06	-3.06	37,37,37,37	0
6	MG	A	9088	1/1	0.99	0.05	-3.22	36,36,36,36	0
6	MG	A	9027	1/1	0.88	0.07	-3.26	37,37,37,37	0
6	MG	D	9333	1/1	0.98	0.05	-3.37	33,33,33,33	0
6	MG	M	9268	1/1	0.96	0.11	-3.43	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9062	1/1	0.85	0.07	-3.54	47,47,47,47	0
6	MG	N	9184	1/1	0.95	0.07	-3.61	29,29,29,29	0
6	MG	C	9051	1/1	0.98	0.08	-3.66	37,37,37,37	0
6	MG	K	9180	1/1	0.99	0.11	-3.81	42,42,42,42	0
6	MG	M	9195	1/1	0.97	0.04	-4.07	34,34,34,34	0
6	MG	C	9061	1/1	0.96	0.06	-4.47	34,34,34,34	0
6	MG	M	9205	1/1	0.97	0.06	-4.65	38,38,38,38	0
6	MG	C	9053	1/1	0.99	0.07	-5.19	30,30,30,30	0
6	MG	N	9293	1/1	0.82	0.07	-	42,42,42,42	0
6	MG	L	9421	1/1	0.92	0.07	-	53,53,53,53	0
6	MG	B	9110	1/1	0.96	0.13	-	49,49,49,49	0
6	MG	M	9486	1/1	0.86	0.13	-	48,48,48,48	0
6	MG	A	9124	1/1	0.96	0.10	-	39,39,39,39	0
6	MG	M	9248	1/1	0.97	0.23	-	48,48,48,48	0
6	MG	D	9364	1/1	0.97	0.06	-	47,47,47,47	0
6	MG	L	9252	1/1	0.96	0.15	-	45,45,45,45	0
6	MG	D	9039	1/1	0.95	0.09	-	44,44,44,44	0
6	MG	K	9290	1/1	0.92	0.12	-	51,51,51,51	0
6	MG	M	9295	1/1	0.96	0.23	-	42,42,42,42	0
6	MG	A	9345	1/1	0.96	0.07	-	41,41,41,41	0
6	MG	K	9264	1/1	0.95	0.05	-	42,42,42,42	0
6	MG	F	9008	1/1	0.93	0.07	-	40,40,40,40	0
6	MG	M	9220	1/1	0.86	0.10	-	51,51,51,51	0
6	MG	M	9440	1/1	0.97	0.08	-	50,50,50,50	0
6	MG	F	9356	1/1	0.93	0.10	-	37,37,37,37	0
6	MG	M	9256	1/1	0.94	0.05	-	56,56,56,56	0
6	MG	D	9351	1/1	0.96	0.14	-	43,43,43,43	0
6	MG	D	9058	1/1	0.95	0.11	-	38,38,38,38	0
6	MG	B	9358	1/1	0.99	0.13	-	39,39,39,39	0
6	MG	D	9084	1/1	0.97	0.06	-	37,37,37,37	0
6	MG	N	9292	1/1	0.90	0.07	-	56,56,56,56	0
6	MG	B	9359	1/1	0.97	0.04	-	52,52,52,52	0
6	MG	C	9067	1/1	0.92	0.08	-	57,57,57,57	0
6	MG	C	9020	1/1	0.97	0.09	-	34,34,34,34	0
6	MG	K	9433	1/1	0.94	0.09	-	50,50,50,50	0
6	MG	F	9389	1/1	0.96	0.18	-	53,53,53,53	0
6	MG	C	9176	1/1	0.87	0.18	-	28,28,28,28	0
6	MG	C	9138	1/1	0.92	0.18	-	43,43,43,43	0
6	MG	M	9319	1/1	0.96	0.18	-	41,41,41,41	0
6	MG	D	9135	1/1	0.95	0.13	-	50,50,50,50	0
6	MG	A	9043	1/1	0.97	0.05	-	37,37,37,37	0
6	MG	C	9361	1/1	0.93	0.10	-	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	K	9405	1/1	0.92	0.07	-	56,56,56,56	0
6	MG	D	9102	1/1	0.92	0.10	-	44,44,44,44	0
6	MG	B	9093	1/1	0.95	0.10	-	40,40,40,40	0
6	MG	B	9457	1/1	0.97	0.18	-	43,43,43,43	0
6	MG	D	9163	1/1	0.94	0.15	-	52,52,52,52	0
6	MG	N	9221	1/1	0.97	0.06	-	44,44,44,44	0
6	MG	D	9121	1/1	0.93	0.06	-	35,35,35,35	0
6	MG	A	9125	1/1	0.93	0.09	-	36,36,36,36	0
6	MG	C	9362	1/1	0.94	0.09	-	55,55,55,55	0
6	MG	C	9126	1/1	0.97	0.13	-	46,46,46,46	0
6	MG	C	9168	1/1	0.91	0.13	-	45,45,45,45	0
6	MG	F	9481	1/1	0.96	0.23	-	57,57,57,57	0
6	MG	D	9144	1/1	0.98	0.13	-	39,39,39,39	0
6	MG	C	9128	1/1	0.99	0.16	-	52,52,52,52	0
6	MG	D	9373	1/1	0.97	0.07	-	51,51,51,51	0
6	MG	C	9340	1/1	0.90	0.29	-	60,60,60,60	0
6	MG	P	9315	1/1	0.97	0.12	-	35,35,35,35	0
6	MG	L	9289	1/1	0.68	0.19	-	62,62,62,62	0
6	MG	D	9374	1/1	0.99	0.17	-	41,41,41,41	0
6	MG	C	9461	1/1	0.94	0.17	-	50,50,50,50	0
6	MG	D	9152	1/1	0.94	0.12	-	67,67,67,67	0
6	MG	D	9339	1/1	0.95	0.08	-	37,37,37,37	0
6	MG	D	9166	1/1	0.92	0.11	-	40,40,40,40	0
6	MG	C	9455	1/1	0.93	0.09	-	40,40,40,40	0
6	MG	D	9118	1/1	0.92	0.12	-	44,44,44,44	0
6	MG	A	9016	1/1	0.97	0.09	-	36,36,36,36	0
6	MG	M	9452	1/1	0.95	0.16	-	42,42,42,42	0
6	MG	C	9107	1/1	0.76	0.12	-	42,42,42,42	0
6	MG	D	9379	1/1	0.96	0.07	-	47,47,47,47	0
6	MG	C	9122	1/1	0.97	0.06	-	56,56,56,56	0
6	MG	N	9215	1/1	0.92	0.08	-	32,32,32,32	0
6	MG	N	9415	1/1	0.95	0.05	-	42,42,42,42	0
6	MG	D	9348	1/1	0.82	0.16	-	57,57,57,57	0
6	MG	D	9023	1/1	0.90	0.08	-	34,34,34,34	0
6	MG	M	9412	1/1	0.84	0.21	-	43,43,43,43	0
6	MG	C	9044	1/1	0.95	0.11	-	34,34,34,34	0
6	MG	M	9320	1/1	0.99	0.26	-	34,34,34,34	0
6	MG	N	9419	1/1	0.92	0.27	-	51,51,51,51	0
6	MG	P	9235	1/1	0.92	0.13	-	40,40,40,40	0
6	MG	K	9432	1/1	0.89	0.08	-	49,49,49,49	0
6	MG	M	9409	1/1	0.97	0.10	-	36,36,36,36	0
6	MG	M	9284	1/1	0.97	0.06	-	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	C	9154	1/1	0.98	0.12	-	43,43,43,43	0
6	MG	C	9055	1/1	0.97	0.10	-	38,38,38,38	0
6	MG	D	9120	1/1	0.98	0.14	-	31,31,31,31	0
6	MG	D	9331	1/1	0.86	0.13	-	43,43,43,43	0
6	MG	D	9069	1/1	0.95	0.10	-	48,48,48,48	0
6	MG	N	9303	1/1	0.98	0.08	-	54,54,54,54	0
6	MG	C	9464	1/1	0.98	0.26	-	48,48,48,48	0
6	MG	C	9021	1/1	0.97	0.13	-	37,37,37,37	0
6	MG	D	9158	1/1	0.83	0.22	-	60,60,60,60	0
6	MG	K	9438	1/1	0.86	0.10	-	52,52,52,52	0
6	MG	M	9305	1/1	0.98	0.14	-	46,46,46,46	0
6	MG	L	9314	1/1	0.94	0.18	-	56,56,56,56	0
6	MG	N	9435	1/1	0.90	0.08	-	53,53,53,53	0
6	MG	B	9080	1/1	0.91	0.26	-	56,56,56,56	0
6	MG	N	9472	1/1	0.98	0.07	-	56,56,56,56	0
6	MG	N	9404	1/1	0.89	0.17	-	55,55,55,55	0
6	MG	M	9442	1/1	0.98	0.24	-	59,59,59,59	0
6	MG	P	9216	1/1	0.85	0.10	-	48,48,48,48	0
6	MG	N	9313	1/1	0.93	0.05	-	43,43,43,43	0
6	MG	L	9414	1/1	0.88	0.10	-	51,51,51,51	0
6	MG	F	9159	1/1	0.90	0.06	-	57,57,57,57	0
6	MG	D	9336	1/1	0.95	0.06	-	53,53,53,53	0
6	MG	D	9386	1/1	0.99	0.07	-	40,40,40,40	0
6	MG	C	9022	1/1	0.94	0.07	-	37,37,37,37	0
6	MG	N	9181	1/1	0.92	0.07	-	47,47,47,47	0
6	MG	D	9091	1/1	0.99	0.04	-	27,27,27,27	0
6	MG	C	9360	1/1	0.91	0.16	-	53,53,53,53	0
6	MG	C	9119	1/1	0.91	0.11	-	43,43,43,43	0
6	MG	C	9042	1/1	0.97	0.08	-	47,47,47,47	0
6	MG	D	9174	1/1	0.94	0.16	-	47,47,47,47	0
6	MG	N	9276	1/1	0.95	0.20	-	61,61,61,61	0
6	MG	P	9285	1/1	0.95	0.10	-	56,56,56,56	0
6	MG	F	9148	1/1	0.97	0.13	-	54,54,54,54	0
6	MG	M	9230	1/1	0.90	0.15	-	50,50,50,50	0
6	MG	D	9041	1/1	0.94	0.07	-	47,47,47,47	0
6	MG	C	9350	1/1	0.74	0.14	-	60,60,60,60	0
6	MG	C	9366	1/1	0.99	0.04	-	41,41,41,41	0
6	MG	M	9324	1/1	0.84	0.18	-	41,41,41,41	0
6	MG	N	9267	1/1	0.91	0.12	-	42,42,42,42	0
6	MG	D	9146	1/1	0.99	0.07	-	31,31,31,31	0
6	MG	D	9167	1/1	0.95	0.09	-	49,49,49,49	0
6	MG	D	9137	1/1	0.97	0.04	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9369	1/1	0.97	0.20	-	49,49,49,49	0
6	MG	F	9048	1/1	0.97	0.16	-	41,41,41,41	0
6	MG	D	9177	1/1	0.93	0.18	-	64,64,64,64	0
6	MG	B	9378	1/1	0.97	0.17	-	47,47,47,47	0
6	MG	D	9133	1/1	0.98	0.14	-	42,42,42,42	0
6	MG	F	9387	1/1	0.96	0.12	-	53,53,53,53	0
6	MG	N	9186	1/1	0.92	0.07	-	49,49,49,49	0
6	MG	D	9063	1/1	0.94	0.10	-	33,33,33,33	0
6	MG	F	9109	1/1	0.79	0.09	-	60,60,60,60	0
6	MG	L	9306	1/1	0.97	0.05	-	57,57,57,57	0
6	MG	N	9288	1/1	0.96	0.09	-	49,49,49,49	0
6	MG	M	9294	1/1	0.92	0.10	-	52,52,52,52	0
6	MG	D	9480	1/1	0.97	0.23	-	55,55,55,55	0
6	MG	F	9363	1/1	0.95	0.11	-	53,53,53,53	0
6	MG	N	9449	1/1	0.84	0.15	-	51,51,51,51	0
6	MG	A	9384	1/1	0.96	0.09	-	39,39,39,39	0
6	MG	M	9263	1/1	0.95	0.15	-	56,56,56,56	0
6	MG	D	9346	1/1	0.90	0.16	-	47,47,47,47	0
6	MG	D	9396	1/1	0.96	0.26	-	62,62,62,62	0
6	MG	N	9249	1/1	0.94	0.13	-	45,45,45,45	0
6	MG	D	9328	1/1	0.98	0.05	-	30,30,30,30	0
6	MG	M	9272	1/1	0.94	0.24	-	45,45,45,45	0
6	MG	A	9368	1/1	0.95	0.05	-	43,43,43,43	0
6	MG	N	9270	1/1	0.94	0.07	-	39,39,39,39	0
6	MG	C	9071	1/1	0.91	0.11	-	42,42,42,42	0
6	MG	B	9116	1/1	0.91	0.07	-	38,38,38,38	0
6	MG	D	9132	1/1	0.97	0.13	-	43,43,43,43	0
6	MG	M	9321	1/1	0.99	0.04	-	41,41,41,41	0
6	MG	D	9453	1/1	0.90	0.10	-	38,38,38,38	0
6	MG	N	9323	1/1	0.97	0.17	-	38,38,38,38	0
6	MG	K	9223	1/1	0.96	0.16	-	32,32,32,32	0
6	MG	D	9072	1/1	0.99	0.06	-	32,32,32,32	0
6	MG	M	9222	1/1	0.97	0.12	-	35,35,35,35	0
6	MG	A	9357	1/1	0.92	0.08	-	54,54,54,54	0
6	MG	C	9065	1/1	0.94	0.13	-	37,37,37,37	0
6	MG	D	9385	1/1	0.92	0.17	-	35,35,35,35	0
6	MG	D	9129	1/1	0.90	0.13	-	42,42,42,42	0
6	MG	D	9005	1/1	0.96	0.11	-	40,40,40,40	0
6	MG	N	9187	1/1	0.98	0.05	-	33,33,33,33	0
6	MG	N	9465	1/1	0.91	0.06	-	49,49,49,49	0
6	MG	O	9296	1/1	0.96	0.05	-	42,42,42,42	0
6	MG	L	9307	1/1	0.96	0.08	-	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9424	1/1	0.93	0.08	-	34,34,34,34	0
6	MG	P	9280	1/1	0.93	0.11	-	51,51,51,51	0
6	MG	P	9325	1/1	0.74	0.34	-	49,49,49,49	0
6	MG	N	9444	1/1	0.97	0.13	-	49,49,49,49	0
6	MG	A	9342	1/1	0.97	0.06	-	39,39,39,39	0
6	MG	M	9310	1/1	0.80	0.13	-	46,46,46,46	0
6	MG	A	9078	1/1	0.90	0.18	-	66,66,66,66	0
6	MG	D	9151	1/1	0.93	0.07	-	57,57,57,57	0
6	MG	M	9401	1/1	0.98	0.08	-	37,37,37,37	0
6	MG	D	9165	1/1	0.98	0.20	-	32,32,32,32	0
6	MG	D	9070	1/1	0.97	0.05	-	33,33,33,33	0
6	MG	C	9047	1/1	0.95	0.18	-	53,53,53,53	0
6	MG	N	9317	1/1	0.97	0.31	-	43,43,43,43	0
6	MG	C	9143	1/1	0.97	0.16	-	35,35,35,35	0
6	MG	M	9471	1/1	0.89	0.16	-	47,47,47,47	0
6	MG	A	9460	1/1	0.94	0.22	-	55,55,55,55	0
6	MG	D	9127	1/1	0.98	0.04	-	48,48,48,48	0
6	MG	C	9086	1/1	0.97	0.08	-	39,39,39,39	0
6	MG	M	9224	1/1	0.93	0.13	-	40,40,40,40	0
6	MG	N	9287	1/1	0.91	0.16	-	53,53,53,53	0
6	MG	F	9123	1/1	0.94	0.15	-	37,37,37,37	0
6	MG	D	9014	1/1	0.94	0.10	-	41,41,41,41	0
6	MG	K	9413	1/1	0.90	0.17	-	54,54,54,54	0
6	MG	M	9411	1/1	0.97	0.14	-	47,47,47,47	0
6	MG	O	9198	1/1	0.98	0.06	-	36,36,36,36	0
6	MG	M	9474	1/1	0.96	0.23	-	49,49,49,49	0
6	MG	D	9392	1/1	0.97	0.10	-	52,52,52,52	0
6	MG	M	9406	1/1	0.91	0.13	-	67,67,67,67	0
6	MG	A	9352	1/1	0.79	0.28	-	46,46,46,46	0
6	MG	P	9258	1/1	0.98	0.06	-	51,51,51,51	0
6	MG	N	9448	1/1	0.95	0.06	-	51,51,51,51	0
6	MG	F	9393	1/1	0.97	0.19	-	38,38,38,38	0
6	MG	K	9469	1/1	0.99	0.13	-	50,50,50,50	0
6	MG	O	9420	1/1	0.95	0.16	-	51,51,51,51	0
6	MG	N	9426	1/1	0.93	0.29	-	41,41,41,41	0
6	MG	D	9130	1/1	0.98	0.06	-	51,51,51,51	0
6	MG	D	9341	1/1	0.91	0.07	-	41,41,41,41	0
6	MG	K	9244	1/1	0.97	0.14	-	44,44,44,44	0
6	MG	C	9149	1/1	0.94	0.17	-	48,48,48,48	0
6	MG	C	9050	1/1	0.98	0.07	-	37,37,37,37	0
6	MG	N	9445	1/1	0.93	0.06	-	51,51,51,51	0
6	MG	O	9439	1/1	0.96	0.09	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9225	1/1	0.94	0.13	-	56,56,56,56	0
6	MG	C	9162	1/1	0.84	0.23	-	50,50,50,50	0
6	MG	M	9441	1/1	0.87	0.17	-	45,45,45,45	0
6	MG	D	9343	1/1	0.91	0.13	-	59,59,59,59	0
6	MG	M	9210	1/1	0.91	0.11	-	41,41,41,41	0
6	MG	D	9397	1/1	0.96	0.12	-	51,51,51,51	0
6	MG	D	9082	1/1	0.76	0.17	-	60,60,60,60	0
6	MG	M	9201	1/1	0.95	0.09	-	45,45,45,45	0
6	MG	N	9232	1/1	0.96	0.07	-	47,47,47,47	0
6	MG	L	9309	1/1	0.87	0.13	-	49,49,49,49	0
6	MG	A	9097	1/1	0.97	0.07	-	34,34,34,34	0
6	MG	A	9111	1/1	0.92	0.10	-	35,35,35,35	0
6	MG	C	9353	1/1	0.93	0.16	-	48,48,48,48	0
6	MG	C	9371	1/1	0.93	0.08	-	54,54,54,54	0
6	MG	F	9376	1/1	0.93	0.06	-	62,62,62,62	0
6	MG	M	9261	1/1	0.98	0.04	-	47,47,47,47	0
6	MG	C	9175	1/1	0.81	0.15	-	68,68,68,68	0
6	MG	B	9094	1/1	0.95	0.06	-	38,38,38,38	0
6	MG	P	9399	1/1	0.97	0.11	-	34,34,34,34	0
6	MG	P	9202	1/1	0.89	0.08	-	49,49,49,49	0
6	MG	B	9458	1/1	0.90	0.13	-	44,44,44,44	0
6	MG	N	9326	1/1	0.98	0.09	-	62,62,62,62	0
6	MG	A	9332	1/1	0.94	0.18	-	35,35,35,35	0
6	MG	A	9395	1/1	0.93	0.10	-	50,50,50,50	0
6	MG	D	9100	1/1	0.95	0.09	-	43,43,43,43	0
6	MG	N	9322	1/1	0.96	0.09	-	54,54,54,54	0
6	MG	N	9192	1/1	0.89	0.10	-	62,62,62,62	0
6	MG	N	9318	1/1	0.98	0.17	-	34,34,34,34	0
6	MG	N	9443	1/1	0.95	0.13	-	54,54,54,54	0
6	MG	F	9382	1/1	0.92	0.13	-	40,40,40,40	0
6	MG	C	9178	1/1	0.96	0.07	-	39,39,39,39	0
6	MG	N	9179	1/1	0.97	0.16	-	33,33,33,33	0
6	MG	D	9349	1/1	0.89	0.09	-	33,33,33,33	0
6	MG	N	9217	1/1	0.96	0.04	-	48,48,48,48	0
6	MG	D	9338	1/1	0.95	0.07	-	42,42,42,42	0
6	MG	N	9253	1/1	0.97	0.04	-	42,42,42,42	0
6	MG	N	9262	1/1	0.99	0.07	-	51,51,51,51	0
6	MG	L	9437	1/1	0.94	0.14	-	40,40,40,40	0
6	MG	F	9139	1/1	1.00	0.12	-	38,38,38,38	0
6	MG	C	9355	1/1	0.91	0.23	-	58,58,58,58	0
6	MG	M	9234	1/1	0.94	0.08	-	53,53,53,53	0
6	MG	D	9335	1/1	0.98	0.11	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9006	1/1	0.89	0.06	-	40,40,40,40	0
6	MG	D	9052	1/1	0.96	0.11	-	65,65,65,65	0
6	MG	N	9231	1/1	0.98	0.15	-	52,52,52,52	0
6	MG	N	9429	1/1	0.95	0.13	-	45,45,45,45	0
6	MG	F	9390	1/1	0.97	0.24	-	46,46,46,46	0
6	MG	M	9275	1/1	0.95	0.06	-	55,55,55,55	0
6	MG	D	9173	1/1	0.98	0.17	-	48,48,48,48	0
6	MG	C	9372	1/1	0.76	0.15	-	61,61,61,61	0
6	MG	B	9083	1/1	0.99	0.16	-	40,40,40,40	0
6	MG	D	9134	1/1	0.99	0.06	-	47,47,47,47	0
6	MG	N	9417	1/1	0.98	0.14	-	39,39,39,39	0
6	MG	N	9302	1/1	0.98	0.14	-	31,31,31,31	0
6	MG	F	9172	1/1	0.87	0.24	-	51,51,51,51	0
6	MG	C	9142	1/1	0.97	0.23	-	48,48,48,48	0
6	MG	D	9108	1/1	0.92	0.07	-	51,51,51,51	0
6	MG	P	9436	1/1	0.96	0.12	-	49,49,49,49	0
6	MG	M	9227	1/1	0.92	0.10	-	35,35,35,35	0
6	MG	C	9145	1/1	0.94	0.13	-	66,66,66,66	0
6	MG	F	9101	1/1	0.96	0.11	-	44,44,44,44	0
6	MG	L	9246	1/1	0.82	0.15	-	52,52,52,52	0
6	MG	D	9030	1/1	0.89	0.12	-	48,48,48,48	0
6	MG	M	9190	1/1	0.97	0.05	-	29,29,29,29	0
6	MG	C	9115	1/1	0.95	0.16	-	36,36,36,36	0
6	MG	N	9204	1/1	0.99	0.03	-	44,44,44,44	0
6	MG	D	9334	1/1	0.94	0.06	-	54,54,54,54	0
6	MG	P	9277	1/1	0.91	0.07	-	41,41,41,41	0
6	MG	M	9212	1/1	0.95	0.10	-	32,32,32,32	0
6	MG	N	9468	1/1	0.97	0.20	-	55,55,55,55	0
6	MG	A	9106	1/1	0.95	0.10	-	38,38,38,38	0
6	MG	N	9185	1/1	0.98	0.06	-	56,56,56,56	0
6	MG	L	9278	1/1	0.88	0.17	-	44,44,44,44	0
6	MG	C	9026	1/1	0.97	0.07	-	42,42,42,42	0
6	MG	D	9456	1/1	0.96	0.14	-	55,55,55,55	0
6	MG	N	9274	1/1	0.97	0.10	-	40,40,40,40	0
6	MG	C	9160	1/1	0.86	0.14	-	44,44,44,44	0
6	MG	F	9370	1/1	0.89	0.38	-	46,46,46,46	0
6	MG	C	9112	1/1	0.97	0.07	-	39,39,39,39	0
6	MG	C	9090	1/1	0.91	0.22	-	47,47,47,47	0
6	MG	D	9161	1/1	0.89	0.09	-	57,57,57,57	0
6	MG	B	9104	1/1	0.96	0.05	-	45,45,45,45	0
6	MG	N	9430	1/1	0.92	0.32	-	57,57,57,57	0
6	MG	L	9245	1/1	0.96	0.28	-	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	B	9136	1/1	0.98	0.07	-	47,47,47,47	0
6	MG	A	9012	1/1	0.97	0.14	-	47,47,47,47	0
6	MG	P	9255	1/1	0.95	0.05	-	34,34,34,34	0
6	MG	F	9383	1/1	0.92	0.26	-	48,48,48,48	0
6	MG	C	9394	1/1	0.96	0.13	-	33,33,33,33	0
6	MG	N	9269	1/1	0.97	0.10	-	42,42,42,42	0
6	MG	P	9482	1/1	0.97	0.07	-	48,48,48,48	0
6	MG	E	9045	1/1	0.91	0.08	-	61,61,61,61	0
6	MG	K	9257	1/1	0.91	0.22	-	58,58,58,58	0
6	MG	O	9254	1/1	0.93	0.10	-	39,39,39,39	0
6	MG	L	9283	1/1	0.97	0.07	-	59,59,59,59	0
6	MG	N	9408	1/1	0.99	0.15	-	45,45,45,45	0
6	MG	N	9233	1/1	0.83	0.09	-	62,62,62,62	0
6	MG	M	9281	1/1	0.94	0.25	-	49,49,49,49	0
6	MG	O	9266	1/1	0.94	0.14	-	47,47,47,47	0
6	MG	N	9427	1/1	0.74	0.21	-	58,58,58,58	0
6	MG	N	9229	1/1	0.93	0.08	-	41,41,41,41	0
6	MG	C	9487	1/1	0.98	0.14	-	32,32,32,32	0
6	MG	A	9380	1/1	0.89	0.09	-	44,44,44,44	0
6	MG	M	9416	1/1	0.96	0.20	-	45,45,45,45	0
6	MG	F	9157	1/1	0.97	0.06	-	42,42,42,42	0
6	MG	N	9428	1/1	0.97	0.12	-	42,42,42,42	0
6	MG	L	9466	1/1	0.96	0.14	-	49,49,49,49	0
6	MG	L	9218	1/1	0.96	0.14	-	33,33,33,33	0
6	MG	N	9291	1/1	0.84	0.12	-	64,64,64,64	0
6	MG	K	9470	1/1	0.89	0.06	-	55,55,55,55	0
6	MG	N	9418	1/1	0.87	0.11	-	49,49,49,49	0
6	MG	N	9265	1/1	0.96	0.07	-	61,61,61,61	0
6	MG	F	9105	1/1	0.97	0.03	-	36,36,36,36	0
6	MG	B	9478	1/1	0.94	0.15	-	61,61,61,61	0
6	MG	C	9377	1/1	0.96	0.06	-	44,44,44,44	0
6	MG	D	9085	1/1	0.99	0.15	-	49,49,49,49	0
6	MG	D	9459	1/1	0.94	0.17	-	54,54,54,54	0
6	MG	D	9117	1/1	0.99	0.13	-	48,48,48,48	0
6	MG	O	9483	1/1	0.79	0.26	-	63,63,63,63	0
6	MG	C	9037	1/1	0.96	0.04	-	51,51,51,51	0
6	MG	B	9056	1/1	0.97	0.08	-	43,43,43,43	0
6	MG	M	9447	1/1	0.85	0.19	-	64,64,64,64	0
6	MG	D	9347	1/1	0.88	0.28	-	49,49,49,49	0
6	MG	A	9477	1/1	0.96	0.12	-	52,52,52,52	0
6	MG	D	9337	1/1	0.95	0.10	-	53,53,53,53	0
6	MG	C	9025	1/1	0.96	0.08	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	P	9297	1/1	0.91	0.12	-	45,45,45,45	0
6	MG	N	9484	1/1	0.92	0.20	-	37,37,37,37	0
6	MG	D	9388	1/1	0.94	0.16	-	37,37,37,37	0
6	MG	D	9096	1/1	0.97	0.11	-	60,60,60,60	0
6	MG	D	9064	1/1	0.88	0.07	-	44,44,44,44	0
6	MG	N	9206	1/1	0.99	0.02	-	31,31,31,31	0
6	MG	A	9153	1/1	0.91	0.06	-	66,66,66,66	0
6	MG	E	9155	1/1	0.97	0.04	-	44,44,44,44	0
6	MG	N	9451	1/1	0.97	0.11	-	41,41,41,41	0
6	MG	D	9077	1/1	0.94	0.11	-	35,35,35,35	0
6	MG	M	9203	1/1	0.98	0.04	-	32,32,32,32	0
6	MG	C	9049	1/1	0.97	0.04	-	46,46,46,46	0
6	MG	K	9191	1/1	0.94	0.07	-	32,32,32,32	0
6	MG	N	9311	1/1	1.00	0.11	-	39,39,39,39	0
6	MG	B	9103	1/1	0.94	0.11	-	43,43,43,43	0
6	MG	F	9098	1/1	0.93	0.17	-	54,54,54,54	0
6	MG	C	9463	1/1	0.95	0.23	-	55,55,55,55	0
6	MG	C	9114	1/1	0.95	0.10	-	30,30,30,30	0
6	MG	M	9273	1/1	0.84	0.12	-	44,44,44,44	0
6	MG	D	9018	1/1	0.91	0.10	-	39,39,39,39	0
6	MG	D	9140	1/1	0.99	0.12	-	40,40,40,40	0
6	MG	D	9344	1/1	0.96	0.07	-	55,55,55,55	0
6	MG	F	9060	1/1	0.94	0.10	-	41,41,41,41	0
6	MG	F	9375	1/1	0.94	0.07	-	36,36,36,36	0
6	MG	N	9240	1/1	0.97	0.16	-	46,46,46,46	0
6	MG	N	9423	1/1	0.83	0.12	-	58,58,58,58	0
6	MG	N	9476	1/1	0.97	0.09	-	54,54,54,54	0
6	MG	B	9131	1/1	0.94	0.10	-	33,33,33,33	0
6	MG	C	9381	1/1	0.80	0.15	-	53,53,53,53	0
6	MG	D	9150	1/1	0.98	0.05	-	31,31,31,31	0
6	MG	C	9391	1/1	0.79	0.24	-	60,60,60,60	0
6	MG	P	9209	1/1	0.95	0.19	-	46,46,46,46	0
6	MG	N	9308	1/1	0.96	0.19	-	55,55,55,55	0
6	MG	N	9259	1/1	0.94	0.08	-	34,34,34,34	0
6	MG	N	9473	1/1	0.94	0.23	-	51,51,51,51	0
6	MG	M	9485	1/1	0.88	0.11	-	54,54,54,54	0
6	MG	A	9068	1/1	0.97	0.09	-	39,39,39,39	0
6	MG	N	9193	1/1	0.98	0.08	-	34,34,34,34	0
6	MG	N	9304	1/1	0.93	0.17	-	47,47,47,47	0
6	MG	C	9019	1/1	0.90	0.08	-	57,57,57,57	0
6	MG	M	9250	1/1	0.97	0.06	-	38,38,38,38	0
6	MG	N	9327	1/1	0.89	0.08	-	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	N	9279	1/1	0.97	0.20	-	54,54,54,54	0
6	MG	M	9312	1/1	0.90	0.09	-	37,37,37,37	0
6	MG	C	9454	1/1	0.93	0.22	-	55,55,55,55	0
6	MG	D	9147	1/1	0.91	0.14	-	41,41,41,41	0
6	MG	N	9286	1/1	0.98	0.13	-	31,31,31,31	0
6	MG	C	9076	1/1	1.00	0.09	-	33,33,33,33	0
6	MG	P	9226	1/1	0.71	0.17	-	43,43,43,43	0
6	MG	F	9099	1/1	0.94	0.18	-	56,56,56,56	0
6	MG	D	9141	1/1	0.91	0.11	-	50,50,50,50	0
6	MG	C	9169	1/1	0.91	0.06	-	42,42,42,42	0
6	MG	K	9251	1/1	0.96	0.06	-	43,43,43,43	0
6	MG	K	9301	1/1	0.93	0.19	-	43,43,43,43	0
6	MG	D	9034	1/1	0.94	0.15	-	41,41,41,41	0
6	MG	N	9422	1/1	0.94	0.11	-	56,56,56,56	0
6	MG	N	9194	1/1	0.79	0.13	-	51,51,51,51	0
6	MG	N	9236	1/1	0.97	0.12	-	39,39,39,39	0
6	MG	C	9170	1/1	0.98	0.10	-	41,41,41,41	0
6	MG	P	9446	1/1	0.97	0.05	-	34,34,34,34	0
6	MG	N	9450	1/1	0.93	0.07	-	48,48,48,48	0
6	MG	C	9079	1/1	0.96	0.20	-	38,38,38,38	0
6	MG	N	9425	1/1	0.93	0.11	-	46,46,46,46	0
6	MG	E	9479	1/1	0.93	0.17	-	62,62,62,62	0
6	MG	M	9475	1/1	0.97	0.23	-	62,62,62,62	0
6	MG	N	9403	1/1	0.96	0.10	-	34,34,34,34	0
6	MG	M	9241	1/1	0.98	0.14	-	36,36,36,36	0
6	MG	A	9171	1/1	0.95	0.15	-	58,58,58,58	0
6	MG	C	9164	1/1	0.97	0.10	-	49,49,49,49	0
6	MG	B	9040	1/1	0.98	0.04	-	36,36,36,36	0
6	MG	M	9237	1/1	0.93	0.16	-	52,52,52,52	0
6	MG	P	9282	1/1	0.95	0.06	-	56,56,56,56	0
6	MG	A	9066	1/1	0.95	0.06	-	47,47,47,47	0
6	MG	A	9075	1/1	0.95	0.07	-	36,36,36,36	0
6	MG	C	9462	1/1	0.97	0.13	-	43,43,43,43	0

6.5 Other polymers ⓘ

There are no such residues in this entry.