



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 09:49 AM UTC

PDB ID : 6ZTZ / pdb_00006ztz
EMDB ID : EMD-22166
Title : Assembly intermediates of orthoreovirus captured in the cell
Authors : Sutton, G.C.; Stuart, D.I.
Deposited on : 2020-07-20
Resolution : 6.50 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

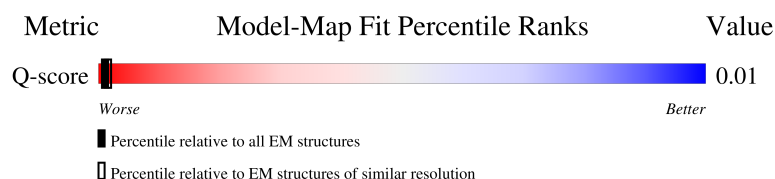
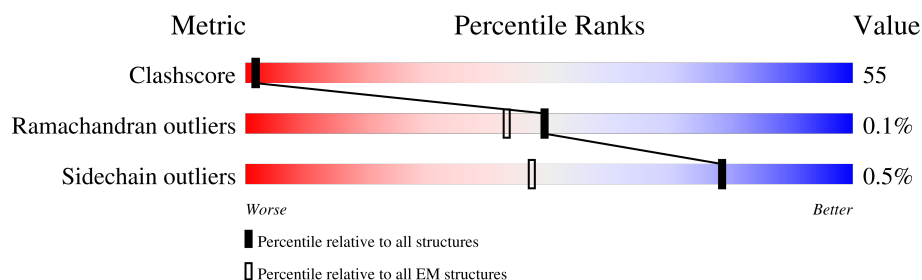
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 6.50 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	556 (6.00 - 7.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	B	1035	100% 29% 70%
2	C	1008	95% 26% 73%
3	D	417	96% 26% 74%
3	P	417	84% 25% 74%

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Mol	Chain	Length	Quality of chain
4	K	641	 89% 27% 72%
4	L	641	 91% 30% 70%
4	M	641	 92% 31% 68%
5	O	1284	 91% 25% 74%
6	X	365	 92% 23% 76%
6	Y	365	 94% 28% 72%
6	Z	365	 92% 27% 73%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 56150 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Inner capsid protein lambda-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	1035	Total	C	N	O	S	0	0
			8171	5222	1380	1519	50		

- Molecule 2 is a protein called Inner capsid protein lambda-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	1008	Total	C	N	O	S	0	0
			7958	5091	1342	1475	50		

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	?	-	VAL	deletion	UNP Q9WAB2
C	?	-	SER	deletion	UNP Q9WAB2
C	?	-	GLU	deletion	UNP Q9WAB2
C	?	-	SER	deletion	UNP Q9WAB2
C	?	-	THR	deletion	UNP Q9WAB2
C	?	-	THR	deletion	UNP Q9WAB2
C	?	-	GLN	deletion	UNP Q9WAB2
C	?	-	THR	deletion	UNP Q9WAB2

- Molecule 3 is a protein called Inner capsid protein sigma-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	417	Total	C	N	O	S	0	0
			3313	2092	600	604	17		
3	P	417	Total	C	N	O	S	0	0
			3313	2092	600	604	17		

- Molecule 4 is a protein called Outer capsid protein mu-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	K	641	Total 4871	C 3091	N 807	O 954	S 19	0	0
4	L	641	Total 4871	C 3091	N 807	O 954	S 19	0	0
4	M	641	Total 4871	C 3091	N 807	O 954	S 19	0	0

There are 81 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	?	-	PRO	deletion	UNP P11077
K	?	-	GLU	deletion	UNP P11077
K	?	-	THR	deletion	UNP P11077
K	?	-	ALA	deletion	UNP P11077
K	?	-	ILE	deletion	UNP P11077
K	?	-	ILE	deletion	UNP P11077
K	?	-	ASN	deletion	UNP P11077
K	?	-	THR	deletion	UNP P11077
K	?	-	ASP	deletion	UNP P11077
K	?	-	ASN	deletion	UNP P11077
K	?	-	SER	deletion	UNP P11077
K	?	-	SER	deletion	UNP P11077
K	?	-	GLY	deletion	UNP P11077
K	?	-	ALA	deletion	UNP P11077
K	?	-	VAL	deletion	UNP P11077
K	?	-	PRO	deletion	UNP P11077
K	?	-	SER	deletion	UNP P11077
K	?	-	GLU	deletion	UNP P11077
K	?	-	SER	deletion	UNP P11077
K	?	-	ALA	deletion	UNP P11077
K	?	-	LEU	deletion	UNP P11077
K	?	-	VAL	deletion	UNP P11077
K	?	-	PRO	deletion	UNP P11077
K	?	-	TYR	deletion	UNP P11077
K	?	-	ASN	deletion	UNP P11077
K	344	LEU	PRO	conflict	UNP P11077
K	359	PHE	LEU	conflict	UNP P11077
L	?	-	PRO	deletion	UNP P11077
L	?	-	GLU	deletion	UNP P11077
L	?	-	THR	deletion	UNP P11077
L	?	-	ALA	deletion	UNP P11077
L	?	-	ILE	deletion	UNP P11077
L	?	-	ILE	deletion	UNP P11077

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Chain	Residue	Modelled	Actual	Comment	Reference
L	?	-	ASN	deletion	UNP P11077
L	?	-	THR	deletion	UNP P11077
L	?	-	ASP	deletion	UNP P11077
L	?	-	ASN	deletion	UNP P11077
L	?	-	SER	deletion	UNP P11077
L	?	-	SER	deletion	UNP P11077
L	?	-	GLY	deletion	UNP P11077
L	?	-	ALA	deletion	UNP P11077
L	?	-	VAL	deletion	UNP P11077
L	?	-	PRO	deletion	UNP P11077
L	?	-	SER	deletion	UNP P11077
L	?	-	GLU	deletion	UNP P11077
L	?	-	SER	deletion	UNP P11077
L	?	-	ALA	deletion	UNP P11077
L	?	-	LEU	deletion	UNP P11077
L	?	-	VAL	deletion	UNP P11077
L	?	-	PRO	deletion	UNP P11077
L	?	-	TYR	deletion	UNP P11077
L	?	-	ASN	deletion	UNP P11077
L	344	LEU	PRO	conflict	UNP P11077
L	359	PHE	LEU	conflict	UNP P11077
M	?	-	PRO	deletion	UNP P11077
M	?	-	GLU	deletion	UNP P11077
M	?	-	THR	deletion	UNP P11077
M	?	-	ALA	deletion	UNP P11077
M	?	-	ILE	deletion	UNP P11077
M	?	-	ILE	deletion	UNP P11077
M	?	-	ASN	deletion	UNP P11077
M	?	-	THR	deletion	UNP P11077
M	?	-	ASP	deletion	UNP P11077
M	?	-	ASN	deletion	UNP P11077
M	?	-	SER	deletion	UNP P11077
M	?	-	SER	deletion	UNP P11077
M	?	-	GLY	deletion	UNP P11077
M	?	-	ALA	deletion	UNP P11077
M	?	-	VAL	deletion	UNP P11077
M	?	-	PRO	deletion	UNP P11077
M	?	-	SER	deletion	UNP P11077
M	?	-	GLU	deletion	UNP P11077
M	?	-	SER	deletion	UNP P11077
M	?	-	ALA	deletion	UNP P11077
M	?	-	LEU	deletion	UNP P11077

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Chain	Residue	Modelled	Actual	Comment	Reference
M	?	-	VAL	deletion	UNP P11077
M	?	-	PRO	deletion	UNP P11077
M	?	-	TYR	deletion	UNP P11077
M	?	-	ASN	deletion	UNP P11077
M	344	LEU	PRO	conflict	UNP P11077
M	359	PHE	LEU	conflict	UNP P11077

- Molecule 5 is a protein called Outer capsid protein lambda-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	O	1284	Total	C	N	O	S	0	0
			10127	6468	1700	1917	42		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
O	?	-	SER	deletion	UNP P11079
O	?	-	ALA	deletion	UNP P11079
O	?	-	SER	deletion	UNP P11079
O	?	-	GLY	deletion	UNP P11079

- Molecule 6 is a protein called Outer capsid protein sigma-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	X	365	Total	C	N	O	S	0	0
			2885	1818	508	531	28		
6	Y	365	Total	C	N	O	S	0	0
			2885	1818	508	531	28		
6	Z	365	Total	C	N	O	S	0	0
			2885	1818	508	531	28		

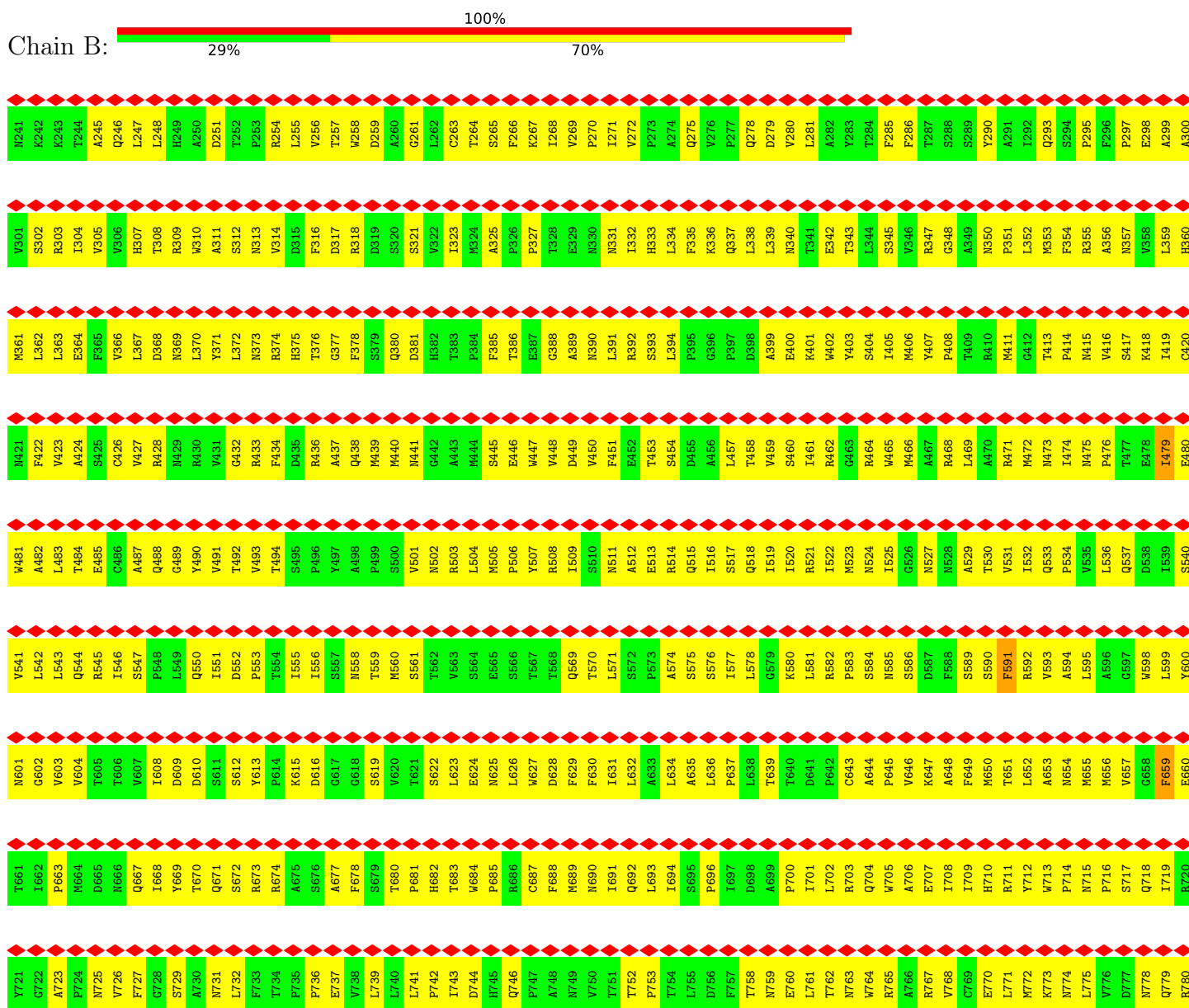
There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
X	104	CYS	ALA	conflict	UNP P07939
X	325	ASN	ASP	conflict	UNP P07939
Y	104	CYS	ALA	conflict	UNP P07939
Y	325	ASN	ASP	conflict	UNP P07939
Z	104	CYS	ALA	conflict	UNP P07939
Z	325	ASN	ASP	conflict	UNP P07939

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: Inner capsid protein lambda-1



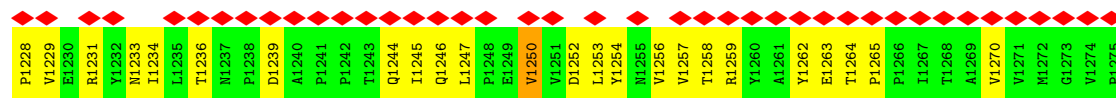
Y781	D841	Y901	T961	A1021	G1081	M1141	S1201	A1261	A260
Q782	R842	A902	A962	D1022	I1082	G1142	T1202	Y1262	G261
P783	V843	D903	A963	C1023	I1083	A1143	E1203	E1263	L262
G784	P844	A904	T964	V1024	S1084	Y1144	Y1204	T1264	C263
W785	T845	I905	F965	Q1025	F1085	P1145	N1205	P1265	T264
T786	M846	Y906	A966	L1026	G1086	Y1146	D1206	P1266	S265
Q787	V847	P907	E967	T1027	M1087	M1147	R1207	I1267	F266
S788	G848	M908	W968	A1028	N1088	L1148	S1208	T1268	K267
L789	V849	Y909	W969	E1029	G1089	H1149	L1209	A1269	I268
V790	T850	A910	N970	Y1030	A1090	Y1150	F1210	V1270	V269
S791	R851	D911	T971	F1031	A1091	Y1151	C1211	V1271	P270
S792	Q852	T912	S972	M1032	P1092	D1152	T1212	G1272	I271
M793	S853	E913	M973	H1033	M1093	P1153	N1213	M1273	V272
R794	R854	V914	K974	E1034	I1094	R1154	S1214	V1274	P273
G795	D855	F915	T975	Y1035	R1095	Q1155	S1215	A1275	A274
T796	T856	S916	A976	M1036	D1096	Y1156	S1216	Q275	Q275
L797	I857	N917	F977	L1037	E1097	A1157	P1217	V276	V276
D798	T858	L918	L978	F1038	T1098	M1158	T1218	T277	Q278
K799	Q859	Q919	L979	G1039	G1099	A1159	T1219	D279	D279
L800	P860	R920	S980	I1040	M1100	W1160	I1220	V280	V280
K801	A861	D921	D981	A1041	M1101	L1161	A1221	A1281	Y281
L802	L862	M922	M982	R1042	I1102	L1162	G1222	A282	A282
I803	S863	I923	L983	G1043	P1103	T1163	P1223	Y283	Y283
K804	L864	T924	L984	D1044	F1104	S1164	D1224	T284	T284
S805	S865	C925	E985	I1045	E1105	A1165	K1225	F285	F285
M806	T866	E926	P986	I1046	G1106	W1166	H1226	F286	F286
T807	T867	A927	L987	I1047	M1107	L1167	I1227	T287	T287
P808	N868	V928	L988	G1048	W1108	E1168	P1228	S288	S288
M809	T869	Q929	S989	I1049	I1109	E1169	V1229	S289	S289
Y810	T870	T930	G990	V1050	F1110	I1170	R1230	Y290	Y290
L811	B871	L931	D991	Q1051	P1111	T1171	R1231	A291	A291
Q812	G872	V932	P992	S1052	L1112	P1172	Y1232	I292	I292
Q813	B873	T933	A993	T1053	A1113	S1173	N1233	Q293	Q293
L814	P874	L934	M994	H1054	L1114	I1174	I1234	S294	S294
A815	L875	V935	T995	L1055	W1115	I1175	L1235	P295	P295
P816	A876	A936	Q996	V1056	Q1116	P1176	T1236	F296	F296
V817	L877	Q937	L997	S1057	M1117	S1177	M1237	P297	P297
E818	D878	I938	A998	P1058	T1118	Y1178	D1238	E298	E298
L819	A879	S939	I999	L1059	T1119	P1179	D1239	A299	A299
A820	R880	E940	Q1000	A1060	R1120	F1180	A1240	A300	A300
I821	A881	T941	Y1001	P1061	Y1121	M1181	P1241	V301	V301
A823	I882	Q942	Q1002	P1062	F1122	Y1182	P1242	S302	S302
P824	V884	P944	Y1004	D1064	M1123	I1184	Q1244	R303	R303
M825	A885	V945	H1005	L1065	Q1125	S1185	I1245	T304	T304
L826	L886	D946	G1006	V1066	Q1126	S1186	Q1246	V306	V306
P827	L887	R947	A1007	F1067	D1127	D1187	L1247	H307	H307
F828	S888	Y948	T1008	D1068	A1128	H1188	E1248	T308	T308
P829	G889	L949	F1009	R1069	W1129	L1189	E1249	R309	R309
P830	K890	D950	M1010	D1070	I1130	I1190	V1250	W310	W310
F831	Y891	W951	Y1011	T1071	K1131	S1191	V1251	A311	A311
Q832	P892	I952	T1012	P1072	T1132	S1192	D1252	Y371	Y371
V833	P893	P953	P1013	G1073	G1133	A1193	L1253	L372	L372
P834	D894	S954	E1014	Y1074	E1134	P1194	Y1254	N373	N373
Y835	L895	M1015	M1015	H1075	L1135	A1195	N1255	R374	R374
V836	V896	P1016	P1016	T1076	R1136	V1196	V1256	H375	H375
R837	T897	A957	G1017	F1077	I1137	Q1197	T1257	T376	T376
L838	N898	S958	S1018	G1078	L1138	Y1198	R1258	G377	G377
D839	V899	A959	V1019	R1079	I1139	T1199	R1259	F378	F378
R840	W900	A960	I1020	D1080	E1140	T1200	Y1260	S379	S379

• Molecule 2: Inner capsid protein lambda-1

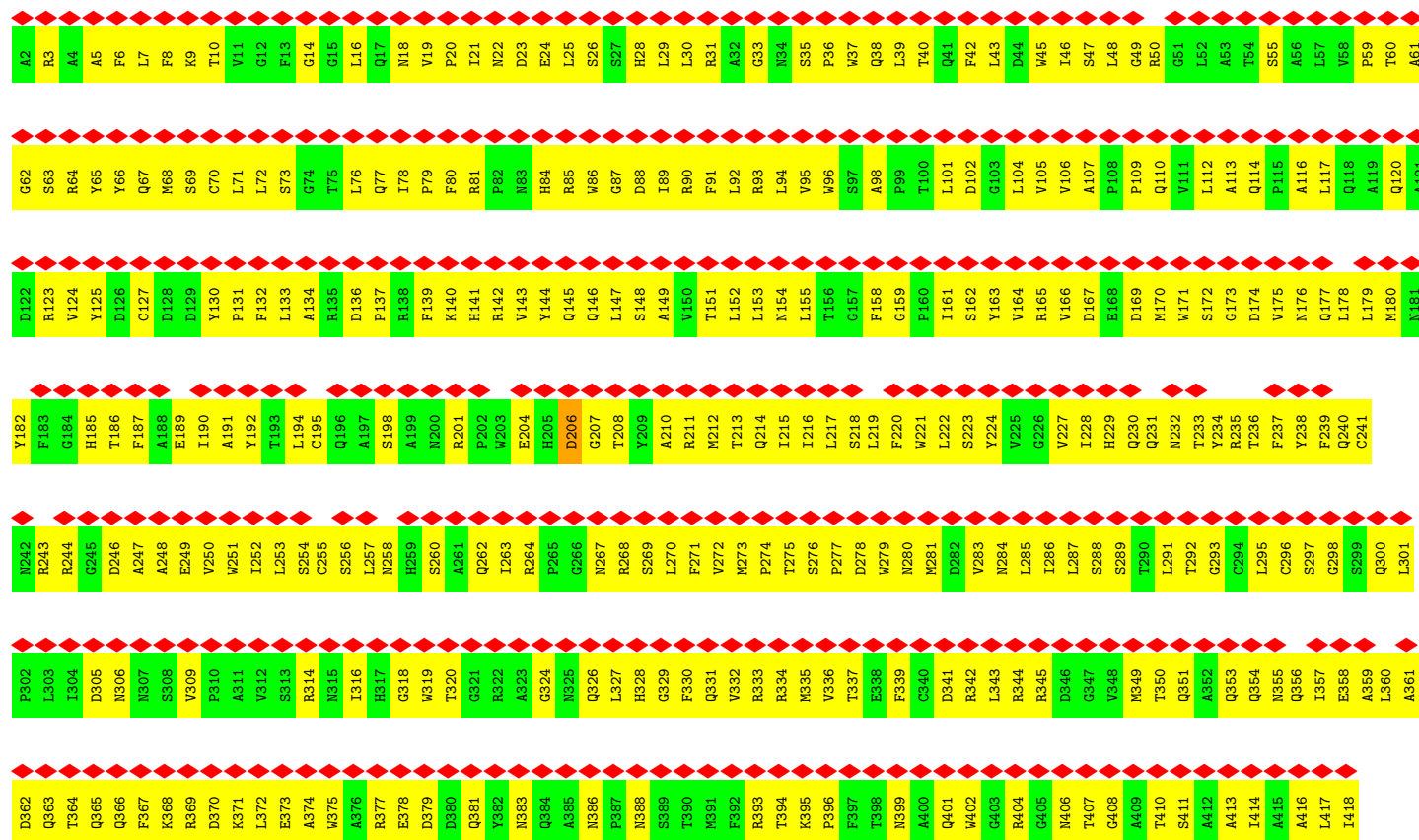


A260	S320	Q380
G261	S321	D381
L262	V322	H382
C263	I323	T383
T264	K324	F384
S265	A325	F385
F266	P326	T386
K267	P327	E387
I268	T328	G388
V269	E329	A389
P270	N330	N390
I271	N331	L391
V272	I332	R392
P273	K333	S393
A274	L334	L394
Q275	F335	P395
V276	K336	G396
T277	Q337	P397
Q278	L338	D398
D279	L339	A399
V280	N340	E400
L281	T341	K401
A282	E342	W402
Y283	T343	Y403
T284	L344	S404
F285	S345	I405
F286	V346	M406
T287	R347	Y407
S288	G348	P408
S289	A349	T409
Y290	N350	R410
A291	P351	M411
I292	L352	G412
Q293	K353	T413
S294	F354	P414
P295	R355	M415
F296	A356	W416
P297	N357	S417
E298	V358	K418
A299	L359	I419
A300	H360	C420
V301	K361	N421
S302	L362	F422
R303	L363	V423
T304	E364	A424
V305	F365	S425
V306	V366	C426
H307	L367	V427
T308	D368	R428
R309	N369	N429
W310	L370	R430
A311	Y371	V431
S312	L372	G432
N313	K373	R433
V314	R374	F434
D315	H375	D435
F316	T376	R436
D317	G377	A437
R318	F378	Q438
D319	S379	M439

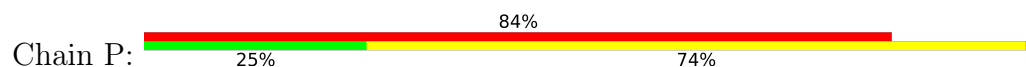
E1168	G1048	L988	V928	N868	P808	A748	F888	D628	M560	S500	M440
E1169	R1049	S989	Q929	T869	M809	N749	M889	F829	S561	V501	N441
I1170	V1050	G990	T930	T870	Y810	V750	N690	F830	T562	N502	G442
T1171	Q1051	D991	L931	V871	L811	T751	I691	I631	L571	R503	A443
L1112	S1052	P992	V932	G872	Q812	T752	Q892	L632	S572	L504	M444
T1173	T1053	R993	T933	V873	Q813	P753	L693	A633	S573	M505	S445
S1174	H1054	M994	L934	P874	L814	T754	S695	L634	A574	P506	E446
I1175	L1055	T995	V935	L875	A815	L755	P696	A635	S575	Y507	E447
P1176	L1056	Q996	A936	A876	P816	D756	I697	L636	S576	R508	V448
S1177	S1057	L997	Q937	L877	V817	F757	D898	P637	I577	I509	D449
V1178	P1058	A998	T938	D878	B818	T758	A699	L638	L578	S510	V450
P1179	L1059	I999	S939	A879	L819	N759	P700	T639	G579	N511	F451
F1180	A1060	Q1000	E940	R880	A820	E760	L702	T640	K580	A512	E452
M1181	P1061	Y1001	T941	A881	V821	L761	R703	D641	L581	E513	T453
V1182	Q1002	Q1002	Q942	T882	T822	T762	Q704	P642	R582	R514	S454
P1183	P1063	Q1003	Y943	T883	A823	N763	W705	C643	P583	Q515	D455
Q1184	D1064	Y1004	P944	V884	P824	A764	A706	A644	S584	I516	A456
S1185	L1065	M1005	V945	A885	M825	R765	E707	P645	S585	S517	L457
L1186	V1066	G1006	D946	L886	L826	A766	I708	V646	S586	Q518	T458
D1187	F1067	R1007	R947	L887	P827	R767	I709	K647	D587	I519	V459
H1188	D1068	T1008	Y948	S888	F828	V768	I710	A648	F588	I520	S460
L1189	R1069	F1009	L949	G889	P829	C769	R711	F649	S589	R521	I461
I1190	D1070	N1010	D950	K890	P830	E770	Y712	M650	S590	I522	R462
I1191	T1071	V1011	D951	Y891	P831	L771	W713	L651	F591	R523	G463
S1192	P1072	I1012	P952	P892	Q832	W772	P714	L652	R592	N524	R464
A1193	G1073	P1013	P953	P893	V833	K773	W715	A653	V593	I525	W465
P1194	V1074	E1014	S954	D894	P834	N774	S717	N654	A594	G526	W466
A1195	H1075	M1015	L955	L895	Y835	L775	Q718	M655	L595	N527	R468
V1196	I1076	P1016	R956	V896	V836	V776	I719	M656	A596	N528	L469
Q1197	F1077	G1017	A957	T897	R837	D777	R720	V657	G597	A529	A470
Y1198	G1078	S1018	S958	N898	L838	N778	W721	G658	W598	T530	R471
I1199	R1079	V1019	A959	V899	D839	Q779	Y722	F659	L599	V531	M472
I1200	D1080	I1020	Y960	W899	R840	R780	A723	E660	Y600	I532	N473
C1081	C1081	A1021	A960	A900	D841	Y781	P724	T661	N601	Q533	I474
T961	T961	T961	A962	A902	V843	Q782	W725	I662	G602	P534	N475
A963	A963	A963	A963	D903	P844	P783	P726	P663	V603	V535	P476
F1085	F1085	Q1025	T964	A904	T845	G784	V727	M664	L536	L536	T477
G1086	G1086	L1026	F965	I905	M846	W785	G728	D665	T605	Q537	E478
M1087	M1087	T1027	A966	Y906	V847	T786	S729	M666	T606	D538	I479
E1088	E1088	A1028	E967	P907	G848	Q787	A730	Q667	V607	I539	E480
G1089	G1089	E1029	W968	N908	V849	Q788	N731	I668	I608	S540	W481
A1090	A1090	V1030	Y969	Y909	T850	L789	L732	Y669	D609	V541	A482
A1091	A1091	F1031	N970	A910	R851	V790	F733	T670	D610	L542	L483
P1092	P1092	T971	T971	D911	Q852	S791	T734	Q671	S611	L543	T484
M1093	M1093	H1033	S972	T912	S853	S792	P735	S672	S612	Q644	E485
E1034	E1034	E1034	N973	E913	R854	W793	E737	S673	S613	R545	C486
Y1035	Y1035	Y1035	K974	V914	D855	R794	V738	R674	P614	I546	A487
N1036	N1036	L1036	T975	F915	T856	G795	L739	A675	K615	S547	Q488
E1097	E1097	A976	A976	S916	T857	L796	L740	S676	D616	P548	G489
T1098	T1098	F1037	F977	N917	T858	L797	L741	A677	L549	Y490	Y490
G1099	G1099	F1038	N978	N917	Q859	D798	P742	G618	Q550	V491	V491
I1040	I1040	G1039	L979	Q919	P860	K799	I743	S679	S619	T492	T492
A1041	A1041	I1041	S980	R920	A861	L800	D744	T880	V620	D552	T494
R1042	R1042	D981	D981	D921	L862	K601	H745	P681	T621	P553	S495
G1043	G1043	N982	N982	N922	S863	L802	Q746	H882	S622	T554	P496
P1103	P1103	L983	L983	T923	L864	R803	T747	T883	L623	I555	I555
F1104	F1104	L984	L984	T924	S865	K804	P747	W884	E624	I556	Y497
E1105	E1105	I1046	E985	C925	T866	S905		P885	N625	S557	A498
H1226	H1226	I1047	P986	E926	T867	M806		N886	L626	N558	P499
I1227	I1227	L987	L987	A927		T807		C887	W627	T559	

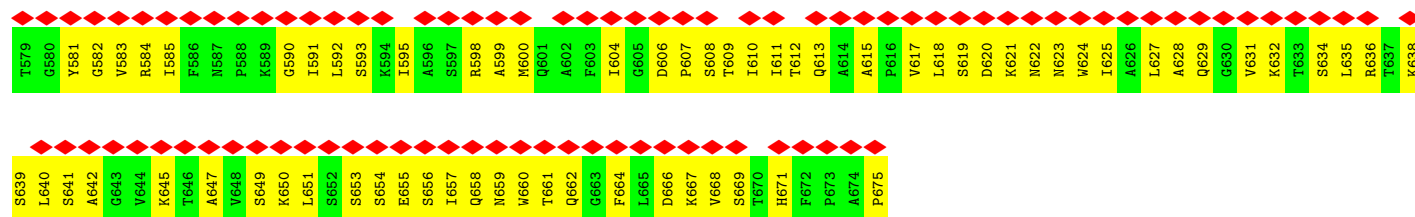


• Molecule 3: Inner capsid protein sigma-2

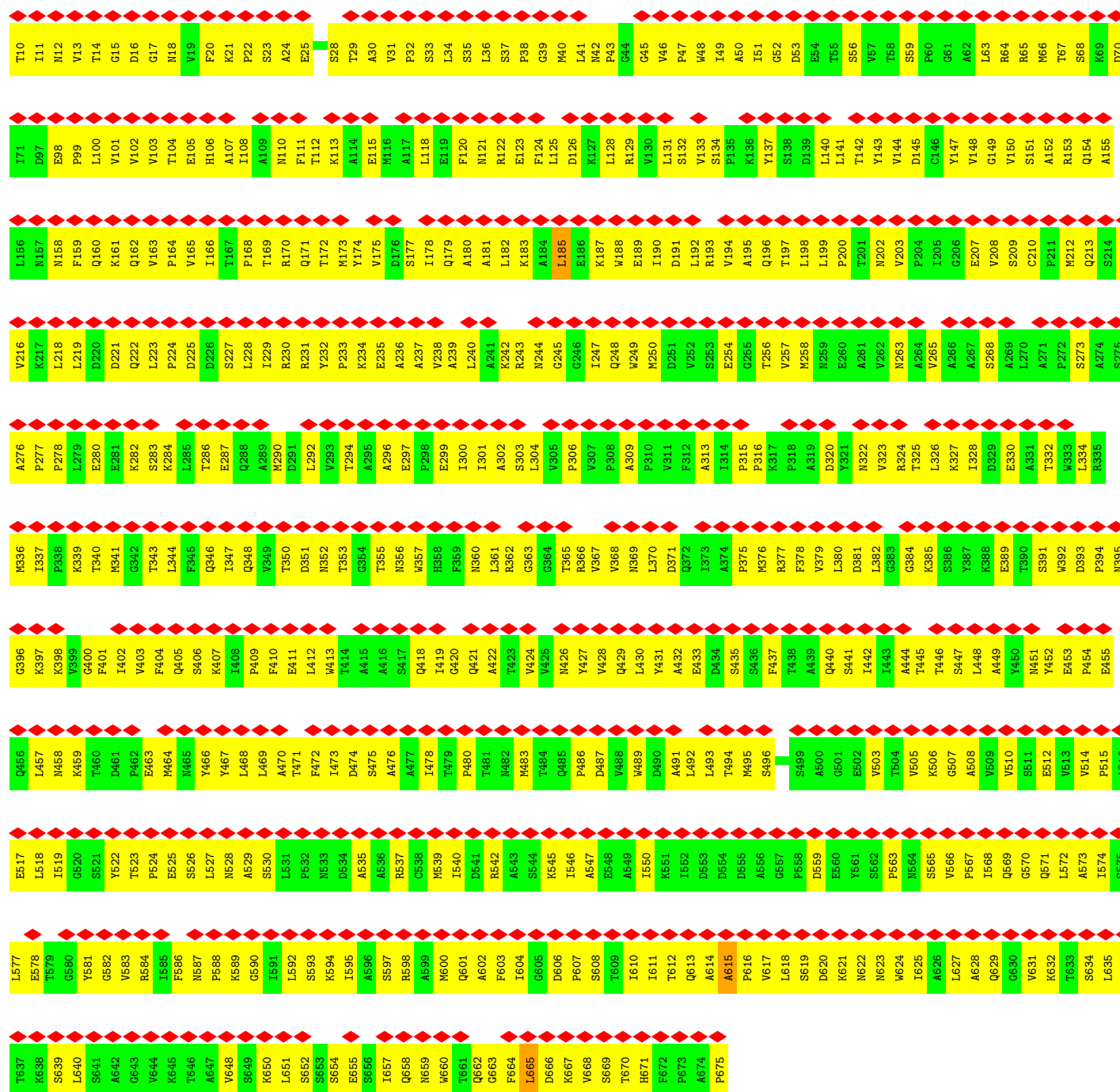
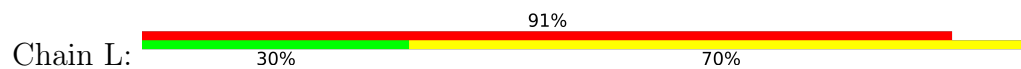


• Molecule 3: Inner capsid protein sigma-2





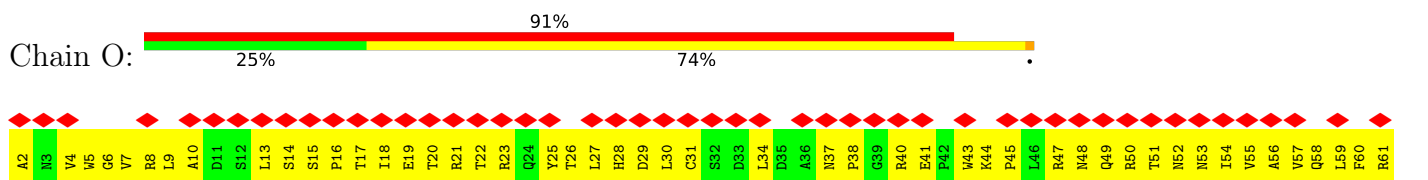
• Molecule 4: Outer capsid protein mu-1



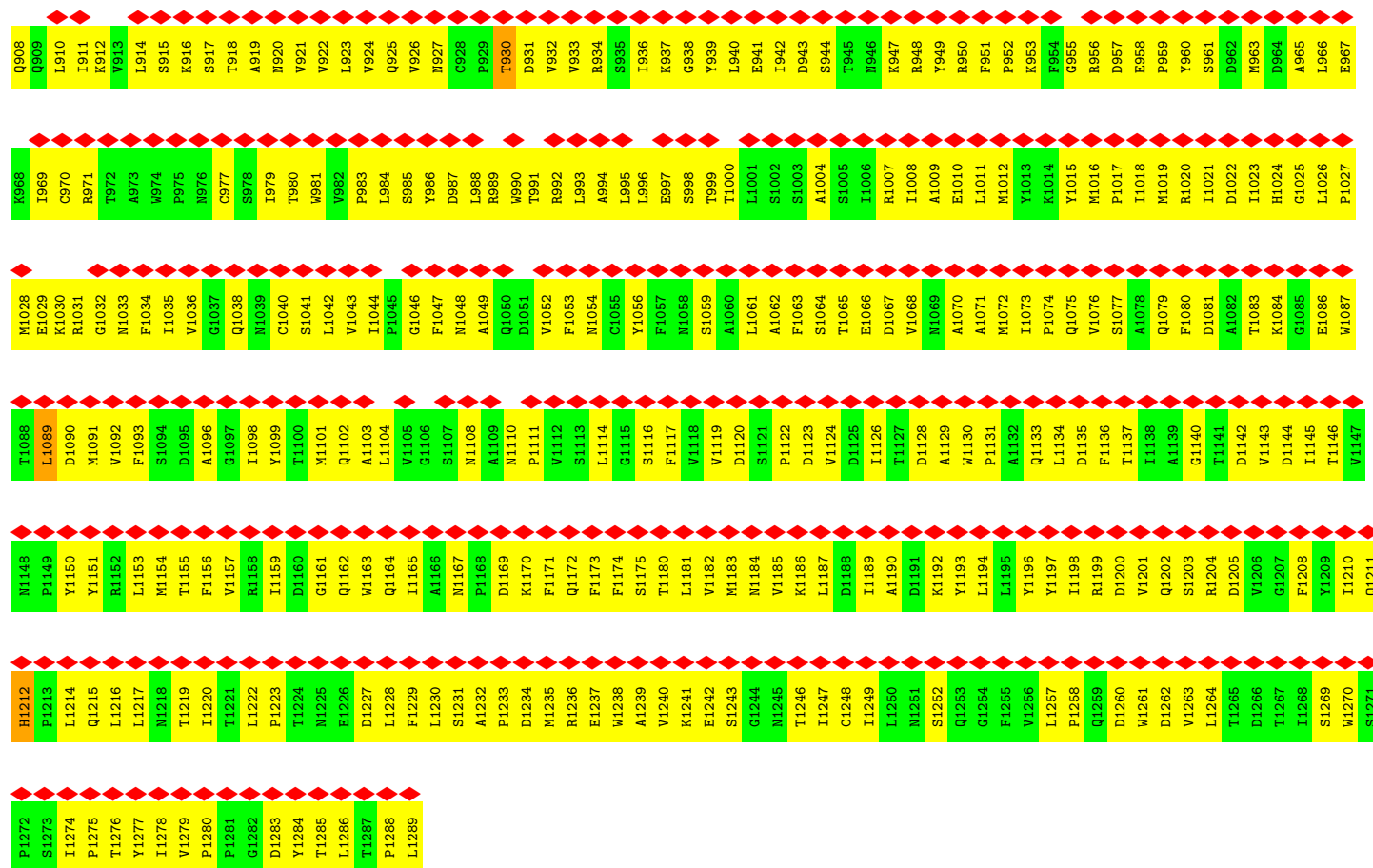
Chain M:



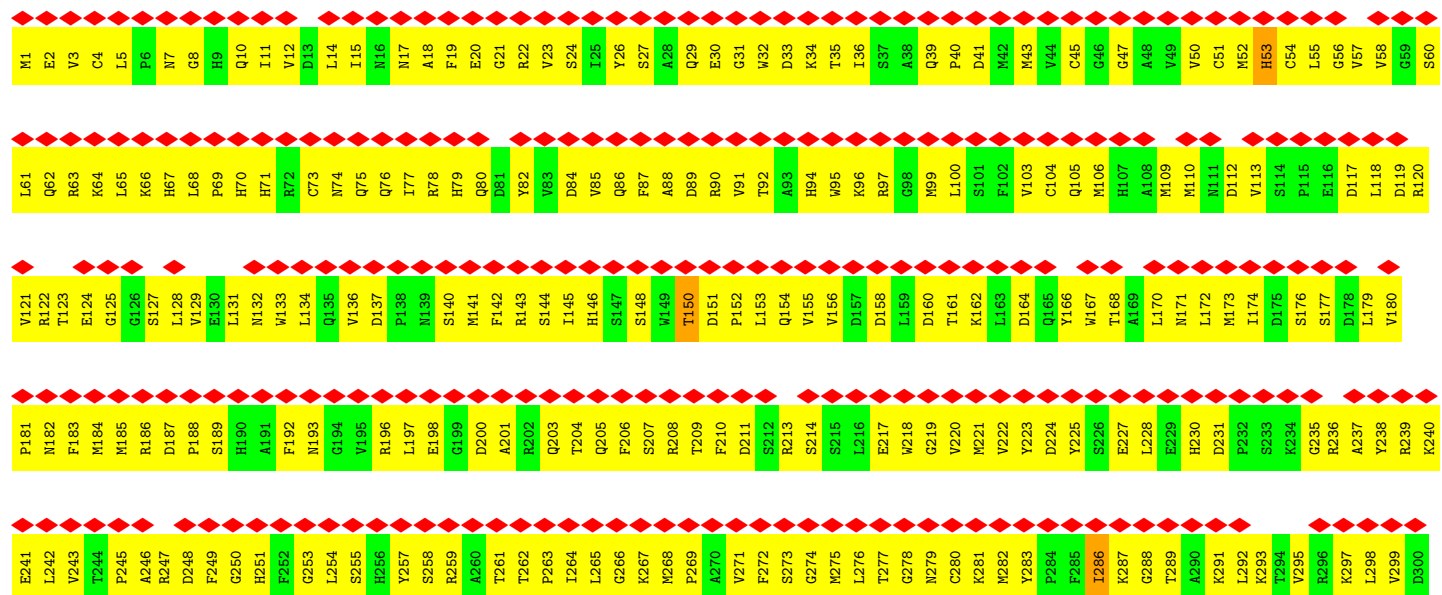
Chain 0:

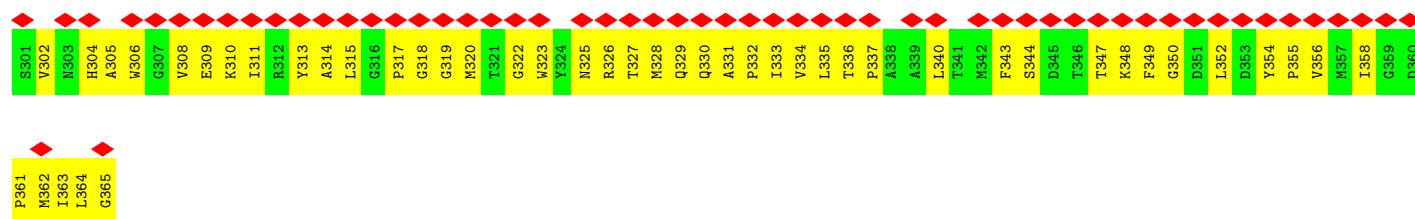




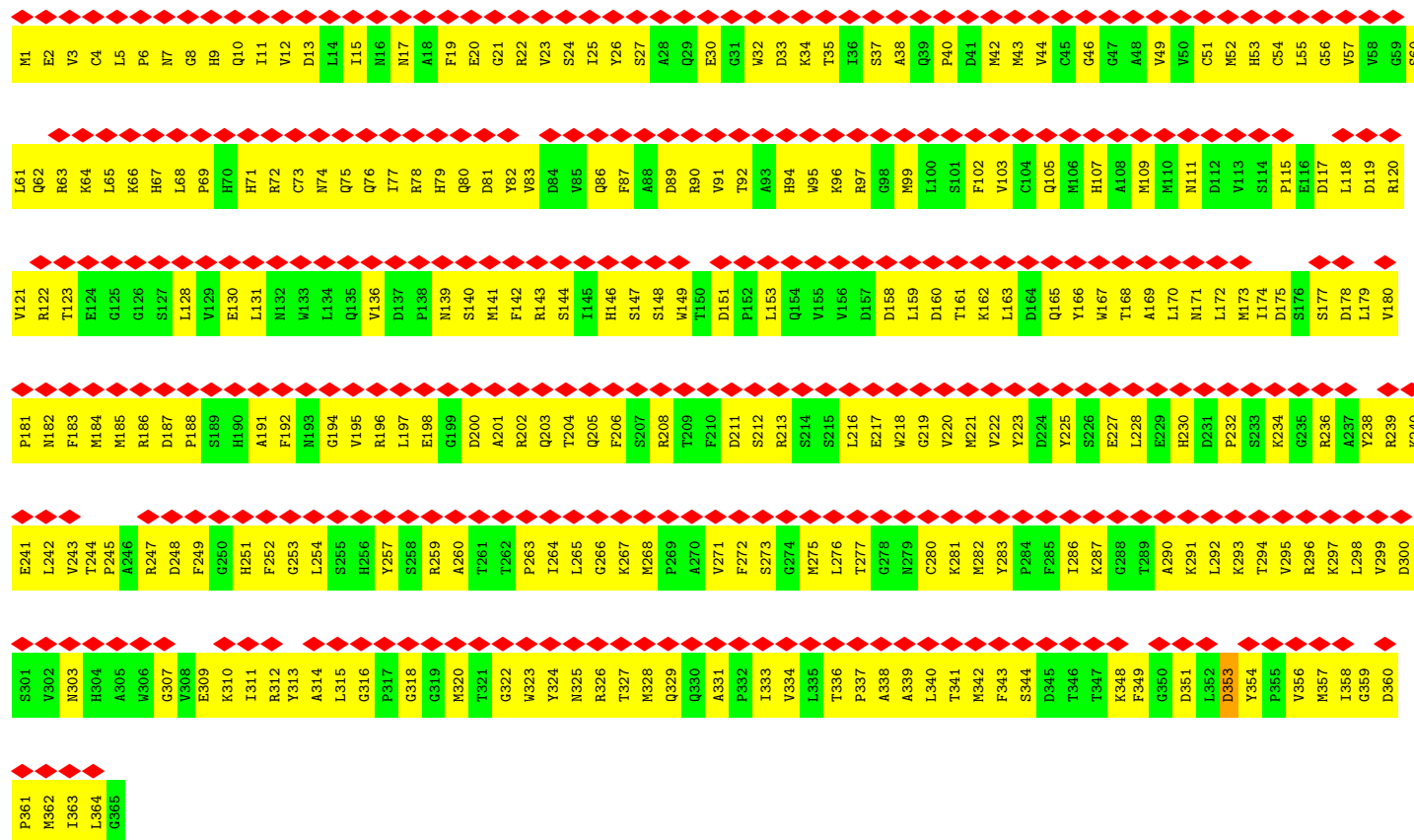


● Molecule 6: Outer capsid protein sigma-3

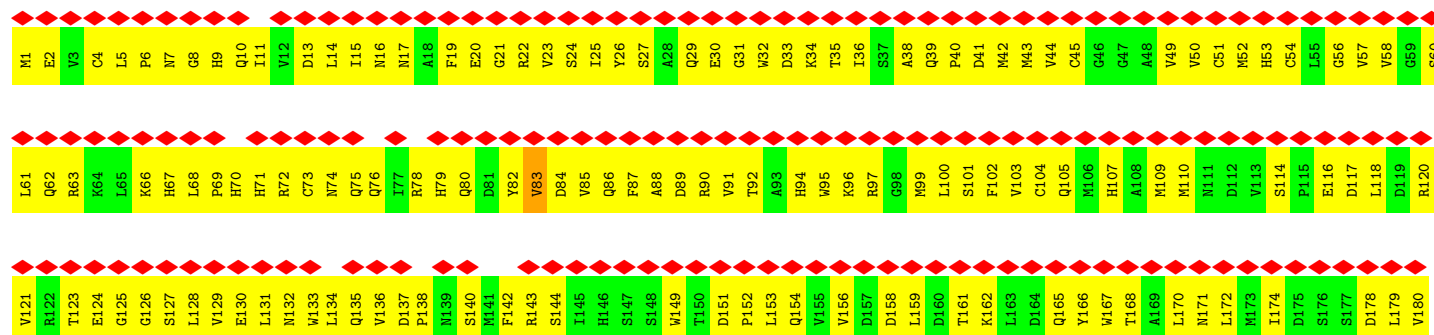




• Molecule 6: Outer capsid protein sigma-3



• Molecule 6: Outer capsid protein sigma-3





4 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, Not provided	
Number of tilted images used	Not provided	
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum voxel value	8.955	Depositor
Minimum voxel value	-5.801	Depositor
Average voxel value	0.054	Depositor
Voxel value standard deviation	0.430	Depositor
Recommended contour level	2.7	Depositor
Tomogram size ($\text{\AA}$)	648.0, 648.0, 648.0	wwPDB
Tomogram dimensions	360, 360, 360	wwPDB
Tomogram angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Grid spacing ($\text{\AA}$)	1.8, 1.8, 1.8	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	B	0.36	0/8391	0.65	3/11492 (0.0%)
2	C	0.36	0/8174	0.64	3/11194 (0.0%)
3	D	0.35	0/3398	0.64	0/4626
3	P	0.36	0/3398	0.62	0/4626
4	K	0.33	0/4971	0.63	4/6787 (0.1%)
4	L	0.32	0/4971	0.62	2/6787 (0.0%)
4	M	0.31	0/4971	0.62	2/6787 (0.0%)
5	O	0.35	0/10385	0.64	8/14172 (0.1%)
6	X	0.35	0/2957	0.63	1/4005 (0.0%)
6	Y	0.33	0/2957	0.64	1/4005 (0.0%)
6	Z	0.32	0/2957	0.60	1/4005 (0.0%)
All	All	0.34	0/57530	0.63	25/78486 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1
2	C	0	1
4	L	0	1
4	M	0	2
5	O	0	1
6	X	0	1
All	All	0	7

There are no bond length outliers.

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	617	VAL	N-CA-C	-8.92	104.33	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	K	484	THR	CA-C-N	-8.11	107.50	123.56
4	K	484	THR	C-N-CA	-8.11	107.50	123.56
4	L	617	VAL	N-CA-C	-7.52	103.97	113.22
5	O	855	ALA	CA-C-N	-7.11	109.47	123.56
5	O	855	ALA	C-N-CA	-7.11	109.47	123.56
1	B	659	PHE	N-CA-C	-6.52	105.33	113.55
5	O	876	GLY	N-CA-C	-6.41	106.87	115.21
2	C	324	MET	CA-C-N	-6.20	112.44	122.48
2	C	324	MET	C-N-CA	-6.20	112.44	122.48
1	B	1102	VAL	N-CA-C	6.10	114.87	107.61
6	X	53	HIS	N-CA-C	-5.98	107.22	114.75
6	Y	194	GLY	N-CA-C	-5.95	106.95	115.64
5	O	930	THR	N-CA-C	-5.70	105.99	113.17
2	C	1144	TYR	N-CA-C	5.69	115.45	108.11
6	Z	207	SER	N-CA-C	-5.43	107.02	113.97
4	K	254	GLU	N-CA-C	-5.42	104.94	113.02
5	O	391	PRO	CA-C-N	5.33	127.80	120.39
5	O	391	PRO	C-N-CA	5.33	127.80	120.39
4	K	150	VAL	N-CA-C	-5.33	108.65	113.71
5	O	630	LYS	CA-C-N	-5.25	117.83	122.97
5	O	630	LYS	C-N-CA	-5.25	117.83	122.97
1	B	591	PHE	N-CA-C	-5.18	107.34	113.97
4	L	150	VAL	N-CA-C	-5.07	107.49	113.42
4	M	460	THR	N-CA-C	-5.06	107.15	113.72

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	977	PHE	Peptide
2	C	383	THR	Peptide
4	L	615	ALA	Peptide
4	M	386	SER	Peptide
4	M	57	VAL	Peptide
5	O	200	TYR	Peptide
6	X	214	SER	Peptide

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	B	8171	0	8083	892	0
2	C	7958	0	7871	907	0
3	D	3313	0	3215	383	0
3	P	3313	0	3215	433	0
4	K	4871	0	4900	602	0
4	L	4871	0	4900	564	0
4	M	4871	0	4900	544	0
5	O	10127	0	9910	1109	0
6	X	2885	0	2816	309	0
6	Y	2885	0	2816	313	0
6	Z	2885	0	2816	316	0
All	All	56150	0	55442	6101	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 55.

All (6101) 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)
5:O:1230:LEU:O	5:O:1276:THR:HA	1.45	1.14
1:B:760:GLU:O	1:B:764:TRP:HB2	1.46	1.14
5:O:704:THR:HA	5:O:758:ARG:O	1.47	1.12
4:K:68:SER:HG	4:K:97:ASP:N	1.47	1.11
4:L:142:THR:O	4:L:164:PRO:HA	1.50	1.10
6:X:319:GLY:O	6:X:323:TRP:HB2	1.54	1.08
1:B:1074:VAL:HA	1:B:1107:ASN:O	1.52	1.07
3:P:240:GLN:O	3:P:251:TRP:HA	1.57	1.04
4:L:368:VAL:HB	4:L:468:LEU:HB3	1.41	1.01
2:C:268:ILE:HA	2:C:304:ILE:HA	1.44	0.99
4:L:22:PRO:HD2	4:L:209:SER:HA	1.45	0.98
3:P:161:ILE:HA	3:P:272:VAL:O	1.63	0.98
3:P:316:ILE:H	3:P:320:THR:HB	1.29	0.97
2:C:385:PHE:HB2	2:C:410:ARG:HE	1.25	0.97
3:D:120:GLN:HB2	3:D:123:ARG:HE	1.30	0.96
4:L:143:TYR:HA	4:L:163:VAL:O	1.65	0.96
1:B:261:GLY:HA3	1:B:312:SER:HA	1.49	0.95
5:O:980:THR:HB	5:O:1020:ARG:O	1.67	0.95
5:O:940:LEU:HA	5:O:950:ARG:O	1.66	0.94
1:B:603:VAL:HG23	1:B:604:VAL:HG23	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:185:MET:HE3	6:Y:187:ASP:H	1.32	0.93
4:M:375:PRO:HA	4:M:452:TYR:O	1.69	0.93
3:P:41:GLN:O	3:P:45:TRP:HB2	1.70	0.92
2:C:607:VAL:O	2:C:876:ALA:HA	1.70	0.92
6:Y:271:VAL:O	6:Y:282:MET:HA	1.69	0.92
1:B:1231:ARG:NE	1:B:1251:VAL:O	2.02	0.92
4:K:358:HIS:ND1	4:K:475:SER:O	2.01	0.92
6:X:295:VAL:HA	6:X:298:LEU:HD13	1.50	0.91
4:M:434:ASP:HA	4:M:441:SER:HA	1.49	0.91
5:O:241:MET:HB3	5:O:249:ILE:HB	1.52	0.91
1:B:1036:ASN:HD21	1:B:1207:ARG:HE	1.18	0.91
1:B:293:GLN:HE22	1:B:401:LYS:HG2	1.35	0.91
2:C:398:ASP:HB3	2:C:401:LYS:HB3	1.50	0.91
5:O:230:GLY:O	5:O:232:HIS:ND1	2.04	0.91
4:K:384:GLY:HA2	4:K:442:ILE:HB	1.52	0.91
5:O:1153:LEU:HG	5:O:1200:ASP:HA	1.52	0.91
5:O:119:LEU:HD11	5:O:136:LEU:HD11	1.52	0.90
3:P:333:ARG:NH1	3:P:337:THR:OG1	2.04	0.90
5:O:1171:PHE:HA	5:O:1185:VAL:HA	1.52	0.90
4:M:67:THR:HA	4:M:99:PRO:HA	1.54	0.90
4:K:43:PRO:HD3	4:M:113:LYS:HG3	1.54	0.90
4:K:263:ASN:HD22	4:L:43:PRO:HD2	1.35	0.90
2:C:1007:ARG:NH1	2:C:1008:THR:O	2.06	0.89
4:K:48:TRP:HA	4:K:66:MET:H	1.35	0.89
4:M:400:GLY:O	4:M:470:ALA:HA	1.72	0.89
3:P:85:ARG:HE	3:P:86:TRP:H	1.21	0.89
4:K:147:TYR:HA	4:K:159:PHE:HA	1.54	0.88
4:K:320:ASP:HA	4:K:493:LEU:O	1.71	0.88
1:B:741:LEU:HD12	1:B:742:PRO:HD2	1.55	0.88
3:D:360:LEU:HA	3:D:363:GLN:HE21	1.38	0.88
4:K:357:TRP:HA	4:K:475:SER:HA	1.53	0.88
6:Z:249:PHE:HB2	6:Z:259:ARG:HH21	1.39	0.88
1:B:543:LEU:HD13	1:B:546:ILE:HD11	1.56	0.87
4:K:444:ALA:HB1	4:L:327:LYS:HG2	1.56	0.87
6:X:237:ALA:HA	6:X:240:LYS:HD3	1.55	0.87
3:P:165:ARG:HE	3:P:269:SER:HB2	1.38	0.87
6:X:223:TYR:HD2	6:X:354:TYR:HB2	1.39	0.87
3:P:67:GLN:NE2	3:P:392:PHE:O	2.07	0.86
1:B:920:ARG:NH2	1:B:981:ASP:OD2	2.09	0.86
5:O:988:LEU:O	5:O:991:THR:OG1	1.92	0.86
2:C:1041:ALA:O	2:C:1143:ALA:HA	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:200:ASP:HA	6:Z:203:GLN:HB2	1.57	0.86
5:O:300:ARG:NH1	5:O:334:ILE:O	2.08	0.86
1:B:439:MET:HG2	2:C:862:LEU:HG	1.59	0.85
5:O:702:SER:HB3	5:O:758:ARG:HH21	1.38	0.85
2:C:1158:ASN:ND2	2:C:1198:TYR:OH	2.09	0.85
3:P:98:ALA:HB3	3:P:102:ASP:H	1.39	0.85
4:K:120:PHE:HA	4:K:242:LYS:HE2	1.57	0.85
5:O:526:GLN:HE22	5:O:528:LEU:HA	1.42	0.85
1:B:790:VAL:HG12	1:B:794:ARG:HE	1.40	0.85
2:C:468:ARG:NH2	2:C:922:MET:SD	2.49	0.85
2:C:741:LEU:HG	2:C:743:ILE:H	1.40	0.84
4:L:622:ASN:ND2	6:Z:2:GLU:OE2	2.10	0.84
6:Y:244:THR:HG23	6:Y:247:ARG:H	1.41	0.84
4:K:452:TYR:OH	4:K:459:LYS:NZ	2.09	0.84
6:Y:78:ARG:HE	6:Y:80:GLN:HE21	1.21	0.84
2:C:373:ASN:HB3	2:C:1259:ARG:HE	1.41	0.84
3:P:41:GLN:HE21	3:P:45:TRP:HD1	1.22	0.84
6:Y:174:ILE:O	6:Y:178:ASP:N	2.11	0.84
6:Y:259:ARG:HB2	6:Y:272:PHE:HB2	1.60	0.84
3:D:399:ASN:HD22	3:D:402:TRP:HD1	1.24	0.84
5:O:508:SER:OG	5:O:509:ARG:NH1	2.10	0.84
3:P:240:GLN:OE1	3:P:244:ARG:NH1	2.09	0.84
4:M:170:ARG:HA	4:M:173:MET:HE2	1.59	0.84
4:K:534:ASP:OD1	4:K:537:ARG:NE	2.10	0.84
5:O:851:ILE:HG22	5:O:871:ASP:HA	1.60	0.84
5:O:951:PHE:O	5:O:955:GLY:N	2.11	0.84
5:O:112:ASN:ND2	5:O:142:MET:SD	2.51	0.84
6:Z:182:ASN:HD21	6:Z:362:MET:H	1.24	0.84
1:B:892:PRO:HG2	1:B:895:LEU:HB2	1.59	0.83
4:L:122:ARG:NH1	4:L:133:VAL:O	2.10	0.83
4:M:19:VAL:HB	4:M:248:GLN:HB2	1.60	0.83
3:P:142:ARG:O	3:P:146:GLN:NE2	2.11	0.83
3:P:94:LEU:HD11	3:P:104:LEU:HD22	1.59	0.83
3:P:239:PHE:HA	3:P:252:ILE:O	1.77	0.83
4:K:306:PRO:HG2	5:O:880:GLY:HA2	1.60	0.83
2:C:392:ARG:O	2:C:403:TYR:OH	1.97	0.83
2:C:759:ASN:HB3	2:C:762:THR:HG23	1.61	0.83
5:O:419:GLN:HE21	5:O:709:ILE:HA	1.44	0.83
5:O:514:TYR:HA	5:O:575:TYR:HB3	1.61	0.83
1:B:600:TYR:OH	1:B:828:PHE:O	1.97	0.83
3:D:341:ASP:OD1	3:D:354:GLN:NE2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:88:GLU:HA	5:O:91:ARG:HE	1.42	0.83
6:Z:72:ARG:NH2	6:Z:73:CYS:O	2.12	0.82
6:X:251:HIS:HD2	6:X:254:LEU:HG	1.43	0.82
2:C:579:GLY:O	2:C:582:ARG:NH1	2.10	0.82
2:C:1000:GLN:HG3	2:C:1010:ASN:HB2	1.60	0.82
5:O:318:ILE:HG23	5:O:322:LEU:HD21	1.58	0.82
6:Y:212:SER:OG	6:Y:213:ARG:NH1	2.12	0.82
6:Y:293:LYS:O	6:Y:297:LYS:NZ	2.12	0.82
5:O:610:GLY:O	5:O:658:VAL:N	2.10	0.82
3:P:9:LYS:HE2	3:P:122:ASP:HA	1.61	0.82
2:C:892:PRO:HD2	2:C:895:LEU:HD22	1.59	0.82
5:O:125:SER:O	5:O:127:GLN:NE2	2.11	0.82
5:O:635:ILE:O	5:O:662:SER:OG	1.96	0.82
1:B:483:LEU:HD22	1:B:493:VAL:HG22	1.59	0.82
1:B:859:GLN:NE2	3:P:96:TRP:O	2.13	0.82
2:C:920:ARG:HA	2:C:923:ILE:HD12	1.61	0.82
3:D:350:THR:HG22	3:D:353:GLN:HE21	1.43	0.82
1:B:1075:HIS:HD1	1:B:1108:TRP:CD1	1.98	0.82
4:K:115:GLU:HA	4:K:118:LEU:HD13	1.62	0.82
5:O:20:THR:H	5:O:277:THR:HA	1.45	0.82
5:O:226:LYS:O	5:O:278:ARG:NH1	2.13	0.82
6:X:182:ASN:H	6:X:363:ILE:HG12	1.42	0.82
2:C:920:ARG:NH1	2:C:924:THR:OG1	2.12	0.82
6:Y:90:ARG:NH2	6:Y:151:ASP:O	2.13	0.82
5:O:212:TRP:HE1	3:P:137:PRO:HG2	1.44	0.81
1:B:764:TRP:HA	1:B:767:ARG:HD2	1.62	0.81
4:L:115:GLU:HA	4:L:118:LEU:HD12	1.59	0.81
4:L:505:VAL:O	6:Z:312:ARG:NH2	2.13	0.81
2:C:268:ILE:HG13	2:C:304:ILE:HG13	1.63	0.81
2:C:522:ILE:HA	2:C:525:ILE:HD12	1.62	0.81
4:M:581:TYR:N	6:Y:71:HIS:O	2.11	0.81
5:O:504:GLU:HG3	5:O:507:ARG:HH12	1.46	0.81
4:K:538:CYS:HB3	4:K:542:ARG:HH21	1.45	0.81
4:L:223:LEU:HD12	4:L:224:PRO:HD2	1.61	0.81
5:O:1239:ALA:HA	5:O:1249:ILE:HA	1.61	0.81
3:D:206:ASP:O	3:D:211:ARG:NH2	2.13	0.81
4:K:346:GLN:HA	4:K:360:ASN:HA	1.63	0.81
5:O:816:SER:HA	5:O:819:VAL:HB	1.63	0.81
3:D:78:ILE:HG23	3:D:81:ARG:HH21	1.44	0.81
5:O:932:VAL:O	5:O:1015:TYR:OH	1.99	0.81
6:X:143:ARG:NH1	6:X:218:TRP:O	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:385:PHE:HB2	2:C:410:ARG:NE	1.95	0.81
4:K:454:PRO:HA	4:K:459:LYS:HE2	1.62	0.81
6:Z:256:HIS:HB2	6:Z:342:MET:HE2	1.62	0.81
2:C:604:VAL:HG22	2:C:873:VAL:HB	1.62	0.80
2:C:937:GLN:O	2:C:947:ARG:NH1	2.14	0.80
3:P:185:HIS:HB3	3:P:190:ILE:HD11	1.63	0.80
1:B:656:MET:O	1:B:660:GLU:N	2.12	0.80
4:K:379:VAL:HB	4:K:494:THR:HB	1.64	0.80
4:M:397:LYS:O	4:M:430:LEU:N	2.12	0.80
5:O:1184:ASN:O	5:O:1186:LYS:NZ	2.14	0.80
3:P:275:THR:N	3:P:330:PHE:O	2.15	0.80
1:B:680:THR:O	1:B:683:THR:OG1	1.99	0.80
4:L:391:SER:OG	6:Y:275:MET:O	1.98	0.80
4:M:140:LEU:HB3	4:M:166:ILE:HD12	1.63	0.80
4:L:306:PRO:HB2	4:L:512:GLU:HG2	1.64	0.80
5:O:49:GLN:HB2	5:O:183:ASP:HB3	1.63	0.80
5:O:1012:MET:HB3	5:O:1016:MET:HE2	1.64	0.80
6:Z:71:HIS:CE1	6:Z:73:CYS:HB2	2.16	0.80
2:C:451:PHE:HB3	2:C:1254:TYR:HE2	1.47	0.80
6:X:131:LEU:HB3	6:X:361:PRO:HB2	1.64	0.80
1:B:797:LEU:HA	1:B:800:LEU:HD12	1.64	0.80
4:L:140:LEU:O	4:L:170:ARG:NH1	2.14	0.80
4:L:324:ARG:NH2	4:L:487:ASP:O	2.15	0.80
1:B:582:ARG:HH12	1:B:880:ARG:HG3	1.46	0.80
6:X:4:CYS:SG	6:X:5:LEU:N	2.52	0.80
2:C:880:ARG:HG3	2:C:881:ALA:H	1.45	0.80
6:Z:263:PRO:HB3	6:Z:269:PRO:HD3	1.64	0.80
1:B:1083:ILE:HG13	1:B:1094:ILE:HD13	1.62	0.80
1:B:770:GLU:HA	1:B:773:LYS:HD2	1.63	0.79
5:O:768:ARG:NH1	5:O:840:ILE:O	2.15	0.79
3:P:52:LEU:HD21	3:P:281:MET:HA	1.63	0.79
3:P:164:VAL:O	3:P:269:SER:OG	2.00	0.79
6:Z:222:VAL:N	6:Z:357:MET:O	2.10	0.79
1:B:385:PHE:O	1:B:428:ARG:NH2	2.15	0.79
2:C:852:GLN:O	2:C:996:GLN:NE2	2.14	0.79
2:C:999:ILE:O	2:C:1010:ASN:HA	1.82	0.79
4:K:351:ASP:OD1	4:K:355:THR:N	2.14	0.79
5:O:112:ASN:OD1	5:O:115:VAL:N	2.13	0.79
6:Z:295:VAL:HA	6:Z:298:LEU:HD12	1.64	0.79
2:C:846:MET:HE3	2:C:847:VAL:H	1.46	0.79
4:L:48:TRP:N	4:L:147:TYR:O	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:741:LEU:HD12	2:C:742:PRO:HD2	1.65	0.79
4:K:383:GLY:O	4:K:385:LYS:NZ	2.16	0.79
4:L:404:PHE:HB2	4:L:467:TYR:HB2	1.64	0.79
6:X:299:VAL:HG13	6:X:320:MET:HG3	1.65	0.79
2:C:694:ILE:O	2:C:703:ARG:NH1	2.16	0.79
4:K:380:LEU:O	4:K:447:SER:HA	1.83	0.79
5:O:1222:LEU:HD12	5:O:1223:PRO:HD2	1.65	0.79
2:C:365:PHE:O	2:C:369:ASN:ND2	2.14	0.79
4:M:18:ASN:HA	4:M:250:MET:H	1.45	0.79
6:Y:12:VAL:HA	6:Y:15:ILE:HD12	1.62	0.79
5:O:882:ARG:NH2	5:O:884:ASP:OD1	2.16	0.79
3:P:242:ASN:HD22	3:P:244:ARG:HH22	1.30	0.79
6:Z:99:MET:HE2	6:Z:282:MET:HE2	1.63	0.79
2:C:494:THR:HB	2:C:1270:VAL:HB	1.65	0.79
2:C:849:VAL:O	2:C:851:ARG:NH1	2.16	0.79
4:L:525:GLU:O	4:L:529:ALA:N	2.16	0.79
5:O:49:GLN:NE2	5:O:183:ASP:O	2.15	0.79
6:Y:236:ARG:HD2	6:Y:239:ARG:HE	1.47	0.79
1:B:309:ARG:HH12	1:B:321:SER:H	1.30	0.78
5:O:317:PRO:HA	5:O:387:LEU:HD13	1.65	0.78
3:P:183:PHE:HA	3:P:253:LEU:HD23	1.64	0.78
6:Y:171:ASN:HA	6:Y:174:ILE:HD12	1.65	0.78
5:O:55:VAL:HG12	5:O:177:ASN:HB2	1.64	0.78
1:B:602:GLY:HA2	1:B:833:VAL:HG13	1.65	0.78
3:D:167:ASP:HB3	3:D:170:MET:HE3	1.65	0.78
4:L:198:LEU:HG	4:L:199:LEU:HG	1.63	0.78
6:X:205:GLN:H	6:X:267:LYS:HZ3	1.31	0.78
5:O:585:HIS:ND1	5:O:586:ASP:OD2	2.17	0.78
5:O:418:THR:HA	5:O:709:ILE:HG22	1.65	0.78
5:O:525:ASP:HB3	5:O:554:VAL:HG23	1.65	0.78
2:C:309:ARG:NH2	2:C:368:ASP:O	2.17	0.78
3:D:8:PHE:CZ	3:D:125:TYR:HB2	2.19	0.78
3:D:35:SER:O	3:D:38:GLN:NE2	2.17	0.78
5:O:317:PRO:HG3	5:O:387:LEU:HD22	1.63	0.78
3:P:169:ASP:O	3:P:211:ARG:NH1	2.17	0.78
3:D:130:TYR:O	3:D:134:ALA:N	2.16	0.78
3:D:326:GLN:NE2	3:D:327:LEU:O	2.17	0.78
4:K:28:SER:HB2	4:K:244:ASN:HA	1.65	0.78
4:K:461:ASP:HB3	4:K:463:GLU:HG2	1.66	0.78
5:O:1129:ALA:HB3	5:O:1144:ASP:HB2	1.65	0.78
3:D:130:TYR:CE2	3:D:132:PHE:HB2	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:535:GLN:O	5:O:537:LYS:NZ	2.17	0.78
5:O:980:THR:CB	5:O:1020:ARG:O	2.30	0.78
1:B:1186:SER:H	1:B:1221:ALA:HB3	1.48	0.78
4:L:218:LEU:HD12	4:L:221:ASP:HB3	1.64	0.78
5:O:353:ILE:HB	5:O:371:ARG:HB2	1.65	0.78
5:O:743:ILE:H	5:O:787:ILE:HB	1.49	0.78
4:L:168:PRO:O	4:L:171:GLN:NE2	2.16	0.78
4:M:151:SER:HG	4:M:154:GLN:H	1.32	0.78
2:C:807:THR:HG21	2:C:886:LEU:HA	1.65	0.77
4:K:130:VAL:HG13	4:K:131:LEU:HG	1.66	0.77
4:K:344:LEU:HA	4:K:361:LEU:O	1.84	0.77
5:O:828:LEU:HD12	5:O:888:CYS:HB2	1.67	0.77
1:B:418:LYS:NZ	1:B:1224:ASP:OD1	2.18	0.77
2:C:708:ILE:HG23	2:C:712:TYR:HD1	1.49	0.77
2:C:797:LEU:HD23	2:C:800:LEU:HD12	1.67	0.77
4:M:375:PRO:HB2	4:M:498:LEU:HB2	1.67	0.77
6:Y:184:MET:O	6:Y:186:ARG:NH1	2.17	0.77
6:Y:325:ASN:HA	6:Y:328:MET:HE3	1.65	0.77
1:B:589:SER:OG	1:B:592:ARG:NH2	2.17	0.77
5:O:37:ASN:ND2	5:O:40:ARG:HE	1.81	0.77
5:O:253:ASP:HA	5:O:256:LEU:HD12	1.66	0.77
5:O:638:TYR:HB2	5:O:653:PHE:HE1	1.48	0.77
5:O:506:LEU:O	5:O:507:ARG:NH1	2.17	0.77
4:M:115:GLU:O	4:M:122:ARG:NH2	2.17	0.77
5:O:95:TYR:HA	5:O:98:LEU:HD12	1.67	0.77
5:O:532:PRO:HA	5:O:535:GLN:HB2	1.67	0.77
4:K:525:GLU:OE1	4:K:528:ASN:ND2	2.18	0.77
5:O:1171:PHE:HB3	5:O:1185:VAL:HG23	1.65	0.77
1:B:256:VAL:HA	1:B:372:LEU:HD12	1.67	0.77
2:C:270:PRO:HG3	2:C:297:PRO:HB2	1.65	0.77
2:C:684:TRP:O	2:C:840:ARG:NH2	2.18	0.77
1:B:746:GLN:OE1	5:O:158:GLN:NE2	2.17	0.77
3:D:123:ARG:NH1	3:D:125:TYR:OH	2.18	0.77
5:O:391:PRO:HA	5:O:788:LEU:HB2	1.65	0.77
3:P:139:PHE:HA	3:P:142:ARG:HE	1.49	0.77
6:X:246:ALA:HA	6:X:249:PHE:HB2	1.66	0.77
3:D:61:ALA:O	3:D:64:ARG:N	2.18	0.76
4:M:357:TRP:HA	4:M:475:SER:HA	1.68	0.76
2:C:718:GLN:HB2	2:C:738:VAL:HG13	1.67	0.76
2:C:1022:ASP:O	2:C:1025:GLN:NE2	2.18	0.76
4:M:34:LEU:HD21	4:M:110:ASN:HB3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:182:ASN:OD1	6:Y:362:MET:N	2.18	0.76
4:L:636:ARG:NH2	4:M:29:THR:OG1	2.17	0.76
1:B:366:VAL:HG21	1:B:1024:VAL:HG22	1.66	0.76
2:C:275:GLN:NE2	2:C:276:VAL:O	2.18	0.76
4:M:154:GLN:HG2	4:M:158:ASN:HD21	1.50	0.76
6:Z:30:GLU:OE2	6:Z:38:ALA:N	2.17	0.76
6:Z:180:VAL:N	6:Z:364:LEU:O	2.17	0.76
3:P:271:PHE:O	3:P:328:HIS:ND1	2.16	0.76
3:D:9:LYS:O	3:D:154:ASN:ND2	2.18	0.76
4:K:144:VAL:O	4:K:162:GLN:N	2.19	0.76
1:B:1187:ASP:OD1	1:B:1188:HIS:ND1	2.17	0.76
5:O:8:ARG:HD3	5:O:315:ALA:HB3	1.68	0.76
2:C:1146:TYR:HB2	2:C:1180:PHE:HE1	1.50	0.76
5:O:172:TYR:HB3	5:O:187:LEU:HD13	1.67	0.76
5:O:278:ARG:O	5:O:281:GLN:NE2	2.17	0.76
6:Z:95:TRP:HH2	6:Z:270:ALA:HB2	1.51	0.76
1:B:1034:GLU:HB3	1:B:1037:LEU:HD22	1.67	0.75
2:C:352:LEU:HA	2:C:954:SER:HA	1.67	0.75
4:K:304:LEU:HD21	4:K:621:LYS:HD2	1.68	0.75
3:P:90:ARG:HH21	3:P:115:PRO:HA	1.49	0.75
6:Z:347:THR:HG22	6:Z:349:PHE:H	1.51	0.75
2:C:1120:ARG:NH1	2:C:1170:ILE:O	2.18	0.75
5:O:16:PRO:HG3	5:O:270:ALA:HA	1.69	0.75
5:O:1053:PHE:N	5:O:1065:THR:OG1	2.19	0.75
4:L:614:ALA:O	6:Z:63:ARG:NH2	2.20	0.75
4:M:352:ASN:ND2	4:M:424:VAL:O	2.19	0.75
3:P:9:LYS:HA	3:P:124:VAL:HA	1.68	0.75
6:Y:5:LEU:HD12	6:Y:6:PRO:HD2	1.67	0.75
1:B:348:GLY:HA3	1:B:1175:ILE:H	1.51	0.75
3:D:5:ALA:O	3:D:144:TYR:OH	2.02	0.75
4:K:393:ASP:O	4:K:397:LYS:NZ	2.13	0.75
5:O:892:LEU:H	5:O:925:GLN:HE22	1.31	0.75
3:P:197:ALA:O	3:P:203:TRP:NE1	2.19	0.75
3:P:256:SER:OG	3:P:258:ASN:ND2	2.19	0.75
2:C:623:LEU:HA	2:C:626:LEU:HD13	1.68	0.75
5:O:282:CYS:SG	5:O:283:TYR:N	2.55	0.75
1:B:481:TRP:NE1	2:C:669:TYR:OH	2.19	0.75
1:B:847:VAL:HG13	1:B:870:THR:HA	1.69	0.75
2:C:546:ILE:HD12	2:C:822:ILE:HD11	1.69	0.75
3:P:170:MET:HB3	3:P:215:ILE:HD11	1.69	0.75
1:B:375:HIS:HA	1:B:1259:ARG:HB3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:439:MET:HG3	2:C:861:ALA:HA	1.67	0.75
4:K:298:PRO:O	4:K:302:ALA:N	2.19	0.75
4:L:250:MET:HB2	4:L:257:VAL:HG22	1.69	0.75
5:O:373:ASN:O	5:O:376:ARG:NH1	2.17	0.75
6:Y:257:TYR:HB3	6:Y:343:PHE:HA	1.67	0.75
6:Z:217:GLU:HA	6:Z:266:GLY:HA2	1.67	0.75
3:D:411:SER:HA	3:D:414:ILE:HD12	1.69	0.75
2:C:1121:TYR:O	2:C:1125:GLN:NE2	2.19	0.74
5:O:516:GLY:HA3	5:O:577:ASP:HB2	1.69	0.74
5:O:707:GLU:OE2	5:O:758:ARG:NH1	2.20	0.74
6:Y:259:ARG:N	6:Y:272:PHE:O	2.18	0.74
4:K:216:VAL:HA	4:K:219:LEU:HD12	1.68	0.74
5:O:353:ILE:HD11	5:O:369:TYR:HB3	1.69	0.74
5:O:722:ALA:HA	5:O:725:ILE:HD12	1.69	0.74
1:B:516:ILE:HG21	1:B:1013:PRO:HB3	1.69	0.74
3:D:250:VAL:HG12	3:D:251:TRP:H	1.52	0.74
4:L:582:GLY:O	6:Z:70:HIS:ND1	2.14	0.74
5:O:997:GLU:OE1	5:O:999:THR:OG1	2.04	0.74
6:Z:198:GLU:H	6:Z:201:ALA:HB3	1.51	0.74
2:C:1131:LYS:HA	2:C:1160:TRP:CH2	2.21	0.74
4:K:64:ARG:NH1	4:K:65:ARG:O	2.20	0.74
4:K:377:ARG:HB3	4:K:496:SER:HB2	1.69	0.74
4:K:566:VAL:O	4:K:569:GLN:NE2	2.19	0.74
4:L:250:MET:HG2	4:L:254:GLU:HB2	1.69	0.74
4:M:350:THR:HA	4:M:356:ASN:HA	1.67	0.74
1:B:415:ASN:O	2:C:1082:ARG:NE	2.19	0.74
2:C:262:LEU:N	2:C:311:ALA:O	2.20	0.74
2:C:1211:CYS:SG	2:C:1212:THR:N	2.59	0.74
5:O:1047:PHE:O	5:O:1087:TRP:NE1	2.19	0.74
1:B:374:ARG:NH1	1:B:1262:TYR:O	2.19	0.74
1:B:1166:TRP:CD1	1:B:1179:PRO:HD3	2.23	0.74
2:C:462:ARG:HA	2:C:465:TRP:HB3	1.70	0.74
2:C:527:ASN:ND2	2:C:867:THR:OG1	2.21	0.74
4:M:223:LEU:HB2	4:M:230:ARG:HH21	1.52	0.74
5:O:372:LYS:HB3	5:O:374:GLN:HG2	1.68	0.74
5:O:435:LEU:HB2	5:O:644:PHE:HD2	1.51	0.74
2:C:479:ILE:O	2:C:483:LEU:HG	1.88	0.74
3:D:73:SER:O	3:D:77:GLN:NE2	2.21	0.74
4:L:46:VAL:HG11	4:L:65:ARG:HG3	1.67	0.74
4:L:435:SER:HA	4:L:442:ILE:HG23	1.68	0.74
5:O:1241:LYS:HA	5:O:1246:THR:HA	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:229:HIS:CE1	3:P:232:ASN:H	2.05	0.74
4:M:19:VAL:HG21	4:M:257:VAL:HG11	1.69	0.74
5:O:178:TYR:OH	5:O:180:ASN:ND2	2.20	0.74
5:O:409:GLU:OE1	5:O:409:GLU:N	2.21	0.74
6:Y:72:ARG:N	6:Y:72:ARG:HD2	2.01	0.74
2:C:536:LEU:HA	2:C:539:ILE:HD12	1.70	0.74
6:Z:20:GLU:HG3	6:Z:22:ARG:HB2	1.69	0.74
4:K:145:ASP:OD1	4:K:162:GLN:N	2.20	0.74
4:M:48:TRP:N	4:M:147:TYR:O	2.20	0.73
4:M:144:VAL:HG12	4:M:145:ASP:H	1.53	0.73
1:B:545:ARG:NH2	1:B:908:MET:SD	2.61	0.73
1:B:884:VAL:O	1:B:887:LEU:N	2.21	0.73
2:C:516:ILE:HA	2:C:519:ILE:HD12	1.67	0.73
2:C:1046:ILE:HB	2:C:1200:ILE:HB	1.70	0.73
4:K:426:ASN:HD22	6:Z:62:GLN:HG2	1.53	0.73
4:K:534:ASP:HB2	4:K:537:ARG:HG3	1.70	0.73
4:K:629:GLN:OE1	4:K:632:LYS:NZ	2.18	0.73
5:O:412:LEU:O	5:O:416:ARG:NH2	2.18	0.73
5:O:724:ARG:NE	5:O:775:ILE:O	2.21	0.73
6:Y:220:VAL:HG13	6:Y:264:ILE:HA	1.69	0.73
2:C:998:ALA:HB1	2:C:1010:ASN:HD21	1.53	0.73
4:K:250:MET:SD	4:K:257:VAL:N	2.61	0.73
3:P:66:TYR:O	3:P:69:SER:OG	2.03	0.73
6:X:221:MET:HA	6:X:358:ILE:HA	1.70	0.73
1:B:265:SER:O	1:B:307:HIS:N	2.20	0.73
1:B:623:LEU:HD12	1:B:626:LEU:HB2	1.70	0.73
1:B:883:THR:O	1:B:887:LEU:HG	1.89	0.73
2:C:1139:ILE:HG21	2:C:1141:MET:HE3	1.70	0.73
5:O:1192:LYS:HE3	5:O:1219:THR:HA	1.70	0.73
3:P:170:MET:HA	3:P:211:ARG:HD2	1.70	0.73
3:P:227:VAL:O	3:P:232:ASN:ND2	2.22	0.73
1:B:433:ARG:HA	1:B:450:VAL:HA	1.69	0.73
1:B:944:PRO:HD3	3:P:105:VAL:HA	1.69	0.73
4:L:324:ARG:HE	4:L:489:TRP:HB2	1.53	0.73
3:P:41:GLN:HE21	3:P:45:TRP:CD1	2.05	0.73
6:Y:66:LYS:HB3	6:Y:67:HIS:CE1	2.23	0.73
1:B:338:LEU:HD23	1:B:339:LEU:HG	1.69	0.73
3:D:95:VAL:O	3:D:104:LEU:HA	1.88	0.73
4:K:510:VAL:HG21	4:K:513:VAL:HG22	1.69	0.73
4:M:69:LYS:HE2	4:M:97:ASP:HB2	1.70	0.73
1:B:458:THR:HA	1:B:461:ILE:HD12	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:3:ARG:HA	3:D:300:GLN:HB2	1.70	0.73
5:O:1173:PHE:HA	5:O:1183:MET:HG2	1.70	0.73
6:X:273:SER:OG	6:X:281:LYS:N	2.20	0.73
1:B:741:LEU:HG	1:B:743:ILE:H	1.52	0.73
4:K:385:LYS:H	4:K:443:ILE:HG22	1.53	0.73
1:B:1159:ALA:O	1:B:1163:THR:OG1	2.07	0.73
5:O:28:HIS:N	5:O:108:ASN:OD1	2.21	0.73
6:X:128:LEU:HG	6:X:129:VAL:HG13	1.71	0.73
1:B:359:LEU:HA	1:B:362:LEU:HD12	1.71	0.73
1:B:380:GLN:HE22	2:C:958:SER:H	1.35	0.72
2:C:466:MET:HA	2:C:469:LEU:HD12	1.71	0.72
4:M:190:ILE:HD12	4:M:193:ARG:HB2	1.69	0.72
5:O:480:ASP:OD1	5:O:481:ARG:NH1	2.22	0.72
1:B:1112:LEU:HD12	1:B:1115:TRP:HB3	1.71	0.72
4:M:624:TRP:HA	4:M:627:LEU:HD12	1.71	0.72
5:O:1054:ASN:OD1	5:O:1064:SER:OG	2.05	0.72
2:C:436:ARG:HB2	2:C:448:VAL:HG22	1.71	0.72
2:C:437:ALA:O	2:C:438:GLN:NE2	2.22	0.72
4:M:566:VAL:O	4:M:569:GLN:NE2	2.22	0.72
5:O:706:ILE:HD13	5:O:757:ARG:HG3	1.69	0.72
6:Z:236:ARG:HD3	6:Z:239:ARG:HH21	1.53	0.72
1:B:580:LYS:O	1:B:582:ARG:NH1	2.22	0.72
2:C:708:ILE:O	2:C:712:TYR:N	2.23	0.72
4:L:406:SER:HB2	4:L:420:GLY:HA3	1.72	0.72
6:Z:16:ASN:HD21	6:Z:335:LEU:HD22	1.54	0.72
6:Z:127:SER:OG	6:Z:130:GLU:OE1	2.08	0.72
1:B:275:GLN:NE2	1:B:1187:ASP:OD1	2.23	0.72
1:B:690:ASN:OD1	1:B:692:GLN:NE2	2.22	0.72
1:B:848:GLY:HA2	1:B:869:THR:H	1.52	0.72
4:L:50:ALA:HA	4:L:63:LEU:HA	1.71	0.72
5:O:836:ILE:HA	5:O:839:LEU:HD13	1.71	0.72
2:C:1130:ILE:HD13	2:C:1135:LEU:HB2	1.72	0.72
4:K:12:ASN:ND2	4:K:16:ASP:O	2.23	0.72
5:O:83:GLU:OE2	5:O:84:ARG:NH1	2.23	0.72
3:P:10:THR:HB	3:P:123:ARG:HB2	1.72	0.72
6:Z:258:SER:N	6:Z:342:MET:O	2.22	0.72
2:C:929:GLN:HE21	2:C:1017:GLY:HA2	1.54	0.72
4:M:251:ASP:O	4:M:255:GLY:N	2.23	0.72
4:M:362:ARG:HD2	4:M:486:PRO:HA	1.70	0.72
5:O:1145:ILE:HD13	5:O:1181:LEU:HG	1.71	0.72
6:Z:133:TRP:HD1	6:Z:134:LEU:HD23	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:401:PHE:HB3	4:K:468:LEU:HD11	1.70	0.72
4:K:595:ILE:HD13	4:K:598:ARG:HH11	1.55	0.72
4:L:34:LEU:HD11	4:L:113:LYS:HB2	1.71	0.72
5:O:768:ARG:NH2	5:O:841:PRO:O	2.23	0.72
6:X:96:LYS:HA	6:X:99:MET:HG2	1.71	0.72
6:X:236:ARG:HG3	6:X:240:LYS:HD2	1.70	0.72
2:C:844:PRO:HA	2:C:1003:GLN:HA	1.71	0.72
4:K:115:GLU:OE2	4:K:134:SER:OG	2.07	0.72
4:K:211:PRO:O	4:K:214:SER:OG	2.08	0.72
4:L:628:ALA:O	4:L:632:LYS:NZ	2.22	0.72
4:M:327:LYS:HZ3	4:M:329:ASP:H	1.38	0.72
4:M:386:SER:HB3	4:M:441:SER:HB3	1.71	0.72
5:O:1172:GLN:N	5:O:1184:ASN:O	2.23	0.72
3:P:306:ASN:HB3	3:P:314:ARG:HD3	1.72	0.72
2:C:336:LYS:HG2	2:C:349:ALA:HB2	1.72	0.71
4:L:357:TRP:HA	4:L:475:SER:HA	1.72	0.71
5:O:425:ASP:N	5:O:792:PRO:O	2.18	0.71
5:O:1004:ALA:O	5:O:1007:ARG:HD3	1.90	0.71
3:P:48:LEU:HD22	3:P:50:ARG:HD2	1.70	0.71
6:X:12:VAL:HA	6:X:15:ILE:HD12	1.71	0.71
3:D:24:GLU:OE2	3:D:28:HIS:ND1	2.22	0.71
4:K:260:GLU:OE1	4:L:65:ARG:NH1	2.23	0.71
4:L:601:GLN:HA	4:L:604:ILE:HD12	1.70	0.71
1:B:1031:PHE:HZ	1:B:1040:ILE:HG13	1.54	0.71
4:K:606:ASP:O	4:K:609:THR:OG1	2.08	0.71
4:M:505:VAL:O	6:Y:312:ARG:NH2	2.22	0.71
6:Y:121:VAL:HG21	6:Y:128:LEU:HD13	1.72	0.71
6:Y:325:ASN:O	6:Y:329:GLN:NE2	2.22	0.71
1:B:493:VAL:HG12	1:B:1273:GLY:HA2	1.71	0.71
2:C:1040:ILE:HA	2:C:1144:TYR:O	1.90	0.71
4:M:401:PHE:HB2	4:M:426:ASN:HB3	1.71	0.71
5:O:394:VAL:O	5:O:740:SER:HA	1.91	0.71
3:P:369:ARG:NH2	3:P:399:ASN:OD1	2.23	0.71
1:B:602:GLY:N	1:B:831:PHE:O	2.21	0.71
2:C:682:HIS:HB3	2:C:1004:TYR:HE2	1.55	0.71
2:C:1050:VAL:O	2:C:1196:VAL:HA	1.90	0.71
3:D:145:GLN:O	3:D:148:SER:OG	2.08	0.71
5:O:314:LEU:HB2	5:O:318:ILE:HD11	1.72	0.71
6:X:318:GLY:HA3	6:X:322:GLY:HA3	1.72	0.71
2:C:708:ILE:HD13	2:C:711:ARG:HD2	1.73	0.71
2:C:1187:ASP:OD1	2:C:1188:HIS:ND1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1211:CYS:HA	2:C:1225:LYS:HG3	1.72	0.71
3:D:85:ARG:HH12	3:D:88:ASP:HB3	1.56	0.71
4:K:436:SER:HB3	4:L:324:ARG:HH12	1.54	0.71
5:O:227:PRO:HG3	5:O:232:HIS:HE1	1.56	0.71
5:O:829:GLY:HA3	5:O:891:SER:HB3	1.73	0.71
6:X:90:ARG:O	6:X:94:HIS:ND1	2.24	0.71
6:X:206:PHE:O	6:X:208:ARG:NH1	2.23	0.71
1:B:436:ARG:NH1	2:C:859:GLN:OE1	2.24	0.71
4:K:399:VAL:HG22	4:K:472:PHE:HA	1.72	0.71
4:M:459:LYS:HE2	4:M:462:PRO:HA	1.73	0.71
1:B:1144:TYR:HE2	1:B:1146:TYR:HB3	1.56	0.71
2:C:942:GLN:OE1	2:C:995:THR:OG1	2.08	0.71
3:P:47:SER:O	3:P:50:ARG:NH1	2.24	0.71
6:X:221:MET:HB3	6:X:356:VAL:HG12	1.71	0.71
2:C:380:GLN:HA	2:C:390:ASN:HA	1.73	0.71
4:K:362:ARG:HD2	4:K:486:PRO:HG3	1.73	0.71
5:O:212:TRP:CD2	3:P:138:ARG:HD2	2.26	0.71
3:D:373:GLU:O	3:D:377:ARG:NE	2.22	0.71
4:K:42:ASN:ND2	4:M:113:LYS:O	2.24	0.71
4:K:145:ASP:OD1	4:K:162:GLN:NE2	2.24	0.71
4:L:221:ASP:OD2	4:L:222:GLN:NE2	2.24	0.71
4:L:284:LYS:HZ1	4:M:36:LEU:HB2	1.54	0.71
5:O:587:ASP:HA	5:O:590:ILE:HD13	1.72	0.71
3:D:271:PHE:O	3:D:328:HIS:ND1	2.24	0.70
5:O:17:THR:HB	5:O:360:VAL:HG13	1.73	0.70
5:O:340:ASN:ND2	5:O:342:THR:O	2.23	0.70
1:B:544:GLN:OE1	1:B:592:ARG:NH2	2.23	0.70
2:C:376:THR:HG23	2:C:1259:ARG:HH12	1.56	0.70
4:M:264:ALA:O	4:M:268:SER:N	2.24	0.70
5:O:1156:PHE:HD2	5:O:1163:TRP:HB3	1.56	0.70
3:P:8:PHE:CE2	3:P:125:TYR:HB2	2.25	0.70
3:P:42:PHE:HA	3:P:64:ARG:HE	1.53	0.70
1:B:508:ARG:HH12	1:B:725:ASN:HB3	1.56	0.70
1:B:768:VAL:HA	1:B:771:LEU:HD12	1.72	0.70
1:B:924:THR:HG23	1:B:983:LEU:HD11	1.73	0.70
2:C:421:ASN:HD21	2:C:1217:PRO:HA	1.56	0.70
3:D:314:ARG:HA	3:D:320:THR:HG21	1.73	0.70
4:K:146:CYS:SG	4:K:147:TYR:N	2.62	0.70
4:K:636:ARG:O	4:L:29:THR:OG1	2.07	0.70
4:L:108:ILE:O	4:L:112:THR:OG1	2.09	0.70
4:M:115:GLU:OE2	4:M:174:TYR:OH	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:17:GLN:NE2	3:P:18:ASN:OD1	2.24	0.70
1:B:773:LYS:NZ	1:B:798:ASP:OD1	2.24	0.70
2:C:601:ASN:H	2:C:832:GLN:HG2	1.57	0.70
3:D:262:GLN:NE2	3:D:263:ILE:O	2.25	0.70
4:K:176:ASP:HA	4:K:179:GLN:HE21	1.56	0.70
4:M:218:LEU:O	4:M:222:GLN:HG2	1.91	0.70
3:P:200:ASN:OD1	3:P:201:ARG:N	2.23	0.70
6:Y:260:ALA:HA	6:Y:271:VAL:HA	1.74	0.70
2:C:580:LYS:O	2:C:582:ARG:NH1	2.25	0.70
2:C:1067:PHE:HD1	2:C:1136:ARG:HH21	1.37	0.70
3:D:79:PRO:HD3	3:D:96:TRP:HE1	1.57	0.70
4:L:370:LEU:N	4:L:466:TYR:O	2.25	0.70
5:O:27:LEU:HG	5:O:109:GLU:N	2.07	0.70
6:Y:86:GLN:H	6:Y:86:GLN:CD	1.99	0.70
4:K:32:PRO:HG3	4:L:38:PRO:HG2	1.71	0.70
4:L:277:PRO:O	4:L:282:LYS:NZ	2.24	0.70
5:O:202:ASP:O	5:O:231:HIS:ND1	2.25	0.70
6:Y:63:ARG:HD3	6:Y:63:ARG:H	1.54	0.70
6:Y:291:LYS:O	6:Y:294:THR:OG1	2.09	0.70
6:Z:109:MET:HG3	6:Z:131:LEU:HD22	1.73	0.70
2:C:375:HIS:HA	2:C:1259:ARG:HD3	1.72	0.70
2:C:1209:LEU:O	2:C:1225:LYS:NZ	2.24	0.70
4:K:396:GLY:O	4:K:429:GLN:NE2	2.19	0.70
5:O:223:HIS:CE1	5:O:281:GLN:HA	2.27	0.70
5:O:300:ARG:O	5:O:304:LEU:HG	1.92	0.70
5:O:830:THR:HG21	5:O:848:CYS:HB3	1.73	0.70
6:Z:22:ARG:HH22	6:Z:159:LEU:HD22	1.57	0.70
2:C:620:VAL:O	2:C:782:GLN:NE2	2.24	0.70
2:C:1224:ASP:OD2	2:C:1225:LYS:N	2.25	0.70
4:K:522:TYR:O	4:K:613:GLN:N	2.22	0.70
5:O:43:TRP:HD1	5:O:45:PRO:HD3	1.55	0.70
6:X:127:SER:HA	6:X:364:LEU:HA	1.74	0.70
2:C:759:ASN:HA	2:C:812:GLN:HE22	1.56	0.70
4:L:123:GLU:HG2	4:L:235:GLU:HG2	1.73	0.70
5:O:154:SER:O	5:O:158:GLN:NE2	2.24	0.70
5:O:352:GLN:OE1	5:O:372:LYS:N	2.18	0.70
6:X:64:LYS:O	6:X:66:LYS:NZ	2.23	0.70
6:Y:78:ARG:HE	6:Y:80:GLN:NE2	1.90	0.70
1:B:263:CYS:SG	1:B:462:ARG:NH1	2.65	0.70
2:C:707:GLU:O	2:C:711:ARG:CB	2.40	0.70
2:C:1120:ARG:O	2:C:1124:GLN:HG2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:396:GLY:H	4:L:431:TYR:HA	1.56	0.70
2:C:731:ASN:OD1	2:C:734:THR:N	2.24	0.69
5:O:636:THR:N	5:O:656:PHE:O	2.24	0.69
5:O:1077:SER:O	5:O:1089:LEU:HA	1.92	0.69
2:C:401:LYS:O	2:C:404:SER:OG	2.09	0.69
2:C:543:LEU:HG	2:C:592:ARG:HD2	1.73	0.69
4:K:484:THR:OG1	4:K:485:GLN:NE2	2.25	0.69
5:O:472:PHE:HA	5:O:475:ALA:HB3	1.73	0.69
6:Y:79:HIS:HA	6:Y:82:TYR:CZ	2.26	0.69
1:B:1110:PHE:HE1	1:B:1115:TRP:HB2	1.55	0.69
2:C:267:LYS:O	2:C:305:VAL:N	2.19	0.69
3:D:333:ARG:NE	3:D:358:GLU:OE2	2.22	0.69
4:K:15:GLY:O	4:K:213:GLN:NE2	2.25	0.69
4:K:349:VAL:O	4:K:356:ASN:ND2	2.25	0.69
5:O:9:LEU:HD23	5:O:314:LEU:HA	1.72	0.69
5:O:849:VAL:HG22	5:O:868:LEU:HB2	1.73	0.69
3:P:25:LEU:HA	3:P:28:HIS:CD2	2.28	0.69
6:Y:73:CYS:SG	6:Y:74:ASN:N	2.65	0.69
2:C:729:SER:HB3	2:C:736:PRO:HB2	1.73	0.69
2:C:929:GLN:NE2	2:C:1016:PRO:O	2.25	0.69
6:X:289:THR:O	6:X:293:LYS:NZ	2.26	0.69
1:B:483:LEU:O	1:B:487:ALA:N	2.24	0.69
2:C:500:SER:OG	2:C:1263:GLU:OE1	2.09	0.69
4:K:348:GLN:HB3	4:K:356:ASN:HD21	1.56	0.69
4:K:631:VAL:O	4:K:634:SER:OG	2.11	0.69
3:P:230:GLN:NE2	3:P:238:TYR:OH	2.24	0.69
1:B:760:GLU:O	1:B:764:TRP:CB	2.35	0.69
2:C:601:ASN:OD1	2:C:602:GLY:N	2.25	0.69
2:C:713:TRP:CD2	2:C:714:PRO:HD2	2.28	0.69
4:M:105:GLU:HA	4:M:108:ILE:HD12	1.74	0.69
5:O:10:ALA:N	5:O:313:GLN:O	2.25	0.69
5:O:403:ASP:HB3	5:O:774:LEU:HD12	1.75	0.69
5:O:491:LYS:NZ	5:O:539:SER:O	2.26	0.69
5:O:1123:ASP:OD1	5:O:1124:VAL:N	2.25	0.69
6:Z:295:VAL:O	6:Z:299:VAL:HG23	1.93	0.69
1:B:465:TRP:O	1:B:469:LEU:HG	1.93	0.69
1:B:374:ARG:O	1:B:1259:ARG:NH1	2.26	0.69
1:B:696:PRO:HB3	1:B:703:ARG:HG2	1.75	0.69
1:B:729:SER:OG	1:B:731:ASN:ND2	2.26	0.69
1:B:1044:ASP:OD1	1:B:1141:MET:N	2.22	0.69
2:C:325:ALA:HB3	2:C:331:ASN:HD21	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:517:SER:HA	2:C:520:ILE:HD12	1.73	0.69
2:C:577:ILE:HA	2:C:580:LYS:HD3	1.75	0.69
2:C:601:ASN:ND2	2:C:832:GLN:OE1	2.25	0.69
2:C:707:GLU:HB3	2:C:711:ARG:HH22	1.57	0.69
2:C:1161:ASN:O	2:C:1164:SER:OG	2.10	0.69
4:K:400:GLY:HA2	4:K:448:LEU:HD21	1.73	0.69
4:K:599:ALA:HB1	4:K:618:LEU:HD11	1.74	0.69
4:L:284:LYS:HA	4:L:287:GLU:HG3	1.74	0.69
4:M:60:PRO:HA	4:M:153:ARG:HD2	1.75	0.69
5:O:448:VAL:N	5:O:666:TRP:O	2.25	0.69
3:P:304:ILE:HA	3:P:324:GLY:HA3	1.75	0.69
6:Y:245:PRO:O	6:Y:249:PHE:N	2.21	0.69
6:Z:138:PRO:HA	6:Z:143:ARG:HB3	1.75	0.69
2:C:283:TYR:HB2	2:C:290:TYR:HB2	1.75	0.69
2:C:381:ASP:HB3	2:C:386:THR:HB	1.75	0.69
4:K:320:ASP:OD1	4:K:493:LEU:N	2.26	0.69
4:K:338:PRO:HG3	6:X:333:ILE:HG12	1.74	0.69
4:K:470:ALA:H	4:K:489:TRP:HE1	1.41	0.69
5:O:37:ASN:OD1	5:O:40:ARG:NH2	2.26	0.69
5:O:220:VAL:HG12	5:O:286:ARG:HB3	1.75	0.69
3:P:2:ALA:HB1	3:P:300:GLN:H	1.56	0.69
3:D:98:ALA:HB3	3:D:102:ASP:H	1.58	0.69
5:O:73:TYR:OH	5:O:170:ARG:NH2	2.26	0.69
5:O:172:TYR:HD2	5:O:190:LYS:HB2	1.58	0.69
5:O:509:ARG:HA	5:O:545:SER:N	2.08	0.69
3:P:9:LYS:HZ3	3:P:11:VAL:HA	1.58	0.69
6:Y:197:LEU:HA	6:Y:356:VAL:HB	1.75	0.69
2:C:541:VAL:HG12	2:C:545:ARG:HE	1.58	0.68
4:M:590:GLY:O	4:M:593:SER:OG	2.11	0.68
3:P:286:ILE:O	3:P:289:SER:OG	2.11	0.68
1:B:275:GLN:HG3	1:B:278:GLN:HE22	1.56	0.68
2:C:518:GLN:NE2	2:C:830:PRO:O	2.22	0.68
2:C:603:VAL:O	2:C:873:VAL:N	2.26	0.68
2:C:662:ILE:H	2:C:671:GLN:HE22	1.41	0.68
4:K:656:SER:HB3	4:M:305:VAL:HG13	1.74	0.68
4:L:455:GLU:O	4:L:458:ASN:ND2	2.26	0.68
4:M:569:GLN:HA	4:M:572:LEU:HD12	1.74	0.68
5:O:1197:TYR:HA	5:O:1212:HIS:O	1.93	0.68
5:O:1240:VAL:N	5:O:1248:CYS:O	2.22	0.68
5:O:1264:LEU:HD12	5:O:1276:THR:HG22	1.75	0.68
3:P:42:PHE:CZ	3:P:65:TYR:HB2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:198:GLU:OE1	6:Y:356:VAL:N	2.25	0.68
1:B:836:VAL:HB	1:B:839:ASP:HB3	1.76	0.68
1:B:858:THR:HG21	3:P:105:VAL:HG21	1.75	0.68
2:C:772:MET:HG2	2:C:775:LEU:HD23	1.75	0.68
4:L:402:ILE:HA	4:L:424:VAL:HA	1.73	0.68
4:L:631:VAL:O	4:L:635:LEU:HG	1.92	0.68
4:M:375:PRO:HG3	4:M:454:PRO:HD3	1.74	0.68
5:O:48:ASN:OD1	5:O:53:ASN:N	2.13	0.68
5:O:532:PRO:HB2	5:O:537:LYS:HB2	1.76	0.68
5:O:1063:PHE:HE1	5:O:1073:ILE:HG12	1.58	0.68
6:Y:257:TYR:HA	6:Y:342:MET:HG3	1.73	0.68
2:C:494:THR:HG22	2:C:496:PRO:HD3	1.75	0.68
4:M:151:SER:OG	4:M:154:GLN:N	2.18	0.68
4:M:233:PRO:HG2	4:M:234:LYS:HD3	1.75	0.68
5:O:532:PRO:O	5:O:536:GLY:N	2.26	0.68
6:Z:196:ARG:HE	6:Z:352:LEU:HB3	1.58	0.68
2:C:609:ASP:OD1	2:C:612:SER:N	2.27	0.68
4:L:280:GLU:HG3	4:L:284:LYS:HE2	1.76	0.68
4:L:346:GLN:HA	4:L:360:ASN:HA	1.76	0.68
4:M:472:PHE:HE1	4:M:485:GLN:HG3	1.58	0.68
4:M:522:TYR:O	4:M:612:THR:HA	1.94	0.68
4:M:634:SER:O	4:M:637:THR:OG1	2.09	0.68
5:O:1040:CYS:HB2	5:O:1093:PHE:HZ	1.58	0.68
1:B:438:GLN:O	2:C:859:GLN:NE2	2.27	0.68
1:B:1186:SER:N	1:B:1221:ALA:HB3	2.07	0.68
2:C:486:CYS:O	2:C:488:GLN:NE2	2.27	0.68
2:C:1067:PHE:CD2	2:C:1107:ASN:HB3	2.29	0.68
4:L:56:SER:OG	4:L:59:SER:O	2.08	0.68
4:M:49:ILE:N	4:M:66:MET:SD	2.67	0.68
4:M:471:THR:HA	4:M:488:VAL:HB	1.75	0.68
3:P:341:ASP:HA	3:P:354:GLN:HE22	1.59	0.68
6:X:196:ARG:NH2	6:X:352:LEU:O	2.26	0.68
1:B:464:ARG:HB3	1:B:1019:VAL:HG21	1.76	0.68
2:C:355:ARG:CZ	2:C:950:ASP:HA	2.24	0.68
4:L:370:LEU:HD21	4:L:468:LEU:HB2	1.76	0.68
4:M:143:TYR:HA	4:M:163:VAL:O	1.93	0.68
5:O:30:LEU:O	5:O:34:LEU:HG	1.94	0.68
5:O:41:GLU:OE1	5:O:87:ARG:NH2	2.25	0.68
5:O:317:PRO:HB3	5:O:387:LEU:HB3	1.75	0.68
6:X:21:GLY:HA3	6:X:92:THR:HG21	1.74	0.68
6:Y:204:THR:HG1	6:Y:218:TRP:CD1	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:247:LEU:HG	1:B:521:ARG:NH2	2.09	0.68
1:B:809:MET:N	1:B:809:MET:SD	2.66	0.68
2:C:1233:ASN:HB3	2:C:1244:GLN:HE22	1.58	0.68
4:K:48:TRP:HB3	4:K:63:LEU:HD11	1.76	0.68
4:K:334:LEU:HA	4:K:369:ASN:H	1.58	0.68
4:L:324:ARG:NH2	4:L:489:TRP:H	1.92	0.68
5:O:391:PRO:HB3	5:O:788:LEU:HD12	1.75	0.68
5:O:742:ALA:HA	5:O:787:ILE:HB	1.74	0.68
5:O:1198:ILE:O	5:O:1211:GLN:NE2	2.26	0.68
6:X:33:ASP:OD2	6:X:34:LYS:N	2.27	0.68
6:Y:60:SER:HB3	6:Y:63:ARG:HH12	1.58	0.68
6:Z:199:GLY:H	6:Z:202:ARG:HE	1.42	0.68
1:B:251:ASP:HB2	1:B:979:LEU:HD22	1.75	0.68
2:C:1003:GLN:HB2	2:C:1007:ARG:N	2.09	0.68
3:D:351:GLN:O	3:D:355:ASN:ND2	2.27	0.68
4:M:379:VAL:HA	4:M:448:LEU:O	1.94	0.68
5:O:423:ARG:HA	5:O:697:VAL:HA	1.75	0.68
5:O:685:SER:O	5:O:688:SER:OG	2.11	0.68
5:O:711:ILE:O	5:O:751:VAL:HA	1.94	0.68
6:X:20:GLU:O	6:X:22:ARG:NH1	2.27	0.68
6:X:113:VAL:HG11	6:X:118:LEU:HD13	1.73	0.68
2:C:337:GLN:HG2	2:C:357:ASN:HD22	1.59	0.68
2:C:383:THR:HB	2:C:410:ARG:HH22	1.58	0.68
2:C:1233:ASN:OD1	2:C:1236:THR:OG1	2.12	0.68
4:K:660:TRP:NE1	4:M:622:ASN:OD1	2.26	0.68
4:L:375:PRO:HB3	4:L:453:GLU:HG2	1.76	0.68
4:M:43:PRO:HB2	4:M:102:VAL:HG13	1.74	0.68
5:O:1133:GLN:NE2	5:O:1135:ASP:OD1	2.27	0.68
5:O:1197:TYR:HB3	5:O:1211:GLN:NE2	2.08	0.68
6:Y:141:MET:HE2	6:Y:216:LEU:HD11	1.76	0.68
6:Z:245:PRO:HB2	6:Z:259:ARG:HH22	1.59	0.68
1:B:1150:TYR:HA	1:B:1182:VAL:O	1.93	0.67
2:C:846:MET:HA	2:C:871:VAL:HG22	1.76	0.67
3:D:70:CYS:O	3:D:73:SER:OG	2.11	0.67
4:M:325:THR:H	4:M:326:LEU:HD12	1.57	0.67
3:P:21:ILE:HD13	3:P:70:CYS:HB2	1.74	0.67
6:Y:259:ARG:O	6:Y:272:PHE:N	2.26	0.67
6:Z:128:LEU:HG	6:Z:129:VAL:HG23	1.75	0.67
6:Z:225:TYR:HA	6:Z:228:LEU:HD13	1.76	0.67
2:C:543:LEU:HD21	2:C:595:LEU:HD12	1.75	0.67
3:D:67:GLN:HG3	3:D:393:ARG:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:66:MET:HG3	4:L:100:LEU:HD12	1.76	0.67
4:L:636:ARG:NH2	4:M:27:SER:O	2.27	0.67
4:M:10:THR:OG1	4:M:11:ILE:N	2.25	0.67
5:O:203:THR:HA	5:O:231:HIS:HD1	1.59	0.67
3:P:219:LEU:HD21	3:P:238:TYR:HA	1.74	0.67
6:X:7:ASN:HB2	6:X:10:GLN:HG2	1.76	0.67
6:Y:91:VAL:HA	6:Y:94:HIS:CD2	2.29	0.67
1:B:532:ILE:O	1:B:536:LEU:HG	1.94	0.67
2:C:954:SER:O	2:C:956:ARG:NH1	2.26	0.67
3:D:55:SER:HB3	3:D:59:PRO:HB3	1.75	0.67
4:K:321:TYR:HH	4:K:537:ARG:HH22	1.42	0.67
4:K:378:PHE:O	4:K:449:ALA:HA	1.95	0.67
5:O:80:ASP:HB2	5:O:84:ARG:HH12	1.57	0.67
6:Y:191:ALA:HA	6:Y:195:VAL:HG11	1.77	0.67
1:B:473:ASN:OD1	1:B:505:MET:N	2.22	0.67
1:B:501:VAL:HG12	1:B:503:ARG:HH21	1.58	0.67
1:B:517:SER:HA	1:B:520:ILE:HD12	1.76	0.67
1:B:556:ILE:HD12	1:B:556:ILE:H	1.60	0.67
1:B:591:PHE:HB3	1:B:592:ARG:HH11	1.60	0.67
2:C:339:LEU:HG	2:C:968:TRP:HE1	1.60	0.67
2:C:494:THR:N	2:C:1270:VAL:O	2.22	0.67
4:K:523:THR:O	4:K:526:SER:OG	2.09	0.67
5:O:45:PRO:HB2	5:O:54:ILE:HD13	1.77	0.67
5:O:825:VAL:HA	5:O:885:ILE:HG23	1.76	0.67
3:P:211:ARG:HA	3:P:214:GLN:NE2	2.09	0.67
6:Y:169:ALA:HA	6:Y:172:LEU:HD12	1.76	0.67
2:C:822:ILE:HA	2:C:825:MET:HB2	1.77	0.67
4:M:176:ASP:OD2	4:M:179:GLN:NE2	2.27	0.67
4:M:661:THR:HA	4:M:664:PHE:CD2	2.30	0.67
5:O:310:ASN:O	5:O:357:SER:OG	2.12	0.67
3:P:42:PHE:HZ	3:P:65:TYR:HB2	1.60	0.67
2:C:685:PRO:O	2:C:689:MET:N	2.28	0.67
2:C:1204:TYR:HB2	2:C:1206:ASP:CG	2.20	0.67
5:O:1054:ASN:HB3	5:O:1061:LEU:HD11	1.77	0.67
3:P:219:LEU:HA	3:P:222:LEU:HD12	1.76	0.67
3:P:300:GLN:NE2	3:P:301:LEU:O	2.27	0.67
6:Y:236:ARG:HH11	6:Y:239:ARG:HE	1.42	0.67
1:B:914:VAL:O	1:B:918:LEU:HG	1.95	0.67
2:C:1059:LEU:HD13	2:C:1205:ASN:H	1.60	0.67
4:K:392:TRP:HE1	4:K:394:PRO:HA	1.60	0.67
4:L:664:PHE:HA	4:L:667:LYS:HD2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:59:LEU:HD11	5:O:63:LEU:HB3	1.75	0.67
5:O:460:TYR:OH	5:O:469:ARG:NH2	2.28	0.67
3:P:58:VAL:HG23	3:P:63:SER:HB2	1.76	0.67
6:Y:180:VAL:N	6:Y:364:LEU:O	2.26	0.67
1:B:575:SER:HA	1:B:578:LEU:HD12	1.77	0.67
3:D:273:MET:O	3:D:329:GLY:HA2	1.94	0.67
4:M:520:GLY:N	4:M:610:ILE:O	2.22	0.67
5:O:18:ILE:HG21	5:O:273:ALA:HA	1.76	0.67
5:O:826:LEU:HD21	5:O:886:VAL:HG22	1.77	0.67
5:O:828:LEU:HB2	5:O:888:CYS:HA	1.77	0.67
6:Z:134:LEU:HA	6:Z:143:ARG:HH22	1.60	0.67
2:C:1063:PRO:HA	2:C:1066:VAL:HG22	1.77	0.67
4:L:402:ILE:HB	4:L:469:LEU:HB2	1.76	0.67
5:O:504:GLU:O	5:O:507:ARG:NH2	2.27	0.67
6:Z:308:VAL:HA	6:Z:311:ILE:HD12	1.76	0.67
2:C:475:ASN:O	2:C:479:ILE:HG12	1.95	0.67
4:K:372:GLN:HE22	4:K:509:VAL:H	1.43	0.67
4:K:561:TYR:HE1	4:L:224:PRO:HG3	1.60	0.67
4:L:540:ILE:HD11	4:L:607:PRO:HB2	1.75	0.67
5:O:425:ASP:HB2	5:O:793:VAL:HA	1.75	0.67
5:O:768:ARG:NH1	5:O:837:LEU:O	2.28	0.67
6:X:74:ASN:HD21	6:X:77:ILE:HD11	1.58	0.67
6:Y:71:HIS:C	6:Y:72:ARG:HD2	2.20	0.67
1:B:1210:PHE:CZ	1:B:1227:ILE:HG23	2.30	0.66
2:C:436:ARG:HA	2:C:448:VAL:HA	1.76	0.66
2:C:647:LYS:NZ	2:C:678:PHE:O	2.20	0.66
2:C:681:PRO:HB3	2:C:840:ARG:HG3	1.77	0.66
2:C:681:PRO:HA	2:C:684:TRP:CD2	2.30	0.66
2:C:699:ALA:HB1	2:C:702:LEU:HB2	1.76	0.66
4:L:51:ILE:HB	4:L:64:ARG:HB3	1.77	0.66
4:L:508:ALA:HB3	6:Z:312:ARG:HH21	1.60	0.66
5:O:490:LEU:HD12	5:O:493:ALA:HB3	1.77	0.66
6:Y:240:LYS:O	6:Y:247:ARG:NH1	2.27	0.66
6:Y:245:PRO:HA	6:Y:248:ASP:HB2	1.78	0.66
1:B:355:ARG:NH2	1:B:954:SER:O	2.28	0.66
1:B:518:GLN:HA	1:B:521:ARG:HD3	1.75	0.66
1:B:1026:LEU:O	1:B:1030:VAL:HG23	1.95	0.66
1:B:1031:PHE:CZ	1:B:1040:ILE:HG13	2.30	0.66
1:B:1135:LEU:HD12	1:B:1136:ARG:H	1.59	0.66
2:C:680:THR:OG1	2:C:1004:TYR:OH	2.13	0.66
2:C:689:MET:HE2	2:C:840:ARG:HE	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:222:LEU:HD22	3:D:418:ILE:HD11	1.77	0.66
3:D:277:PRO:HA	3:D:279:TRP:CE2	2.31	0.66
4:K:262:VAL:HB	4:L:45:GLY:HA2	1.76	0.66
5:O:323:THR:O	5:O:327:LEU:HG	1.95	0.66
6:Y:182:ASN:N	6:Y:362:MET:O	2.27	0.66
6:Z:91:VAL:HG11	6:Z:210:PHE:HB3	1.77	0.66
2:C:624:GLU:HA	2:C:627:TRP:CE3	2.30	0.66
4:K:346:GLN:NE2	4:K:478:ILE:O	2.27	0.66
4:L:47:PRO:HA	4:L:148:VAL:HG22	1.77	0.66
4:M:357:TRP:HE3	4:M:474:ASP:HA	1.60	0.66
5:O:181:ASP:OD1	5:O:182:ASP:N	2.29	0.66
5:O:182:ASP:HB3	5:O:325:ARG:CZ	2.25	0.66
5:O:995:LEU:HA	5:O:999:THR:H	1.59	0.66
6:Z:4:CYS:HB3	6:Z:57:VAL:HB	1.75	0.66
6:Z:54:CYS:SG	6:Z:71:HIS:NE2	2.65	0.66
1:B:348:GLY:CA	1:B:1175:ILE:H	2.09	0.66
2:C:607:VAL:HG12	2:C:641:ASP:HB2	1.77	0.66
3:D:3:ARG:NH2	3:D:318:GLY:O	2.29	0.66
4:K:154:GLN:O	4:K:158:ASN:N	2.29	0.66
4:L:41:LEU:HD23	4:L:106:HIS:HE1	1.61	0.66
6:Y:217:GLU:OE1	6:Y:217:GLU:N	2.28	0.66
6:Z:5:LEU:HD21	6:Z:310:LYS:HE3	1.76	0.66
1:B:307:HIS:HD1	1:B:310:TRP:HD1	1.43	0.66
2:C:355:ARG:NH2	2:C:950:ASP:HA	2.11	0.66
2:C:1032:ASN:O	2:C:1042:ARG:NH2	2.29	0.66
2:C:1231:ARG:HG2	2:C:1250:VAL:HG13	1.78	0.66
4:M:666:ASP:O	4:M:669:SER:OG	2.13	0.66
5:O:340:ASN:ND2	5:O:342:THR:OG1	2.26	0.66
5:O:1258:PRO:HB2	5:O:1260:ASP:OD1	1.95	0.66
6:X:120:ARG:O	6:X:124:GLU:N	2.24	0.66
1:B:317:ASP:OD1	1:B:371:TYR:OH	2.12	0.66
2:C:262:LEU:HB3	2:C:264:THR:HG22	1.78	0.66
2:C:350:ASN:HB3	2:C:353:MET:HG2	1.78	0.66
2:C:362:LEU:O	2:C:366:VAL:HG23	1.96	0.66
2:C:1185:SER:OG	2:C:1213:ASN:ND2	2.28	0.66
3:D:25:LEU:HA	3:D:28:HIS:HB2	1.76	0.66
3:D:81:ARG:NH1	3:D:88:ASP:OD1	2.29	0.66
3:D:399:ASN:HD22	3:D:402:TRP:CD1	2.12	0.66
4:K:284:LYS:HD3	4:M:294:THR:HG21	1.77	0.66
4:K:369:ASN:OD1	4:K:370:LEU:N	2.27	0.66
4:L:385:LYS:HE3	4:L:491:ALA:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:59:LEU:HD12	5:O:60:PHE:H	1.61	0.66
5:O:1197:TYR:CD2	5:O:1211:GLN:HG3	2.30	0.66
1:B:327:PRO:HG2	1:B:1148:LEU:HD12	1.78	0.66
1:B:1001:TYR:CZ	1:B:1009:PHE:HB3	2.31	0.66
2:C:707:GLU:O	2:C:711:ARG:HB3	1.96	0.66
2:C:968:TRP:O	2:C:972:SER:OG	2.13	0.66
4:K:51:ILE:O	5:O:374:GLN:NE2	2.29	0.66
4:K:455:GLU:OE1	4:K:458:ASN:ND2	2.20	0.66
5:O:20:THR:N	5:O:276:VAL:O	2.29	0.66
5:O:1145:ILE:HB	5:O:1181:LEU:HB3	1.78	0.66
6:X:171:ASN:HA	6:X:174:ILE:HG12	1.78	0.66
1:B:440:MET:H	2:C:862:LEU:H	1.44	0.66
2:C:1209:LEU:HG	2:C:1225:LYS:HG2	1.78	0.66
4:K:336:MET:HA	4:K:366:ARG:HA	1.76	0.66
4:L:273:SER:HB3	4:L:276:ALA:HB3	1.77	0.66
4:L:362:ARG:HD2	4:L:486:PRO:HA	1.77	0.66
5:O:1091:MET:N	5:O:1091:MET:SD	2.69	0.66
3:D:123:ARG:HH11	3:D:125:TYR:HH	1.43	0.66
4:K:246:GLY:O	4:K:248:GLN:NE2	2.26	0.66
4:K:583:VAL:HG23	6:X:68:LEU:HD23	1.77	0.66
4:L:360:ASN:OD1	4:L:361:LEU:N	2.29	0.66
5:O:611:SER:HG	5:O:657:GLY:H	1.43	0.66
5:O:1142:ASP:OD1	5:O:1184:ASN:ND2	2.28	0.66
3:P:183:PHE:O	3:P:185:HIS:ND1	2.28	0.66
6:Y:227:GLU:HA	6:Y:230:HIS:CG	2.31	0.66
6:Z:96:LYS:HG2	6:Z:282:MET:HE1	1.76	0.66
1:B:1031:PHE:HE1	1:B:1038:PHE:CD2	2.14	0.66
1:B:1077:PHE:HZ	1:B:1108:TRP:HB3	1.60	0.66
1:B:1106:GLY:H	1:B:1135:LEU:HA	1.61	0.66
2:C:1115:TRP:HA	2:C:1122:PHE:CE1	2.31	0.66
3:D:238:TYR:HE1	3:D:240:GLN:HE21	1.43	0.66
4:M:272:PRO:HG3	4:M:278:PRO:HD3	1.77	0.66
4:M:625:ILE:O	4:M:629:GLN:NE2	2.28	0.66
5:O:1151:TYR:HD2	5:O:1202:GLN:HE22	1.43	0.66
6:Z:35:THR:HG22	6:Z:152:PRO:HB3	1.77	0.66
1:B:984:LEU:HA	1:B:987:LEU:HD13	1.78	0.65
1:B:1044:ASP:N	1:B:1202:THR:OG1	2.19	0.65
1:B:1107:ASN:C	1:B:1108:TRP:HD1	2.03	0.65
2:C:458:THR:HA	2:C:461:ILE:HD12	1.78	0.65
2:C:681:PRO:HA	2:C:684:TRP:CE2	2.31	0.65
2:C:1085:PHE:HA	2:C:1092:PRO:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:258:MET:SD	4:M:258:MET:N	2.69	0.65
6:X:74:ASN:OD1	6:X:75:GLN:N	2.29	0.65
2:C:868:ASN:OD1	2:C:870:THR:N	2.29	0.65
2:C:983:LEU:H	2:C:985:GLU:HG3	1.60	0.65
3:D:9:LYS:NZ	3:D:154:ASN:O	2.24	0.65
4:K:298:PRO:HA	4:K:301:ILE:HG12	1.78	0.65
4:M:154:GLN:O	4:M:158:ASN:ND2	2.30	0.65
6:X:227:GLU:O	6:X:231:ASP:N	2.29	0.65
6:Y:122:ARG:NH2	6:Y:236:ARG:HH21	1.93	0.65
1:B:347:ARG:NH2	1:B:1177:SER:OG	2.30	0.65
1:B:1106:GLY:O	1:B:1136:ARG:N	2.28	0.65
2:C:472:MET:O	2:C:507:TYR:N	2.27	0.65
2:C:851:ARG:O	2:C:995:THR:N	2.29	0.65
4:M:265:VAL:O	4:M:268:SER:OG	2.14	0.65
4:M:540:ILE:HD12	4:M:608:SER:HA	1.77	0.65
3:P:137:PRO:HD2	3:P:138:ARG:HH11	1.61	0.65
1:B:436:ARG:HA	1:B:448:VAL:HA	1.78	0.65
3:D:14:GLY:O	3:D:395:LYS:NZ	2.28	0.65
3:D:331:GLN:NE2	3:D:333:ARG:H	1.93	0.65
4:K:572:LEU:O	4:K:575:SER:OG	2.12	0.65
6:Z:182:ASN:HD21	6:Z:362:MET:N	1.94	0.65
1:B:1033:HIS:O	1:B:1207:ARG:NH2	2.29	0.65
1:B:1186:SER:OG	1:B:1187:ASP:N	2.26	0.65
2:C:839:ASP:HB3	2:C:842:ARG:HE	1.61	0.65
3:D:191:ALA:HA	3:D:194:LEU:HD12	1.77	0.65
3:D:235:ARG:N	3:D:260:SER:OG	2.29	0.65
3:D:275:THR:HG23	3:D:329:GLY:HA3	1.78	0.65
4:M:567:PRO:HB2	4:M:626:ALA:HB1	1.79	0.65
1:B:558:ASN:OD1	1:B:559:THR:N	2.30	0.65
1:B:717:SER:N	1:B:743:ILE:O	2.30	0.65
1:B:759:ASN:O	1:B:763:ASN:N	2.26	0.65
2:C:646:VAL:HG21	2:C:684:TRP:CD2	2.32	0.65
2:C:1245:ILE:HG13	2:C:1247:LEU:HG	1.78	0.65
3:D:386:ASN:OD1	3:D:388:ASN:ND2	2.30	0.65
4:K:582:GLY:O	6:X:70:HIS:ND1	2.28	0.65
4:M:506:LYS:HB2	6:Y:312:ARG:HH12	1.62	0.65
5:O:51:THR:OG1	5:O:53:ASN:OD1	2.14	0.65
5:O:814:GLU:HG2	5:O:984:LEU:HD12	1.78	0.65
5:O:1130:TRP:HA	5:O:1143:VAL:HG13	1.77	0.65
3:P:354:GLN:HA	3:P:357:ILE:HD12	1.77	0.65
4:M:513:VAL:HG12	4:M:514:VAL:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:85:PHE:O	5:O:89:LYS:HG3	1.96	0.65
5:O:611:SER:OG	5:O:657:GLY:N	2.30	0.65
5:O:1235:MET:SD	5:O:1236:ARG:NH1	2.66	0.65
6:Y:326:ARG:HA	6:Y:329:GLN:HG2	1.79	0.65
4:L:409:PRO:HB2	4:L:412:LEU:HG	1.79	0.65
4:L:426:ASN:HA	6:Y:61:LEU:HD11	1.79	0.65
4:M:145:ASP:HB3	4:M:159:PHE:CE1	2.32	0.65
4:M:567:PRO:HD2	4:M:568:ILE:HD12	1.77	0.65
5:O:223:HIS:HE1	5:O:278:ARG:HE	1.44	0.65
6:X:60:SER:HB3	6:X:63:ARG:HH21	1.62	0.65
1:B:649:PHE:CZ	1:B:702:LEU:HB2	2.32	0.65
1:B:807:THR:O	1:B:810:TYR:HB3	1.97	0.65
1:B:1036:ASN:OD1	1:B:1207:ARG:NH2	2.28	0.65
3:D:186:THR:HA	3:D:252:ILE:HA	1.78	0.65
4:L:350:THR:HA	4:L:356:ASN:HA	1.78	0.65
3:P:7:LEU:N	3:P:144:TYR:OH	2.28	0.65
1:B:656:MET:HB3	1:B:659:PHE:HD1	1.62	0.65
1:B:1051:GLN:HG3	1:B:1196:VAL:HG22	1.77	0.65
2:C:601:ASN:N	2:C:832:GLN:HG2	2.12	0.65
4:L:168:PRO:O	4:L:172:THR:OG1	2.13	0.65
4:L:662:GLN:NE2	4:L:666:ASP:OD1	2.29	0.65
5:O:371:ARG:HH12	5:O:375:LEU:HB2	1.62	0.65
1:B:394:LEU:HB3	1:B:399:ALA:HB2	1.78	0.64
1:B:400:GLU:HA	1:B:403:TYR:CD1	2.32	0.64
1:B:1147:MET:N	1:B:1178:VAL:O	2.30	0.64
2:C:373:ASN:HB3	2:C:1259:ARG:NE	2.12	0.64
2:C:1020:ILE:O	2:C:1024:VAL:HG23	1.97	0.64
2:C:1035:TYR:HA	2:C:1038:PHE:CD2	2.32	0.64
4:K:144:VAL:HG12	4:K:145:ASP:H	1.63	0.64
4:K:629:GLN:HE21	4:L:200:PRO:HB2	1.61	0.64
4:M:55:THR:HG22	4:M:156:LEU:HD21	1.78	0.64
4:M:229:ILE:HA	4:M:232:TYR:HB2	1.78	0.64
5:O:13:LEU:HD12	5:O:358:PRO:HD2	1.79	0.64
6:Y:33:ASP:OD2	6:Y:34:LYS:N	2.30	0.64
4:K:321:TYR:HB2	4:K:493:LEU:HD11	1.78	0.64
4:K:397:LYS:O	4:K:430:LEU:N	2.28	0.64
4:M:461:ASP:HB2	4:M:464:MET:HE3	1.80	0.64
5:O:192:LEU:HB2	5:O:195:TYR:HD2	1.63	0.64
5:O:993:LEU:O	5:O:997:GLU:N	2.26	0.64
3:P:172:SER:O	3:P:176:ASN:ND2	2.30	0.64
6:X:158:ASP:OD2	6:X:162:LYS:NZ	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:8:GLY:HA2	6:Y:11:ILE:HD12	1.79	0.64
6:Y:179:LEU:HB2	6:Y:363:ILE:HG12	1.79	0.64
1:B:266:PHE:HB3	1:B:304:ILE:HD11	1.77	0.64
1:B:746:GLN:NE2	5:O:155:GLN:OE1	2.28	0.64
1:B:1045:ILE:HG22	1:B:1201:SER:HA	1.79	0.64
1:B:1260:TYR:HB3	1:B:1262:TYR:HD2	1.61	0.64
4:K:232:TYR:HA	4:K:234:LYS:HZ3	1.63	0.64
4:K:339:LYS:HA	4:K:364:GLY:HA3	1.79	0.64
4:L:25:GLU:OE1	4:L:25:GLU:N	2.31	0.64
4:L:143:TYR:O	4:L:162:GLN:NE2	2.30	0.64
4:L:664:PHE:CD2	4:L:665:LEU:HD22	2.32	0.64
6:Y:109:MET:HG2	6:Y:131:LEU:HD11	1.79	0.64
1:B:411:MET:HE1	1:B:419:ILE:HG12	1.79	0.64
2:C:475:ASN:OD1	2:C:478:GLU:N	2.30	0.64
2:C:577:ILE:HD13	2:C:627:TRP:HB3	1.80	0.64
2:C:749:ASN:OD1	2:C:750:VAL:N	2.31	0.64
4:K:581:TYR:O	6:X:71:HIS:N	2.27	0.64
4:M:383:GLY:HA2	4:M:443:ILE:HB	1.80	0.64
5:O:884:ASP:O	5:O:920:ASN:N	2.29	0.64
6:Z:131:LEU:HB3	6:Z:361:PRO:HG2	1.78	0.64
1:B:1151:TYR:CE2	1:B:1181:MET:HG3	2.33	0.64
4:L:382:LEU:HD12	4:L:385:LYS:HE2	1.79	0.64
4:L:398:LYS:HE3	4:L:473:ILE:HD11	1.80	0.64
5:O:45:PRO:HA	5:O:57:VAL:HG22	1.77	0.64
5:O:432:GLY:HA3	5:O:478:ILE:HB	1.78	0.64
5:O:595:VAL:HA	5:O:598:LEU:HG	1.78	0.64
5:O:783:GLN:CD	5:O:785:ARG:HE	2.05	0.64
3:P:229:HIS:N	3:P:232:ASN:O	2.22	0.64
2:C:649:PHE:HE2	2:C:706:ALA:HB2	1.62	0.64
2:C:869:THR:HG23	2:C:870:THR:HG23	1.78	0.64
3:D:190:ILE:O	3:D:194:LEU:HG	1.97	0.64
4:K:218:LEU:HD22	4:K:668:VAL:HG21	1.79	0.64
5:O:617:ASN:HA	5:O:651:LEU:HD13	1.79	0.64
6:X:47:GLY:HA3	6:X:61:LEU:HD23	1.80	0.64
6:Y:263:PRO:HB3	6:Y:267:LYS:C	2.23	0.64
1:B:307:HIS:HD1	1:B:310:TRP:CD1	2.16	0.64
1:B:432:GLY:O	1:B:451:PHE:N	2.31	0.64
1:B:472:MET:O	1:B:507:TYR:N	2.30	0.64
1:B:482:ALA:HB2	1:B:726:VAL:HG11	1.78	0.64
2:C:598:TRP:O	2:C:832:GLN:NE2	2.31	0.64
3:D:8:PHE:CE1	3:D:125:TYR:HB2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:279:LEU:HD23	4:K:279:LEU:H	1.63	0.64
4:L:104:THR:HG23	4:L:107:ALA:H	1.63	0.64
4:L:404:PHE:HE2	4:L:419:ILE:HB	1.61	0.64
4:M:137:TYR:HA	4:M:140:LEU:HD13	1.78	0.64
4:M:147:TYR:CE1	4:M:159:PHE:HB2	2.33	0.64
5:O:240:GLN:OE1	5:O:250:ASN:ND2	2.31	0.64
5:O:515:PHE:CZ	5:O:550:PHE:HB2	2.32	0.64
5:O:736:ASN:ND2	5:O:838:GLU:OE2	2.30	0.64
5:O:768:ARG:HH22	5:O:840:ILE:HG13	1.62	0.64
6:X:119:ASP:O	6:X:123:THR:OG1	2.14	0.64
6:Z:4:CYS:SG	6:Z:5:LEU:N	2.67	0.64
6:Z:259:ARG:N	6:Z:272:PHE:O	2.31	0.64
1:B:1044:ASP:OD1	1:B:1142:GLY:N	2.26	0.64
1:B:1171:THR:HG23	1:B:1174:SER:HB3	1.80	0.64
2:C:533:GLN:O	2:C:537:GLN:HG2	1.97	0.64
4:K:404:PHE:O	4:K:466:TYR:HA	1.97	0.64
5:O:1154:MET:HB2	5:O:1201:VAL:HG21	1.79	0.64
5:O:1264:LEU:HD21	5:O:1278:ILE:HG13	1.80	0.64
6:Z:11:ILE:O	6:Z:15:ILE:HG12	1.98	0.64
1:B:860:PRO:HD3	3:P:97:SER:HB3	1.79	0.64
2:C:318:ARG:NH2	2:C:370:LEU:H	1.96	0.64
2:C:603:VAL:HG23	2:C:604:VAL:HG23	1.80	0.64
4:L:368:VAL:HG21	4:L:468:LEU:HD23	1.79	0.64
4:L:631:VAL:HG13	4:L:632:LYS:H	1.63	0.64
4:M:220:ASP:OD1	4:M:230:ARG:NH1	2.31	0.64
5:O:271:ARG:NE	5:O:274:GLN:OE1	2.31	0.64
3:P:399:ASN:HA	3:P:402:TRP:CD1	2.33	0.64
6:X:302:VAL:HA	6:X:305:ALA:HB3	1.80	0.64
6:Y:17:ASN:O	6:Y:21:GLY:N	2.31	0.64
6:Z:99:MET:O	6:Z:103:VAL:HG23	1.97	0.64
1:B:290:TYR:CZ	2:C:1120:ARG:HB3	2.32	0.64
1:B:558:ASN:O	1:B:561:SER:OG	2.15	0.64
2:C:318:ARG:HH21	2:C:370:LEU:H	1.46	0.64
2:C:473:ASN:ND2	2:C:503:ARG:O	2.30	0.64
2:C:880:ARG:O	2:C:883:THR:OG1	2.16	0.64
3:D:16:LEU:HB2	3:D:20:PRO:HG3	1.80	0.64
3:D:316:ILE:H	3:D:320:THR:HB	1.61	0.64
3:D:360:LEU:O	3:D:364:THR:HG23	1.98	0.64
4:K:64:ARG:NH2	4:K:70:ASP:OD2	2.31	0.64
4:K:370:LEU:HG	4:K:467:TYR:HA	1.79	0.64
4:M:592:LEU:HA	4:M:595:ILE:HD12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:381:ASP:HB2	1:B:388:GLY:HA2	1.80	0.63
1:B:931:LEU:HD13	1:B:934:LEU:HD12	1.80	0.63
1:B:1084:SER:HB2	1:B:1093:MET:H	1.63	0.63
2:C:473:ASN:OD1	2:C:505:MET:N	2.26	0.63
2:C:502:ASN:N	2:C:1263:GLU:OE1	2.31	0.63
2:C:707:GLU:HB3	2:C:711:ARG:NH2	2.12	0.63
3:D:130:TYR:HE2	3:D:132:PHE:HB2	1.59	0.63
4:M:167:THR:HG22	4:M:170:ARG:H	1.63	0.63
4:M:179:GLN:O	4:M:183:LYS:HG3	1.99	0.63
4:M:581:TYR:CG	6:Y:73:CYS:HB3	2.33	0.63
3:P:240:GLN:H	3:P:252:ILE:H	1.44	0.63
6:X:97:ARG:NH2	6:X:154:GLN:O	2.30	0.63
1:B:434:PHE:N	1:B:449:ASP:O	2.30	0.63
2:C:340:ASN:O	2:C:343:THR:OG1	2.16	0.63
2:C:589:SER:OG	2:C:590:SER:N	2.31	0.63
2:C:767:ARG:O	2:C:771:LEU:HG	1.98	0.63
2:C:852:GLN:HA	2:C:995:THR:H	1.64	0.63
3:D:230:GLN:HE21	3:D:240:GLN:HE21	1.45	0.63
4:M:198:LEU:HD21	4:M:223:LEU:HD21	1.79	0.63
4:M:389:GLU:HB3	4:M:392:TRP:HB3	1.80	0.63
5:O:271:ARG:HG2	5:O:273:ALA:H	1.63	0.63
5:O:707:GLU:OE2	5:O:758:ARG:HG2	1.97	0.63
6:X:207:SER:OG	6:X:209:THR:O	2.16	0.63
2:C:261:GLY:HA3	2:C:312:SER:HA	1.80	0.63
2:C:307:HIS:HD2	2:C:310:TRP:HB3	1.62	0.63
2:C:451:PHE:HB3	2:C:1254:TYR:CE2	2.33	0.63
2:C:1067:PHE:CE1	2:C:1136:ARG:HB3	2.32	0.63
4:K:133:VAL:HG22	4:L:153:ARG:HH11	1.62	0.63
4:K:243:ARG:HH22	4:K:261:ALA:HA	1.63	0.63
4:L:49:ILE:O	4:L:64:ARG:N	2.30	0.63
5:O:227:PRO:HG2	5:O:230:GLY:H	1.63	0.63
6:Y:295:VAL:HG23	6:Y:324:TYR:HE1	1.64	0.63
1:B:999:ILE:N	1:B:1010:ASN:OD1	2.31	0.63
1:B:1101:MET:SD	1:B:1101:MET:N	2.71	0.63
2:C:643:CYS:HG	2:C:684:TRP:NE1	1.96	0.63
2:C:1171:THR:HG1	2:C:1173:THR:HG1	1.43	0.63
5:O:622:PRO:HA	5:O:625:HIS:HB3	1.80	0.63
3:P:222:LEU:O	3:P:227:VAL:N	2.28	0.63
1:B:705:TRP:CZ3	1:B:771:LEU:HD13	2.34	0.63
2:C:574:ALA:O	2:C:578:LEU:HG	1.97	0.63
2:C:906:TYR:HB3	2:C:907:PRO:HD3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1158:ASN:HD21	2:C:1160:TRP:HB2	1.63	0.63
3:D:210:ALA:O	3:D:213:THR:N	2.30	0.63
4:K:358:HIS:CD2	4:K:477:ALA:HA	2.33	0.63
5:O:323:THR:O	5:O:326:TRP:HB3	1.99	0.63
5:O:886:VAL:HB	5:O:922:VAL:HA	1.79	0.63
5:O:1074:PRO:HB2	5:O:1092:VAL:HG13	1.80	0.63
3:P:282:ASP:OD1	3:P:283:VAL:N	2.31	0.63
6:X:86:GLN:H	6:X:86:GLN:CD	2.07	0.63
1:B:680:THR:HG1	1:B:683:THR:HG23	1.63	0.63
2:C:282:ALA:HA	2:C:290:TYR:O	1.98	0.63
4:K:319:ALA:HB3	4:K:532:PRO:HG3	1.80	0.63
4:L:523:THR:H	4:L:526:SER:HG	1.47	0.63
3:P:85:ARG:NE	3:P:86:TRP:H	1.94	0.63
6:X:27:SER:N	6:X:31:GLY:O	2.30	0.63
6:X:327:THR:HG23	6:X:330:GLN:HE21	1.63	0.63
6:Z:27:SER:N	6:Z:31:GLY:O	2.32	0.63
1:B:844:PRO:HA	1:B:1003:GLN:HA	1.80	0.63
2:C:902:ALA:HA	2:C:905:ILE:HG22	1.79	0.63
4:L:101:VAL:HG13	4:L:166:ILE:HG13	1.80	0.63
4:L:654:SER:HA	4:L:657:ILE:HD12	1.79	0.63
5:O:130:TYR:HA	5:O:133:LEU:HD21	1.81	0.63
5:O:686:THR:HA	5:O:689:ARG:HG3	1.80	0.63
5:O:906:ALA:O	5:O:910:LEU:HG	1.99	0.63
5:O:988:LEU:HD13	5:O:990:TRP:HE1	1.63	0.63
3:P:353:GLN:O	3:P:357:ILE:HG13	1.98	0.63
1:B:537:GLN:O	1:B:541:VAL:HG23	1.99	0.63
1:B:849:VAL:HG13	1:B:999:ILE:HG13	1.81	0.63
2:C:850:THR:O	2:C:997:LEU:HA	1.99	0.63
2:C:1062:PRO:HB2	2:C:1065:LEU:HG	1.80	0.63
4:K:122:ARG:HH11	4:L:151:SER:HB2	1.63	0.63
4:K:398:LYS:HB3	4:K:473:ILE:HG13	1.81	0.63
4:L:623:ASN:O	4:L:627:LEU:HG	1.99	0.63
4:M:571:GLN:HA	4:M:574:ILE:HG12	1.80	0.63
3:P:230:GLN:O	3:P:256:SER:OG	2.13	0.63
1:B:427:VAL:HG22	1:B:428:ARG:H	1.64	0.63
2:C:324:MET:HA	2:C:334:LEU:HD11	1.81	0.63
2:C:418:LYS:NZ	2:C:1225:LYS:O	2.32	0.63
4:K:284:LYS:HZ3	4:M:291:ASP:HA	1.63	0.63
4:K:645:LYS:HE2	4:M:308:PRO:HG2	1.80	0.63
4:L:248:GLN:HB3	4:L:257:VAL:HG12	1.81	0.63
1:B:468:ARG:HA	1:B:471:ARG:HG2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:599:LEU:O	1:B:832:GLN:NE2	2.32	0.62
1:B:681:PRO:HA	1:B:684:TRP:CD2	2.33	0.62
2:C:591:PHE:CE2	2:C:595:LEU:HD11	2.34	0.62
3:D:281:MET:HE1	3:D:368:LYS:HB2	1.80	0.62
4:K:288:GLN:HE22	4:K:552:ILE:HG12	1.64	0.62
4:K:375:PRO:HA	4:K:452:TYR:CD2	2.33	0.62
5:O:206:VAL:HA	5:O:209:ARG:HD2	1.81	0.62
5:O:422:LEU:O	5:O:698:ASP:N	2.31	0.62
5:O:637:SER:H	5:O:656:PHE:HB2	1.64	0.62
5:O:1073:ILE:HB	5:O:1076:VAL:HG22	1.80	0.62
3:P:242:ASN:HD22	3:P:244:ARG:NH2	1.97	0.62
6:Z:6:PRO:HD3	6:Z:56:GLY:HA2	1.81	0.62
4:M:405:GLN:O	4:M:407:LYS:NZ	2.28	0.62
6:Y:167:TRP:HZ2	6:Y:259:ARG:HB3	1.62	0.62
1:B:787:GLN:OE1	1:B:787:GLN:N	2.32	0.62
1:B:930:THR:O	1:B:933:THR:OG1	2.17	0.62
2:C:883:THR:HA	2:C:886:LEU:HD12	1.82	0.62
3:D:331:GLN:HE22	3:D:333:ARG:H	1.47	0.62
3:D:369:ARG:HH21	3:D:402:TRP:CG	2.17	0.62
4:L:292:LEU:HD11	4:L:545:LYS:HB2	1.81	0.62
4:L:506:LYS:HZ1	6:Z:313:TYR:C	2.06	0.62
4:L:565:SER:HA	4:L:568:ILE:HD13	1.82	0.62
4:L:584:ARG:HB3	6:Z:70:HIS:CG	2.34	0.62
4:M:284:LYS:HZ3	4:M:287:GLU:HB2	1.63	0.62
5:O:15:SER:HB3	5:O:311:GLY:HA3	1.82	0.62
5:O:303:VAL:O	5:O:307:LEU:HG	1.99	0.62
6:X:82:TYR:HD2	6:X:86:GLN:HE22	1.47	0.62
6:X:251:HIS:CD2	6:X:254:LEU:HG	2.31	0.62
6:Y:165:GLN:O	6:Y:165:GLN:NE2	2.32	0.62
6:Y:331:ALA:O	6:Y:333:ILE:N	2.32	0.62
1:B:1230:GLU:OE1	1:B:1230:GLU:N	2.32	0.62
2:C:520:ILE:O	2:C:524:ASN:HB2	2.00	0.62
2:C:791:SER:OG	2:C:794:ARG:NH2	2.32	0.62
3:D:244:ARG:HB3	3:D:357:ILE:HG21	1.80	0.62
4:K:266:ALA:HA	4:K:269:ALA:HB3	1.82	0.62
4:K:567:PRO:HG2	4:K:568:ILE:HD12	1.81	0.62
4:L:137:TYR:HD1	4:L:140:LEU:HD12	1.64	0.62
4:L:405:GLN:HE22	4:L:422:ALA:HA	1.62	0.62
4:M:362:ARG:O	4:M:365:THR:OG1	2.16	0.62
6:X:43:MET:HB2	6:X:52:MET:HE3	1.80	0.62
6:Y:175:ASP:OD2	6:Y:251:HIS:ND1	2.21	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:440:MET:HA	2:C:862:LEU:HB2	1.81	0.62
1:B:1109:ILE:HG23	1:B:1138:ARG:HE	1.64	0.62
1:B:1158:ASN:OD1	1:B:1159:ALA:N	2.30	0.62
2:C:847:VAL:HG13	2:C:871:VAL:HG13	1.80	0.62
2:C:1080:ASP:OD1	2:C:1082:ARG:NH1	2.31	0.62
3:D:29:LEU:HB2	3:D:30:LEU:HD12	1.80	0.62
4:K:405:GLN:HB2	4:K:421:GLN:HG2	1.80	0.62
4:M:19:VAL:O	4:M:248:GLN:N	2.21	0.62
4:M:369:ASN:HA	4:M:467:TYR:HD2	1.64	0.62
5:O:1137:THR:OG1	5:O:1140:GLY:N	2.33	0.62
3:P:22:ASN:ND2	3:P:389:SER:OG	2.33	0.62
6:Y:94:HIS:HA	6:Y:97:ARG:HH11	1.63	0.62
6:Y:243:VAL:HA	6:Y:349:PHE:HB2	1.80	0.62
1:B:1045:ILE:HG13	1:B:1139:ILE:HG23	1.82	0.62
2:C:589:SER:O	2:C:592:ARG:N	2.33	0.62
2:C:649:PHE:CE2	2:C:705:TRP:HD1	2.17	0.62
2:C:935:VAL:O	2:C:939:SER:OG	2.14	0.62
4:L:569:GLN:HA	4:L:572:LEU:HD12	1.82	0.62
4:M:653:SER:O	4:M:656:SER:OG	2.14	0.62
6:X:142:PHE:HE2	6:X:266:GLY:HA2	1.65	0.62
6:Y:281:LYS:HG2	6:Y:283:TYR:CZ	2.34	0.62
1:B:1188:HIS:HA	1:B:1220:ILE:HD12	1.82	0.62
2:C:1149:HIS:O	2:C:1182:VAL:N	2.28	0.62
3:D:7:LEU:HD12	3:D:8:PHE:H	1.65	0.62
3:D:273:MET:N	3:D:328:HIS:O	2.32	0.62
4:K:445:THR:OG1	4:L:327:LYS:NZ	2.32	0.62
4:K:631:VAL:O	4:K:635:LEU:HG	1.99	0.62
4:L:172:THR:HB	4:L:173:MET:HE2	1.82	0.62
4:L:426:ASN:ND2	4:L:449:ALA:O	2.31	0.62
4:M:22:PRO:HB3	4:M:202:ASN:HA	1.81	0.62
4:M:23:SER:N	4:M:26:THR:OG1	2.32	0.62
5:O:329:SER:O	5:O:332:SER:OG	2.10	0.62
6:X:120:ARG:NH1	6:X:125:GLY:O	2.28	0.62
6:X:295:VAL:O	6:X:299:VAL:HG23	2.00	0.62
6:Y:182:ASN:OD1	6:Y:183:PHE:HD1	1.83	0.62
6:Z:149:TRP:CD1	6:Z:149:TRP:H	2.16	0.62
1:B:592:ARG:HA	1:B:595:LEU:HD12	1.82	0.62
1:B:1127:ASP:N	1:B:1127:ASP:OD1	2.32	0.62
2:C:269:VAL:N	2:C:303:ARG:O	2.25	0.62
2:C:358:VAL:HA	2:C:361:MET:HE3	1.81	0.62
2:C:764:TRP:O	2:C:768:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1015:MET:HE3	2:C:1016:PRO:HD2	1.80	0.62
3:D:66:TYR:O	3:D:69:SER:OG	2.14	0.62
4:K:34:LEU:HD13	4:M:279:LEU:HD21	1.82	0.62
4:L:428:VAL:HG12	4:L:448:LEU:HD22	1.82	0.62
4:M:409:PRO:HB2	4:M:412:LEU:HG	1.81	0.62
5:O:220:VAL:HB	5:O:287:TRP:O	2.00	0.62
3:P:93:ARG:O	3:P:107:ALA:N	2.32	0.62
6:Y:172:LEU:HG	6:Y:252:PHE:HE2	1.65	0.62
6:Y:318:GLY:HA3	6:Y:322:GLY:HA3	1.82	0.62
1:B:476:PRO:HA	1:B:479:ILE:HD12	1.81	0.62
1:B:799:LYS:HD2	1:B:802:LEU:HD13	1.81	0.62
1:B:1109:ILE:HD12	1:B:1138:ARG:HE	1.63	0.62
3:D:353:GLN:HA	3:D:356:GLN:CD	2.24	0.62
4:L:428:VAL:HB	4:L:448:LEU:HD13	1.82	0.62
4:M:240:LEU:HD12	4:M:244:ASN:HB3	1.82	0.62
5:O:2:ALA:HB1	5:O:341:GLU:HG3	1.81	0.62
5:O:561:ASP:OD1	5:O:562:LEU:N	2.32	0.62
3:P:123:ARG:HB3	3:P:125:TYR:CZ	2.35	0.62
6:X:241:GLU:O	6:X:247:ARG:NE	2.33	0.62
6:X:262:THR:O	6:X:269:PRO:HB3	2.00	0.62
1:B:245:ALA:HA	1:B:248:LEU:HB2	1.82	0.62
1:B:406:MET:HE2	1:B:453:THR:HB	1.80	0.62
1:B:1094:ILE:N	1:B:1102:VAL:O	2.33	0.62
1:B:1201:SER:OG	1:B:1202:THR:N	2.33	0.62
2:C:407:TYR:CE1	2:C:431:VAL:HG22	2.34	0.62
2:C:557:SER:O	2:C:561:SER:N	2.33	0.62
2:C:602:GLY:H	2:C:832:GLN:HA	1.65	0.62
2:C:1110:PHE:CE2	2:C:1115:TRP:HB2	2.34	0.62
3:D:86:TRP:CD1	3:D:86:TRP:H	2.18	0.62
4:K:537:ARG:HA	4:K:540:ILE:HD12	1.81	0.62
4:K:565:SER:HA	4:K:568:ILE:HD13	1.81	0.62
4:M:154:GLN:HG2	4:M:158:ASN:ND2	2.15	0.62
4:M:530:SER:OG	4:M:531:LEU:N	2.27	0.62
5:O:1067:ASP:OD2	5:O:1070:ALA:N	2.31	0.62
6:X:52:MET:HA	6:X:55:LEU:HD22	1.82	0.62
6:Y:19:PHE:CG	6:Y:291:LYS:HE3	2.35	0.62
6:Y:99:MET:O	6:Y:103:VAL:HG23	2.00	0.62
1:B:464:ARG:NH2	1:B:1022:ASP:OD1	2.33	0.61
1:B:480:GLU:O	1:B:484:THR:HG23	1.99	0.61
1:B:984:LEU:O	1:B:988:LEU:HG	2.00	0.61
2:C:1111:PRO:HD2	2:C:1114:LEU:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1150:TYR:HA	2:C:1182:VAL:O	1.99	0.61
3:D:344:ARG:HB3	3:D:349:MET:HE3	1.82	0.61
4:K:36:LEU:HD11	4:M:280:GLU:HB3	1.81	0.61
4:K:321:TYR:OH	4:K:537:ARG:NH2	2.26	0.61
4:K:389:GLU:OE2	4:K:484:THR:OG1	2.18	0.61
4:M:405:GLN:HA	4:M:465:ASN:O	2.00	0.61
4:M:431:TYR:OH	4:M:433:GLU:OE1	2.16	0.61
5:O:372:LYS:HB2	5:O:375:LEU:HG	1.81	0.61
3:P:211:ARG:O	3:P:215:ILE:HG12	2.00	0.61
6:Z:199:GLY:O	6:Z:203:GLN:N	2.32	0.61
1:B:355:ARG:HG3	1:B:952:ILE:HB	1.81	0.61
1:B:878:ASP:OD1	1:B:880:ARG:N	2.32	0.61
3:D:110:GLN:O	3:D:114:GLN:NE2	2.34	0.61
4:K:435:SER:OG	4:K:437:PHE:O	2.19	0.61
4:L:505:VAL:HG12	4:L:506:LYS:HD2	1.83	0.61
4:M:22:PRO:O	4:M:207:GLU:HA	1.99	0.61
4:M:34:LEU:HD23	4:M:35:SER:N	2.15	0.61
5:O:371:ARG:HH22	5:O:375:LEU:HB2	1.65	0.61
6:X:18:ALA:O	6:X:21:GLY:N	2.32	0.61
6:Y:182:ASN:CG	6:Y:362:MET:H	2.08	0.61
2:C:801:LYS:HG3	2:C:802:LEU:HG	1.83	0.61
2:C:974:LYS:HD3	2:C:979:LEU:HD23	1.82	0.61
3:D:211:ARG:O	3:D:215:ILE:HG13	1.99	0.61
4:L:336:MET:HB2	4:L:366:ARG:HD3	1.80	0.61
5:O:423:ARG:HB3	5:O:697:VAL:HG22	1.81	0.61
5:O:506:LEU:C	5:O:507:ARG:HH11	2.08	0.61
5:O:760:PRO:HB2	5:O:764:ARG:HH12	1.65	0.61
5:O:770:ARG:HE	5:O:860:CYS:HA	1.65	0.61
5:O:858:SER:HA	5:O:861:TRP:HE1	1.64	0.61
5:O:948:ARG:HG2	5:O:959:PRO:HA	1.82	0.61
5:O:1032:GLY:HA3	5:O:1040:CYS:HA	1.82	0.61
3:P:161:ILE:HG13	3:P:273:MET:HB3	1.81	0.61
6:X:39:GLN:HE21	6:X:41:ASP:HA	1.64	0.61
2:C:465:TRP:CE2	2:C:469:LEU:HD11	2.36	0.61
4:K:607:PRO:O	4:K:610:ILE:N	2.31	0.61
4:L:615:ALA:HB1	4:L:618:LEU:HB2	1.82	0.61
5:O:637:SER:OG	5:O:638:TYR:N	2.31	0.61
5:O:1167:ASN:HB2	5:O:1269:SER:O	2.00	0.61
3:P:238:TYR:O	3:P:254:SER:OG	2.14	0.61
6:Y:216:LEU:N	6:Y:217:GLU:OE1	2.33	0.61
6:Z:158:ASP:OD2	6:Z:161:THR:HB	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:938:ILE:O	1:B:956:ARG:NH1	2.34	0.61
1:B:942:GLN:O	3:P:105:VAL:HB	2.00	0.61
2:C:376:THR:HG23	2:C:1259:ARG:NH1	2.16	0.61
3:D:21:ILE:HG22	3:D:22:ASN:H	1.65	0.61
3:D:94:LEU:C	3:D:104:LEU:HB3	2.26	0.61
3:D:277:PRO:HA	3:D:279:TRP:NE1	2.15	0.61
4:K:647:ALA:O	4:K:651:LEU:HG	2.00	0.61
4:L:428:VAL:HG13	4:L:430:LEU:HD21	1.81	0.61
4:M:47:PRO:HA	4:M:148:VAL:HG22	1.82	0.61
1:B:491:VAL:HG13	1:B:1275:PRO:HA	1.83	0.61
1:B:1077:PHE:CZ	1:B:1108:TRP:HB3	2.35	0.61
4:K:327:LYS:HB3	4:K:329:ASP:OD1	1.99	0.61
4:L:410:PHE:HA	4:L:413:TRP:CE2	2.36	0.61
4:L:547:ALA:HA	4:L:550:ILE:HD12	1.81	0.61
4:M:68:SER:OG	4:M:97:ASP:OD1	2.19	0.61
5:O:27:LEU:HB2	5:O:108:ASN:HA	1.83	0.61
5:O:691:LEU:HD12	5:O:692:PRO:HD2	1.82	0.61
5:O:708:THR:HB	5:O:755:THR:HG23	1.81	0.61
5:O:940:LEU:HD12	5:O:950:ARG:H	1.65	0.61
5:O:1096:ALA:O	5:O:1099:TYR:OH	2.12	0.61
6:Y:142:PHE:HB2	6:Y:265:LEU:HD12	1.80	0.61
6:Y:325:ASN:OD1	6:Y:329:GLN:NE2	2.32	0.61
1:B:401:LYS:O	1:B:404:SER:OG	2.14	0.61
1:B:773:LYS:HZ3	1:B:797:LEU:HB2	1.66	0.61
2:C:400:GLU:N	2:C:400:GLU:OE1	2.34	0.61
2:C:714:PRO:O	2:C:837:ARG:NH2	2.34	0.61
2:C:845:THR:N	2:C:1002:GLN:O	2.34	0.61
4:K:160:GLN:HG3	4:K:161:LYS:H	1.64	0.61
4:L:124:PHE:CE1	4:L:128:LEU:HD21	2.36	0.61
4:L:666:ASP:O	4:L:669:SER:OG	2.18	0.61
4:M:12:ASN:ND2	4:M:14:THR:O	2.33	0.61
5:O:203:THR:HA	5:O:231:HIS:ND1	2.15	0.61
3:P:231:GLN:O	3:P:259:HIS:ND1	2.22	0.61
6:Z:20:GLU:HG3	6:Z:22:ARG:H	1.66	0.61
1:B:513:GLU:HG2	1:B:1016:PRO:HG3	1.82	0.61
1:B:584:SER:OG	1:B:585:ASN:N	2.31	0.61
1:B:589:SER:HG	1:B:592:ARG:NH2	1.99	0.61
3:D:93:ARG:HG3	3:D:112:LEU:HD22	1.82	0.61
3:D:237:PHE:HB3	3:D:253:LEU:HD11	1.83	0.61
4:L:174:TYR:O	4:L:177:SER:OG	2.17	0.61
4:L:324:ARG:NH2	4:L:487:ASP:OD1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:445:THR:N	4:M:325:THR:O	2.33	0.61
5:O:494:TYR:HE2	5:O:541:VAL:HG22	1.64	0.61
6:Z:133:TRP:CD1	6:Z:134:LEU:HD23	2.35	0.61
1:B:731:ASN:HD21	1:B:737:GLU:H	1.48	0.61
1:B:1112:LEU:HG	1:B:1116:GLN:HE21	1.66	0.61
2:C:572:SER:O	2:C:575:SER:OG	2.13	0.61
3:D:327:LEU:HD12	3:D:328:HIS:H	1.66	0.61
4:K:408:ILE:O	4:K:413:TRP:NE1	2.32	0.61
4:K:513:VAL:HG12	4:K:514:VAL:H	1.66	0.61
4:M:51:ILE:H	4:M:63:LEU:HD22	1.64	0.61
4:M:174:TYR:O	4:M:178:ILE:HG12	2.01	0.61
5:O:88:GLU:O	5:O:92:VAL:HG23	2.00	0.61
5:O:594:LEU:O	5:O:597:SER:OG	2.08	0.61
5:O:1193:TYR:CE2	5:O:1286:LEU:HB2	2.36	0.61
6:X:185:MET:SD	6:X:188:PRO:HB3	2.41	0.61
6:Y:160:ASP:OD1	6:Y:161:THR:N	2.34	0.61
1:B:1217:PRO:HG2	2:C:1087:MET:HE2	1.81	0.61
2:C:1059:LEU:HB3	2:C:1204:TYR:HA	1.83	0.61
2:C:1125:GLN:HB2	2:C:1126:PHE:CE1	2.36	0.61
3:D:76:LEU:O	3:D:79:PRO:HD2	2.01	0.61
4:K:238:VAL:O	4:K:242:LYS:N	2.32	0.61
4:M:405:GLN:HE21	4:M:421:GLN:HB2	1.65	0.61
5:O:47:ARG:HB3	5:O:53:ASN:C	2.26	0.61
3:P:170:MET:O	3:P:175:VAL:HG11	2.00	0.61
6:Y:200:ASP:O	6:Y:203:GLN:HB3	2.00	0.61
1:B:490:TYR:O	2:C:674:ARG:NH1	2.34	0.60
1:B:790:VAL:O	1:B:794:ARG:HG3	2.01	0.60
3:D:143:VAL:O	3:D:147:LEU:HG	2.01	0.60
3:D:229:HIS:HD2	3:D:232:ASN:HB2	1.66	0.60
3:D:285:LEU:O	3:D:288:SER:OG	2.17	0.60
4:K:33:SER:OG	4:K:34:LEU:N	2.34	0.60
4:K:349:VAL:O	4:K:356:ASN:HA	2.01	0.60
4:L:105:GLU:HG2	4:L:108:ILE:HD12	1.82	0.60
4:L:189:GLU:HA	4:L:192:LEU:HG	1.82	0.60
4:M:230:ARG:HB2	4:M:231:ARG:NH1	2.16	0.60
4:M:318:PRO:HB3	4:M:496:SER:HA	1.83	0.60
5:O:6:GLY:HA3	5:O:333:GLN:O	2.00	0.60
6:X:36:ILE:HG12	6:X:152:PRO:HA	1.83	0.60
1:B:941:THR:OG1	1:B:994:MET:SD	2.59	0.60
1:B:1090:ALA:O	1:B:1092:PRO:HD3	1.99	0.60
3:D:23:ASP:OD1	3:D:24:GLU:N	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:217:LYS:HZ2	4:M:675:PRO:HD2	1.65	0.60
4:M:393:ASP:O	4:M:397:LYS:NZ	2.24	0.60
5:O:223:HIS:CE1	5:O:225:ASP:HB2	2.36	0.60
3:P:137:PRO:HA	3:P:140:LYS:HE2	1.83	0.60
6:X:297:LYS:HG3	6:X:298:LEU:HD12	1.83	0.60
1:B:373:ASN:HB2	1:B:1259:ARG:HD3	1.83	0.60
1:B:822:ILE:O	1:B:826:LEU:N	2.28	0.60
2:C:293:GLN:HE21	2:C:411:MET:HA	1.66	0.60
2:C:684:TRP:HB2	2:C:840:ARG:HH21	1.66	0.60
2:C:763:ASN:O	2:C:767:ARG:HG2	2.02	0.60
3:D:204:GLU:HG2	3:D:206:ASP:H	1.66	0.60
4:L:230:ARG:HB2	4:L:231:ARG:NH1	2.16	0.60
4:M:337:ILE:HG13	4:M:361:LEU:HD21	1.83	0.60
4:M:426:ASN:ND2	4:M:449:ALA:H	1.99	0.60
4:M:429:GLN:NE2	4:M:430:LEU:O	2.34	0.60
5:O:276:VAL:HG21	5:O:279:LEU:HD23	1.83	0.60
5:O:963:MET:O	5:O:966:LEU:HB3	2.01	0.60
5:O:1144:ASP:OD1	5:O:1182:VAL:HG13	2.01	0.60
6:X:164:ASP:O	6:X:168:THR:OG1	2.13	0.60
6:Y:179:LEU:CB	6:Y:363:ILE:HG12	2.31	0.60
1:B:408:PRO:HB2	1:B:423:VAL:HG21	1.83	0.60
1:B:946:ASP:HB3	3:P:31:ARG:HH22	1.65	0.60
1:B:985:GLU:O	1:B:989:SER:OG	2.17	0.60
1:B:1119:THR:HA	1:B:1122:PHE:HB2	1.84	0.60
4:K:190:ILE:O	4:K:194:VAL:HG23	2.00	0.60
4:K:348:GLN:HA	4:K:357:TRP:O	2.00	0.60
4:L:32:PRO:HG3	4:M:38:PRO:HB2	1.82	0.60
4:L:459:LYS:HG3	4:L:464:MET:HB2	1.83	0.60
4:M:50:ALA:HA	4:M:63:LEU:HD22	1.82	0.60
5:O:1150:TYR:HB3	5:O:1151:TYR:CE1	2.36	0.60
3:P:50:ARG:HH11	3:P:51:GLY:H	1.50	0.60
2:C:418:LYS:NZ	2:C:1212:THR:O	2.31	0.60
2:C:995:THR:HG22	2:C:996:GLN:H	1.67	0.60
4:K:113:LYS:NZ	4:L:40:MET:O	2.34	0.60
4:K:188:TRP:HE1	4:K:192:LEU:HD22	1.66	0.60
4:K:671:HIS:HE1	4:M:578:GLU:HB2	1.66	0.60
3:P:90:ARG:NE	3:P:114:GLN:O	2.34	0.60
3:P:123:ARG:HH21	3:P:125:TYR:HE2	1.50	0.60
6:Y:92:THR:O	6:Y:96:LYS:HG2	2.00	0.60
6:Z:185:MET:H	6:Z:261:THR:HA	1.66	0.60
1:B:332:ILE:HD11	1:B:347:ARG:HD2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:SER:OG	1:B:447:TRP:O	2.19	0.60
1:B:446:GLU:C	1:B:1261:ALA:HB3	2.26	0.60
1:B:858:THR:OG1	1:B:942:GLN:OE1	2.19	0.60
1:B:1111:PRO:HB2	1:B:1114:LEU:HG	1.84	0.60
3:D:219:LEU:HD23	3:D:239:PHE:HD2	1.66	0.60
4:L:137:TYR:CD1	4:L:140:LEU:HD12	2.35	0.60
4:L:334:LEU:HB3	4:L:366:ARG:HH12	1.67	0.60
5:O:393:PRO:HB2	5:O:740:SER:HB2	1.83	0.60
5:O:680:ARG:HG2	5:O:684:LEU:HD11	1.84	0.60
6:X:211:ASP:HB2	6:X:213:ARG:HE	1.67	0.60
1:B:257:THR:OG1	1:B:372:LEU:N	2.31	0.60
1:B:356:ALA:O	1:B:359:LEU:HB3	2.02	0.60
1:B:520:ILE:HA	1:B:523:MET:SD	2.41	0.60
2:C:1056:TRP:HZ3	2:C:1058:PRO:HA	1.67	0.60
4:K:336:MET:HE1	4:K:366:ARG:HH21	1.66	0.60
5:O:632:LEU:HB3	5:O:664:LEU:HB2	1.83	0.60
5:O:1156:PHE:HA	5:O:1165:ILE:HA	1.83	0.60
6:Z:21:GLY:O	6:Z:34:LYS:NZ	2.35	0.60
6:Z:39:GLN:HE22	6:Z:79:HIS:HD2	1.49	0.60
1:B:547:SER:OG	1:B:810:TYR:OH	2.12	0.60
3:D:23:ASP:O	3:D:26:SER:OG	2.13	0.60
4:L:602:ALA:O	4:L:606:ASP:N	2.31	0.60
4:M:103:VAL:HB	4:M:164:PRO:HG2	1.83	0.60
5:O:68:LEU:O	5:O:73:TYR:OH	2.10	0.60
5:O:80:ASP:N	5:O:80:ASP:OD1	2.32	0.60
3:P:230:GLN:HE21	3:P:258:ASN:HD21	1.50	0.60
6:Y:318:GLY:O	6:Y:322:GLY:N	2.28	0.60
6:Z:236:ARG:HA	6:Z:239:ARG:HB2	1.83	0.60
1:B:406:MET:HG3	1:B:453:THR:OG1	2.01	0.60
1:B:970:ASN:HA	1:B:973:MET:HE2	1.81	0.60
2:C:748:ALA:HA	2:C:813:GLN:HG2	1.84	0.60
2:C:809:MET:SD	2:C:810:TYR:N	2.75	0.60
2:C:1180:PHE:HE2	2:C:1199:ILE:HG21	1.64	0.60
3:D:171:TRP:NE1	3:D:234:TYR:OH	2.34	0.60
4:K:243:ARG:HH12	4:K:262:VAL:H	1.49	0.60
4:K:521:SER:N	4:K:611:ILE:O	2.35	0.60
4:M:20:PHE:HD1	4:M:247:ILE:HG12	1.66	0.60
5:O:421:PRO:HB3	5:O:699:ASP:HB3	1.84	0.60
5:O:680:ARG:O	5:O:684:LEU:HG	2.01	0.60
5:O:931:ASP:HB3	5:O:1015:TYR:CZ	2.37	0.60
5:O:939:TYR:C	5:O:952:PRO:HD2	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:1052:VAL:HG11	5:O:1066:GLU:OE1	2.02	0.60
5:O:1126:ILE:HG13	5:O:1146:THR:O	2.02	0.60
3:P:110:GLN:HG3	3:P:111:VAL:N	2.16	0.60
6:Y:238:TYR:HA	6:Y:241:GLU:CD	2.26	0.60
2:C:836:VAL:HG11	2:C:843:VAL:HG13	1.83	0.60
2:C:1074:VAL:HA	2:C:1107:ASN:O	2.01	0.60
4:K:396:GLY:H	4:K:430:LEU:HD23	1.66	0.60
4:K:426:ASN:ND2	6:Z:62:GLN:HG2	2.17	0.60
4:L:38:PRO:HA	4:L:41:LEU:HB2	1.84	0.60
5:O:981:TRP:HD1	5:O:1116:SER:O	1.85	0.60
5:O:1068:VAL:HA	5:O:1071:ALA:HB2	1.84	0.60
5:O:1122:PRO:HG2	5:O:1150:TYR:CG	2.37	0.60
5:O:1238:TRP:CE3	5:O:1286:LEU:HB3	2.37	0.60
6:Z:209:THR:OG1	6:Z:211:ASP:OD2	2.18	0.60
1:B:362:LEU:O	1:B:366:VAL:HG23	2.01	0.59
1:B:636:LEU:HD22	1:B:644:ALA:HB1	1.83	0.59
2:C:438:GLN:HB3	3:D:201:ARG:HE	1.65	0.59
2:C:600:TYR:CE1	2:C:830:PRO:HA	2.37	0.59
3:D:19:VAL:HG22	3:D:21:ILE:HD11	1.84	0.59
4:K:471:THR:HG22	4:K:488:VAL:HG12	1.84	0.59
4:K:522:TYR:CG	4:K:527:LEU:HG	2.36	0.59
4:M:27:SER:HA	4:M:202:ASN:HB3	1.84	0.59
5:O:389:ASP:OD1	5:O:390:THR:N	2.35	0.59
5:O:442:ASN:OD1	5:O:445:HIS:N	2.33	0.59
5:O:1155:THR:O	5:O:1165:ILE:HD12	2.02	0.59
1:B:542:LEU:HD13	1:B:545:ARG:HD3	1.83	0.59
2:C:699:ALA:O	2:C:703:ARG:N	2.31	0.59
3:D:42:PHE:HA	3:D:64:ARG:CZ	2.32	0.59
4:K:398:LYS:HG2	4:K:427:TYR:HE2	1.66	0.59
4:L:398:LYS:HB3	4:L:473:ILE:HD11	1.83	0.59
4:M:303:SER:OG	4:M:305:VAL:O	2.20	0.59
4:M:348:GLN:HB2	4:M:356:ASN:OD1	2.02	0.59
4:M:485:GLN:NE2	4:M:487:ASP:O	2.36	0.59
5:O:547:VAL:O	5:O:549:GLN:NE2	2.36	0.59
5:O:739:LYS:HB3	5:O:754:ILE:HD11	1.84	0.59
3:P:98:ALA:HB3	3:P:102:ASP:N	2.16	0.59
6:X:53:HIS:HD2	6:X:75:GLN:HE22	1.49	0.59
1:B:542:LEU:HA	1:B:545:ARG:HD3	1.85	0.59
1:B:1096:ASP:O	1:B:1099:GLY:N	2.34	0.59
2:C:646:VAL:HG11	2:C:684:TRP:CD1	2.38	0.59
2:C:897:THR:OG1	2:C:898:ASN:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:48:LEU:O	3:D:50:ARG:N	2.36	0.59
3:D:165:ARG:HA	3:D:269:SER:HA	1.84	0.59
4:K:381:ASP:O	4:K:492:LEU:HB2	2.02	0.59
4:K:389:GLU:HB2	4:K:392:TRP:HB3	1.85	0.59
4:M:18:ASN:HA	4:M:250:MET:N	2.17	0.59
4:M:435:SER:HB3	4:M:442:ILE:HB	1.84	0.59
5:O:121:GLY:HA3	5:O:156:PHE:HZ	1.67	0.59
5:O:143:ILE:HG13	5:O:144:GLY:H	1.66	0.59
5:O:426:TYR:HB2	5:O:695:GLY:H	1.67	0.59
3:P:229:HIS:CD2	3:P:231:GLN:H	2.20	0.59
6:Y:324:TYR:O	6:Y:328:MET:HG3	2.01	0.59
6:Z:236:ARG:CZ	6:Z:240:LYS:HE3	2.32	0.59
1:B:992:PRO:HD2	1:B:993:ARG:NH1	2.18	0.59
4:K:539:MET:HE2	4:K:610:ILE:HG13	1.84	0.59
4:M:367:VAL:HG21	4:M:467:TYR:HB3	1.83	0.59
5:O:642:LYS:NZ	5:O:650:GLU:OE2	2.33	0.59
3:P:21:ILE:HD11	3:P:71:LEU:HG	1.84	0.59
3:P:79:PRO:HG2	3:P:80:PHE:CE1	2.37	0.59
6:Y:44:VAL:HG22	6:Y:49:VAL:HG13	1.84	0.59
6:Y:168:THR:HA	6:Y:252:PHE:HZ	1.67	0.59
1:B:338:LEU:O	1:B:968:TRP:NE1	2.35	0.59
1:B:454:SER:H	1:B:1254:TYR:HA	1.67	0.59
1:B:501:VAL:HG13	1:B:502:ASN:H	1.68	0.59
1:B:550:GLN:HE22	1:B:552:ASP:HB2	1.65	0.59
1:B:653:ALA:O	1:B:671:GLN:NE2	2.28	0.59
1:B:1144:TYR:HD2	1:B:1145:PRO:O	1.86	0.59
2:C:332:ILE:HD11	2:C:336:LYS:HE2	1.85	0.59
2:C:470:ALA:HB3	3:D:180:MET:HG3	1.84	0.59
2:C:528:ASN:HB2	2:C:531:VAL:HG23	1.83	0.59
2:C:662:ILE:O	2:C:671:GLN:NE2	2.35	0.59
2:C:1186:SER:OG	2:C:1187:ASP:N	2.34	0.59
4:K:591:ILE:O	4:K:595:ILE:HG12	2.03	0.59
5:O:326:TRP:CE3	5:O:327:LEU:HD23	2.37	0.59
5:O:1007:ARG:O	5:O:1011:LEU:HG	2.01	0.59
3:P:96:TRP:HA	3:P:103:GLY:O	2.03	0.59
6:X:315:LEU:HB3	6:X:323:TRP:CD1	2.38	0.59
2:C:880:ARG:HG3	2:C:881:ALA:N	2.17	0.59
3:D:77:GLN:HA	3:D:80:PHE:HD1	1.68	0.59
4:K:153:ARG:HD3	4:M:134:SER:HB2	1.84	0.59
4:K:620:ASP:HB3	4:K:623:ASN:CG	2.28	0.59
4:L:28:SER:HB2	4:L:244:ASN:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:100:LEU:HB3	4:L:165:VAL:HG11	1.84	0.59
4:L:258:MET:SD	4:M:99:PRO:HD3	2.43	0.59
4:L:290:MET:O	4:L:294:THR:HG23	2.01	0.59
4:L:375:PRO:HG3	4:L:454:PRO:HD2	1.83	0.59
5:O:212:TRP:CE2	3:P:138:ARG:HD2	2.38	0.59
5:O:223:HIS:CE1	5:O:278:ARG:HH21	2.21	0.59
5:O:912:LYS:O	5:O:915:SER:OG	2.15	0.59
3:P:240:GLN:OE1	3:P:241:CYS:N	2.36	0.59
6:Z:30:GLU:HG2	6:Z:36:ILE:HB	1.84	0.59
1:B:372:LEU:HD21	1:B:465:TRP:HE1	1.67	0.59
1:B:401:LYS:O	1:B:405:ILE:HG12	2.03	0.59
1:B:1078:GLY:N	1:B:1097:GLU:OE1	2.36	0.59
4:M:334:LEU:HD21	4:M:366:ARG:HB3	1.83	0.59
5:O:297:LEU:O	5:O:301:LEU:HG	2.01	0.59
6:X:79:HIS:HA	6:X:82:TYR:CE1	2.37	0.59
6:X:196:ARG:HB2	6:X:355:PRO:CA	2.33	0.59
6:X:288:GLY:HA3	6:X:335:LEU:HD23	1.83	0.59
1:B:553:PRO:HA	1:B:556:ILE:HD13	1.83	0.59
1:B:1150:TYR:HB3	1:B:1184:ILE:HG12	1.85	0.59
2:C:394:LEU:HD22	2:C:403:TYR:CE1	2.38	0.59
2:C:606:THR:H	2:C:640:THR:HG1	1.51	0.59
2:C:685:PRO:HG2	2:C:688:PHE:HB2	1.84	0.59
2:C:747:PRO:O	2:C:813:GLN:NE2	2.36	0.59
2:C:961:THR:HG22	2:C:965:PHE:CZ	2.37	0.59
4:L:227:SER:OG	4:L:229:ILE:HG22	2.03	0.59
5:O:384:LEU:HD12	5:O:387:LEU:HD11	1.85	0.59
6:Z:78:ARG:HD3	6:Z:78:ARG:H	1.68	0.59
6:Z:211:ASP:H	6:Z:216:LEU:HD11	1.67	0.59
1:B:880:ARG:O	1:B:884:VAL:HG23	2.03	0.59
2:C:745:HIS:HA	2:C:812:GLN:O	2.03	0.59
2:C:880:ARG:O	2:C:884:VAL:HG23	2.02	0.59
3:D:407:THR:O	3:D:410:THR:OG1	2.18	0.59
4:L:299:GLU:HB2	4:M:650:LYS:HD2	1.84	0.59
5:O:62:PRO:HB3	5:O:113:VAL:HG13	1.85	0.59
5:O:113:VAL:HG12	5:O:117:ASN:HD21	1.66	0.59
5:O:743:ILE:HB	5:O:786:THR:HA	1.84	0.59
5:O:804:HIS:O	5:O:808:THR:OG1	2.16	0.59
5:O:948:ARG:HE	5:O:957:ASP:CG	2.11	0.59
3:P:279:TRP:O	3:P:282:ASP:N	2.36	0.59
6:X:332:PRO:O	6:X:336:THR:OG1	2.21	0.59
6:Z:196:ARG:HH21	6:Z:352:LEU:HB3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:353:MET:SD	1:B:353:MET:N	2.73	0.59
1:B:1096:ASP:OD1	1:B:1097:GLU:N	2.36	0.59
2:C:741:LEU:C	2:C:835:TYR:HE2	2.11	0.59
3:D:95:VAL:H	3:D:105:VAL:H	1.51	0.59
4:K:334:LEU:HD23	4:K:368:VAL:HG22	1.85	0.59
4:K:499:SER:HB2	4:K:502:GLU:CD	2.28	0.59
1:B:372:LEU:HD21	1:B:465:TRP:NE1	2.17	0.58
1:B:475:ASN:ND2	3:P:182:TYR:OH	2.36	0.58
1:B:628:ASP:O	1:B:632:LEU:HG	2.02	0.58
1:B:969:VAL:O	1:B:973:MET:HG3	2.02	0.58
2:C:1107:ASN:HA	2:C:1136:ARG:O	2.03	0.58
4:K:578:GLU:O	4:K:584:ARG:NH2	2.36	0.58
4:L:282:LYS:O	4:L:286:THR:HG23	2.02	0.58
4:M:392:TRP:HB2	4:M:482:ASN:HB3	1.84	0.58
4:M:514:VAL:HG13	4:M:517:GLU:HB2	1.84	0.58
5:O:777:PRO:O	5:O:781:GLU:N	2.27	0.58
6:X:22:ARG:HH22	6:X:96:LYS:HD3	1.68	0.58
6:X:223:TYR:HB2	6:X:225:TYR:CZ	2.37	0.58
6:X:325:ASN:HA	6:X:328:MET:HE3	1.85	0.58
6:Y:221:MET:HE3	6:Y:267:LYS:HA	1.85	0.58
1:B:454:SER:N	1:B:1253:LEU:O	2.35	0.58
1:B:540:SER:OG	1:B:592:ARG:NH2	2.28	0.58
1:B:843:VAL:O	1:B:1004:TYR:N	2.35	0.58
1:B:965:PHE:O	1:B:969:VAL:HG23	2.03	0.58
2:C:580:LYS:HD2	2:C:627:TRP:CE3	2.39	0.58
2:C:622:SER:N	2:C:625:ASN:OD1	2.34	0.58
4:K:30:ALA:HB1	4:M:639:SER:HB2	1.84	0.58
4:M:546:ILE:O	4:M:550:ILE:HG12	2.03	0.58
4:M:664:PHE:O	4:M:668:VAL:HG23	2.03	0.58
5:O:200:TYR:CG	5:O:232:HIS:HB3	2.37	0.58
5:O:1063:PHE:HB3	5:O:1072:MET:HG2	1.85	0.58
6:X:181:PRO:HA	6:X:363:ILE:HG23	1.86	0.58
1:B:441:ASN:HD21	2:C:864:LEU:HG	1.68	0.58
2:C:296:PHE:HB3	2:C:419:ILE:HD12	1.85	0.58
2:C:448:VAL:HG12	2:C:450:VAL:HG13	1.85	0.58
2:C:550:GLN:N	2:C:890:LYS:O	2.34	0.58
3:D:9:LYS:HD2	3:D:10:THR:N	2.18	0.58
3:D:95:VAL:N	3:D:104:LEU:HB3	2.18	0.58
3:D:367:PHE:O	3:D:371:LYS:HG2	2.03	0.58
4:K:428:VAL:HG23	4:K:448:LEU:HD13	1.85	0.58
4:M:12:ASN:ND2	4:M:14:THR:OG1	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:581:TYR:CD1	6:Y:73:CYS:HB3	2.38	0.58
5:O:1040:CYS:HB2	5:O:1093:PHE:CZ	2.37	0.58
6:X:222:VAL:O	6:X:356:VAL:HA	2.03	0.58
6:X:224:ASP:HB3	6:X:354:TYR:CD1	2.39	0.58
6:Z:29:GLN:HE22	6:Z:39:GLN:HB3	1.68	0.58
1:B:481:TRP:NE1	2:C:669:TYR:HH	2.01	0.58
1:B:488:GLN:NE2	1:B:905:ILE:HD13	2.18	0.58
2:C:548:PRO:O	2:C:892:PRO:HD3	2.03	0.58
2:C:595:LEU:O	2:C:598:TRP:HB2	2.03	0.58
2:C:674:ARG:HB3	2:C:676:SER:OG	2.03	0.58
2:C:1041:ALA:HB3	2:C:1144:TYR:CE2	2.38	0.58
4:K:102:VAL:HA	4:K:165:VAL:HG22	1.84	0.58
4:K:635:LEU:HA	4:K:638:LYS:HD2	1.85	0.58
4:L:356:ASN:O	4:L:475:SER:OG	2.18	0.58
5:O:253:ASP:O	5:O:257:LEU:HG	2.03	0.58
5:O:1193:TYR:CZ	5:O:1286:LEU:HB2	2.38	0.58
5:O:1236:ARG:CZ	5:O:1236:ARG:HA	2.32	0.58
6:X:288:GLY:HA2	6:X:291:LYS:HG3	1.85	0.58
6:Y:324:TYR:HD2	6:Y:328:MET:HE2	1.68	0.58
6:Z:90:ARG:HH22	6:Z:151:ASP:C	2.12	0.58
1:B:505:MET:HB2	1:B:507:TYR:HE1	1.69	0.58
2:C:457:LEU:O	2:C:460:SER:OG	2.18	0.58
3:D:80:PHE:HA	3:D:84:HIS:CD2	2.39	0.58
3:D:212:MET:O	3:D:216:ILE:HG12	2.03	0.58
4:K:282:LYS:HE2	4:K:640:LEU:HA	1.86	0.58
4:L:320:ASP:HA	4:L:493:LEU:O	2.03	0.58
4:L:410:PHE:HB2	4:L:467:TYR:CZ	2.39	0.58
4:L:581:TYR:O	6:Z:71:HIS:N	2.29	0.58
4:M:522:TYR:O	4:M:613:GLN:NE2	2.37	0.58
5:O:509:ARG:NH1	5:O:543:PRO:O	2.37	0.58
5:O:616:ILE:O	5:O:651:LEU:HB2	2.03	0.58
5:O:947:LYS:HB3	5:O:960:TYR:CE1	2.39	0.58
3:P:340:CYS:HA	3:P:343:LEU:HD12	1.85	0.58
6:X:87:PHE:O	6:X:91:VAL:HG23	2.04	0.58
6:Y:273:SER:OG	6:Y:281:LYS:N	2.37	0.58
1:B:426:CYS:O	2:C:1079:ARG:NH2	2.31	0.58
1:B:473:ASN:HA	1:B:506:PRO:HA	1.86	0.58
1:B:1041:ALA:O	1:B:1143:ALA:HA	2.02	0.58
2:C:372:LEU:HD22	2:C:374:ARG:NH2	2.18	0.58
2:C:1114:LEU:O	2:C:1117:MET:HB2	2.03	0.58
3:D:155:LEU:HB2	3:D:161:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:174:TYR:O	4:K:177:SER:OG	2.18	0.58
4:K:351:ASP:OD2	4:K:355:THR:OG1	2.21	0.58
4:K:494:THR:C	4:K:495:MET:HE2	2.27	0.58
4:K:650:LYS:HD2	4:M:299:GLU:OE2	2.03	0.58
4:L:144:VAL:O	4:L:163:VAL:HG12	2.03	0.58
4:L:631:VAL:O	4:L:634:SER:OG	2.16	0.58
3:P:110:GLN:HG3	3:P:111:VAL:HG23	1.85	0.58
6:Y:130:GLU:HG2	6:Y:360:ASP:HB3	1.86	0.58
6:Y:191:ALA:O	6:Y:195:VAL:HG21	2.03	0.58
3:D:233:THR:O	3:D:260:SER:HA	2.04	0.58
4:K:284:LYS:NZ	4:M:291:ASP:HA	2.18	0.58
4:K:582:GLY:HA2	6:X:68:LEU:HD21	1.85	0.58
4:L:621:LYS:O	4:L:625:ILE:HG13	2.03	0.58
5:O:286:ARG:NH1	5:O:286:ARG:O	2.36	0.58
6:Z:184:MET:HA	6:Z:261:THR:HA	1.85	0.58
1:B:268:ILE:HG13	1:B:303:ARG:C	2.28	0.58
1:B:1094:ILE:HG22	1:B:1102:VAL:O	2.04	0.58
2:C:696:PRO:O	2:C:700:PRO:HB3	2.03	0.58
3:D:244:ARG:NH1	3:D:249:GLU:OE2	2.35	0.58
4:K:442:ILE:HD12	4:L:325:THR:HA	1.85	0.58
4:M:370:LEU:HD12	4:M:452:TYR:CD1	2.39	0.58
3:P:26:SER:O	3:P:30:LEU:N	2.20	0.58
6:X:50:VAL:HG22	6:X:57:VAL:HA	1.86	0.58
6:Y:323:TRP:O	6:Y:327:THR:OG1	2.16	0.58
1:B:257:THR:O	1:B:372:LEU:HB2	2.03	0.58
1:B:624:GLU:HA	1:B:627:TRP:HD1	1.69	0.58
4:K:49:ILE:HB	4:K:66:MET:HB2	1.85	0.58
4:K:228:LEU:HG	4:K:231:ARG:HD3	1.85	0.58
4:K:261:ALA:H	4:L:65:ARG:HH22	1.52	0.58
4:K:371:ASP:O	4:K:372:GLN:HB2	2.02	0.58
4:K:479:THR:OG1	4:K:481:THR:OG1	2.14	0.58
4:L:20:PHE:HB3	4:L:210:CYS:SG	2.44	0.58
4:L:154:GLN:OE1	4:L:158:ASN:N	2.37	0.58
5:O:430:TRP:HA	5:O:1000:THR:HG23	1.86	0.58
5:O:456:LEU:HG	5:O:457:PRO:HD2	1.86	0.58
5:O:948:ARG:HA	5:O:959:PRO:HA	1.86	0.58
5:O:971:ARG:HH22	5:O:1028:MET:N	2.01	0.58
5:O:981:TRP:O	5:O:983:PRO:HD3	2.04	0.58
3:P:25:LEU:HA	3:P:28:HIS:NE2	2.19	0.58
6:X:184:MET:HE1	6:X:243:VAL:HG12	1.86	0.58
6:X:220:VAL:H	6:X:358:ILE:HG23	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:74:ASN:ND2	6:Y:76:GLN:HB2	2.19	0.58
6:Z:128:LEU:HB3	6:Z:363:ILE:HG23	1.85	0.58
1:B:1107:ASN:C	1:B:1108:TRP:CD1	2.81	0.58
3:D:123:ARG:NH1	3:D:125:TYR:HH	2.01	0.58
3:D:195:CYS:O	3:D:198:SER:OG	2.17	0.58
3:D:243:ARG:NH2	3:D:246:ASP:OD2	2.37	0.58
4:K:378:PHE:HZ	4:K:452:TYR:HB3	1.69	0.58
5:O:553:ASP:HA	5:O:559:ILE:HD13	1.84	0.58
5:O:611:SER:HG	5:O:657:GLY:N	2.01	0.58
5:O:620:THR:OG1	5:O:623:VAL:HG23	2.04	0.58
6:X:196:ARG:HB2	6:X:355:PRO:HA	1.85	0.58
6:X:309:GLU:HB3	6:X:313:TYR:CZ	2.38	0.58
2:C:789:LEU:HB2	2:C:793:MET:HE3	1.86	0.57
2:C:1084:SER:N	2:C:1093:MET:O	2.24	0.57
4:K:224:PRO:O	4:K:227:SER:OG	2.19	0.57
4:L:143:TYR:CE1	4:L:164:PRO:HB3	2.38	0.57
4:L:194:VAL:O	4:L:197:THR:OG1	2.18	0.57
4:L:597:SER:OG	4:L:598:ARG:N	2.36	0.57
4:M:347:ILE:HD13	4:M:416:ALA:HB1	1.85	0.57
5:O:397:LEU:O	5:O:399:GLN:NE2	2.36	0.57
5:O:590:ILE:H	5:O:590:ILE:HD12	1.69	0.57
3:P:78:ILE:HD11	3:P:91:PHE:HB2	1.86	0.57
6:X:277:THR:OG1	6:X:279:ASN:O	2.22	0.57
6:Z:15:ILE:HG22	6:Z:19:PHE:CZ	2.39	0.57
2:C:505:MET:HE1	2:C:1265:PRO:HD2	1.86	0.57
2:C:553:PRO:HB2	2:C:583:PRO:HB2	1.85	0.57
2:C:949:LEU:HD12	2:C:952:ILE:HD11	1.84	0.57
4:K:13:VAL:HG23	4:K:14:THR:HG23	1.86	0.57
4:K:378:PHE:CZ	4:K:452:TYR:HB3	2.40	0.57
4:M:174:TYR:O	4:M:177:SER:OG	2.16	0.57
5:O:8:ARG:HD3	5:O:315:ALA:CB	2.33	0.57
5:O:641:ILE:HG23	5:O:652:PHE:HB2	1.86	0.57
5:O:933:VAL:HG21	5:O:942:ILE:HG21	1.86	0.57
3:P:283:VAL:O	3:P:286:ILE:N	2.38	0.57
3:P:314:ARG:HA	3:P:320:THR:HG21	1.86	0.57
6:X:185:MET:HE3	6:X:262:THR:HA	1.85	0.57
6:Y:149:TRP:H	6:Y:149:TRP:CD1	2.22	0.57
6:Z:127:SER:HA	6:Z:364:LEU:HG	1.86	0.57
6:Z:199:GLY:HA2	6:Z:202:ARG:HH21	1.69	0.57
1:B:604:VAL:HG13	1:B:873:VAL:HG13	1.84	0.57
1:B:882:ILE:O	1:B:886:LEU:HG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1166:TRP:CZ2	1:B:1178:VAL:HG22	2.39	0.57
3:D:9:LYS:HA	3:D:124:VAL:HG12	1.86	0.57
4:K:348:GLN:HB3	4:K:356:ASN:ND2	2.18	0.57
4:K:583:VAL:C	6:X:70:HIS:HB2	2.28	0.57
4:M:282:LYS:O	4:M:286:THR:HG23	2.03	0.57
4:M:370:LEU:HA	4:M:373:ILE:HD11	1.86	0.57
5:O:80:ASP:HA	5:O:83:GLU:HG3	1.87	0.57
5:O:426:TYR:CG	5:O:694:PHE:HA	2.38	0.57
5:O:990:TRP:CE2	5:O:991:THR:HG23	2.39	0.57
5:O:1098:ILE:HG13	5:O:1117:PHE:O	2.04	0.57
5:O:1099:TYR:HB2	5:O:1117:PHE:CZ	2.39	0.57
6:X:253:GLY:HA2	6:X:275:MET:SD	2.45	0.57
1:B:381:ASP:N	1:B:389:ALA:O	2.30	0.57
1:B:1023:CYS:O	1:B:1027:THR:HG23	2.04	0.57
1:B:1110:PHE:CE1	1:B:1115:TRP:HB2	2.38	0.57
2:C:451:PHE:CE1	2:C:1256:VAL:HB	2.39	0.57
2:C:465:TRP:CH2	2:C:469:LEU:HD21	2.39	0.57
2:C:987:LEU:HG	2:C:992:PRO:HG3	1.86	0.57
3:D:279:TRP:CD1	3:D:279:TRP:H	2.20	0.57
4:K:297:GLU:HG3	4:K:300:ILE:HG22	1.85	0.57
4:K:540:ILE:HG12	4:K:608:SER:HA	1.87	0.57
4:M:212:MET:SD	4:M:212:MET:N	2.77	0.57
5:O:208:ASP:HA	5:O:211:PHE:CD2	2.39	0.57
5:O:1187:LEU:HD21	5:O:1217:LEU:HD21	1.86	0.57
1:B:946:ASP:OD2	1:B:947:ARG:N	2.38	0.57
1:B:1093:MET:HB3	1:B:1102:VAL:N	2.19	0.57
2:C:268:ILE:HG21	2:C:1210:PHE:CD2	2.38	0.57
2:C:445:SER:OG	2:C:446:GLU:N	2.36	0.57
2:C:772:MET:HE2	2:C:797:LEU:HD12	1.86	0.57
2:C:810:TYR:CD1	2:C:814:LEU:HB2	2.39	0.57
4:K:653:SER:HB2	4:M:299:GLU:HG2	1.86	0.57
4:L:187:LYS:NZ	4:L:191:ASP:OD2	2.36	0.57
4:L:518:LEU:HD12	4:L:539:MET:HE2	1.86	0.57
4:M:18:ASN:HB3	4:M:249:TRP:HE3	1.69	0.57
4:M:263:ASN:O	4:M:267:ALA:N	2.22	0.57
5:O:261:LEU:HA	5:O:264:PHE:CD2	2.39	0.57
5:O:435:LEU:HB2	5:O:644:PHE:CD2	2.38	0.57
5:O:807:LEU:HD12	5:O:810:MET:HB2	1.86	0.57
5:O:1238:TRP:CE2	5:O:1288:PRO:HB3	2.39	0.57
3:P:167:ASP:OD2	3:P:267:ASN:ND2	2.38	0.57
3:P:275:THR:HG1	3:P:331:GLN:HG3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:289:THR:O	6:X:292:LEU:HB3	2.03	0.57
6:Y:325:ASN:C	6:Y:329:GLN:HE21	2.13	0.57
6:Y:328:MET:HB2	6:Y:329:GLN:NE2	2.20	0.57
1:B:272:VAL:O	1:B:300:ALA:N	2.37	0.57
2:C:338:LEU:HD23	2:C:339:LEU:HB2	1.87	0.57
2:C:517:SER:C	2:C:521:ARG:HE	2.12	0.57
3:D:316:ILE:HB	3:D:320:THR:N	2.20	0.57
4:M:519:ILE:O	4:M:521:SER:OG	2.21	0.57
5:O:826:LEU:HD11	5:O:886:VAL:HG13	1.87	0.57
5:O:833:GLU:HG2	5:O:855:ALA:HB3	1.86	0.57
3:P:238:TYR:CE1	3:P:256:SER:HB2	2.39	0.57
3:P:273:MET:O	3:P:329:GLY:HA2	2.04	0.57
3:P:353:GLN:HA	3:P:356:GLN:HE21	1.69	0.57
6:Z:288:GLY:HA2	6:Z:291:LYS:HD2	1.86	0.57
1:B:969:VAL:O	1:B:972:SER:OG	2.17	0.57
3:D:6:PHE:HB3	3:D:127:CYS:HB2	1.87	0.57
4:K:193:ARG:O	4:K:197:THR:HG23	2.04	0.57
4:K:515:PRO:O	4:K:518:LEU:N	2.37	0.57
4:L:404:PHE:CE2	4:L:419:ILE:HB	2.40	0.57
4:M:49:ILE:HG23	4:M:64:ARG:HB3	1.85	0.57
5:O:192:LEU:HB2	5:O:195:TYR:CD2	2.39	0.57
5:O:528:LEU:O	5:O:532:PRO:HD2	2.04	0.57
3:P:3:ARG:NH2	3:P:299:SER:O	2.34	0.57
3:P:143:VAL:O	3:P:147:LEU:HG	2.04	0.57
3:P:350:THR:H	3:P:353:GLN:CD	2.13	0.57
1:B:357:ASN:HA	1:B:360:HIS:CD2	2.40	0.57
2:C:649:PHE:CE2	2:C:706:ALA:HB2	2.40	0.57
3:D:31:ARG:HD2	3:D:45:TRP:HZ2	1.69	0.57
3:D:238:TYR:CE1	3:D:240:GLN:HB2	2.40	0.57
3:D:404:ARG:HH22	3:D:406:ASN:HA	1.69	0.57
4:M:546:ILE:HD12	4:M:549:ALA:HB3	1.86	0.57
5:O:632:LEU:HD23	5:O:635:ILE:HD11	1.86	0.57
3:P:178:LEU:HB3	3:P:212:MET:CE	2.35	0.57
6:X:310:LYS:HD3	6:X:311:ILE:HD13	1.87	0.57
6:Y:309:GLU:OE1	6:Y:309:GLU:N	2.35	0.57
1:B:713:TRP:O	1:B:837:ARG:NE	2.31	0.57
1:B:809:MET:HA	1:B:812:GLN:HB2	1.87	0.57
3:D:172:SER:O	3:D:175:VAL:HB	2.05	0.57
3:D:246:ASP:N	3:D:249:GLU:OE1	2.30	0.57
3:D:330:PHE:HB2	3:D:407:THR:HG23	1.86	0.57
4:L:182:LEU:HA	4:L:185:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:35:SER:OG	4:M:110:ASN:ND2	2.38	0.57
4:M:338:PRO:HG3	4:M:411:GLU:HB3	1.85	0.57
4:M:572:LEU:O	4:M:575:SER:OG	2.20	0.57
5:O:172:TYR:CG	5:O:187:LEU:HB3	2.40	0.57
3:P:273:MET:N	3:P:328:HIS:O	2.33	0.57
6:Z:168:THR:HA	6:Z:171:ASN:ND2	2.20	0.57
1:B:355:ARG:NE	1:B:952:ILE:O	2.36	0.57
2:C:504:LEU:HB3	2:C:1264:THR:OG1	2.05	0.57
2:C:896:VAL:HB	2:C:899:VAL:HB	1.86	0.57
2:C:1005:ASN:O	3:P:235:ARG:NH1	2.38	0.57
2:C:1122:PHE:HB3	2:C:1126:PHE:CE2	2.40	0.57
4:K:436:SER:HB3	4:L:324:ARG:NH1	2.19	0.57
5:O:9:LEU:CD2	5:O:314:LEU:HA	2.34	0.57
5:O:112:ASN:ND2	5:O:146:LEU:HD11	2.19	0.57
5:O:425:ASP:O	5:O:794:LEU:N	2.31	0.57
5:O:426:TYR:OH	5:O:692:PRO:O	2.22	0.57
5:O:584:GLY:O	5:O:587:ASP:N	2.37	0.57
5:O:638:TYR:HD2	5:O:664:LEU:HD13	1.69	0.57
5:O:752:LEU:HD12	5:O:753:THR:H	1.70	0.57
3:P:151:THR:O	3:P:155:LEU:HG	2.04	0.57
6:Y:221:MET:N	6:Y:221:MET:SD	2.78	0.57
6:Z:217:GLU:O	6:Z:267:LYS:NZ	2.37	0.57
4:K:119:GLU:OE2	4:L:151:SER:N	2.37	0.56
4:K:397:LYS:HB2	4:K:472:PHE:HE2	1.69	0.56
4:K:450:TYR:CG	4:K:451:ASN:N	2.73	0.56
4:L:403:VAL:HG13	4:L:405:GLN:NE2	2.19	0.56
4:L:457:LEU:HD13	4:L:466:TYR:CD2	2.40	0.56
4:L:588:PRO:O	4:L:592:LEU:HG	2.05	0.56
4:M:441:SER:OG	4:M:442:ILE:N	2.38	0.56
4:M:660:TRP:CE2	4:M:664:PHE:HZ	2.23	0.56
5:O:464:ASP:OD1	5:O:464:ASP:N	2.38	0.56
5:O:815:VAL:O	5:O:819:VAL:N	2.38	0.56
5:O:949:TYR:CE1	5:O:960:TYR:HB3	2.40	0.56
6:Z:17:ASN:HB3	6:Z:23:VAL:HB	1.87	0.56
2:C:317:ASP:OD1	2:C:318:ARG:N	2.33	0.56
2:C:418:LYS:HZ3	2:C:1226:HIS:HA	1.70	0.56
2:C:488:GLN:HE21	2:C:821:VAL:HG12	1.70	0.56
4:K:248:GLN:HB3	4:K:250:MET:HE2	1.87	0.56
4:L:159:PHE:CE2	4:L:161:LYS:HD2	2.40	0.56
4:L:218:LEU:O	4:L:222:GLN:HG2	2.05	0.56
4:M:339:LYS:O	4:M:341:MET:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:430:TRP:O	5:O:477:LYS:N	2.38	0.56
5:O:587:ASP:O	5:O:591:SER:N	2.38	0.56
5:O:778:ARG:O	5:O:782:VAL:HG23	2.05	0.56
6:X:96:LYS:O	6:X:100:LEU:HG	2.05	0.56
6:Y:181:PRO:N	6:Y:363:ILE:HG13	2.20	0.56
6:Z:94:HIS:CE1	6:Z:153:LEU:HB3	2.40	0.56
1:B:416:VAL:HA	2:C:1082:ARG:HH21	1.69	0.56
1:B:593:VAL:HG23	1:B:594:ALA:H	1.71	0.56
1:B:635:ALA:O	1:B:639:THR:HG23	2.06	0.56
1:B:878:ASP:OD1	1:B:879:ALA:N	2.38	0.56
1:B:1003:GLN:NE2	1:B:1004:TYR:HB3	2.21	0.56
1:B:1247:LEU:N	1:B:1249:GLU:OE1	2.39	0.56
2:C:298:GLU:OE2	2:C:1214:SER:N	2.38	0.56
2:C:675:ALA:HA	2:C:678:PHE:CE2	2.39	0.56
2:C:1051:GLN:HA	2:C:1196:VAL:HG22	1.87	0.56
2:C:1149:HIS:N	2:C:1180:PHE:O	2.38	0.56
3:D:231:GLN:OE1	3:D:258:ASN:ND2	2.38	0.56
3:D:331:GLN:N	3:D:407:THR:OG1	2.37	0.56
4:K:212:MET:O	4:K:215:VAL:HB	2.06	0.56
4:K:234:LYS:O	4:K:238:VAL:HG23	2.05	0.56
4:K:244:ASN:ND2	4:K:247:ILE:HB	2.20	0.56
4:K:427:TYR:CD2	4:K:473:ILE:HD11	2.39	0.56
4:K:502:GLU:N	4:K:502:GLU:OE1	2.38	0.56
5:O:200:TYR:CE1	5:O:229:ASN:HB3	2.39	0.56
5:O:206:VAL:HA	5:O:209:ARG:HH11	1.68	0.56
5:O:271:ARG:NE	5:O:273:ALA:O	2.38	0.56
5:O:316:ARG:NH1	5:O:785:ARG:O	2.38	0.56
5:O:424:PRO:HD2	5:O:696:TYR:O	2.06	0.56
5:O:1101:MET:HB2	5:O:1114:LEU:HB2	1.86	0.56
5:O:1153:LEU:HD23	5:O:1198:ILE:HG22	1.86	0.56
5:O:1154:MET:O	5:O:1199:ARG:N	2.25	0.56
6:X:174:ILE:HA	6:X:179:LEU:HD13	1.87	0.56
6:Y:119:ASP:O	6:Y:123:THR:OG1	2.15	0.56
6:Z:41:ASP:HA	6:Z:53:HIS:CE1	2.40	0.56
6:Z:223:TYR:HA	6:Z:356:VAL:HA	1.86	0.56
1:B:257:THR:OG1	1:B:318:ARG:NH2	2.36	0.56
1:B:746:GLN:HE22	5:O:154:SER:C	2.13	0.56
2:C:473:ASN:O	2:C:508:ARG:NH2	2.38	0.56
2:C:511:ASN:HB3	2:C:730:ALA:HB2	1.88	0.56
2:C:622:SER:OG	2:C:624:GLU:OE1	2.23	0.56
2:C:1044:ASP:HA	2:C:1141:MET:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:29:THR:HG23	4:M:636:ARG:HB3	1.88	0.56
4:K:337:ILE:N	4:K:365:THR:O	2.25	0.56
5:O:208:ASP:HA	5:O:211:PHE:CE2	2.40	0.56
5:O:687:ILE:HG23	5:O:992:ARG:HD2	1.87	0.56
5:O:992:ARG:O	5:O:996:LEU:N	2.24	0.56
5:O:1227:ASP:HA	5:O:1279:VAL:O	2.06	0.56
6:X:295:VAL:HG12	6:X:298:LEU:HD22	1.87	0.56
1:B:303:ARG:HB3	1:B:1208:SER:O	2.06	0.56
1:B:580:LYS:HG3	1:B:631:ILE:HD11	1.87	0.56
1:B:987:LEU:HD12	1:B:987:LEU:H	1.71	0.56
1:B:1013:PRO:HG2	1:B:1015:MET:HE1	1.88	0.56
1:B:1042:ARG:HG2	1:B:1043:GLY:H	1.71	0.56
1:B:1052:SER:OG	1:B:1053:THR:N	2.38	0.56
1:B:1068:ASP:CG	1:B:1069:ARG:H	2.14	0.56
1:B:1069:ARG:HA	1:B:1074:VAL:HG21	1.88	0.56
2:C:446:GLU:HG3	2:C:447:TRP:HD1	1.70	0.56
3:D:151:THR:O	3:D:155:LEU:HG	2.06	0.56
4:K:370:LEU:HA	4:K:373:ILE:HD13	1.87	0.56
4:L:225:ASP:HA	4:L:230:ARG:HE	1.71	0.56
4:L:429:GLN:NE2	4:L:430:LEU:O	2.39	0.56
4:M:67:THR:OG1	4:M:97:ASP:OD1	2.22	0.56
5:O:66:LEU:HD13	5:O:170:ARG:HB3	1.88	0.56
5:O:756:SER:C	5:O:757:ARG:HD3	2.30	0.56
5:O:1181:LEU:HD12	5:O:1182:VAL:H	1.70	0.56
3:P:78:ILE:HD13	3:P:117:LEU:HD23	1.87	0.56
3:P:123:ARG:HB3	3:P:125:TYR:CE1	2.41	0.56
6:Y:208:ARG:HH22	6:Y:286:ILE:C	2.14	0.56
6:Z:17:ASN:O	6:Z:21:GLY:N	2.34	0.56
6:Z:43:MET:HE3	6:Z:44:VAL:H	1.70	0.56
6:Z:340:LEU:C	6:Z:343:PHE:HE1	2.14	0.56
2:C:691:ILE:H	2:C:691:ILE:HD12	1.71	0.56
2:C:727:PHE:HD1	2:C:914:VAL:HG11	1.71	0.56
3:D:63:SER:C	3:D:67:GLN:HE21	2.13	0.56
4:K:48:TRP:HE3	4:K:63:LEU:HG	1.70	0.56
4:K:69:LYS:HG2	4:K:97:ASP:HB2	1.86	0.56
4:K:182:LEU:HA	4:K:185:LEU:HD23	1.88	0.56
4:K:388:LYS:NZ	4:K:393:ASP:OD1	2.38	0.56
4:L:239:ALA:O	4:L:243:ARG:HG2	2.06	0.56
4:M:175:VAL:O	4:M:179:GLN:HG3	2.06	0.56
4:M:615:ALA:HB1	4:M:618:LEU:HB2	1.88	0.56
5:O:61:ARG:HE	5:O:64:GLN:CD	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:690:GLN:HE21	5:O:992:ARG:HE	1.52	0.56
5:O:1004:ALA:O	5:O:1007:ARG:NH1	2.38	0.56
5:O:1204:ARG:NH1	5:O:1205:ASP:OD1	2.39	0.56
3:P:277:PRO:HA	3:P:279:TRP:CD1	2.41	0.56
3:P:341:ASP:O	3:P:344:ARG:HG3	2.05	0.56
6:Z:257:TYR:CE2	6:Z:342:MET:HE3	2.41	0.56
6:Z:326:ARG:HA	6:Z:329:GLN:NE2	2.20	0.56
1:B:255:LEU:HG	1:B:256:VAL:HG23	1.86	0.56
1:B:465:TRP:NE1	1:B:469:LEU:HD11	2.20	0.56
1:B:520:ILE:HA	1:B:523:MET:HG3	1.87	0.56
2:C:312:SER:OG	2:C:313:ASN:O	2.23	0.56
2:C:850:THR:O	2:C:997:LEU:HD13	2.04	0.56
3:D:367:PHE:CD1	3:D:371:LYS:HE2	2.41	0.56
4:K:369:ASN:HA	4:K:467:TYR:CD2	2.40	0.56
4:L:40:MET:HB3	4:L:106:HIS:CE1	2.40	0.56
4:L:64:ARG:NH2	4:L:70:ASP:OD2	2.37	0.56
4:M:137:TYR:CZ	4:M:141:LEU:HD21	2.41	0.56
4:M:152:ALA:HB3	4:M:153:ARG:NH1	2.21	0.56
5:O:212:TRP:NE1	3:P:137:PRO:HG2	2.18	0.56
5:O:1180:THR:OG1	5:O:1181:LEU:N	2.32	0.56
5:O:1192:LYS:HZ1	5:O:1220:ILE:H	1.54	0.56
3:P:165:ARG:HD3	3:P:166:VAL:N	2.21	0.56
3:P:186:THR:O	3:P:189:GLU:HG2	2.06	0.56
6:Y:180:VAL:HG12	6:Y:225:TYR:HE1	1.69	0.56
6:Z:218:TRP:HB2	6:Z:267:LYS:HZ3	1.70	0.56
2:C:416:VAL:HG23	2:C:1217:PRO:HG3	1.87	0.56
2:C:851:ARG:O	2:C:994:MET:HB2	2.05	0.56
2:C:951:TRP:CZ3	2:C:1042:ARG:HG3	2.40	0.56
2:C:1075:HIS:H	2:C:1108:TRP:HA	1.69	0.56
4:K:215:VAL:O	4:K:219:LEU:HG	2.05	0.56
4:L:37:SER:C	4:L:41:LEU:HG	2.31	0.56
4:L:398:LYS:HG2	4:L:429:GLN:HA	1.86	0.56
4:L:506:LYS:HZ3	6:Z:315:LEU:C	2.14	0.56
4:M:135:PRO:HB2	4:M:174:TYR:OH	2.06	0.56
5:O:186:PRO:HG2	5:O:188:PHE:HE1	1.71	0.56
5:O:408:ASP:O	5:O:412:LEU:HG	2.05	0.56
5:O:614:VAL:HG13	5:O:616:ILE:HD11	1.86	0.56
5:O:778:ARG:NH1	5:O:781:GLU:OE1	2.30	0.56
5:O:1231:SER:HA	5:O:1275:PRO:O	2.06	0.56
6:Y:208:ARG:HH12	6:Y:287:LYS:H	1.54	0.56
1:B:372:LEU:HD21	1:B:465:TRP:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:474:ILE:HD13	1:B:505:MET:HE2	1.87	0.56
1:B:488:GLN:HE21	1:B:905:ILE:HD13	1.71	0.56
2:C:461:ILE:HG23	2:C:1023:CYS:SG	2.46	0.56
2:C:549:LEU:HD12	2:C:890:LYS:C	2.31	0.56
3:D:237:PHE:CD1	3:D:255:CYS:HA	2.41	0.56
3:D:361:ALA:O	3:D:365:GLN:HG3	2.05	0.56
4:L:160:GLN:C	4:L:161:LYS:HD3	2.30	0.56
4:L:250:MET:CG	4:L:254:GLU:HB2	2.34	0.56
4:M:314:ILE:HD13	4:M:538:CYS:HB2	1.88	0.56
5:O:340:ASN:CG	5:O:342:THR:H	2.13	0.56
5:O:1170:LYS:O	5:O:1186:LYS:N	2.35	0.56
6:X:248:ASP:OD1	6:X:348:LYS:NZ	2.38	0.56
6:Y:54:CYS:HB3	6:Y:73:CYS:SG	2.46	0.56
6:Y:198:GLU:HA	6:Y:202:ARG:HE	1.70	0.56
2:C:464:ARG:HH22	2:C:1026:LEU:HD13	1.71	0.56
2:C:719:ILE:HG12	2:C:720:ARG:H	1.71	0.56
4:L:301:ILE:HG12	4:L:624:TRP:CZ2	2.41	0.56
4:M:28:SER:OG	4:M:243:ARG:O	2.17	0.56
4:M:122:ARG:O	4:M:125:LEU:HG	2.06	0.56
4:M:548:GLU:O	4:M:552:ILE:HG13	2.06	0.56
5:O:1203:SER:OG	5:O:1204:ARG:N	2.39	0.56
3:P:107:ALA:HB3	3:P:112:LEU:HD23	1.88	0.56
6:Y:299:VAL:HG23	6:Y:320:MET:HG3	1.87	0.56
6:Z:90:ARG:NH2	6:Z:151:ASP:O	2.39	0.56
1:B:318:ARG:N	1:B:371:TYR:OH	2.39	0.55
1:B:576:SER:OG	1:B:577:ILE:N	2.36	0.55
1:B:931:LEU:O	1:B:935:VAL:HG23	2.05	0.55
2:C:394:LEU:HB2	2:C:403:TYR:OH	2.06	0.55
2:C:494:THR:O	2:C:1270:VAL:N	2.22	0.55
2:C:856:THR:HG22	2:C:857:ILE:H	1.71	0.55
3:D:213:THR:O	3:D:217:LEU:HG	2.06	0.55
4:K:48:TRP:CD1	4:K:65:ARG:HG3	2.41	0.55
4:K:617:VAL:HG22	4:K:618:LEU:HD22	1.88	0.55
4:L:199:LEU:HD13	4:L:665:LEU:HD11	1.87	0.55
4:M:169:THR:O	4:M:172:THR:OG1	2.18	0.55
4:M:396:GLY:O	4:M:429:GLN:NE2	2.36	0.55
5:O:394:VAL:O	5:O:741:ILE:HG12	2.06	0.55
5:O:617:ASN:ND2	5:O:649:VAL:O	2.39	0.55
6:Z:7:ASN:O	6:Z:11:ILE:HG13	2.06	0.55
1:B:259:ASP:OD2	1:B:312:SER:OG	2.24	0.55
2:C:313:ASN:OD1	2:C:314:VAL:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:476:PRO:O	2:C:479:ILE:HB	2.06	0.55
2:C:682:HIS:HB3	2:C:1004:TYR:CE2	2.41	0.55
3:D:334:ARG:HH11	3:D:337:THR:HG21	1.71	0.55
4:K:42:ASN:HB3	4:M:113:LYS:HG3	1.88	0.55
4:K:68:SER:OG	4:K:97:ASP:N	2.27	0.55
4:K:383:GLY:HA2	4:K:443:ILE:HG23	1.89	0.55
4:M:392:TRP:CE3	6:X:278:GLY:HA3	2.41	0.55
4:M:633:THR:O	4:M:637:THR:HG23	2.06	0.55
5:O:832:PRO:O	5:O:856:GLN:HG2	2.06	0.55
3:P:262:GLN:HE22	3:P:264:ARG:HB3	1.71	0.55
3:P:373:GLU:O	3:P:377:ARG:NH1	2.38	0.55
6:X:251:HIS:CE1	6:X:253:GLY:H	2.24	0.55
6:Y:312:ARG:HH11	6:Y:316:GLY:HA2	1.70	0.55
6:Z:300:ASP:OD1	6:Z:300:ASP:N	2.35	0.55
1:B:732:LEU:HD23	1:B:732:LEU:H	1.71	0.55
1:B:860:PRO:HA	1:B:863:SER:HB2	1.89	0.55
3:D:374:ALA:N	3:D:377:ARG:HH21	2.03	0.55
4:M:402:ILE:HG13	4:M:423:THR:C	2.31	0.55
4:M:594:LYS:C	4:M:598:ARG:HE	2.14	0.55
5:O:575:TYR:HA	5:O:613:VAL:HG12	1.87	0.55
5:O:707:GLU:HB2	5:O:756:SER:OG	2.06	0.55
5:O:875:ASP:OD2	5:O:876:GLY:N	2.37	0.55
3:P:47:SER:OG	3:P:51:GLY:O	2.23	0.55
1:B:589:SER:HG	1:B:592:ARG:HH22	1.53	0.55
1:B:714:PRO:HA	1:B:760:GLU:CD	2.32	0.55
1:B:946:ASP:HB3	3:P:31:ARG:HH12	1.72	0.55
1:B:1092:PRO:O	1:B:1093:MET:HG3	2.07	0.55
1:B:1166:TRP:NE1	1:B:1176:PRO:O	2.39	0.55
2:C:300:ALA:O	2:C:1185:SER:OG	2.22	0.55
2:C:352:LEU:O	2:C:954:SER:OG	2.15	0.55
2:C:406:MET:HE1	2:C:453:THR:HB	1.89	0.55
2:C:513:GLU:CD	2:C:513:GLU:H	2.14	0.55
2:C:1035:TYR:CE2	2:C:1042:ARG:HB2	2.40	0.55
5:O:96:GLU:O	5:O:100:ILE:HD12	2.07	0.55
5:O:727:ILE:HD12	5:O:730:LEU:HD23	1.88	0.55
3:P:79:PRO:HG2	3:P:80:PHE:CZ	2.41	0.55
4:L:370:LEU:HB2	4:L:466:TYR:HB2	1.87	0.55
5:O:112:ASN:HD21	5:O:146:LEU:HD11	1.71	0.55
5:O:186:PRO:HG2	5:O:188:PHE:CE1	2.42	0.55
5:O:445:HIS:HB3	5:O:667:THR:HB	1.88	0.55
5:O:851:ILE:HG23	5:O:872:TYR:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:889:MET:HG2	5:O:890:LEU:HG	1.89	0.55
3:P:241:CYS:SG	3:P:243:ARG:HG2	2.46	0.55
6:Z:79:HIS:HE1	6:Z:83:VAL:HA	1.71	0.55
1:B:600:TYR:CD2	1:B:830:PRO:HA	2.42	0.55
1:B:630:PHE:O	1:B:634:LEU:HG	2.07	0.55
1:B:701:ILE:HA	1:B:704:GLN:HE21	1.72	0.55
1:B:759:ASN:HB2	1:B:762:THR:H	1.71	0.55
1:B:764:TRP:HE3	1:B:767:ARG:HH11	1.53	0.55
2:C:265:SER:OG	2:C:309:ARG:N	2.35	0.55
2:C:506:PRO:HD2	2:C:507:TYR:CZ	2.41	0.55
2:C:555:ILE:O	2:C:559:THR:HG23	2.06	0.55
4:K:27:SER:OG	4:K:28:SER:N	2.40	0.55
4:K:64:ARG:NH1	4:K:67:THR:OG1	2.36	0.55
4:K:324:ARG:HA	4:K:366:ARG:NH1	2.22	0.55
4:K:639:SER:HA	4:L:31:VAL:O	2.07	0.55
4:L:169:THR:O	4:L:173:MET:HG2	2.07	0.55
4:L:369:ASN:HA	4:L:467:TYR:CD2	2.41	0.55
4:M:206:GLY:HA3	4:M:658:GLN:HE22	1.72	0.55
4:M:264:ALA:HA	4:M:267:ALA:HB3	1.87	0.55
4:M:653:SER:O	4:M:657:ILE:HG12	2.06	0.55
5:O:327:LEU:O	5:O:331:VAL:HG23	2.07	0.55
5:O:491:LYS:HE2	5:O:538:ILE:HG13	1.87	0.55
5:O:904:ASP:OD1	5:O:961:SER:OG	2.18	0.55
5:O:908:GLN:HA	5:O:911:ILE:HG12	1.89	0.55
3:P:129:ASP:N	3:P:129:ASP:OD1	2.36	0.55
3:P:146:GLN:O	3:P:150:VAL:HG23	2.06	0.55
3:P:213:THR:HA	3:P:216:ILE:HG12	1.88	0.55
6:X:238:TYR:CZ	6:X:242:LEU:HD21	2.41	0.55
1:B:569:GLN:OE1	1:B:571:LEU:N	2.29	0.55
1:B:791:SER:OG	1:B:794:ARG:NH2	2.38	0.55
2:C:1166:TRP:CH2	2:C:1175:ILE:HD11	2.41	0.55
2:C:1233:ASN:HA	2:C:1236:THR:OG1	2.07	0.55
3:D:222:LEU:HB2	3:D:228:ILE:HG13	1.88	0.55
4:K:136:LYS:NZ	4:L:158:ASN:HA	2.22	0.55
4:L:371:ASP:OD1	4:L:459:LYS:NZ	2.36	0.55
4:M:327:LYS:HD2	4:M:328:ILE:H	1.71	0.55
4:M:373:ILE:HG13	4:M:452:TYR:CE2	2.41	0.55
5:O:115:VAL:O	5:O:119:LEU:HG	2.06	0.55
5:O:262:GLU:O	5:O:265:SER:OG	2.23	0.55
5:O:397:LEU:HD12	5:O:398:PRO:HD2	1.88	0.55
5:O:412:LEU:O	5:O:415:SER:OG	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:438:TYR:HB2	5:O:639:MET:HE2	1.88	0.55
5:O:576:SER:OG	5:O:613:VAL:O	2.24	0.55
5:O:730:LEU:O	5:O:734:VAL:HG22	2.07	0.55
3:P:34:ASN:HD22	3:P:103:GLY:HA2	1.71	0.55
3:P:55:SER:H	3:P:59:PRO:HA	1.72	0.55
3:P:127:CYS:HG	3:P:144:TYR:HE1	1.55	0.55
3:P:270:LEU:HB2	3:P:328:HIS:CE1	2.42	0.55
3:P:270:LEU:HD21	3:P:414:ILE:HG12	1.89	0.55
6:Z:7:ASN:HB3	6:Z:10:GLN:NE2	2.22	0.55
6:Z:206:PHE:HB3	6:Z:208:ARG:HG3	1.89	0.55
1:B:601:ASN:ND2	1:B:835:TYR:OH	2.39	0.55
1:B:815:ALA:O	1:B:819:LEU:HG	2.06	0.55
1:B:1029:GLU:HA	1:B:1032:ASN:HB2	1.89	0.55
1:B:1095:ARG:NH1	1:B:1099:GLY:O	2.40	0.55
2:C:340:ASN:HD21	2:C:353:MET:HG3	1.71	0.55
2:C:682:HIS:HB2	3:P:173:GLY:HA2	1.89	0.55
2:C:850:THR:OG1	2:C:998:ALA:HB3	2.06	0.55
2:C:1047:ILE:HD11	2:C:1137:ILE:HD12	1.89	0.55
2:C:1110:PHE:HE2	2:C:1115:TRP:HB2	1.70	0.55
3:D:273:MET:HE3	3:D:275:THR:HA	1.89	0.55
4:K:12:ASN:HD21	4:K:16:ASP:N	2.04	0.55
4:K:153:ARG:O	4:K:157:ASN:ND2	2.39	0.55
4:M:108:ILE:HG12	4:M:137:TYR:HE2	1.72	0.55
4:M:426:ASN:HA	6:X:61:LEU:HD13	1.89	0.55
4:M:564:ASN:HB2	4:M:600:MET:SD	2.47	0.55
5:O:531:GLU:O	5:O:535:GLN:N	2.28	0.55
6:X:236:ARG:O	6:X:240:LYS:N	2.40	0.55
1:B:524:ASN:HD21	1:B:986:PRO:HG3	1.72	0.55
1:B:802:LEU:HG	1:B:804:LYS:NZ	2.21	0.55
1:B:943:TYR:HA	3:P:105:VAL:HG12	1.89	0.55
1:B:1115:TRP:O	1:B:1119:THR:OG1	2.20	0.55
2:C:707:GLU:O	2:C:711:ARG:HB2	2.06	0.55
4:M:259:ASN:OD1	4:M:260:GLU:N	2.40	0.55
4:M:336:MET:HB2	4:M:366:ARG:CZ	2.37	0.55
4:M:347:ILE:HG23	4:M:359:PHE:CE1	2.41	0.55
4:M:592:LEU:HD12	4:M:595:ILE:HB	1.89	0.55
5:O:18:ILE:O	5:O:276:VAL:HG22	2.06	0.55
5:O:574:VAL:HB	5:O:612:PHE:HB3	1.89	0.55
3:P:392:PHE:CD1	3:P:396:PRO:HG3	2.42	0.55
6:X:8:GLY:O	6:X:11:ILE:N	2.38	0.55
6:X:132:ASN:OD1	6:X:133:TRP:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:54:CYS:HB3	6:Z:73:CYS:HA	1.89	0.55
1:B:267:LYS:HD2	1:B:310:TRP:CE2	2.42	0.55
1:B:378:PHE:HA	1:B:391:LEU:O	2.06	0.55
1:B:489:GLY:O	2:C:672:SER:OG	2.22	0.55
1:B:670:THR:OG1	1:B:671:GLN:N	2.39	0.55
1:B:708:ILE:HA	1:B:711:ARG:HH21	1.72	0.55
2:C:504:LEU:N	2:C:505:MET:HE2	2.22	0.55
3:D:229:HIS:CD2	3:D:232:ASN:HB2	2.42	0.55
3:D:336:VAL:HA	3:D:339:PHE:HB3	1.89	0.55
4:K:105:GLU:HA	4:K:108:ILE:HD12	1.89	0.55
4:K:174:TYR:O	4:K:178:ILE:HG12	2.07	0.55
4:L:299:GLU:H	4:L:299:GLU:CD	2.14	0.55
4:L:621:LYS:HE3	6:Z:2:GLU:HG2	1.89	0.55
5:O:340:ASN:HD21	5:O:342:THR:HG1	1.53	0.55
5:O:687:ILE:HG12	5:O:992:ARG:HD2	1.88	0.55
5:O:926:VAL:HG21	5:O:1019:MET:HG2	1.89	0.55
5:O:971:ARG:HH22	5:O:1028:MET:H	1.54	0.55
5:O:1029:GLU:HB2	5:O:1043:VAL:O	2.07	0.55
5:O:1034:PHE:O	5:O:1120:ASP:N	2.37	0.55
3:P:233:THR:HB	3:P:236:THR:HA	1.89	0.55
6:X:74:ASN:HB2	6:X:76:GLN:HG3	1.88	0.55
6:X:166:TYR:O	6:X:170:LEU:HG	2.07	0.55
1:B:295:PRO:HA	1:B:405:ILE:HG23	1.88	0.54
1:B:468:ARG:HH12	1:B:1017:GLY:HA3	1.72	0.54
1:B:531:VAL:O	1:B:534:PRO:HD2	2.07	0.54
1:B:602:GLY:N	1:B:832:GLN:HA	2.22	0.54
1:B:646:VAL:HG22	1:B:688:PHE:HZ	1.73	0.54
1:B:882:ILE:HG13	1:B:883:THR:N	2.22	0.54
2:C:333:HIS:CE1	2:C:334:LEU:HG	2.42	0.54
2:C:550:GLN:O	2:C:890:LYS:N	2.39	0.54
2:C:807:THR:O	2:C:811:LEU:HG	2.06	0.54
4:K:18:ASN:ND2	4:K:249:TRP:HA	2.22	0.54
4:M:568:ILE:HD12	4:M:568:ILE:H	1.72	0.54
4:M:616:PRO:HA	6:Y:1:MET:HG3	1.89	0.54
5:O:166:VAL:HG12	5:O:167:ALA:N	2.22	0.54
5:O:352:GLN:NE2	5:O:370:VAL:O	2.40	0.54
5:O:1197:TYR:HD2	5:O:1211:GLN:HG3	1.69	0.54
3:P:71:LEU:O	3:P:75:THR:HG23	2.07	0.54
3:P:303:LEU:HB3	3:P:321:GLY:H	1.72	0.54
6:X:145:ILE:HG13	6:X:146:HIS:NE2	2.21	0.54
6:Z:118:LEU:HD13	6:Z:128:LEU:HD22	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:131:LEU:O	6:Z:360:ASP:HB3	2.07	0.54
1:B:637:PRO:HG2	1:B:764:TRP:NE1	2.21	0.54
1:B:752:THR:HA	1:B:896:VAL:HG23	1.88	0.54
1:B:1001:TYR:O	1:B:1008:THR:HA	2.07	0.54
2:C:602:GLY:HA3	2:C:831:PHE:CE2	2.42	0.54
2:C:708:ILE:HD13	2:C:711:ARG:HH11	1.72	0.54
2:C:839:ASP:HB3	2:C:842:ARG:NE	2.21	0.54
2:C:843:VAL:O	2:C:1004:TYR:N	2.39	0.54
2:C:1064:ASP:N	2:C:1064:ASP:OD1	2.36	0.54
3:D:96:TRP:CE2	3:D:104:LEU:HD21	2.41	0.54
4:K:21:LYS:H	4:K:248:GLN:HE22	1.54	0.54
4:K:399:VAL:HG13	4:K:471:THR:C	2.32	0.54
5:O:192:LEU:HD12	5:O:195:TYR:HB3	1.89	0.54
5:O:394:VAL:HG12	5:O:395:GLN:H	1.70	0.54
5:O:778:ARG:O	5:O:781:GLU:HB3	2.06	0.54
5:O:892:LEU:H	5:O:925:GLN:NE2	2.03	0.54
5:O:941:GLU:HB2	5:O:950:ARG:HD2	1.89	0.54
5:O:1196:TYR:HB3	5:O:1214:LEU:HD12	1.89	0.54
6:X:58:VAL:O	6:X:63:ARG:NH1	2.39	0.54
6:X:265:LEU:N	6:X:268:MET:O	2.39	0.54
6:Y:247:ARG:O	6:Y:348:LYS:NZ	2.38	0.54
1:B:347:ARG:HH21	1:B:1177:SER:N	2.04	0.54
1:B:593:VAL:HG21	1:B:877:LEU:HD22	1.89	0.54
1:B:706:ALA:HA	1:B:709:ILE:HD12	1.89	0.54
1:B:985:GLU:CD	1:B:985:GLU:H	2.15	0.54
2:C:483:LEU:O	2:C:487:ALA:N	2.24	0.54
2:C:1130:ILE:HG23	2:C:1160:TRP:HH2	1.71	0.54
3:D:165:ARG:HB2	3:D:267:ASN:HD21	1.72	0.54
3:D:246:ASP:OD1	3:D:247:ALA:N	2.40	0.54
3:D:362:ASP:HA	3:D:365:GLN:HE21	1.71	0.54
3:D:369:ARG:NH2	3:D:373:GLU:OE1	2.40	0.54
4:K:161:LYS:HD2	4:K:162:GLN:HB2	1.90	0.54
4:K:408:ILE:HD13	4:K:418:GLN:HG2	1.90	0.54
4:K:525:GLU:OE1	4:M:447:SER:OG	2.24	0.54
4:L:402:ILE:HG13	4:L:424:VAL:HG23	1.90	0.54
5:O:347:GLN:HB2	5:O:350:TYR:H	1.72	0.54
5:O:494:TYR:CE2	5:O:541:VAL:HG22	2.42	0.54
5:O:646:THR:HG22	5:O:647:ASN:H	1.72	0.54
5:O:712:GLU:HG2	5:O:750:ARG:O	2.08	0.54
5:O:988:LEU:H	5:O:989:ARG:CZ	2.20	0.54
3:P:230:GLN:HG3	3:P:258:ASN:ND2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:218:TRP:NE1	6:X:221:MET:HE2	2.22	0.54
6:X:261:THR:OG1	6:X:262:THR:O	2.23	0.54
1:B:717:SER:OG	1:B:744:ASP:HA	2.08	0.54
2:C:418:LYS:HD2	2:C:1214:SER:HB2	1.90	0.54
2:C:514:ARG:O	2:C:517:SER:OG	2.20	0.54
2:C:682:HIS:NE2	3:P:177:GLN:HB2	2.22	0.54
2:C:708:ILE:HG23	2:C:712:TYR:CD1	2.37	0.54
2:C:898:ASN:HA	2:C:901:TYR:CD1	2.43	0.54
2:C:983:LEU:O	2:C:984:LEU:HG	2.07	0.54
2:C:1005:ASN:OD1	2:C:1006:GLY:N	2.40	0.54
2:C:1151:TYR:CD2	2:C:1181:MET:HG2	2.42	0.54
3:D:316:ILE:O	3:D:320:THR:N	2.32	0.54
4:K:225:ASP:OD1	4:K:226:ASP:N	2.40	0.54
4:L:102:VAL:HG21	4:L:148:VAL:HG11	1.89	0.54
4:L:559:ASP:H	4:L:601:GLN:HE22	1.54	0.54
5:O:207:LEU:HA	5:O:210:PHE:HB3	1.90	0.54
5:O:743:ILE:N	5:O:787:ILE:HB	2.21	0.54
5:O:1192:LYS:HD3	5:O:1220:ILE:HG12	1.88	0.54
5:O:1222:LEU:HD12	5:O:1223:PRO:CD	2.36	0.54
6:X:221:MET:HG2	6:X:358:ILE:N	2.22	0.54
6:X:302:VAL:O	6:X:306:TRP:N	2.41	0.54
6:Z:17:ASN:O	6:Z:20:GLU:HG2	2.07	0.54
1:B:518:GLN:HE22	1:B:828:PHE:HD1	1.55	0.54
1:B:1165:ALA:O	1:B:1168:GLU:HG2	2.07	0.54
2:C:675:ALA:HA	2:C:678:PHE:CD2	2.42	0.54
2:C:854:ARG:HH22	2:C:1010:ASN:ND2	2.06	0.54
3:D:291:LEU:O	3:D:295:LEU:HG	2.08	0.54
3:D:344:ARG:HE	3:D:354:GLN:HE22	1.54	0.54
4:K:349:VAL:HB	4:K:357:TRP:HD1	1.72	0.54
4:K:408:ILE:C	4:K:413:TRP:HE1	2.15	0.54
4:L:124:PHE:O	4:L:128:LEU:HG	2.06	0.54
4:L:494:THR:C	4:L:495:MET:HE2	2.33	0.54
4:M:465:ASN:HB3	4:M:467:TYR:CE1	2.43	0.54
4:M:616:PRO:HD2	4:M:618:LEU:HD13	1.89	0.54
5:O:142:MET:O	5:O:146:LEU:N	2.26	0.54
5:O:157:PHE:HA	5:O:166:VAL:HG22	1.90	0.54
5:O:470:SER:O	5:O:474:LEU:HG	2.08	0.54
5:O:483:LEU:HD21	5:O:528:LEU:HB3	1.89	0.54
5:O:1169:ASP:OD2	5:O:1169:ASP:N	2.41	0.54
6:Y:65:LEU:HG	6:Y:67:HIS:H	1.70	0.54
6:Y:208:ARG:CZ	6:Y:287:LYS:HG3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:247:ARG:HB3	6:Y:348:LYS:HD2	1.88	0.54
6:Z:79:HIS:HA	6:Z:82:TYR:CE2	2.43	0.54
1:B:897:THR:OG1	1:B:898:ASN:N	2.40	0.54
1:B:1218:GLN:HE22	2:C:1087:MET:HG3	1.73	0.54
4:K:153:ARG:HH22	4:M:132:SER:HA	1.73	0.54
4:K:380:LEU:HD22	4:K:448:LEU:HB3	1.89	0.54
4:L:145:ASP:HB3	4:L:161:LYS:HG3	1.89	0.54
4:L:189:GLU:CD	4:L:192:LEU:HD12	2.32	0.54
4:L:636:ARG:NE	4:M:28:SER:O	2.41	0.54
4:M:193:ARG:HA	4:M:196:GLN:NE2	2.23	0.54
5:O:26:THR:HB	5:O:108:ASN:HB3	1.89	0.54
5:O:527:PRO:O	5:O:530:ILE:HG12	2.08	0.54
5:O:600:SER:O	5:O:603:MET:HB3	2.07	0.54
5:O:671:TYR:O	5:O:675:VAL:HG23	2.07	0.54
3:P:144:TYR:CD1	3:P:147:LEU:HD12	2.43	0.54
6:Z:17:ASN:HA	6:Z:20:GLU:HG2	1.89	0.54
6:Z:88:ALA:O	6:Z:92:THR:HG23	2.08	0.54
1:B:516:ILE:HA	1:B:519:ILE:HD12	1.89	0.54
1:B:1110:PHE:CZ	1:B:1114:LEU:HB2	2.42	0.54
1:B:1115:TRP:CE2	1:B:1122:PHE:HB3	2.43	0.54
1:B:1144:TYR:HD2	1:B:1145:PRO:C	2.15	0.54
2:C:336:LYS:HD3	2:C:348:GLY:O	2.08	0.54
2:C:1148:LEU:O	2:C:1149:HIS:ND1	2.40	0.54
3:D:9:LYS:NZ	3:D:154:ASN:HB3	2.22	0.54
3:D:373:GLU:C	3:D:377:ARG:HE	2.14	0.54
4:K:369:ASN:HA	4:K:467:TYR:HD2	1.72	0.54
4:L:322:ASN:HD21	4:L:324:ARG:HB2	1.72	0.54
4:M:565:SER:HA	4:M:568:ILE:HD13	1.90	0.54
5:O:948:ARG:HB3	5:O:957:ASP:OD1	2.07	0.54
5:O:1261:TRP:CD1	5:O:1279:VAL:HG13	2.43	0.54
3:P:161:ILE:HG23	3:P:272:VAL:N	2.21	0.54
6:Y:196:ARG:HH21	6:Y:353:ASP:C	2.15	0.54
6:Z:324:TYR:O	6:Z:328:MET:HG3	2.08	0.54
1:B:424:ALA:O	2:C:1079:ARG:NH2	2.41	0.54
1:B:1160:TRP:O	1:B:1163:THR:HB	2.07	0.54
1:B:1187:ASP:CG	1:B:1188:HIS:HD1	2.16	0.54
2:C:690:ASN:HB3	2:C:693:LEU:HD11	1.90	0.54
2:C:1246:GLN:HB2	2:C:1250:VAL:O	2.08	0.54
3:D:166:VAL:O	3:D:267:ASN:HA	2.08	0.54
3:D:370:ASP:HB2	3:D:371:LYS:HZ2	1.72	0.54
4:K:301:ILE:HG13	4:K:624:TRP:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:314:ILE:HG23	4:K:542:ARG:HH22	1.72	0.54
4:L:39:GLY:HA2	4:L:42:ASN:HD22	1.73	0.54
4:L:426:ASN:OD1	4:L:427:TYR:N	2.41	0.54
4:L:546:ILE:O	4:L:550:ILE:HG13	2.08	0.54
4:M:109:ALA:HB1	4:M:113:LYS:NZ	2.23	0.54
4:M:337:ILE:HB	4:M:365:THR:H	1.72	0.54
4:M:655:GLU:HA	4:M:658:GLN:HB2	1.90	0.54
5:O:27:LEU:H	5:O:109:GLU:H	1.55	0.54
5:O:210:PHE:HD2	5:O:211:PHE:CD1	2.26	0.54
5:O:307:LEU:HD22	5:O:342:THR:HG21	1.88	0.54
5:O:642:LYS:HD2	5:O:650:GLU:HG2	1.90	0.54
5:O:1236:ARG:NH1	5:O:1236:ARG:HA	2.23	0.54
3:P:306:ASN:HD21	3:P:322:ARG:HD2	1.73	0.54
6:X:32:TRP:CD1	6:X:64:LYS:HZ1	2.25	0.54
6:X:180:VAL:H	6:X:365:GLY:HA2	1.73	0.54
6:Y:122:ARG:HH21	6:Y:236:ARG:HH21	1.53	0.54
6:Y:206:PHE:CD2	6:Y:267:LYS:HD2	2.43	0.54
6:Z:258:SER:HB2	6:Z:343:PHE:CE2	2.43	0.54
1:B:941:THR:CG2	1:B:943:TYR:HB2	2.38	0.54
1:B:983:LEU:HB3	1:B:984:LEU:HD12	1.89	0.54
2:C:398:ASP:O	2:C:401:LYS:N	2.40	0.54
4:K:281:GLU:HA	4:K:284:LYS:HG2	1.90	0.54
4:K:297:GLU:OE2	4:K:299:GLU:HB2	2.08	0.54
4:K:522:TYR:CD2	4:K:527:LEU:HG	2.43	0.54
4:K:610:ILE:HD12	4:K:624:TRP:HZ3	1.73	0.54
4:K:620:ASP:OD1	4:K:622:ASN:N	2.29	0.54
4:K:658:GLN:NE2	4:K:659:ASN:OD1	2.40	0.54
4:L:478:ILE:HG23	4:L:480:PRO:HD3	1.88	0.54
4:L:595:ILE:HG23	4:L:598:ARG:NH2	2.23	0.54
4:M:37:SER:O	4:M:37:SER:OG	2.23	0.54
5:O:59:LEU:HD23	5:O:64:GLN:HG2	1.90	0.54
5:O:690:GLN:HE21	5:O:992:ARG:NE	2.05	0.54
5:O:1248:CYS:SG	5:O:1261:TRP:HH2	2.30	0.54
3:P:239:PHE:HB2	3:P:251:TRP:HE3	1.71	0.54
6:Y:51:CYS:O	6:Y:55:LEU:HD13	2.08	0.54
6:Y:107:HIS:HE1	6:Y:169:ALA:HB3	1.73	0.54
6:Z:132:ASN:OD1	6:Z:133:TRP:N	2.41	0.54
6:Z:251:HIS:CB	6:Z:254:LEU:HB2	2.37	0.54
1:B:628:ASP:HA	1:B:631:ILE:HD12	1.89	0.54
2:C:719:ILE:HD12	2:C:745:HIS:CE1	2.43	0.54
2:C:919:GLN:O	2:C:923:ILE:HG13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1056:TRP:CE2	2:C:1062:PRO:HD3	2.43	0.54
4:K:123:GLU:OE2	4:K:238:VAL:HB	2.08	0.54
4:K:172:THR:O	4:K:175:VAL:HG22	2.08	0.54
4:K:308:PRO:HG2	4:K:311:VAL:HB	1.90	0.54
4:L:353:THR:HA	6:Y:32:TRP:CZ3	2.43	0.54
4:M:555:ASP:OD2	4:M:555:ASP:N	2.41	0.54
5:O:88:GLU:O	5:O:91:ARG:HG2	2.08	0.54
5:O:506:LEU:C	5:O:507:ARG:HD2	2.32	0.54
5:O:575:TYR:HA	5:O:613:VAL:CG1	2.38	0.54
5:O:716:PHE:CD2	5:O:781:GLU:HA	2.43	0.54
5:O:993:LEU:HA	5:O:996:LEU:HB2	1.90	0.54
6:Y:186:ARG:HB2	6:Y:351:ASP:OD2	2.07	0.54
6:Y:227:GLU:HB2	6:Y:354:TYR:CZ	2.43	0.54
1:B:636:LEU:CD1	1:B:648:ALA:HB2	2.38	0.53
1:B:670:THR:HG23	1:B:672:SER:H	1.73	0.53
2:C:325:ALA:HB1	2:C:329:GLU:OE1	2.08	0.53
2:C:474:ILE:HD11	2:C:507:TYR:HB2	1.90	0.53
2:C:904:ALA:O	2:C:907:PRO:HD2	2.07	0.53
3:D:153:LEU:C	3:D:155:LEU:H	2.16	0.53
4:K:335:ARG:HB3	4:K:411:GLU:CD	2.34	0.53
4:L:405:GLN:HG2	4:L:457:LEU:HD22	1.89	0.53
4:M:402:ILE:HA	4:M:424:VAL:HA	1.90	0.53
5:O:448:VAL:HG13	5:O:452:GLU:CD	2.33	0.53
5:O:458:ASP:N	5:O:458:ASP:OD1	2.40	0.53
5:O:490:LEU:HA	5:O:493:ALA:HB3	1.91	0.53
5:O:927:ASN:HB3	5:O:949:TYR:CE1	2.43	0.53
5:O:1046:GLY:H	5:O:1086:GLU:HG2	1.72	0.53
6:Z:51:CYS:HB3	6:Z:54:CYS:SG	2.49	0.53
6:Z:95:TRP:CZ3	6:Z:284:PRO:HG3	2.43	0.53
6:Z:222:VAL:O	6:Z:357:MET:N	2.26	0.53
2:C:298:GLU:HG2	2:C:1214:SER:HB3	1.88	0.53
2:C:417:SER:OG	2:C:1214:SER:O	2.26	0.53
3:D:96:TRP:HA	3:D:104:LEU:HG	1.89	0.53
4:K:305:VAL:O	4:K:307:VAL:HG13	2.08	0.53
4:L:31:VAL:HG23	4:L:120:PHE:HZ	1.73	0.53
4:L:240:LEU:HB3	4:L:247:ILE:HD13	1.90	0.53
4:L:407:LYS:HB3	4:L:463:GLU:HB2	1.90	0.53
4:L:566:VAL:HG11	4:M:197:THR:HG23	1.89	0.53
3:P:70:CYS:O	3:P:73:SER:OG	2.20	0.53
3:P:342:ARG:O	3:P:345:ARG:HB2	2.07	0.53
6:Y:131:LEU:O	6:Y:361:PRO:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:264:THR:HG21	1:B:1253:LEU:HD11	1.91	0.53
1:B:518:GLN:NE2	1:B:829:PRO:HD2	2.22	0.53
1:B:518:GLN:O	1:B:522:ILE:HG12	2.07	0.53
1:B:616:ASP:OD1	1:B:616:ASP:N	2.42	0.53
1:B:636:LEU:HD12	1:B:648:ALA:HB2	1.91	0.53
2:C:1165:ALA:HA	2:C:1168:GLU:CD	2.33	0.53
3:D:85:ARG:NH1	3:D:87:GLY:O	2.41	0.53
3:D:286:ILE:HD12	3:D:289:SER:OG	2.09	0.53
4:K:338:PRO:O	4:K:341:MET:HG2	2.08	0.53
4:K:393:ASP:H	6:Z:277:THR:HG22	1.73	0.53
4:K:607:PRO:O	4:K:610:ILE:HG12	2.08	0.53
4:L:435:SER:HB3	4:L:441:SER:C	2.34	0.53
4:M:358:HIS:N	4:M:474:ASP:O	2.29	0.53
5:O:533:TRP:CE2	5:O:544:PRO:HD3	2.44	0.53
5:O:760:PRO:HB2	5:O:764:ARG:NH1	2.22	0.53
5:O:924:VAL:O	5:O:926:VAL:HG13	2.07	0.53
5:O:924:VAL:C	5:O:1018:ILE:HG23	2.34	0.53
3:P:242:ASN:ND2	3:P:244:ARG:HH22	2.04	0.53
6:X:336:THR:HG23	6:X:340:LEU:HD13	1.90	0.53
6:Y:307:GLY:O	6:Y:311:ILE:HG13	2.09	0.53
6:Z:10:GLN:HA	6:Z:13:ASP:OD1	2.08	0.53
2:C:374:ARG:O	2:C:1259:ARG:NH1	2.42	0.53
2:C:628:ASP:O	2:C:632:LEU:HG	2.07	0.53
4:K:229:ILE:HG13	4:K:233:PRO:HA	1.89	0.53
4:K:398:LYS:HA	4:K:429:GLN:HA	1.90	0.53
4:L:568:ILE:H	4:L:568:ILE:HD12	1.74	0.53
4:M:336:MET:SD	4:M:339:LYS:NZ	2.82	0.53
4:M:381:ASP:O	4:M:491:ALA:HB1	2.08	0.53
5:O:70:THR:HA	5:O:73:TYR:CD1	2.44	0.53
3:P:144:TYR:HD1	3:P:147:LEU:HD12	1.73	0.53
6:X:17:ASN:HA	6:X:20:GLU:OE1	2.08	0.53
6:X:186:ARG:HH12	6:X:245:PRO:HB3	1.72	0.53
1:B:474:ILE:H	1:B:505:MET:HG3	1.73	0.53
1:B:1171:THR:OG1	1:B:1174:SER:N	2.40	0.53
2:C:982:MET:SD	2:C:984:LEU:N	2.81	0.53
2:C:1001:TYR:CE1	2:C:1009:PHE:HB2	2.44	0.53
4:K:385:LYS:N	4:K:443:ILE:HG22	2.21	0.53
4:K:519:ILE:HA	4:K:539:MET:HE1	1.90	0.53
4:L:133:VAL:HG22	4:L:134:SER:H	1.73	0.53
4:L:451:ASN:H	6:Y:62:GLN:NE2	2.06	0.53
4:L:474:ASP:CG	4:L:476:ALA:H	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:631:VAL:HG13	4:L:632:LYS:N	2.23	0.53
4:M:214:SER:HA	4:M:217:LYS:HE2	1.90	0.53
4:M:457:LEU:HD13	4:M:466:TYR:CD2	2.43	0.53
5:O:48:ASN:HD21	5:O:51:THR:H	1.56	0.53
5:O:61:ARG:HH22	5:O:168:ALA:HB1	1.72	0.53
5:O:206:VAL:O	5:O:209:ARG:HB2	2.08	0.53
5:O:609:GLY:HA2	5:O:660:GLN:OE1	2.08	0.53
5:O:809:MET:HE2	5:O:812:ASN:HD22	1.73	0.53
3:P:48:LEU:O	3:P:48:LEU:HD23	2.09	0.53
1:B:246:GLN:HE21	1:B:981:ASP:HB2	1.72	0.53
1:B:484:THR:O	1:B:487:ALA:N	2.42	0.53
1:B:511:ASN:HD21	1:B:729:SER:N	2.06	0.53
2:C:653:ALA:O	2:C:657:VAL:HG23	2.08	0.53
4:K:41:LEU:HD23	4:M:263:ASN:HA	1.90	0.53
4:K:554:ASP:OD2	4:K:554:ASP:N	2.41	0.53
4:L:600:MET:O	4:L:604:ILE:HG13	2.09	0.53
4:M:206:GLY:HA3	4:M:658:GLN:NE2	2.24	0.53
5:O:278:ARG:HB2	5:O:281:GLN:NE2	2.23	0.53
5:O:349:ARG:NH1	3:P:129:ASP:HA	2.24	0.53
3:P:22:ASN:ND2	3:P:391:MET:HE3	2.23	0.53
3:P:224:TYR:CZ	3:P:335:MET:HE2	2.44	0.53
6:X:121:VAL:HG13	6:X:125:GLY:HA2	1.90	0.53
6:X:137:ASP:O	6:X:140:SER:OG	2.21	0.53
6:Y:140:SER:OG	6:Y:144:SER:N	2.42	0.53
6:Z:117:ASP:O	6:Z:121:VAL:HG23	2.09	0.53
1:B:518:GLN:HE21	1:B:829:PRO:HD2	1.74	0.53
1:B:713:TRP:HA	1:B:764:TRP:CH2	2.44	0.53
1:B:719:ILE:O	1:B:739:LEU:HB3	2.09	0.53
1:B:1102:VAL:HG12	1:B:1103:PRO:O	2.08	0.53
2:C:279:ASP:OD2	2:C:280:VAL:HG23	2.09	0.53
2:C:336:LYS:NZ	2:C:346:VAL:O	2.30	0.53
2:C:337:GLN:N	2:C:337:GLN:OE1	2.42	0.53
2:C:619:SER:OG	2:C:620:VAL:N	2.42	0.53
2:C:665:ASP:CG	2:C:687:CYS:HB3	2.34	0.53
4:M:335:ARG:HG2	4:M:369:ASN:HD21	1.73	0.53
4:M:367:VAL:CG2	4:M:467:TYR:HB3	2.39	0.53
4:M:405:GLN:CG	4:M:421:GLN:HB2	2.39	0.53
5:O:7:VAL:HG21	5:O:330:PHE:HE1	1.73	0.53
5:O:879:THR:HG23	5:O:916:LYS:HD3	1.91	0.53
5:O:1194:LEU:HD21	5:O:1233:PRO:HB2	1.90	0.53
3:P:189:GLU:O	3:P:193:THR:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:370:ASP:HB2	3:P:371:LYS:NZ	2.24	0.53
6:X:315:LEU:HD12	6:X:323:TRP:NE1	2.23	0.53
6:X:331:ALA:HA	6:X:334:VAL:HG22	1.90	0.53
2:C:316:PHE:HD2	2:C:371:TYR:HE2	1.56	0.53
2:C:1117:MET:HE2	2:C:1118:ASN:HD21	1.73	0.53
2:C:1158:ASN:H	2:C:1181:MET:HE1	1.74	0.53
4:L:526:SER:O	4:L:530:SER:N	2.41	0.53
4:M:410:PHE:HA	4:M:413:TRP:CE2	2.44	0.53
5:O:93:LEU:HD12	5:O:96:GLU:HB2	1.91	0.53
5:O:581:VAL:HG23	5:O:582:VAL:H	1.74	0.53
5:O:768:ARG:HA	5:O:862:ASN:HD21	1.73	0.53
5:O:813:PHE:O	5:O:817:SER:HB3	2.09	0.53
6:X:43:MET:HE2	6:X:52:MET:HG3	1.90	0.53
1:B:258:TRP:HB3	1:B:374:ARG:HB2	1.89	0.53
1:B:298:GLU:HG3	1:B:1214:SER:N	2.24	0.53
1:B:842:ARG:HA	1:B:1003:GLN:HE21	1.74	0.53
2:C:721:TYR:N	2:C:737:GLU:O	2.42	0.53
4:K:228:LEU:HA	4:K:231:ARG:HG3	1.91	0.53
4:K:373:ILE:HG13	4:K:452:TYR:CE2	2.43	0.53
4:K:629:GLN:NE2	4:L:202:ASN:O	2.36	0.53
4:L:37:SER:O	4:L:41:LEU:HG	2.09	0.53
4:L:393:ASP:H	4:L:397:LYS:NZ	2.07	0.53
4:M:399:VAL:HG22	4:M:430:LEU:HD21	1.90	0.53
4:M:523:THR:O	4:M:526:SER:N	2.42	0.53
5:O:1145:ILE:N	5:O:1181:LEU:O	2.41	0.53
5:O:1198:ILE:HG13	5:O:1214:LEU:HD11	1.91	0.53
5:O:1240:VAL:HB	5:O:1248:CYS:H	1.73	0.53
6:X:120:ARG:HG2	6:X:124:GLU:OE1	2.09	0.53
6:Y:168:THR:HA	6:Y:252:PHE:CZ	2.43	0.53
6:Z:158:ASP:CG	6:Z:162:LYS:HG3	2.34	0.53
6:Z:168:THR:O	6:Z:172:LEU:HG	2.08	0.53
2:C:268:ILE:CG1	2:C:304:ILE:HG13	2.38	0.53
2:C:345:SER:OG	2:C:346:VAL:N	2.43	0.53
2:C:518:GLN:N	2:C:521:ARG:HH21	2.06	0.53
4:K:187:LYS:HD3	4:K:190:ILE:HD11	1.91	0.53
4:K:378:PHE:HD1	4:K:495:MET:SD	2.31	0.53
4:K:430:LEU:HD13	4:K:472:PHE:CZ	2.44	0.53
4:L:304:LEU:HA	4:L:514:VAL:HG13	1.90	0.53
4:L:514:VAL:HG12	4:L:517:GLU:H	1.74	0.53
4:M:47:PRO:C	4:M:66:MET:HG2	2.34	0.53
4:M:193:ARG:O	4:M:196:GLN:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:327:LYS:HE2	6:Y:334:VAL:HG11	1.90	0.53
4:M:399:VAL:HG12	4:M:472:PHE:HA	1.91	0.53
5:O:153:LEU:HD23	5:O:157:PHE:HE1	1.74	0.53
6:Y:102:PHE:HA	6:Y:105:GLN:NE2	2.24	0.53
6:Y:337:PRO:HD2	6:Y:340:LEU:HD11	1.91	0.53
1:B:293:GLN:HB3	1:B:405:ILE:HD11	1.92	0.52
1:B:377:GLY:HA3	1:B:393:SER:O	2.09	0.52
2:C:264:THR:O	2:C:309:ARG:HA	2.09	0.52
3:D:60:THR:HB	3:D:280:ASN:O	2.08	0.52
3:D:63:SER:HA	3:D:393:ARG:O	2.09	0.52
3:D:268:ARG:HB3	3:D:417:LEU:HD23	1.91	0.52
4:K:425:VAL:HG12	6:Z:61:LEU:O	2.09	0.52
4:M:169:THR:O	4:M:173:MET:HG3	2.09	0.52
4:M:346:GLN:HG3	4:M:360:ASN:HB3	1.91	0.52
5:O:415:SER:OG	5:O:416:ARG:NE	2.42	0.52
3:P:109:PRO:HA	3:P:112:LEU:HD12	1.91	0.52
3:P:139:PHE:HA	3:P:142:ARG:NE	2.22	0.52
6:X:74:ASN:ND2	6:X:77:ILE:HD11	2.23	0.52
6:X:248:ASP:OD2	6:X:347:THR:HA	2.09	0.52
6:Y:10:GLN:NE2	6:Y:46:GLY:O	2.42	0.52
1:B:1041:ALA:HB2	1:B:1146:TYR:CE1	2.44	0.52
1:B:1118:ASN:H	1:B:1122:PHE:HE2	1.56	0.52
2:C:371:TYR:H	2:C:462:ARG:NH2	2.07	0.52
2:C:650:MET:HG3	2:C:654:ASN:HD21	1.75	0.52
2:C:810:TYR:CD2	2:C:811:LEU:HD23	2.45	0.52
2:C:1197:GLN:NE2	2:C:1199:ILE:HB	2.24	0.52
3:D:81:ARG:NE	3:D:87:GLY:HA2	2.23	0.52
4:K:250:MET:HA	4:K:257:VAL:HB	1.92	0.52
4:K:395:ASN:HB2	4:K:432:ALA:HB3	1.92	0.52
4:K:573:ALA:O	4:K:577:LEU:HG	2.09	0.52
4:K:622:ASN:HD22	4:K:625:ILE:HD12	1.74	0.52
4:L:381:ASP:OD1	4:L:447:SER:HA	2.10	0.52
4:L:570:GLY:O	4:L:574:ILE:HG12	2.08	0.52
5:O:156:PHE:O	5:O:166:VAL:HG13	2.09	0.52
6:Z:244:THR:HB	6:Z:247:ARG:HG2	1.91	0.52
1:B:543:LEU:HD11	1:B:822:ILE:HD13	1.91	0.52
1:B:947:ARG:NH1	1:B:956:ARG:HH22	2.06	0.52
2:C:360:HIS:CG	2:C:363:LEU:HD23	2.44	0.52
2:C:949:LEU:HB3	2:C:952:ILE:HD12	1.91	0.52
2:C:1104:PHE:HE1	2:C:1126:PHE:HD1	1.58	0.52
4:K:123:GLU:HA	4:K:235:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:282:LYS:HG3	4:K:640:LEU:HD22	1.90	0.52
4:K:450:TYR:HD1	6:Z:62:GLN:HE22	1.57	0.52
5:O:426:TYR:HE2	5:O:429:ILE:HD11	1.73	0.52
5:O:511:SER:OG	5:O:572:GLN:N	2.26	0.52
3:P:137:PRO:HD2	3:P:138:ARG:NH1	2.23	0.52
6:X:172:LEU:HD23	6:X:173:MET:HG3	1.90	0.52
6:X:223:TYR:CD2	6:X:354:TYR:HB2	2.32	0.52
6:Y:26:TYR:HE2	6:Y:68:LEU:HB2	1.72	0.52
6:Y:331:ALA:C	6:Y:333:ILE:H	2.16	0.52
1:B:446:GLU:OE1	1:B:446:GLU:N	2.43	0.52
1:B:521:ARG:HH22	1:B:828:PHE:HA	1.75	0.52
1:B:811:LEU:HA	1:B:815:ALA:HB3	1.90	0.52
2:C:398:ASP:O	2:C:402:TRP:HD1	1.93	0.52
2:C:548:PRO:HD3	2:C:900:TRP:NE1	2.24	0.52
2:C:632:LEU:O	2:C:636:LEU:HG	2.10	0.52
2:C:851:ARG:HG3	2:C:997:LEU:HD11	1.90	0.52
2:C:1043:GLY:O	2:C:1144:TYR:HE1	1.91	0.52
4:K:19:VAL:HG12	4:K:248:GLN:HE21	1.75	0.52
4:K:34:LEU:HD22	4:M:279:LEU:HD21	1.92	0.52
4:K:345:PHE:N	4:K:360:ASN:OD1	2.42	0.52
4:K:639:SER:OG	4:L:31:VAL:N	2.42	0.52
4:L:377:ARG:HB3	4:L:496:SER:OG	2.10	0.52
4:L:410:PHE:HA	4:L:413:TRP:NE1	2.24	0.52
5:O:69:ASP:OD2	5:O:70:THR:N	2.42	0.52
5:O:80:ASP:O	5:O:83:GLU:HG3	2.09	0.52
5:O:181:ASP:N	5:O:184:ASP:OD2	2.35	0.52
5:O:602:CYS:O	5:O:606:THR:OG1	2.18	0.52
5:O:624:TRP:HA	5:O:627:ILE:HD12	1.92	0.52
5:O:1075:GLN:O	5:O:1091:MET:HB2	2.08	0.52
5:O:1192:LYS:HE3	5:O:1220:ILE:H	1.75	0.52
3:P:108:PRO:O	3:P:112:LEU:N	2.38	0.52
6:X:317:PRO:HG2	6:X:326:ARG:CZ	2.39	0.52
6:Y:51:CYS:SG	6:Y:53:HIS:N	2.74	0.52
2:C:604:VAL:HA	2:C:873:VAL:H	1.74	0.52
2:C:740:LEU:HD13	2:C:835:TYR:CD1	2.45	0.52
3:D:30:LEU:HD23	3:D:33:GLY:C	2.35	0.52
4:K:334:LEU:HB3	4:K:367:VAL:O	2.09	0.52
4:K:384:GLY:N	4:K:443:ILE:O	2.35	0.52
4:K:488:VAL:O	4:K:490:ASP:N	2.38	0.52
4:M:525:GLU:HA	4:M:528:ASN:ND2	2.25	0.52
5:O:13:LEU:HD22	5:O:311:GLY:C	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:616:ILE:C	5:O:651:LEU:HB2	2.35	0.52
5:O:824:VAL:HA	5:O:845:PRO:O	2.10	0.52
3:P:106:VAL:HG12	3:P:112:LEU:HD21	1.90	0.52
3:P:178:LEU:HB3	3:P:212:MET:HE3	1.92	0.52
3:P:408:GLY:O	3:P:411:SER:OG	2.12	0.52
6:Y:22:ARG:HH12	6:Y:96:LYS:HG3	1.74	0.52
6:Y:27:SER:HB2	6:Y:30:GLU:HB2	1.91	0.52
6:Z:10:GLN:H	6:Z:10:GLN:CD	2.10	0.52
1:B:257:THR:HG1	1:B:372:LEU:H	1.52	0.52
1:B:351:PRO:HA	1:B:354:PHE:CZ	2.44	0.52
1:B:527:ASN:ND2	1:B:871:VAL:HG13	2.24	0.52
1:B:647:LYS:O	1:B:651:THR:HG23	2.09	0.52
1:B:930:THR:O	1:B:934:LEU:HG	2.10	0.52
1:B:1210:PHE:HZ	1:B:1227:ILE:HG23	1.74	0.52
2:C:308:THR:OG1	2:C:322:VAL:N	2.33	0.52
2:C:351:PRO:HA	2:C:354:PHE:CZ	2.45	0.52
2:C:477:THR:HA	2:C:480:GLU:CD	2.35	0.52
2:C:1124:GLN:HB2	2:C:1125:GLN:NE2	2.25	0.52
4:K:300:ILE:HG13	4:K:312:PHE:CE1	2.44	0.52
4:K:349:VAL:HB	4:K:357:TRP:CD1	2.44	0.52
4:L:65:ARG:HE	4:L:99:PRO:HB3	1.73	0.52
4:L:376:MET:HB3	4:L:378:PHE:CZ	2.44	0.52
5:O:188:PHE:CD2	5:O:258:GLU:HG3	2.45	0.52
5:O:256:LEU:O	5:O:259:SER:OG	2.18	0.52
5:O:587:ASP:O	5:O:591:SER:OG	2.18	0.52
3:P:16:LEU:HG	3:P:18:ASN:H	1.75	0.52
3:P:152:LEU:HD21	3:P:319:TRP:CD2	2.44	0.52
6:X:208:ARG:HG2	6:X:287:LYS:HE2	1.90	0.52
6:X:315:LEU:HD12	6:X:323:TRP:HE1	1.74	0.52
6:Y:5:LEU:O	6:Y:314:ALA:HB1	2.10	0.52
6:Z:225:TYR:O	6:Z:228:LEU:HB2	2.09	0.52
1:B:325:ALA:HB2	1:B:331:ASN:HD21	1.75	0.52
1:B:649:PHE:HZ	1:B:702:LEU:HB2	1.72	0.52
1:B:673:ARG:HB3	1:B:678:PHE:CZ	2.44	0.52
1:B:1158:ASN:ND2	1:B:1160:TRP:HB2	2.25	0.52
2:C:607:VAL:O	2:C:608:ILE:HD13	2.09	0.52
2:C:942:GLN:HB2	2:C:995:THR:OG1	2.10	0.52
3:D:276:SER:O	3:D:279:TRP:NE1	2.42	0.52
4:K:498:LEU:HD23	4:L:606:ASP:OD2	2.09	0.52
4:M:67:THR:OG1	4:M:98:GLU:O	2.28	0.52
5:O:23:ARG:NH2	5:O:29:ASP:OD1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:1044:ILE:HB	5:O:1087:TRP:HB2	1.91	0.52
3:P:64:ARG:O	3:P:68:MET:HG3	2.10	0.52
3:P:127:CYS:SG	3:P:144:TYR:HE1	2.33	0.52
3:P:230:GLN:HG3	3:P:258:ASN:HD22	1.74	0.52
3:P:292:THR:HA	3:P:295:LEU:HG	1.92	0.52
6:X:121:VAL:HA	6:X:125:GLY:H	1.74	0.52
1:B:474:ILE:HB	1:B:505:MET:HE2	1.92	0.52
1:B:1062:PRO:HD2	1:B:1066:VAL:HG22	1.92	0.52
1:B:1187:ASP:HB2	2:C:1087:MET:HE1	1.91	0.52
2:C:1003:GLN:CD	2:C:1007:ARG:HB3	2.35	0.52
3:D:208:THR:HA	3:D:211:ARG:HE	1.75	0.52
3:D:263:ILE:HG13	3:D:264:ARG:H	1.74	0.52
3:D:274:PRO:HG2	3:D:279:TRP:CD1	2.45	0.52
4:K:214:SER:HA	4:K:217:LYS:HD2	1.91	0.52
4:L:400:GLY:HA2	4:L:427:TYR:HA	1.92	0.52
4:M:375:PRO:HG3	4:M:454:PRO:CD	2.40	0.52
4:M:539:MET:HE1	4:M:610:ILE:HD11	1.91	0.52
5:O:63:LEU:O	5:O:120:VAL:HG11	2.09	0.52
5:O:70:THR:HA	5:O:73:TYR:CG	2.45	0.52
5:O:219:GLY:O	5:O:235:LEU:HA	2.09	0.52
5:O:472:PHE:HD1	5:O:475:ALA:HB3	1.75	0.52
5:O:670:VAL:O	5:O:674:LEU:HG	2.10	0.52
3:P:81:ARG:H	3:P:84:HIS:CD2	2.27	0.52
6:X:85:VAL:HB	6:X:86:GLN:NE2	2.24	0.52
6:X:255:SER:H	6:X:276:LEU:HG	1.74	0.52
6:Y:263:PRO:HA	6:Y:268:MET:C	2.35	0.52
6:Z:121:VAL:HG13	6:Z:125:GLY:HA2	1.91	0.52
1:B:550:GLN:OE1	1:B:890:LYS:HB3	2.10	0.52
1:B:649:PHE:HA	1:B:652:LEU:HD12	1.92	0.52
2:C:601:ASN:OD1	2:C:833:VAL:N	2.33	0.52
2:C:928:VAL:HG12	2:C:984:LEU:HD23	1.92	0.52
4:K:65:ARG:NH2	4:M:258:MET:HG3	2.25	0.52
4:M:237:ALA:HA	4:M:249:TRP:HE1	1.74	0.52
5:O:28:HIS:HA	5:O:31:CYS:SG	2.49	0.52
5:O:142:MET:O	5:O:146:LEU:HG	2.09	0.52
5:O:650:GLU:C	5:O:651:LEU:HD12	2.35	0.52
5:O:1131:PRO:HD2	5:O:1143:VAL:HG13	1.92	0.52
3:P:156:THR:HG22	3:P:158:PHE:H	1.75	0.52
6:Y:65:LEU:HD12	6:Y:66:LYS:H	1.75	0.52
6:Z:44:VAL:HA	6:Z:49:VAL:HG12	1.92	0.52
1:B:465:TRP:CE2	1:B:469:LEU:HD11	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:753:PRO:HD3	1:B:896:VAL:HA	1.91	0.52
1:B:1108:TRP:HB2	1:B:1137:ILE:CD1	2.40	0.52
2:C:491:VAL:HG22	2:C:492:THR:H	1.74	0.52
2:C:599:LEU:C	2:C:832:GLN:HE21	2.17	0.52
2:C:810:TYR:HD2	2:C:811:LEU:HD23	1.75	0.52
2:C:905:ILE:HG13	2:C:909:TYR:CD2	2.45	0.52
3:D:370:ASP:HB2	3:D:371:LYS:NZ	2.25	0.52
4:L:56:SER:OG	4:L:59:SER:OG	2.25	0.52
4:L:244:ASN:OD1	4:L:247:ILE:N	2.24	0.52
4:L:405:GLN:N	4:L:421:GLN:O	2.38	0.52
4:M:47:PRO:HB2	4:M:66:MET:HG3	1.91	0.52
4:M:137:TYR:HB2	4:M:174:TYR:HE2	1.75	0.52
4:M:622:ASN:O	4:M:625:ILE:HB	2.10	0.52
4:M:661:THR:O	4:M:664:PHE:HB2	2.09	0.52
5:O:850:ASP:HA	5:O:872:TYR:CD1	2.45	0.52
3:P:75:THR:HB	3:P:96:TRP:CH2	2.44	0.52
3:P:86:TRP:HD1	3:P:130:TYR:OH	1.93	0.52
6:X:186:ARG:NH2	6:X:245:PRO:HA	2.25	0.52
6:X:271:VAL:O	6:X:282:MET:HA	2.10	0.52
6:Z:9:HIS:CE1	6:Z:10:GLN:HG3	2.45	0.52
6:Z:25:ILE:HG13	6:Z:43:MET:HE1	1.91	0.52
1:B:560:MET:HE2	1:B:574:ALA:HA	1.92	0.51
1:B:880:ARG:O	1:B:883:THR:OG1	2.23	0.51
1:B:914:VAL:HA	1:B:917:ASN:ND2	2.25	0.51
1:B:1034:GLU:OE1	1:B:1207:ARG:NH1	2.43	0.51
2:C:275:GLN:NE2	2:C:278:GLN:OE1	2.43	0.51
2:C:374:ARG:H	2:C:1259:ARG:NH2	2.08	0.51
2:C:606:THR:OG1	2:C:640:THR:N	2.34	0.51
2:C:635:ALA:HA	2:C:638:LEU:HD13	1.92	0.51
2:C:643:CYS:SG	2:C:684:TRP:NE1	2.83	0.51
2:C:982:MET:HA	2:C:985:GLU:CD	2.35	0.51
2:C:997:LEU:O	2:C:1012:ILE:HG23	2.10	0.51
3:D:207:GLY:C	3:D:211:ARG:HE	2.18	0.51
3:D:253:LEU:HD12	3:D:254:SER:H	1.75	0.51
4:K:179:GLN:HA	4:K:182:LEU:HG	1.92	0.51
4:M:506:LYS:HD2	6:Y:316:GLY:CA	2.39	0.51
5:O:584:GLY:N	5:O:587:ASP:OD2	2.40	0.51
5:O:1026:LEU:HD12	5:O:1027:PRO:HD2	1.91	0.51
5:O:1034:PHE:HB3	5:O:1119:VAL:HA	1.92	0.51
5:O:1064:SER:HB3	5:O:1066:GLU:HG2	1.92	0.51
5:O:1258:PRO:HD2	5:O:1261:TRP:CE3	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:172:SER:HB2	3:P:175:VAL:HG23	1.92	0.51
6:X:315:LEU:HB3	6:X:323:TRP:HD1	1.75	0.51
6:Z:66:LYS:HG3	6:Z:67:HIS:ND1	2.25	0.51
6:Z:132:ASN:HB3	6:Z:135:GLN:CD	2.35	0.51
6:Z:261:THR:OG1	6:Z:262:THR:N	2.42	0.51
1:B:258:TRP:CE3	1:B:374:ARG:HD3	2.45	0.51
1:B:295:PRO:HG2	1:B:408:PRO:HB3	1.91	0.51
1:B:746:GLN:NE2	5:O:154:SER:OG	2.43	0.51
1:B:1106:GLY:O	1:B:1135:LEU:HD12	2.10	0.51
1:B:1233:ASN:HA	1:B:1236:THR:OG1	2.11	0.51
2:C:276:VAL:O	2:C:278:GLN:NE2	2.43	0.51
2:C:288:SER:OG	2:C:289:SER:N	2.43	0.51
2:C:772:MET:O	2:C:775:LEU:HB3	2.11	0.51
4:K:19:VAL:HB	4:K:248:GLN:HB2	1.92	0.51
4:L:620:ASP:OD2	4:L:623:ASN:N	2.40	0.51
4:M:390:THR:OG1	4:M:391:SER:N	2.43	0.51
5:O:268:VAL:HG12	5:O:269:ARG:HD3	1.92	0.51
5:O:271:ARG:HB3	5:O:274:GLN:OE1	2.10	0.51
5:O:625:HIS:O	5:O:629:GLN:HG2	2.10	0.51
5:O:647:ASN:HD21	5:O:684:LEU:HB2	1.75	0.51
5:O:809:MET:HA	5:O:812:ASN:ND2	2.25	0.51
5:O:1077:SER:O	5:O:1077:SER:OG	2.28	0.51
6:Y:236:ARG:HD2	6:Y:239:ARG:NE	2.23	0.51
6:Z:251:HIS:CG	6:Z:254:LEU:HD12	2.46	0.51
6:Z:252:PHE:HE2	6:Z:275:MET:HE2	1.75	0.51
1:B:1213:ASN:HB2	1:B:1219:THR:OG1	2.10	0.51
3:D:123:ARG:HB3	3:D:125:TYR:CZ	2.44	0.51
3:D:212:MET:O	3:D:215:ILE:HB	2.11	0.51
4:K:288:GLN:O	4:K:292:LEU:HG	2.08	0.51
4:K:563:PRO:HB3	4:L:194:VAL:HG12	1.92	0.51
4:L:303:SER:O	4:L:515:PRO:HD2	2.11	0.51
4:L:405:GLN:NE2	4:L:422:ALA:HA	2.26	0.51
4:L:621:LYS:O	4:L:624:TRP:HB3	2.11	0.51
4:M:293:VAL:HG11	4:M:635:LEU:HD12	1.91	0.51
5:O:316:ARG:HH22	5:O:784:ALA:HA	1.74	0.51
5:O:1074:PRO:HG2	5:O:1093:PHE:C	2.34	0.51
6:X:188:PRO:HG2	6:X:343:PHE:CZ	2.46	0.51
6:Z:74:ASN:OD1	6:Z:75:GLN:N	2.43	0.51
1:B:1047:ILE:HA	1:B:1199:ILE:HG12	1.92	0.51
2:C:641:ASP:OD2	2:C:644:ALA:N	2.42	0.51
2:C:680:THR:O	2:C:684:TRP:NE1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:818:GLU:O	2:C:822:ILE:HG13	2.11	0.51
2:C:1076:ILE:HD13	2:C:1109:ILE:HG22	1.93	0.51
2:C:1077:PHE:HA	2:C:1097:GLU:OE2	2.10	0.51
2:C:1146:TYR:HB2	2:C:1180:PHE:CE1	2.39	0.51
3:D:98:ALA:O	3:D:101:LEU:HD23	2.09	0.51
3:D:342:ARG:NH1	3:D:345:ARG:HD3	2.25	0.51
4:L:615:ALA:CB	4:L:618:LEU:HB2	2.39	0.51
4:M:229:ILE:C	4:M:232:TYR:H	2.19	0.51
4:M:376:MET:HE3	4:M:497:PRO:HA	1.92	0.51
4:M:382:LEU:HG	4:M:443:ILE:HD13	1.93	0.51
5:O:352:GLN:NE2	5:O:372:LYS:HG2	2.24	0.51
5:O:468:GLY:O	5:O:471:LEU:HB3	2.09	0.51
5:O:550:PHE:HA	5:O:554:VAL:HG11	1.91	0.51
5:O:1080:PHE:HB2	5:O:1087:TRP:CH2	2.45	0.51
6:X:84:ASP:OD1	6:X:85:VAL:N	2.43	0.51
6:Y:25:ILE:HD12	6:Y:40:PRO:HG3	1.93	0.51
1:B:334:LEU:HB2	1:B:335:PHE:CD1	2.45	0.51
1:B:723:ALA:HB3	1:B:726:VAL:HG22	1.93	0.51
2:C:459:VAL:HG11	2:C:1257:VAL:HG22	1.92	0.51
2:C:656:MET:HG3	2:C:660:GLU:HB2	1.91	0.51
2:C:656:MET:SD	2:C:659:PHE:HB2	2.51	0.51
2:C:796:THR:O	2:C:800:LEU:HG	2.11	0.51
2:C:931:LEU:O	2:C:935:VAL:HG23	2.11	0.51
2:C:1037:LEU:HB2	2:C:1038:PHE:CE1	2.44	0.51
4:K:178:ILE:O	4:K:182:LEU:HG	2.11	0.51
4:K:388:LYS:HZ3	4:K:394:PRO:HD2	1.73	0.51
4:K:522:TYR:N	4:K:611:ILE:O	2.44	0.51
4:L:13:VAL:HG23	4:L:249:TRP:HH2	1.74	0.51
4:L:64:ARG:NH1	4:L:65:ARG:O	2.44	0.51
4:L:339:LYS:HD3	4:L:340:THR:OG1	2.10	0.51
4:L:618:LEU:H	4:L:618:LEU:HD12	1.76	0.51
5:O:716:PHE:CE2	5:O:781:GLU:HA	2.46	0.51
5:O:811:TYR:HD1	5:O:889:MET:HE3	1.76	0.51
5:O:1033:ASN:HD21	5:O:1038:GLN:HB3	1.76	0.51
3:P:55:SER:N	3:P:58:VAL:O	2.42	0.51
3:P:168:GLU:OE1	3:P:171:TRP:HB2	2.10	0.51
3:P:276:SER:HB3	3:P:331:GLN:HG2	1.93	0.51
6:X:117:ASP:O	6:X:121:VAL:HG23	2.10	0.51
6:X:318:GLY:O	6:X:322:GLY:N	2.43	0.51
6:Y:204:THR:HG23	6:Y:218:TRP:CD2	2.46	0.51
1:B:433:ARG:HA	1:B:450:VAL:HG22	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:505:MET:HB2	1:B:507:TYR:CE1	2.45	0.51
1:B:629:PHE:CZ	1:B:652:LEU:HD21	2.46	0.51
1:B:631:ILE:HG23	1:B:883:THR:HG21	1.93	0.51
1:B:1031:PHE:CZ	1:B:1035:TYR:HA	2.46	0.51
1:B:1044:ASP:OD2	1:B:1140:GLU:HG2	2.10	0.51
2:C:405:ILE:O	2:C:408:PRO:HD3	2.11	0.51
2:C:765:ARG:NE	2:C:769:CYS:SG	2.84	0.51
2:C:856:THR:HA	3:P:348:VAL:C	2.36	0.51
2:C:1085:PHE:HA	2:C:1092:PRO:CA	2.41	0.51
3:D:169:ASP:OD1	3:D:169:ASP:N	2.38	0.51
4:K:657:ILE:O	4:K:661:THR:HG23	2.10	0.51
4:L:51:ILE:HG23	4:L:52:GLY:H	1.74	0.51
4:M:534:ASP:HB2	4:M:537:ARG:NH1	2.25	0.51
5:O:482:SER:HA	5:O:485:LYS:HD3	1.93	0.51
5:O:511:SER:OG	5:O:572:GLN:NE2	2.42	0.51
5:O:927:ASN:HB3	5:O:949:TYR:HE1	1.76	0.51
3:P:136:ASP:C	3:P:140:LYS:HZ1	2.19	0.51
3:P:187:PHE:HE2	3:P:284:ASN:HD22	1.59	0.51
6:Y:280:CYS:SG	6:Y:281:LYS:N	2.84	0.51
6:Z:7:ASN:OD1	6:Z:8:GLY:N	2.41	0.51
6:Z:50:VAL:HG22	6:Z:57:VAL:HA	1.93	0.51
6:Z:137:ASP:O	6:Z:140:SER:OG	2.23	0.51
6:Z:257:TYR:HA	6:Z:342:MET:HG3	1.92	0.51
3:D:80:PHE:HA	3:D:84:HIS:NE2	2.26	0.51
3:D:90:ARG:O	3:D:117:LEU:HD12	2.11	0.51
3:D:173:GLY:HA2	3:D:176:ASN:OD1	2.11	0.51
3:D:210:ALA:HB1	3:D:214:GLN:HE22	1.75	0.51
3:D:410:THR:O	3:D:414:ILE:HG13	2.10	0.51
4:K:145:ASP:HA	4:K:161:LYS:HA	1.92	0.51
4:K:406:SER:HB2	4:K:420:GLY:HA3	1.92	0.51
4:K:515:PRO:HA	4:K:518:LEU:HG	1.92	0.51
4:L:159:PHE:CZ	4:L:161:LYS:HD2	2.46	0.51
4:L:468:LEU:HD12	4:L:469:LEU:H	1.75	0.51
4:L:615:ALA:O	4:L:619:SER:N	2.44	0.51
4:M:38:PRO:HA	4:M:41:LEU:HD12	1.92	0.51
4:M:334:LEU:HD11	4:M:489:TRP:HZ3	1.76	0.51
5:O:200:TYR:HE1	5:O:229:ASN:HB3	1.76	0.51
5:O:1211:GLN:HE21	5:O:1212:HIS:H	1.58	0.51
6:X:104:CYS:HA	6:X:166:TYR:CZ	2.46	0.51
6:Y:158:ASP:OD2	6:Y:162:LYS:HG3	2.11	0.51
6:Y:180:VAL:O	6:Y:363:ILE:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:114:SER:OG	6:Z:116:GLU:HG2	2.11	0.51
6:Z:244:THR:HG22	6:Z:246:ALA:H	1.76	0.51
1:B:1210:PHE:CE1	1:B:1228:PRO:HD2	2.46	0.51
2:C:480:GLU:HA	2:C:483:LEU:HD12	1.93	0.51
2:C:670:THR:H	2:C:673:ARG:HD3	1.75	0.51
3:D:66:TYR:CD1	3:D:394:THR:HA	2.45	0.51
3:D:238:TYR:HE1	3:D:240:GLN:NE2	2.09	0.51
4:K:153:ARG:O	4:K:156:LEU:HB3	2.11	0.51
4:K:348:GLN:HG2	4:K:358:HIS:CD2	2.46	0.51
4:M:376:MET:HB3	4:M:495:MET:SD	2.51	0.51
5:O:457:PRO:HB2	5:O:459:THR:HG23	1.92	0.51
5:O:1042:LEU:N	5:O:1090:ASP:OD1	2.43	0.51
3:P:316:ILE:O	3:P:320:THR:N	2.43	0.51
6:X:54:CYS:HB3	6:X:73:CYS:HB3	1.93	0.51
6:X:105:GLN:O	6:X:109:MET:HG2	2.11	0.51
6:Y:111:ASN:HB3	6:Y:173:MET:HE1	1.93	0.51
6:Z:235:GLY:C	6:Z:239:ARG:HG3	2.36	0.51
1:B:303:ARG:HA	1:B:1210:PHE:HB3	1.93	0.51
1:B:657:VAL:C	1:B:659:PHE:H	2.19	0.51
1:B:847:VAL:O	1:B:870:THR:OG1	2.22	0.51
2:C:798:ASP:HA	2:C:801:LYS:HD3	1.92	0.51
3:D:208:THR:N	3:D:211:ARG:HH21	2.09	0.51
4:K:150:VAL:HG23	4:M:119:GLU:HG2	1.93	0.51
4:K:632:LYS:HE3	4:L:202:ASN:HD22	1.75	0.51
4:K:639:SER:OG	4:L:30:ALA:HB1	2.10	0.51
4:L:233:PRO:O	4:L:236:ALA:HB3	2.11	0.51
4:L:350:THR:HG22	4:L:351:ASP:H	1.75	0.51
4:M:392:TRP:HE3	6:X:278:GLY:HA3	1.76	0.51
4:M:406:SER:OG	4:M:407:LYS:N	2.44	0.51
5:O:303:VAL:HG12	5:O:307:LEU:HD11	1.93	0.51
5:O:616:ILE:HD11	5:O:653:PHE:HB3	1.92	0.51
5:O:739:LYS:HZ3	5:O:756:SER:HA	1.75	0.51
5:O:1257:LEU:HD13	5:O:1277:TYR:CE1	2.46	0.51
6:Y:337:PRO:O	6:Y:340:LEU:HG	2.10	0.51
6:Z:79:HIS:CE1	6:Z:83:VAL:HA	2.45	0.51
1:B:256:VAL:HA	1:B:372:LEU:CD1	2.39	0.51
1:B:581:LEU:HD23	1:B:583:PRO:HG3	1.92	0.51
1:B:708:ILE:HD13	1:B:712:TYR:HE1	1.76	0.51
1:B:970:ASN:HA	1:B:973:MET:CE	2.40	0.51
2:C:480:GLU:HB3	2:C:495:SER:HB2	1.92	0.51
2:C:510:SER:OG	2:C:513:GLU:OE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:718:GLN:CB	2:C:738:VAL:HG13	2.39	0.51
2:C:721:TYR:CG	2:C:722:GLY:N	2.78	0.51
2:C:999:ILE:N	2:C:1010:ASN:OD1	2.44	0.51
2:C:1212:THR:HG23	2:C:1225:LYS:HB3	1.93	0.51
3:D:206:ASP:OD1	3:D:206:ASP:N	2.43	0.51
3:D:239:PHE:CZ	3:D:253:LEU:HB2	2.46	0.51
4:K:151:SER:H	4:K:154:GLN:HE21	1.58	0.51
4:K:321:TYR:HE1	4:K:532:PRO:HG3	1.76	0.51
4:K:532:PRO:HA	4:K:537:ARG:NH1	2.25	0.51
4:L:265:VAL:O	4:L:268:SER:OG	2.17	0.51
4:L:351:ASP:OD1	4:L:355:THR:N	2.30	0.51
4:L:401:PHE:HB2	4:L:426:ASN:HB3	1.93	0.51
4:L:522:TYR:N	4:L:612:THR:HA	2.24	0.51
4:L:527:LEU:HA	4:L:530:SER:OG	2.11	0.51
4:M:168:PRO:O	4:M:172:THR:HG23	2.11	0.51
5:O:430:TRP:HB3	5:O:476:ARG:HG3	1.93	0.51
5:O:836:ILE:HG23	5:O:837:LEU:HD22	1.93	0.51
6:X:182:ASN:HB3	6:X:362:MET:O	2.11	0.51
6:X:227:GLU:HA	6:X:230:HIS:CG	2.46	0.51
6:X:298:LEU:O	6:X:302:VAL:HG22	2.10	0.51
6:Y:238:TYR:CZ	6:Y:242:LEU:HB2	2.46	0.51
1:B:355:ARG:NH2	1:B:952:ILE:O	2.44	0.50
1:B:437:ALA:HB2	1:B:447:TRP:NE1	2.27	0.50
1:B:1112:LEU:HD11	1:B:1170:ILE:HG12	1.93	0.50
2:C:1067:PHE:CE2	2:C:1107:ASN:HB3	2.46	0.50
2:C:1148:LEU:HA	2:C:1180:PHE:HB2	1.92	0.50
3:D:369:ARG:NH1	3:D:370:ASP:OD1	2.44	0.50
4:K:609:THR:O	4:K:612:THR:N	2.44	0.50
4:L:15:GLY:O	4:L:18:ASN:ND2	2.44	0.50
4:L:105:GLU:HA	4:L:108:ILE:HG13	1.93	0.50
4:L:300:ILE:H	4:M:650:LYS:HZ3	1.60	0.50
4:M:19:VAL:HG22	4:M:250:MET:HE2	1.92	0.50
4:M:152:ALA:HB3	4:M:153:ARG:HH11	1.77	0.50
4:M:233:PRO:HD2	4:M:234:LYS:NZ	2.26	0.50
4:M:402:ILE:O	4:M:468:LEU:HD12	2.11	0.50
5:O:197:LYS:HB3	5:O:199:PHE:CZ	2.46	0.50
5:O:240:GLN:CD	5:O:248:ILE:HB	2.36	0.50
5:O:405:ALA:HB3	5:O:772:LEU:HB2	1.93	0.50
5:O:485:LYS:O	5:O:489:VAL:HG13	2.10	0.50
5:O:573:PHE:CE2	5:O:575:TYR:HB2	2.46	0.50
5:O:634:ASN:HA	5:O:661:HIS:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:693:SER:OG	5:O:696:TYR:HB3	2.11	0.50
5:O:1242:GLU:OE1	5:O:1243:SER:OG	2.22	0.50
3:P:47:SER:C	3:P:49:GLY:H	2.18	0.50
6:Y:86:GLN:CD	6:Y:86:GLN:N	2.69	0.50
6:Z:39:GLN:NE2	6:Z:79:HIS:HD2	2.09	0.50
6:Z:205:GLN:OE1	6:Z:205:GLN:N	2.45	0.50
1:B:473:ASN:HA	1:B:505:MET:O	2.10	0.50
1:B:650:MET:O	1:B:654:ASN:ND2	2.45	0.50
2:C:435:ASP:OD2	2:C:436:ARG:N	2.39	0.50
2:C:549:LEU:HD13	2:C:891:TYR:CZ	2.47	0.50
2:C:715:ASN:HB2	2:C:744:ASP:OD1	2.11	0.50
2:C:726:VAL:HG13	2:C:727:PHE:H	1.75	0.50
2:C:842:ARG:O	2:C:1003:GLN:HG2	2.11	0.50
2:C:1228:PRO:HB3	2:C:1231:ARG:HH11	1.75	0.50
2:C:1233:ASN:HB3	2:C:1244:GLN:NE2	2.23	0.50
3:D:274:PRO:HB2	3:D:278:ASP:OD2	2.11	0.50
3:D:360:LEU:CA	3:D:363:GLN:HE21	2.16	0.50
4:K:351:ASP:OD1	4:K:354:GLY:N	2.45	0.50
4:K:403:VAL:HG12	4:K:423:THR:O	2.10	0.50
4:K:493:LEU:HB2	4:K:495:MET:HE3	1.92	0.50
4:K:543:ALA:HA	4:K:546:ILE:HG22	1.93	0.50
4:K:655:GLU:O	4:K:659:ASN:ND2	2.45	0.50
4:L:634:SER:HB2	4:M:193:ARG:NH2	2.26	0.50
4:M:243:ARG:C	4:M:261:ALA:HB2	2.36	0.50
4:M:344:LEU:HD11	4:M:360:ASN:HD22	1.75	0.50
5:O:172:TYR:CD1	5:O:187:LEU:HD22	2.46	0.50
5:O:491:LYS:O	5:O:494:TYR:HB2	2.11	0.50
5:O:783:GLN:HE22	5:O:785:ARG:HH21	1.59	0.50
3:P:55:SER:OG	3:P:58:VAL:N	2.35	0.50
3:P:174:ASP:O	3:P:177:GLN:HB3	2.11	0.50
3:P:185:HIS:C	3:P:252:ILE:HG13	2.36	0.50
3:P:197:ALA:HB3	3:P:203:TRP:HZ2	1.76	0.50
3:P:291:LEU:O	3:P:295:LEU:HG	2.12	0.50
6:X:78:ARG:HB3	6:X:80:GLN:HG2	1.93	0.50
6:X:193:ASN:HD22	6:X:197:LEU:HD13	1.76	0.50
6:X:211:ASP:HB3	6:X:213:ARG:HH21	1.77	0.50
6:Y:203:GLN:O	6:Y:205:GLN:NE2	2.39	0.50
6:Z:86:GLN:HA	6:Z:89:ASP:HB2	1.93	0.50
6:Z:270:ALA:HA	6:Z:284:PRO:HA	1.93	0.50
1:B:512:ALA:HA	1:B:515:GLN:NE2	2.25	0.50
1:B:520:ILE:HA	1:B:523:MET:CG	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:310:TRP:CD1	2:C:310:TRP:H	2.30	0.50
2:C:836:VAL:HG11	2:C:844:PRO:HD2	1.93	0.50
2:C:841:ASP:HB3	2:C:1005:ASN:HB3	1.94	0.50
3:D:6:PHE:HA	3:D:144:TYR:CE1	2.47	0.50
4:K:20:PHE:HD1	4:K:247:ILE:HD13	1.77	0.50
4:K:632:LYS:O	4:K:636:ARG:HD2	2.12	0.50
4:L:367:VAL:HG21	4:L:467:TYR:HB3	1.93	0.50
4:M:37:SER:O	4:M:41:LEU:HG	2.12	0.50
4:M:546:ILE:HD11	4:M:631:VAL:HG21	1.94	0.50
5:O:719:MET:HE1	5:O:722:ALA:H	1.76	0.50
5:O:1153:LEU:HA	5:O:1201:VAL:H	1.76	0.50
5:O:1242:GLU:HB2	5:O:1284:TYR:CD1	2.46	0.50
3:P:3:ARG:HH21	3:P:300:GLN:HA	1.76	0.50
3:P:282:ASP:OD1	3:P:284:ASN:N	2.43	0.50
3:P:342:ARG:HA	3:P:345:ARG:HE	1.77	0.50
3:P:353:GLN:O	3:P:356:GLN:HG2	2.11	0.50
6:Y:109:MET:HE3	6:Y:131:LEU:HG	1.92	0.50
1:B:307:HIS:ND1	1:B:310:TRP:CD1	2.79	0.50
1:B:335:PHE:CD1	1:B:335:PHE:N	2.78	0.50
1:B:457:LEU:O	1:B:460:SER:OG	2.22	0.50
1:B:646:VAL:HG22	1:B:688:PHE:CZ	2.45	0.50
1:B:852:GLN:HA	1:B:996:GLN:HG2	1.93	0.50
1:B:1035:TYR:HB2	1:B:1040:ILE:HB	1.93	0.50
1:B:1113:ALA:HA	1:B:1116:GLN:CD	2.36	0.50
2:C:1034:GLU:HB3	2:C:1037:LEU:HD12	1.94	0.50
2:C:1158:ASN:HD21	2:C:1160:TRP:CB	2.24	0.50
3:D:152:LEU:HA	3:D:155:LEU:HD12	1.93	0.50
4:K:237:ALA:HA	4:K:240:LEU:HD12	1.93	0.50
4:K:465:ASN:HB3	4:K:467:TYR:CE1	2.46	0.50
4:L:297:GLU:HB2	4:L:542:ARG:HH21	1.76	0.50
4:M:578:GLU:C	4:M:584:ARG:HH12	2.19	0.50
4:M:579:THR:HG22	4:M:584:ARG:HB3	1.93	0.50
4:M:617:VAL:C	4:M:619:SER:H	2.18	0.50
5:O:1133:GLN:HE21	5:O:1134:LEU:C	2.20	0.50
3:P:272:VAL:HA	3:P:328:HIS:HB2	1.93	0.50
6:X:167:TRP:CE3	6:X:170:LEU:HD12	2.46	0.50
6:Y:10:GLN:HA	6:Y:46:GLY:HA3	1.92	0.50
6:Y:281:LYS:HG2	6:Y:283:TYR:CE1	2.47	0.50
6:Z:43:MET:HG2	6:Z:52:MET:SD	2.51	0.50
6:Z:101:SER:HA	6:Z:104:CYS:SG	2.50	0.50
6:Z:315:LEU:HG	6:Z:320:MET:SD	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:591:PHE:H	1:B:592:ARG:NH1	2.10	0.50
1:B:706:ALA:HB1	1:B:710:HIS:CE1	2.46	0.50
1:B:942:GLN:HE21	1:B:994:MET:HE2	1.77	0.50
2:C:354:PHE:O	2:C:358:VAL:HG23	2.11	0.50
2:C:402:TRP:HA	2:C:405:ILE:HD12	1.93	0.50
2:C:465:TRP:CZ2	2:C:469:LEU:HD11	2.46	0.50
3:D:133:LEU:HD12	3:D:140:LYS:HB2	1.92	0.50
4:K:202:ASN:HD22	4:M:633:THR:HB	1.76	0.50
4:K:407:LYS:NZ	4:K:463:GLU:OE2	2.43	0.50
4:L:404:PHE:O	4:L:466:TYR:HA	2.10	0.50
4:L:468:LEU:HG	4:L:489:TRP:CH2	2.47	0.50
4:L:622:ASN:HA	4:L:625:ILE:HD12	1.94	0.50
4:M:595:ILE:N	4:M:598:ARG:HH21	2.10	0.50
5:O:153:LEU:HD23	5:O:157:PHE:CE1	2.46	0.50
5:O:224:TYR:HD2	5:O:369:TYR:OH	1.95	0.50
5:O:302:GLY:O	5:O:305:SER:HB3	2.11	0.50
5:O:316:ARG:NH2	5:O:784:ALA:HA	2.27	0.50
5:O:329:SER:O	5:O:333:GLN:HG2	2.12	0.50
5:O:518:SER:OG	5:O:526:GLN:N	2.44	0.50
5:O:640:LEU:HG	5:O:653:PHE:HB2	1.94	0.50
5:O:943:ASP:O	5:O:947:LYS:HA	2.11	0.50
5:O:1034:PHE:HB3	5:O:1119:VAL:HG22	1.92	0.50
3:P:350:THR:N	3:P:353:GLN:OE1	2.44	0.50
3:P:367:PHE:O	3:P:371:LYS:NZ	2.33	0.50
6:Y:8:GLY:HA3	6:Y:323:TRP:HE1	1.76	0.50
6:Y:290:ALA:O	6:Y:294:THR:HG23	2.11	0.50
6:Z:109:MET:HE2	6:Z:131:LEU:HD13	1.94	0.50
1:B:690:ASN:CG	1:B:693:LEU:HG	2.37	0.50
1:B:898:ASN:OD1	1:B:899:VAL:N	2.43	0.50
2:C:355:ARG:HH12	2:C:947:ARG:HH21	1.59	0.50
2:C:790:VAL:HG23	2:C:791:SER:H	1.76	0.50
3:D:241:CYS:HB2	3:D:251:TRP:CE3	2.47	0.50
4:K:358:HIS:HB2	4:K:476:ALA:O	2.12	0.50
4:K:409:PRO:HB2	4:K:412:LEU:HG	1.94	0.50
4:K:426:ASN:ND2	6:Z:61:LEU:HB2	2.27	0.50
4:K:621:LYS:O	4:K:625:ILE:HG13	2.12	0.50
5:O:122:ALA:O	5:O:125:SER:OG	2.29	0.50
5:O:200:TYR:CD1	5:O:232:HIS:HB3	2.46	0.50
5:O:743:ILE:O	5:O:787:ILE:N	2.27	0.50
5:O:1007:ARG:HA	5:O:1010:GLU:HB2	1.94	0.50
5:O:1029:GLU:OE1	5:O:1029:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:1181:LEU:HD12	5:O:1182:VAL:N	2.26	0.50
5:O:1215:GLN:HE22	5:O:1216:LEU:HG	1.75	0.50
3:P:46:ILE:HG13	3:P:48:LEU:H	1.75	0.50
3:P:75:THR:HB	3:P:96:TRP:CZ2	2.47	0.50
3:P:225:VAL:C	3:P:339:PHE:HD1	2.19	0.50
3:P:397:PHE:HE2	3:P:402:TRP:HE1	1.60	0.50
6:X:24:SER:HA	6:X:34:LYS:HE3	1.93	0.50
6:Y:71:HIS:CG	6:Y:72:ARG:N	2.78	0.50
6:Y:105:GLN:HE22	6:Y:136:VAL:HG13	1.76	0.50
6:Z:86:GLN:H	6:Z:86:GLN:CD	2.18	0.50
1:B:270:PRO:HG3	1:B:297:PRO:HG2	1.92	0.50
1:B:318:ARG:HB2	1:B:371:TYR:CZ	2.47	0.50
1:B:1107:ASN:OD1	1:B:1136:ARG:HD3	2.12	0.50
1:B:1115:TRP:HA	1:B:1122:PHE:CE1	2.46	0.50
2:C:406:MET:HE3	2:C:452:GLU:HB2	1.92	0.50
2:C:525:ILE:HG12	2:C:532:ILE:HD11	1.94	0.50
2:C:759:ASN:O	2:C:762:THR:OG1	2.20	0.50
2:C:1119:THR:HA	2:C:1122:PHE:HD1	1.76	0.50
3:D:295:LEU:O	3:D:298:GLY:N	2.45	0.50
3:D:372:LEU:HD13	3:D:375:TRP:CE3	2.47	0.50
4:K:136:LYS:HB3	4:K:139:ASP:OD2	2.10	0.50
4:K:563:PRO:HB2	4:L:197:THR:HG21	1.93	0.50
4:L:334:LEU:HB3	4:L:366:ARG:HH22	1.76	0.50
4:M:190:ILE:HA	4:M:193:ARG:HG3	1.94	0.50
5:O:93:LEU:HA	5:O:96:GLU:CD	2.37	0.50
5:O:246:PRO:HD2	5:O:247:TYR:CE1	2.46	0.50
5:O:583:ASP:C	5:O:587:ASP:HB2	2.37	0.50
5:O:708:THR:HA	5:O:754:ILE:O	2.11	0.50
5:O:1052:VAL:HG12	5:O:1053:PHE:N	2.27	0.50
5:O:1198:ILE:HG13	5:O:1214:LEU:HD21	1.93	0.50
3:P:176:ASN:O	3:P:179:LEU:HB3	2.12	0.50
6:X:40:PRO:HG2	6:X:82:TYR:HE2	1.76	0.50
6:X:54:CYS:HB3	6:X:73:CYS:CB	2.42	0.50
6:Y:211:ASP:OD2	6:Y:211:ASP:N	2.44	0.50
6:Z:116:GLU:HG3	6:Z:117:ASP:N	2.26	0.50
6:Z:154:GLN:O	6:Z:156:VAL:HG13	2.12	0.50
6:Z:249:PHE:HB2	6:Z:259:ARG:NH2	2.18	0.50
1:B:350:ASN:HB3	1:B:353:MET:SD	2.51	0.50
1:B:439:MET:HG2	2:C:862:LEU:H	1.77	0.50
1:B:518:GLN:O	1:B:521:ARG:HB2	2.11	0.50
2:C:392:ARG:HG2	2:C:393:SER:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:780:ARG:HG3	2:C:780:ARG:O	2.12	0.50
2:C:1015:MET:HG3	2:C:1016:PRO:O	2.12	0.50
3:D:365:GLN:HA	3:D:368:LYS:HE2	1.93	0.50
4:K:569:GLN:HB2	4:K:592:LEU:HB3	1.92	0.50
4:L:664:PHE:O	4:L:668:VAL:HG23	2.12	0.50
4:M:213:GLN:O	4:M:217:LYS:HG3	2.11	0.50
4:M:425:VAL:HG21	4:M:450:TYR:CD1	2.47	0.50
4:M:581:TYR:HE1	6:Y:75:GLN:HE21	1.60	0.50
5:O:43:TRP:CD1	5:O:45:PRO:HD3	2.43	0.50
5:O:212:TRP:CG	3:P:138:ARG:HD2	2.47	0.50
5:O:248:ILE:C	5:O:249:ILE:HG13	2.37	0.50
5:O:396:TRP:CH2	5:O:398:PRO:HA	2.47	0.50
5:O:403:ASP:CG	5:O:404:GLN:H	2.18	0.50
5:O:481:ARG:HD3	5:O:481:ARG:N	2.27	0.50
3:P:48:LEU:HB3	3:P:50:ARG:HD2	1.94	0.50
6:X:200:ASP:O	6:X:203:GLN:HG2	2.11	0.50
6:Z:118:LEU:HD12	6:Z:121:VAL:HB	1.93	0.50
6:Z:245:PRO:HA	6:Z:248:ASP:HB2	1.93	0.50
1:B:492:THR:HG23	1:B:1274:VAL:HB	1.94	0.50
1:B:529:ALA:O	1:B:532:ILE:HG22	2.12	0.50
1:B:637:PRO:HG2	1:B:764:TRP:HE1	1.76	0.50
1:B:689:MET:HE2	1:B:840:ARG:NE	2.27	0.50
1:B:1110:PHE:CE2	1:B:1114:LEU:HB2	2.46	0.50
2:C:1067:PHE:HE1	2:C:1136:ARG:HB3	1.76	0.50
2:C:1197:GLN:CD	2:C:1198:TYR:H	2.19	0.50
3:D:7:LEU:HB3	3:D:319:TRP:HE1	1.77	0.50
3:D:85:ARG:NH1	3:D:88:ASP:HB3	2.24	0.50
3:D:283:VAL:O	3:D:287:LEU:HG	2.12	0.50
3:D:341:ASP:HA	3:D:344:ARG:NE	2.27	0.50
4:K:117:ALA:O	4:K:121:ASN:ND2	2.45	0.50
4:K:406:SER:OG	4:K:407:LYS:N	2.44	0.50
4:L:121:ASN:O	4:L:125:LEU:HG	2.12	0.50
4:L:229:ILE:HG13	4:L:233:PRO:HA	1.94	0.50
4:L:427:TYR:HB2	4:L:473:ILE:HD13	1.92	0.50
4:M:457:LEU:HB3	4:M:466:TYR:CE1	2.46	0.50
4:M:631:VAL:O	4:M:635:LEU:HG	2.12	0.50
5:O:487:THR:HG23	5:O:538:ILE:HD12	1.94	0.50
5:O:988:LEU:H	5:O:989:ARG:NH2	2.10	0.50
3:P:333:ARG:HH11	3:P:333:ARG:C	2.20	0.50
6:X:106:MET:HE1	6:X:182:ASN:HD21	1.75	0.50
6:X:272:PHE:CE2	6:X:282:MET:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:331:ALA:O	6:X:335:LEU:N	2.26	0.50
6:Z:258:SER:HA	6:Z:273:SER:HA	1.94	0.50
1:B:700:PRO:O	1:B:704:GLN:HG3	2.12	0.49
1:B:806:MET:H	1:B:889:GLY:HA3	1.77	0.49
1:B:1075:HIS:ND1	1:B:1108:TRP:CD1	2.75	0.49
1:B:1086:GLY:CA	1:B:1092:PRO:HG3	2.42	0.49
2:C:622:SER:OG	2:C:623:LEU:N	2.45	0.49
2:C:714:PRO:HA	2:C:760:GLU:CD	2.36	0.49
2:C:880:ARG:NH1	2:C:881:ALA:HB2	2.27	0.49
2:C:1084:SER:O	2:C:1093:MET:N	2.31	0.49
2:C:1115:TRP:CD1	2:C:1119:THR:HA	2.47	0.49
4:K:141:LEU:HD12	4:K:165:VAL:N	2.27	0.49
4:K:337:ILE:HG23	4:K:341:MET:HG3	1.93	0.49
4:K:572:LEU:HB3	4:K:592:LEU:HD23	1.94	0.49
4:L:362:ARG:NH2	4:L:483:MET:O	2.26	0.49
4:L:435:SER:N	4:L:440:GLN:O	2.36	0.49
4:M:144:VAL:HG12	4:M:145:ASP:N	2.24	0.49
4:M:290:MET:HA	4:M:293:VAL:HG12	1.94	0.49
4:M:581:TYR:HB2	6:Y:73:CYS:H	1.77	0.49
5:O:20:THR:O	5:O:277:THR:HG23	2.12	0.49
5:O:462:ASP:HB2	5:O:465:GLU:OE1	2.12	0.49
5:O:770:ARG:HG2	5:O:860:CYS:C	2.37	0.49
3:P:28:HIS:HA	3:P:31:ARG:HG2	1.94	0.49
3:P:133:LEU:O	3:P:136:ASP:N	2.46	0.49
3:P:229:HIS:ND1	3:P:232:ASN:HB3	2.26	0.49
3:P:229:HIS:O	3:P:233:THR:HG22	2.12	0.49
3:P:239:PHE:HB3	3:P:251:TRP:HB3	1.94	0.49
6:X:32:TRP:CG	6:X:64:LYS:HZ1	2.30	0.49
6:Y:54:CYS:HG	6:Y:71:HIS:CE1	2.26	0.49
6:Y:95:TRP:O	6:Y:99:MET:HG2	2.11	0.49
1:B:439:MET:HA	2:C:861:ALA:HA	1.93	0.49
1:B:1115:TRP:HE1	1:B:1119:THR:HG23	1.77	0.49
1:B:1214:SER:O	1:B:1216:SER:N	2.45	0.49
2:C:453:THR:HA	2:C:1253:LEU:O	2.12	0.49
2:C:623:LEU:HD23	2:C:626:LEU:HD13	1.94	0.49
2:C:646:VAL:HG21	2:C:684:TRP:CE2	2.46	0.49
4:K:20:PHE:HB2	4:K:212:MET:SD	2.52	0.49
4:K:563:PRO:CB	4:L:197:THR:HG21	2.42	0.49
4:M:532:PRO:HA	4:M:537:ARG:HE	1.78	0.49
5:O:307:LEU:HD21	5:O:344:LEU:HD11	1.94	0.49
5:O:390:THR:O	5:O:787:ILE:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:471:LEU:O	5:O:474:LEU:N	2.43	0.49
5:O:642:LYS:NZ	5:O:644:PHE:HA	2.27	0.49
5:O:762:SER:O	5:O:765:ARG:HB3	2.12	0.49
3:P:275:THR:OG1	3:P:331:GLN:HG3	2.11	0.49
6:X:51:CYS:O	6:X:55:LEU:N	2.46	0.49
6:X:333:ILE:HD12	6:X:333:ILE:H	1.75	0.49
1:B:272:VAL:HG12	1:B:300:ALA:HB3	1.94	0.49
1:B:309:ARG:NH1	1:B:321:SER:H	2.05	0.49
1:B:518:GLN:OE1	1:B:521:ARG:NE	2.46	0.49
2:C:432:GLY:N	2:C:451:PHE:HB2	2.27	0.49
2:C:542:LEU:HA	2:C:545:ARG:HG2	1.94	0.49
2:C:1104:PHE:HE1	2:C:1126:PHE:CD1	2.30	0.49
2:C:1162:LEU:HD12	2:C:1165:ALA:HB3	1.95	0.49
3:D:42:PHE:HA	3:D:64:ARG:NH2	2.27	0.49
3:D:171:TRP:CH2	3:D:235:ARG:HG3	2.47	0.49
4:K:380:LEU:HB2	4:K:448:LEU:HB3	1.94	0.49
4:L:624:TRP:HA	4:L:627:LEU:HD12	1.94	0.49
4:M:145:ASP:OD2	4:M:161:LYS:HA	2.12	0.49
4:M:272:PRO:HG3	4:M:277:PRO:HA	1.94	0.49
5:O:407:MET:HA	5:O:772:LEU:HD11	1.93	0.49
5:O:419:GLN:HB2	5:O:708:THR:HG23	1.94	0.49
5:O:555:ALA:HB3	5:O:556:ARG:NH1	2.28	0.49
5:O:627:ILE:HA	5:O:631:ILE:HD13	1.94	0.49
5:O:917:SER:OG	5:O:918:THR:N	2.46	0.49
3:P:3:ARG:NH1	3:P:296:CYS:HB3	2.27	0.49
3:P:42:PHE:HA	3:P:64:ARG:NE	2.25	0.49
6:Y:8:GLY:O	6:Y:12:VAL:HG23	2.12	0.49
6:Y:35:THR:HG23	6:Y:153:LEU:HB2	1.94	0.49
6:Y:130:GLU:OE2	6:Y:362:MET:HG2	2.12	0.49
6:Z:255:SER:N	6:Z:276:LEU:HD21	2.28	0.49
1:B:267:LYS:HB3	1:B:310:TRP:CZ2	2.47	0.49
1:B:476:PRO:O	1:B:480:GLU:HG2	2.13	0.49
1:B:943:TYR:OH	1:B:995:THR:OG1	2.10	0.49
1:B:1125:GLN:HB2	1:B:1126:PHE:CE2	2.48	0.49
2:C:622:SER:OG	2:C:624:GLU:N	2.43	0.49
2:C:837:ARG:H	2:C:842:ARG:HH12	1.60	0.49
2:C:856:THR:HA	3:P:348:VAL:O	2.13	0.49
2:C:1138:ARG:HD3	2:C:1139:ILE:O	2.12	0.49
4:K:145:ASP:CG	4:K:162:GLN:HE21	2.18	0.49
4:K:213:GLN:O	4:K:217:LYS:HG3	2.11	0.49
4:K:324:ARG:HE	4:K:490:ASP:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:469:LEU:HD12	4:K:489:TRP:NE1	2.27	0.49
4:L:655:GLU:O	4:L:658:GLN:NE2	2.45	0.49
4:M:385:LYS:HZ1	4:M:491:ALA:HA	1.76	0.49
4:M:622:ASN:HA	4:M:625:ILE:HD12	1.93	0.49
5:O:37:ASN:ND2	5:O:40:ARG:HB2	2.27	0.49
5:O:371:ARG:HH12	5:O:375:LEU:HD12	1.76	0.49
5:O:705:GLY:N	5:O:758:ARG:HG3	2.27	0.49
5:O:744:TYR:CD1	5:O:789:PRO:HG3	2.47	0.49
5:O:939:TYR:O	5:O:951:PHE:HA	2.12	0.49
5:O:1190:ALA:O	5:O:1194:LEU:HG	2.12	0.49
5:O:1196:TYR:O	5:O:1214:LEU:N	2.34	0.49
3:P:23:ASP:O	3:P:26:SER:OG	2.26	0.49
3:P:48:LEU:HB3	3:P:50:ARG:CD	2.41	0.49
6:Y:314:ALA:O	6:Y:315:LEU:HD22	2.11	0.49
6:Z:302:VAL:HG22	6:Z:306:TRP:CD1	2.48	0.49
1:B:782:GLN:N	1:B:783:PRO:HD3	2.27	0.49
2:C:307:HIS:CD2	2:C:310:TRP:HB3	2.47	0.49
2:C:351:PRO:HA	2:C:354:PHE:CE1	2.47	0.49
2:C:456:ALA:HA	2:C:459:VAL:HG23	1.94	0.49
2:C:505:MET:O	2:C:507:TYR:N	2.45	0.49
2:C:946:ASP:OD2	2:C:947:ARG:N	2.45	0.49
2:C:1151:TYR:CD1	2:C:1181:MET:HE2	2.47	0.49
4:K:348:GLN:HB3	4:K:356:ASN:OD1	2.12	0.49
4:K:353:THR:HG22	6:Z:24:SER:OG	2.13	0.49
4:K:470:ALA:H	4:K:489:TRP:NE1	2.10	0.49
4:L:188:TRP:O	4:L:192:LEU:HG	2.13	0.49
4:L:322:ASN:ND2	4:L:324:ARG:HB2	2.28	0.49
4:L:468:LEU:HG	4:L:489:TRP:HH2	1.77	0.49
4:L:514:VAL:HB	4:L:517:GLU:HB2	1.95	0.49
4:M:662:GLN:HE22	4:M:665:LEU:HD12	1.78	0.49
5:O:212:TRP:CZ2	3:P:141:HIS:HE1	2.31	0.49
5:O:252:THR:OG1	5:O:253:ASP:N	2.43	0.49
5:O:531:GLU:HB3	5:O:535:GLN:HE22	1.78	0.49
5:O:657:GLY:O	5:O:660:GLN:HB2	2.13	0.49
5:O:662:SER:O	5:O:664:LEU:HG	2.13	0.49
3:P:198:SER:HA	3:P:201:ARG:O	2.13	0.49
6:X:123:THR:HB	6:X:124:GLU:OE1	2.13	0.49
6:Y:243:VAL:HG13	6:Y:349:PHE:CD1	2.47	0.49
6:Z:218:TRP:HB3	6:Z:267:LYS:HB3	1.94	0.49
1:B:1112:LEU:HB2	1:B:1139:ILE:HD11	1.94	0.49
1:B:1141:MET:SD	1:B:1144:TYR:HB3	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1166:TRP:CD1	1:B:1176:PRO:HB2	2.48	0.49
2:C:267:LYS:N	2:C:305:VAL:O	2.45	0.49
2:C:518:GLN:O	2:C:522:ILE:HG12	2.11	0.49
2:C:1049:ARG:HG3	2:C:1196:VAL:CG1	2.42	0.49
2:C:1125:GLN:HB2	2:C:1126:PHE:CD1	2.48	0.49
2:C:1128:ALA:O	2:C:1131:LYS:N	2.45	0.49
3:D:213:THR:HG21	3:D:295:LEU:HD21	1.95	0.49
3:D:244:ARG:HE	3:D:336:VAL:HG13	1.77	0.49
3:D:288:SER:O	3:D:292:THR:HG23	2.12	0.49
4:K:219:LEU:O	4:K:223:LEU:HG	2.12	0.49
4:K:527:LEU:O	4:K:530:SER:OG	2.18	0.49
4:M:645:LYS:HZ1	4:M:649:SER:HB3	1.76	0.49
5:O:460:TYR:HB3	5:O:461:PHE:CE1	2.47	0.49
5:O:653:PHE:CE2	5:O:655:ALA:HB2	2.47	0.49
5:O:926:VAL:HG11	5:O:1019:MET:HG2	1.95	0.49
5:O:1048:ASN:HA	5:O:1080:PHE:CE2	2.48	0.49
5:O:1193:TYR:HH	5:O:1285:THR:HG1	1.60	0.49
5:O:1241:LYS:O	5:O:1284:TYR:HA	2.11	0.49
6:X:264:ILE:N	6:X:268:MET:O	2.42	0.49
6:Y:86:GLN:N	6:Y:86:GLN:OE1	2.26	0.49
6:Z:199:GLY:O	6:Z:202:ARG:HB2	2.13	0.49
1:B:374:ARG:HH22	1:B:1263:GLU:HG2	1.78	0.49
1:B:651:THR:OG1	1:B:652:LEU:N	2.45	0.49
1:B:762:THR:HA	1:B:765:ARG:NH1	2.27	0.49
1:B:786:THR:O	1:B:790:VAL:HG23	2.13	0.49
1:B:1046:ILE:O	1:B:1199:ILE:HA	2.12	0.49
2:C:272:VAL:H	2:C:299:ALA:HB1	1.78	0.49
2:C:925:CYS:O	2:C:928:VAL:HG22	2.13	0.49
3:D:96:TRP:CD2	3:D:101:LEU:HD22	2.47	0.49
4:K:223:LEU:HB2	4:K:230:ARG:NH2	2.28	0.49
4:K:520:GLY:N	4:K:610:ILE:O	2.20	0.49
4:L:280:GLU:O	4:L:284:LYS:HG2	2.11	0.49
4:L:370:LEU:HD21	4:L:468:LEU:CB	2.42	0.49
4:L:506:LYS:HD2	6:Z:312:ARG:HH12	1.77	0.49
5:O:352:GLN:HA	5:O:370:VAL:O	2.13	0.49
5:O:524:ALA:O	5:O:556:ARG:NH2	2.46	0.49
5:O:995:LEU:HD12	5:O:998:SER:HA	1.95	0.49
3:P:84:HIS:HB3	3:P:130:TYR:CE1	2.48	0.49
3:P:171:TRP:CH2	3:P:235:ARG:HD2	2.48	0.49
3:P:213:THR:HG21	3:P:295:LEU:HD21	1.93	0.49
6:X:97:ARG:HA	6:X:100:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:7:ASN:OD1	6:Y:9:HIS:N	2.22	0.49
6:Y:227:GLU:HB2	6:Y:354:TYR:CE1	2.48	0.49
6:Z:218:TRP:HB2	6:Z:267:LYS:NZ	2.28	0.49
1:B:340:ASN:ND2	1:B:343:THR:HB	2.27	0.49
1:B:687:CYS:HA	1:B:690:ASN:HB3	1.95	0.49
1:B:708:ILE:HD13	1:B:712:TYR:CE1	2.47	0.49
1:B:1031:PHE:CE1	1:B:1035:TYR:HA	2.48	0.49
1:B:1036:ASN:OD1	1:B:1036:ASN:N	2.46	0.49
1:B:1260:TYR:HB3	1:B:1262:TYR:CD2	2.47	0.49
3:D:50:ARG:HH11	3:D:50:ARG:HA	1.77	0.49
3:D:63:SER:HA	3:D:393:ARG:HB2	1.95	0.49
4:K:259:ASN:OD1	4:K:260:GLU:N	2.46	0.49
4:K:352:ASN:HB3	6:Z:32:TRP:CH2	2.47	0.49
4:K:505:VAL:HG22	4:K:510:VAL:HB	1.93	0.49
4:L:236:ALA:O	4:L:240:LEU:HG	2.13	0.49
4:M:145:ASP:HB3	4:M:159:PHE:HE1	1.78	0.49
5:O:102:PRO:HD2	5:O:105:ASN:HB2	1.94	0.49
5:O:200:TYR:OH	5:O:229:ASN:HB3	2.13	0.49
5:O:207:LEU:HB3	5:O:211:PHE:CZ	2.48	0.49
5:O:326:TRP:HE3	5:O:327:LEU:HD23	1.77	0.49
5:O:340:ASN:OD1	5:O:341:GLU:N	2.45	0.49
5:O:621:ARG:HD2	5:O:625:HIS:HB2	1.95	0.49
5:O:642:LYS:HZ1	5:O:644:PHE:HA	1.78	0.49
3:P:68:MET:HA	3:P:71:LEU:HD12	1.93	0.49
6:Y:60:SER:OG	6:Y:61:LEU:N	2.39	0.49
1:B:599:LEU:HA	1:B:832:GLN:NE2	2.28	0.49
1:B:837:ARG:HB3	5:O:238:LEU:HB2	1.95	0.49
2:C:438:GLN:HB3	3:D:201:ARG:NE	2.27	0.49
2:C:468:ARG:NH1	2:C:1018:SER:HA	2.28	0.49
2:C:1212:THR:OG1	2:C:1225:LYS:N	2.40	0.49
3:D:90:ARG:O	3:D:116:ALA:HA	2.12	0.49
3:D:284:ASN:HA	3:D:287:LEU:HD12	1.95	0.49
3:D:331:GLN:CD	3:D:333:ARG:H	2.20	0.49
4:K:392:TRP:NE1	4:K:394:PRO:HA	2.28	0.49
4:L:297:GLU:HB2	4:L:542:ARG:NH2	2.28	0.49
4:L:346:GLN:HG3	4:L:360:ASN:HB2	1.94	0.49
4:L:379:VAL:HB	4:L:494:THR:HB	1.95	0.49
4:M:166:ILE:HG12	4:M:167:THR:O	2.13	0.49
4:M:327:LYS:NZ	4:M:329:ASP:OD1	2.46	0.49
4:M:333:TRP:CG	4:M:531:LEU:HD11	2.48	0.49
4:M:401:PHE:CD1	4:M:448:LEU:HD23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:253:LEU:HD12	3:P:254:SER:H	1.78	0.49
6:X:205:GLN:N	6:X:267:LYS:HZ3	2.04	0.49
6:X:330:GLN:CD	6:X:334:VAL:HG21	2.38	0.49
6:Y:139:ASN:HA	6:Y:146:HIS:HB2	1.94	0.49
6:Z:116:GLU:HG3	6:Z:117:ASP:H	1.78	0.49
6:Z:223:TYR:CG	6:Z:356:VAL:HG22	2.47	0.49
6:Z:236:ARG:HD3	6:Z:239:ARG:NH2	2.26	0.49
1:B:414:PRO:HD3	2:C:1118:ASN:ND2	2.28	0.49
1:B:530:THR:HA	1:B:533:GLN:CD	2.38	0.49
1:B:973:MET:O	1:B:976:ALA:N	2.46	0.49
1:B:985:GLU:OE1	1:B:985:GLU:N	2.40	0.49
2:C:338:LEU:HA	2:C:968:TRP:CZ2	2.47	0.49
2:C:474:ILE:CD1	2:C:507:TYR:HB2	2.43	0.49
2:C:481:TRP:O	2:C:484:THR:OG1	2.30	0.49
3:D:22:ASN:HD22	3:D:25:LEU:HD23	1.77	0.49
3:D:94:LEU:HA	3:D:105:VAL:O	2.12	0.49
3:D:250:VAL:HG12	3:D:251:TRP:N	2.25	0.49
4:K:112:THR:O	4:K:116:MET:HG2	2.12	0.49
4:L:559:ASP:HA	4:L:597:SER:OG	2.12	0.49
4:M:516:ALA:O	4:M:519:ILE:HG12	2.13	0.49
5:O:448:VAL:HB	5:O:666:TRP:C	2.38	0.49
5:O:1015:TYR:C	5:O:1017:PRO:HD3	2.37	0.49
3:P:111:VAL:HA	3:P:114:GLN:CD	2.38	0.49
3:P:398:THR:HG23	3:P:401:GLN:HG3	1.95	0.49
6:X:35:THR:C	6:X:36:ILE:HG13	2.38	0.49
6:Z:133:TRP:O	6:Z:136:VAL:HG23	2.13	0.49
1:B:275:GLN:NE2	1:B:1186:SER:OG	2.44	0.48
1:B:684:TRP:HB3	1:B:688:PHE:CD2	2.48	0.48
2:C:304:ILE:H	2:C:304:ILE:HD12	1.78	0.48
2:C:1044:ASP:OD1	2:C:1142:GLY:N	2.26	0.48
4:K:435:SER:N	4:K:441:SER:HA	2.28	0.48
4:K:566:VAL:C	4:K:569:GLN:HE21	2.18	0.48
4:L:639:SER:OG	4:M:30:ALA:HB1	2.13	0.48
4:M:193:ARG:HA	4:M:196:GLN:HE21	1.78	0.48
4:M:337:ILE:HG13	4:M:361:LEU:HD11	1.95	0.48
4:M:457:LEU:HB3	4:M:466:TYR:CZ	2.48	0.48
4:M:577:LEU:C	4:M:584:ARG:HH12	2.21	0.48
5:O:38:PRO:O	5:O:40:ARG:NH2	2.45	0.48
5:O:240:GLN:HB2	5:O:249:ILE:C	2.37	0.48
5:O:422:LEU:C	5:O:697:VAL:HG13	2.38	0.48
5:O:680:ARG:O	5:O:683:THR:OG1	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:911:ILE:O	5:O:914:LEU:HG	2.13	0.48
5:O:979:ILE:HG12	5:O:980:THR:N	2.28	0.48
5:O:1248:CYS:SG	5:O:1249:ILE:N	2.85	0.48
3:P:241:CYS:O	3:P:244:ARG:NH1	2.46	0.48
3:P:243:ARG:NE	3:P:248:ALA:O	2.46	0.48
6:Y:60:SER:H	6:Y:63:ARG:NH2	2.11	0.48
6:Z:244:THR:HB	6:Z:247:ARG:CG	2.43	0.48
1:B:773:LYS:NZ	1:B:797:LEU:HB2	2.28	0.48
1:B:778:ASN:HB2	1:B:780:ARG:HG2	1.96	0.48
1:B:1126:PHE:O	1:B:1130:ILE:HG22	2.13	0.48
2:C:263:CYS:HA	2:C:309:ARG:HG2	1.95	0.48
2:C:769:CYS:O	2:C:773:LYS:HG3	2.13	0.48
2:C:836:VAL:HB	2:C:843:VAL:HG22	1.94	0.48
2:C:935:VAL:HG11	2:C:992:PRO:O	2.13	0.48
2:C:1112:LEU:HA	2:C:1139:ILE:HD11	1.94	0.48
3:D:158:PHE:HB3	3:D:275:THR:O	2.13	0.48
3:D:222:LEU:HB3	3:D:227:VAL:HG23	1.95	0.48
3:D:241:CYS:HB2	3:D:251:TRP:CZ3	2.47	0.48
3:D:244:ARG:HA	3:D:244:ARG:HD2	1.51	0.48
4:K:197:THR:HG21	4:M:563:PRO:HB3	1.94	0.48
4:K:224:PRO:HG2	4:K:227:SER:HB3	1.94	0.48
4:K:396:GLY:HA2	4:K:431:TYR:CD1	2.48	0.48
4:L:410:PHE:CD2	4:L:411:GLU:HG3	2.48	0.48
4:L:518:LEU:HB2	4:L:539:MET:HE2	1.95	0.48
4:L:582:GLY:HA3	6:Z:69:PRO:O	2.12	0.48
4:M:426:ASN:OD1	4:M:427:TYR:N	2.46	0.48
5:O:347:GLN:OE1	5:O:349:ARG:HD3	2.13	0.48
5:O:940:LEU:CA	5:O:950:ARG:O	2.51	0.48
5:O:1079:GLN:NE2	5:O:1080:PHE:O	2.46	0.48
3:P:243:ARG:NH2	3:P:250:VAL:HG23	2.27	0.48
6:X:22:ARG:HH22	6:X:96:LYS:CD	2.26	0.48
6:X:95:TRP:HE1	6:X:266:GLY:N	2.11	0.48
6:X:257:TYR:CD2	6:X:344:SER:HA	2.48	0.48
6:Y:37:SER:HB2	6:Y:90:ARG:HH22	1.77	0.48
6:Y:253:GLY:HA2	6:Y:275:MET:SD	2.53	0.48
6:Z:17:ASN:HA	6:Z:20:GLU:CD	2.38	0.48
6:Z:142:PHE:C	6:Z:144:SER:H	2.21	0.48
6:Z:161:THR:O	6:Z:165:GLN:NE2	2.30	0.48
6:Z:312:ARG:NH1	6:Z:312:ARG:O	2.45	0.48
1:B:955:LEU:HG	1:B:956:ARG:O	2.13	0.48
1:B:1049:ARG:HH11	1:B:1134:GLU:CD	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:360:HIS:HA	2:C:363:LEU:HB3	1.95	0.48
2:C:839:ASP:OD1	2:C:840:ARG:N	2.45	0.48
3:D:230:GLN:HG2	3:D:238:TYR:CZ	2.48	0.48
4:K:212:MET:O	4:K:216:VAL:HG23	2.13	0.48
4:K:544:SER:O	4:K:548:GLU:HG2	2.13	0.48
4:L:39:GLY:HA2	4:L:42:ASN:ND2	2.27	0.48
4:L:404:PHE:CE1	4:L:413:TRP:HZ3	2.31	0.48
4:L:493:LEU:HD13	4:L:495:MET:HE3	1.94	0.48
4:M:151:SER:HB2	4:M:153:ARG:NH2	2.29	0.48
4:M:406:SER:C	4:M:407:LYS:HD2	2.38	0.48
5:O:15:SER:HB3	5:O:311:GLY:CA	2.43	0.48
5:O:30:LEU:HD11	5:O:34:LEU:HD11	1.94	0.48
5:O:91:ARG:O	5:O:94:LYS:HB2	2.13	0.48
5:O:371:ARG:NH1	5:O:375:LEU:HB2	2.27	0.48
5:O:478:ILE:HG23	5:O:479:GLY:O	2.13	0.48
5:O:609:GLY:N	5:O:658:VAL:O	2.40	0.48
5:O:649:VAL:HG12	5:O:651:LEU:HD11	1.94	0.48
5:O:1063:PHE:CE1	5:O:1073:ILE:HG12	2.45	0.48
3:P:3:ARG:NH2	3:P:301:LEU:HG	2.29	0.48
3:P:50:ARG:HH11	3:P:51:GLY:N	2.12	0.48
3:P:161:ILE:HG12	3:P:327:LEU:CD2	2.43	0.48
6:X:238:TYR:CE2	6:X:242:LEU:HD21	2.48	0.48
6:Y:182:ASN:HA	6:Y:225:TYR:CE2	2.48	0.48
6:Y:238:TYR:HE1	6:Y:242:LEU:HD12	1.78	0.48
6:Z:224:ASP:N	6:Z:355:PRO:O	2.47	0.48
1:B:508:ARG:HG3	3:P:196:GLN:OE1	2.13	0.48
1:B:715:ASN:ND2	1:B:760:GLU:OE2	2.46	0.48
2:C:810:TYR:HA	2:C:814:LEU:HD23	1.94	0.48
3:D:88:ASP:OD1	3:D:89:ILE:HG13	2.13	0.48
3:D:218:SER:O	3:D:222:LEU:HG	2.14	0.48
4:K:121:ASN:O	4:K:125:LEU:HG	2.13	0.48
4:K:377:ARG:HH21	4:L:524:PRO:HG3	1.79	0.48
4:K:397:LYS:HB2	4:K:472:PHE:CE2	2.49	0.48
4:L:578:GLU:OE2	6:Z:1:MET:HG3	2.14	0.48
4:M:190:ILE:O	4:M:194:VAL:HG22	2.13	0.48
4:M:410:PHE:HA	4:M:413:TRP:NE1	2.27	0.48
4:M:517:GLU:HB3	6:Y:310:LYS:NZ	2.29	0.48
5:O:17:THR:HG22	5:O:358:PRO:C	2.38	0.48
5:O:305:SER:O	5:O:309:THR:OG1	2.19	0.48
5:O:669:GLY:HA2	5:O:672:PHE:HD1	1.77	0.48
5:O:1157:VAL:HG22	5:O:1196:TYR:HE2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:238:TYR:CZ	3:P:256:SER:HB2	2.49	0.48
6:X:136:VAL:O	6:X:143:ARG:HG3	2.13	0.48
6:X:274:GLY:O	6:X:277:THR:OG1	2.21	0.48
6:X:327:THR:HA	6:X:330:GLN:HG2	1.95	0.48
6:Y:43:MET:H	6:Y:52:MET:HE3	1.77	0.48
6:Y:79:HIS:CG	6:Y:80:GLN:N	2.81	0.48
6:Y:107:HIS:HA	6:Y:170:LEU:HD21	1.96	0.48
6:Z:252:PHE:HE1	6:Z:258:SER:C	2.21	0.48
1:B:414:PRO:HA	2:C:1082:ARG:HD2	1.94	0.48
1:B:460:SER:O	1:B:464:ARG:HG3	2.13	0.48
1:B:516:ILE:HA	1:B:519:ILE:HB	1.95	0.48
1:B:629:PHE:CE1	1:B:652:LEU:HD21	2.49	0.48
1:B:646:VAL:HG21	1:B:684:TRP:CH2	2.49	0.48
1:B:646:VAL:HG11	1:B:684:TRP:CE2	2.48	0.48
1:B:1167:LEU:O	1:B:1170:ILE:HG22	2.14	0.48
2:C:501:VAL:HG22	2:C:1263:GLU:OE2	2.14	0.48
2:C:623:LEU:HD22	2:C:626:LEU:HD22	1.95	0.48
2:C:1112:LEU:HD22	2:C:1140:GLU:O	2.14	0.48
3:D:333:ARG:HH12	3:D:334:ARG:CZ	2.26	0.48
4:K:548:GLU:HA	4:K:551:LYS:HE2	1.94	0.48
4:K:583:VAL:HB	6:X:68:LEU:O	2.13	0.48
4:L:625:ILE:HB	4:M:660:TRP:CZ2	2.47	0.48
4:M:632:LYS:NZ	4:M:636:ARG:HD3	2.29	0.48
5:O:992:ARG:NH1	5:O:996:LEU:HD11	2.28	0.48
5:O:1238:TRP:CZ3	5:O:1286:LEU:HB3	2.48	0.48
6:Z:231:ASP:CG	6:Z:233:SER:HG	2.21	0.48
1:B:254:ARG:HG2	1:B:316:PHE:CE2	2.48	0.48
1:B:336:LYS:HZ2	1:B:345:SER:C	2.22	0.48
2:C:308:THR:OG1	2:C:322:VAL:HG12	2.14	0.48
2:C:371:TYR:O	2:C:462:ARG:NH1	2.46	0.48
2:C:650:MET:HG2	2:C:675:ALA:HB2	1.96	0.48
2:C:803:ILE:HG21	2:C:887:LEU:HG	1.94	0.48
2:C:878:ASP:OD1	2:C:880:ARG:HG2	2.13	0.48
3:D:20:PRO:O	3:D:21:ILE:HD13	2.14	0.48
3:D:210:ALA:O	3:D:211:ARG:C	2.57	0.48
4:K:227:SER:HB2	4:K:229:ILE:HG22	1.94	0.48
4:M:51:ILE:N	4:M:63:LEU:HD22	2.28	0.48
4:M:290:MET:HE2	4:M:635:LEU:HB2	1.94	0.48
5:O:172:TYR:CD2	5:O:187:LEU:HB3	2.49	0.48
5:O:401:THR:OG1	5:O:774:LEU:O	2.31	0.48
5:O:649:VAL:HG13	5:O:677:HIS:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:771:TYR:HB2	5:O:860:CYS:SG	2.53	0.48
5:O:1049:ALA:HB2	5:O:1080:PHE:HD2	1.79	0.48
5:O:1102:GLN:HE21	5:O:1111:PRO:HB2	1.78	0.48
5:O:1235:MET:SD	5:O:1236:ARG:HD2	2.53	0.48
6:Y:7:ASN:O	6:Y:11:ILE:HG13	2.13	0.48
6:Z:94:HIS:HE1	6:Z:153:LEU:HB3	1.77	0.48
2:C:317:ASP:CG	2:C:318:ARG:H	2.20	0.48
2:C:522:ILE:HG13	2:C:523:MET:N	2.29	0.48
2:C:773:LYS:O	2:C:776:VAL:HG12	2.13	0.48
2:C:868:ASN:OD1	2:C:869:THR:N	2.46	0.48
3:D:96:TRP:CG	3:D:101:LEU:HD22	2.49	0.48
3:D:288:SER:O	3:D:291:LEU:HG	2.13	0.48
3:D:309:VAL:H	3:D:314:ARG:HH21	1.61	0.48
3:D:362:ASP:O	3:D:365:GLN:NE2	2.47	0.48
4:K:49:ILE:O	4:K:64:ARG:HG3	2.13	0.48
4:K:217:LYS:HE2	4:K:675:PRO:HG3	1.95	0.48
4:K:432:ALA:HB1	4:K:442:ILE:O	2.13	0.48
4:L:115:GLU:O	4:L:118:LEU:HB2	2.14	0.48
4:L:234:LYS:O	4:L:238:VAL:HG23	2.13	0.48
4:L:523:THR:N	4:L:526:SER:OG	2.25	0.48
4:M:51:ILE:HB	4:M:63:LEU:HA	1.95	0.48
4:M:426:ASN:ND2	4:M:449:ALA:O	2.36	0.48
5:O:673:PHE:HA	5:O:676:ASP:OD2	2.13	0.48
6:X:128:LEU:HD23	6:X:363:ILE:O	2.13	0.48
6:X:158:ASP:OD2	6:X:161:THR:HB	2.14	0.48
6:X:273:SER:O	6:X:280:CYS:HA	2.14	0.48
6:Y:182:ASN:HA	6:Y:225:TYR:CZ	2.49	0.48
6:Y:223:TYR:HB2	6:Y:225:TYR:HD2	1.78	0.48
6:Z:78:ARG:CG	6:Z:80:GLN:HB3	2.42	0.48
1:B:267:LYS:HD2	1:B:310:TRP:CD2	2.48	0.48
1:B:293:GLN:HB2	1:B:404:SER:HB2	1.95	0.48
1:B:492:THR:OG1	2:C:677:ALA:HB2	2.14	0.48
1:B:1121:TYR:O	1:B:1125:GLN:HG2	2.14	0.48
2:C:350:ASN:ND2	2:C:1173:THR:O	2.46	0.48
2:C:516:ILE:O	2:C:519:ILE:HB	2.13	0.48
2:C:708:ILE:HA	2:C:711:ARG:HB3	1.96	0.48
2:C:759:ASN:HA	2:C:812:GLN:NE2	2.27	0.48
2:C:878:ASP:O	2:C:882:ILE:HG12	2.14	0.48
2:C:914:VAL:HA	2:C:917:ASN:ND2	2.29	0.48
2:C:989:SER:O	2:C:989:SER:OG	2.25	0.48
2:C:1116:GLN:HB3	2:C:1172:PRO:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:316:ILE:HB	3:D:320:THR:H	1.78	0.48
4:K:299:GLU:CD	4:K:299:GLU:H	2.21	0.48
4:L:98:GLU:OE1	4:L:169:THR:HG23	2.13	0.48
4:L:369:ASN:HA	4:L:467:TYR:HD2	1.78	0.48
4:L:432:ALA:O	4:L:433:GLU:HG3	2.13	0.48
4:L:629:GLN:HA	4:L:632:LYS:HZ3	1.77	0.48
5:O:67:VAL:HG23	5:O:68:LEU:HG	1.95	0.48
5:O:199:PHE:O	5:O:232:HIS:HA	2.14	0.48
5:O:271:ARG:HB3	5:O:274:GLN:HG2	1.96	0.48
5:O:687:ILE:HD11	5:O:989:ARG:HD3	1.95	0.48
3:P:233:THR:HG21	3:P:256:SER:HB3	1.95	0.48
3:P:241:CYS:SG	3:P:250:VAL:N	2.65	0.48
1:B:468:ARG:HH22	1:B:1017:GLY:N	2.11	0.48
1:B:653:ALA:C	1:B:671:GLN:HE21	2.19	0.48
1:B:924:THR:O	1:B:928:VAL:HG23	2.14	0.48
1:B:1105:GLU:HA	1:B:1135:LEU:HB2	1.96	0.48
2:C:293:GLN:NE2	2:C:411:MET:HA	2.29	0.48
2:C:383:THR:HB	2:C:410:ARG:NH2	2.27	0.48
2:C:543:LEU:O	2:C:592:ARG:NH1	2.46	0.48
2:C:614:PRO:HG2	2:C:617:GLY:O	2.13	0.48
2:C:837:ARG:O	2:C:842:ARG:NH2	2.47	0.48
3:D:137:PRO:HA	3:D:140:LYS:HE3	1.96	0.48
3:D:281:MET:SD	3:D:368:LYS:HD2	2.54	0.48
3:D:357:ILE:HD13	3:D:360:LEU:HD12	1.96	0.48
4:L:18:ASN:HA	4:L:249:TRP:HA	1.95	0.48
4:L:168:PRO:C	4:L:171:GLN:HE21	2.18	0.48
5:O:58:GLN:HG3	5:O:171:LYS:HG3	1.95	0.48
5:O:299:TYR:OH	5:O:346:PRO:HD2	2.14	0.48
5:O:817:SER:O	5:O:820:TYR:OH	2.31	0.48
5:O:907:PHE:HA	5:O:910:LEU:HD12	1.96	0.48
5:O:1172:GLN:HB3	5:O:1184:ASN:HB3	1.95	0.48
5:O:1222:LEU:HD11	5:O:1228:LEU:HD11	1.95	0.48
3:P:84:HIS:HE1	3:P:129:ASP:HB2	1.78	0.48
6:X:286:ILE:O	6:X:287:LYS:HD3	2.13	0.48
6:Z:35:THR:O	6:Z:90:ARG:NH1	2.47	0.48
6:Z:161:THR:O	6:Z:165:GLN:HG2	2.13	0.48
6:Z:309:GLU:HB2	6:Z:313:TYR:CE1	2.49	0.48
1:B:375:HIS:ND1	1:B:1261:ALA:HA	2.28	0.48
1:B:501:VAL:HG12	1:B:503:ARG:NH2	2.28	0.48
1:B:714:PRO:HD3	1:B:764:TRP:CH2	2.49	0.48
1:B:847:VAL:HG23	1:B:1000:GLN:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1033:HIS:O	1:B:1207:ARG:NH1	2.46	0.48
1:B:1185:SER:OG	1:B:1221:ALA:O	2.32	0.48
2:C:372:LEU:HB3	2:C:1262:TYR:OH	2.14	0.48
3:D:141:HIS:O	3:D:145:GLN:HG2	2.14	0.48
3:D:175:VAL:O	3:D:178:LEU:HG	2.14	0.48
4:K:321:TYR:OH	4:K:530:SER:O	2.30	0.48
4:K:584:ARG:O	4:K:585:ILE:HD13	2.14	0.48
4:K:655:GLU:O	4:K:658:GLN:NE2	2.47	0.48
4:L:351:ASP:OD2	4:L:357:TRP:NE1	2.34	0.48
4:M:42:ASN:ND2	4:M:43:PRO:HD2	2.29	0.48
4:M:620:ASP:HB3	4:M:623:ASN:OD1	2.14	0.48
5:O:198:ALA:C	5:O:199:PHE:CG	2.92	0.48
5:O:252:THR:O	5:O:255:MET:HG3	2.14	0.48
5:O:653:PHE:CG	5:O:654:VAL:N	2.82	0.48
5:O:885:ILE:HD12	5:O:921:VAL:O	2.14	0.48
5:O:1054:ASN:HB2	5:O:1056:TYR:HE1	1.79	0.48
3:P:361:ALA:O	3:P:364:THR:OG1	2.27	0.48
1:B:826:LEU:HG	1:B:827:PRO:O	2.14	0.47
2:C:359:LEU:HD13	2:C:934:LEU:HD12	1.95	0.47
2:C:825:MET:HE3	2:C:908:MET:HG2	1.95	0.47
4:K:324:ARG:NE	4:K:490:ASP:HB2	2.29	0.47
4:K:562:SER:HG	4:K:565:SER:HG	1.56	0.47
4:K:666:ASP:O	4:K:669:SER:OG	2.31	0.47
4:L:53:ASP:OD1	4:L:53:ASP:N	2.46	0.47
4:L:650:LYS:HD3	4:L:650:LYS:C	2.39	0.47
4:M:26:THR:HB	4:M:246:GLY:HA2	1.96	0.47
4:M:403:VAL:HG12	4:M:423:THR:O	2.13	0.47
4:M:628:ALA:HB3	4:M:629:GLN:NE2	2.29	0.47
5:O:59:LEU:HD21	5:O:63:LEU:HB3	1.96	0.47
5:O:509:ARG:HA	5:O:544:PRO:C	2.39	0.47
5:O:531:GLU:HB3	5:O:535:GLN:NE2	2.28	0.47
5:O:1211:GLN:HE21	5:O:1212:HIS:N	2.11	0.47
6:X:64:LYS:HG3	6:X:66:LYS:HE3	1.96	0.47
6:X:192:PHE:O	6:X:197:LEU:HD11	2.13	0.47
6:Z:29:GLN:OE1	6:Z:38:ALA:HB3	2.13	0.47
6:Z:167:TRP:CZ3	6:Z:170:LEU:HD23	2.49	0.47
6:Z:220:VAL:HB	6:Z:264:ILE:HG23	1.96	0.47
1:B:336:LYS:HZ1	1:B:348:GLY:N	2.12	0.47
1:B:350:ASN:HB3	1:B:353:MET:HE1	1.95	0.47
1:B:949:LEU:HD13	1:B:951:TRP:HE1	1.79	0.47
1:B:1093:MET:HB3	1:B:1101:MET:C	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1107:ASN:O	1:B:1108:TRP:HD1	1.98	0.47
2:C:337:GLN:HE21	2:C:361:MET:HB2	1.78	0.47
2:C:991:ASP:OD2	2:C:993:ARG:HB2	2.14	0.47
3:D:207:GLY:O	3:D:211:ARG:NE	2.46	0.47
4:K:285:LEU:HA	4:K:288:GLN:HG3	1.96	0.47
4:K:443:ILE:HG13	4:K:444:ALA:O	2.15	0.47
4:L:124:PHE:CE2	4:L:128:LEU:HD11	2.49	0.47
4:L:227:SER:O	4:L:231:ARG:NH2	2.47	0.47
4:L:330:GLU:OE2	6:Z:9:HIS:N	2.35	0.47
4:L:396:GLY:HA2	4:L:429:GLN:HE22	1.79	0.47
4:L:522:TYR:HB2	4:L:611:ILE:HG13	1.96	0.47
4:M:328:ILE:O	6:Y:326:ARG:NH1	2.34	0.47
4:M:524:PRO:O	4:M:527:LEU:HB3	2.15	0.47
5:O:85:PHE:CE2	5:O:89:LYS:HD2	2.49	0.47
5:O:411:ASP:O	5:O:414:VAL:HG22	2.15	0.47
5:O:831:GLY:H	5:O:834:ALA:HB2	1.79	0.47
5:O:1136:PHE:HE2	5:O:1229:PHE:H	1.62	0.47
5:O:1215:GLN:NE2	5:O:1216:LEU:HG	2.28	0.47
5:O:1236:ARG:O	5:O:1238:TRP:HD1	1.97	0.47
3:P:145:GLN:HE21	3:P:297:SER:CB	2.27	0.47
3:P:225:VAL:HB	3:P:227:VAL:HG23	1.95	0.47
6:X:110:MET:O	6:X:113:VAL:HG23	2.13	0.47
6:X:309:GLU:HB3	6:X:313:TYR:CE2	2.49	0.47
6:X:358:ILE:H	6:X:358:ILE:HD12	1.79	0.47
6:Y:71:HIS:CE1	6:Y:73:CYS:HB2	2.48	0.47
6:Z:94:HIS:CE1	6:Z:153:LEU:HD23	2.49	0.47
6:Z:199:GLY:HA2	6:Z:202:ARG:NH2	2.29	0.47
1:B:318:ARG:CZ	1:B:371:TYR:HA	2.45	0.47
1:B:589:SER:CA	1:B:592:ARG:HH22	2.27	0.47
1:B:609:ASP:HB2	1:B:612:SER:OG	2.14	0.47
1:B:691:ILE:O	1:B:703:ARG:NH1	2.47	0.47
1:B:779:GLN:HA	1:B:782:GLN:HE21	1.79	0.47
1:B:825:MET:HA	1:B:911:ASP:OD1	2.15	0.47
1:B:1048:GLY:O	1:B:1050:VAL:HG23	2.14	0.47
1:B:1147:MET:HG2	1:B:1177:SER:HG	1.79	0.47
1:B:1150:TYR:HD2	1:B:1184:ILE:HG12	1.78	0.47
2:C:1122:PHE:HB3	2:C:1126:PHE:HE2	1.79	0.47
2:C:1150:TYR:HB3	2:C:1184:ILE:HG12	1.97	0.47
4:K:98:GLU:HG3	4:K:99:PRO:HD2	1.96	0.47
4:K:322:ASN:OD1	4:K:323:VAL:N	2.47	0.47
4:K:382:LEU:HD21	4:K:491:ALA:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:300:ILE:HG12	4:M:650:LYS:HZ1	1.79	0.47
4:M:176:ASP:HA	4:M:179:GLN:NE2	2.29	0.47
4:M:257:VAL:HG22	4:M:258:MET:H	1.80	0.47
5:O:94:LYS:O	5:O:98:LEU:HG	2.15	0.47
5:O:815:VAL:O	5:O:819:VAL:HG23	2.15	0.47
5:O:1054:ASN:HB3	5:O:1061:LEU:CD1	2.43	0.47
5:O:1232:ALA:HB3	5:O:1274:ILE:HG23	1.96	0.47
6:X:148:SER:N	6:X:151:ASP:OD2	2.41	0.47
6:X:286:ILE:HG22	6:X:287:LYS:H	1.79	0.47
6:Y:21:GLY:C	6:Y:22:ARG:HD3	2.38	0.47
1:B:281:LEU:HD21	1:B:286:PHE:CE2	2.49	0.47
1:B:304:ILE:HD12	1:B:305:VAL:H	1.79	0.47
1:B:347:ARG:HB3	1:B:1176:PRO:HB3	1.96	0.47
1:B:593:VAL:HG23	1:B:594:ALA:N	2.29	0.47
1:B:707:GLU:HG2	1:B:711:ARG:CZ	2.43	0.47
1:B:708:ILE:HG23	1:B:712:TYR:HD1	1.79	0.47
1:B:762:THR:HA	1:B:765:ARG:CZ	2.44	0.47
2:C:554:THR:O	2:C:557:SER:OG	2.30	0.47
3:D:123:ARG:HB3	3:D:125:TYR:CE1	2.50	0.47
3:D:267:ASN:ND2	3:D:269:SER:OG	2.47	0.47
3:D:283:VAL:O	3:D:286:ILE:HG22	2.15	0.47
4:K:148:VAL:O	4:K:158:ASN:HB3	2.14	0.47
4:K:194:VAL:O	4:K:197:THR:OG1	2.25	0.47
4:K:273:SER:OG	4:L:179:GLN:OE1	2.31	0.47
4:K:338:PRO:HB2	4:K:341:MET:HG2	1.96	0.47
4:L:273:SER:HA	4:M:179:GLN:NE2	2.30	0.47
4:L:378:PHE:HE2	4:L:452:TYR:HB3	1.80	0.47
4:M:160:GLN:CG	4:M:161:LYS:H	2.27	0.47
4:M:327:LYS:HD2	4:M:328:ILE:N	2.29	0.47
4:M:395:ASN:N	4:M:397:LYS:HD3	2.29	0.47
4:M:568:ILE:O	4:M:572:LEU:HG	2.14	0.47
5:O:641:ILE:HG13	5:O:643:PRO:HD3	1.96	0.47
5:O:707:GLU:CD	5:O:758:ARG:HH11	2.22	0.47
5:O:769:LEU:HA	5:O:861:TRP:HA	1.96	0.47
5:O:987:ASP:C	5:O:988:LEU:HD22	2.40	0.47
3:P:307:ASN:HA	3:P:314:ARG:CZ	2.44	0.47
6:X:56:GLY:O	6:X:58:VAL:HG13	2.14	0.47
6:X:314:ALA:C	6:X:315:LEU:HD22	2.39	0.47
6:X:337:PRO:O	6:X:340:LEU:N	2.39	0.47
6:Y:227:GLU:HA	6:Y:230:HIS:ND1	2.30	0.47
1:B:406:MET:HB3	1:B:407:TYR:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:502:ASN:C	1:B:503:ARG:HD2	2.40	0.47
1:B:518:GLN:NE2	1:B:828:PHE:HD1	2.11	0.47
1:B:636:LEU:O	1:B:639:THR:OG1	2.25	0.47
1:B:702:LEU:HA	1:B:705:TRP:HB2	1.96	0.47
1:B:1007:ARG:NH1	1:B:1007:ARG:HA	2.29	0.47
1:B:1094:ILE:HD12	1:B:1095:ARG:H	1.79	0.47
1:B:1146:TYR:HA	1:B:1178:VAL:N	2.29	0.47
1:B:1253:LEU:HD12	1:B:1253:LEU:HA	1.68	0.47
2:C:419:ILE:HG23	2:C:420:CYS:H	1.79	0.47
2:C:446:GLU:HG3	2:C:447:TRP:CD1	2.50	0.47
2:C:482:ALA:O	2:C:485:GLU:HB3	2.14	0.47
2:C:541:VAL:O	2:C:544:GLN:HB3	2.14	0.47
2:C:851:ARG:NH1	2:C:863:SER:OG	2.48	0.47
3:D:18:ASN:HD22	3:D:91:PHE:HZ	1.63	0.47
3:D:21:ILE:HG22	3:D:22:ASN:N	2.30	0.47
3:D:137:PRO:O	3:D:140:LYS:HB3	2.14	0.47
3:D:165:ARG:NH2	3:D:167:ASP:OD2	2.48	0.47
3:D:339:PHE:O	3:D:343:LEU:HD23	2.14	0.47
4:K:324:ARG:NH2	4:K:490:ASP:HB2	2.30	0.47
4:L:426:ASN:OD1	4:L:448:LEU:HD11	2.14	0.47
4:L:429:GLN:C	4:L:430:LEU:HD22	2.40	0.47
4:M:471:THR:HG22	4:M:472:PHE:N	2.30	0.47
5:O:737:ALA:HB1	5:O:757:ARG:NH2	2.30	0.47
5:O:1052:VAL:HG11	5:O:1066:GLU:CD	2.39	0.47
5:O:1199:ARG:HG2	5:O:1211:GLN:OE1	2.14	0.47
5:O:1263:VAL:HA	5:O:1277:TYR:CD1	2.50	0.47
3:P:361:ALA:O	3:P:365:GLN:HG2	2.15	0.47
6:Y:180:VAL:H	6:Y:364:LEU:H	1.63	0.47
1:B:846:MET:SD	1:B:870:THR:HG21	2.55	0.47
1:B:1041:ALA:HB2	1:B:1146:TYR:HE1	1.80	0.47
2:C:931:LEU:HD11	2:C:987:LEU:HD23	1.97	0.47
2:C:951:TRP:CD1	2:C:951:TRP:H	2.33	0.47
2:C:1120:ARG:N	2:C:1120:ARG:HD2	2.29	0.47
3:D:137:PRO:O	3:D:141:HIS:ND1	2.47	0.47
3:D:174:ASP:HA	3:D:177:GLN:NE2	2.29	0.47
3:D:344:ARG:HE	3:D:354:GLN:NE2	2.13	0.47
4:K:24:ALA:HB1	4:K:205:ILE:HD12	1.95	0.47
4:K:229:ILE:HG23	4:K:230:ARG:HD3	1.96	0.47
4:K:284:LYS:HA	4:K:287:GLU:OE1	2.15	0.47
4:K:463:GLU:HG3	4:K:464:MET:HG2	1.96	0.47
4:L:216:VAL:HA	4:L:219:LEU:HG	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:242:LYS:HE3	4:L:243:ARG:HH21	1.80	0.47
4:L:368:VAL:O	4:L:467:TYR:HA	2.15	0.47
4:L:600:MET:HE3	4:L:604:ILE:HG13	1.96	0.47
4:M:67:THR:OG1	4:M:68:SER:N	2.47	0.47
4:M:109:ALA:HB1	4:M:113:LYS:HZ3	1.79	0.47
4:M:581:TYR:CD2	6:Y:71:HIS:CE1	3.02	0.47
5:O:290:GLN:OE1	3:P:135:ARG:HG2	2.15	0.47
5:O:405:ALA:C	5:O:772:LEU:HD13	2.39	0.47
5:O:492:HIS:C	5:O:494:TYR:H	2.21	0.47
5:O:635:ILE:HA	5:O:657:GLY:O	2.15	0.47
5:O:1192:LYS:CE	5:O:1220:ILE:H	2.28	0.47
3:P:46:ILE:HG13	3:P:48:LEU:N	2.29	0.47
6:X:183:PHE:CD1	6:X:261:THR:HB	2.49	0.47
6:Y:117:ASP:O	6:Y:121:VAL:HG22	2.13	0.47
6:Y:236:ARG:HH11	6:Y:239:ARG:NE	2.12	0.47
6:Z:257:TYR:CD2	6:Z:342:MET:HE3	2.50	0.47
6:Z:347:THR:HG22	6:Z:349:PHE:N	2.27	0.47
1:B:267:LYS:HB3	1:B:310:TRP:CH2	2.50	0.47
1:B:433:ARG:HG3	1:B:449:ASP:O	2.15	0.47
1:B:599:LEU:HA	1:B:832:GLN:CD	2.39	0.47
1:B:622:SER:OG	1:B:624:GLU:OE1	2.20	0.47
1:B:1151:TYR:O	1:B:1184:ILE:HG13	2.15	0.47
1:B:1189:ASP:OD1	1:B:1190:ILE:N	2.48	0.47
1:B:1228:PRO:HB2	1:B:1230:GLU:HB2	1.96	0.47
2:C:381:ASP:HB2	2:C:391:LEU:HD21	1.96	0.47
2:C:418:LYS:HE3	2:C:1214:SER:HA	1.97	0.47
2:C:810:TYR:HD1	2:C:814:LEU:HB2	1.80	0.47
2:C:913:GLU:HB3	2:C:917:ASN:OD1	2.14	0.47
2:C:998:ALA:HB1	2:C:1010:ASN:ND2	2.26	0.47
2:C:1077:PHE:HB3	2:C:1081:CYS:SG	2.55	0.47
2:C:1121:TYR:O	2:C:1124:GLN:HB2	2.15	0.47
2:C:1185:SER:CB	2:C:1213:ASN:HD21	2.27	0.47
2:C:1229:VAL:HG23	2:C:1236:THR:HG21	1.95	0.47
3:D:107:ALA:HB3	3:D:112:LEU:CD2	2.45	0.47
3:D:293:GLY:O	3:D:297:SER:OG	2.27	0.47
3:D:306:ASN:HD21	3:D:320:THR:HG22	1.80	0.47
3:D:336:VAL:O	3:D:339:PHE:HB3	2.15	0.47
4:K:16:ASP:N	4:K:16:ASP:OD1	2.46	0.47
4:K:120:PHE:CE2	4:K:242:LYS:HG2	2.50	0.47
4:K:401:PHE:HA	4:K:470:ALA:HA	1.95	0.47
4:K:405:GLN:HG3	4:K:421:GLN:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:10:THR:OG1	4:L:11:ILE:HD12	2.14	0.47
4:L:47:PRO:HD3	4:L:102:VAL:HG13	1.96	0.47
4:L:48:TRP:HD1	4:L:148:VAL:HA	1.80	0.47
4:L:563:PRO:HG3	4:M:190:ILE:HD11	1.96	0.47
4:M:205:ILE:HD12	4:M:651:LEU:HD12	1.95	0.47
4:M:229:ILE:HD13	4:M:232:TYR:HB2	1.96	0.47
4:M:327:LYS:NZ	4:M:328:ILE:HG13	2.29	0.47
4:M:382:LEU:HD23	4:M:382:LEU:H	1.79	0.47
4:M:388:LYS:NZ	4:M:389:GLU:O	2.40	0.47
4:M:395:ASN:H	4:M:397:LYS:HD3	1.80	0.47
4:M:576:GLN:NE2	4:M:587:ASN:H	2.13	0.47
4:M:581:TYR:CD2	6:Y:73:CYS:HB3	2.50	0.47
4:M:661:THR:O	4:M:665:LEU:HG	2.14	0.47
5:O:6:GLY:HA3	5:O:333:GLN:C	2.40	0.47
5:O:44:LYS:HB2	5:O:60:PHE:HZ	1.79	0.47
5:O:218:ALA:HB1	5:O:236:GLY:O	2.15	0.47
5:O:267:ASN:ND2	5:O:311:GLY:HA2	2.30	0.47
5:O:509:ARG:HH22	5:O:543:PRO:HD2	1.79	0.47
5:O:530:ILE:HG23	5:O:533:TRP:CE3	2.50	0.47
5:O:648:ASN:HA	5:O:681:TYR:CZ	2.50	0.47
5:O:944:SER:HA	5:O:947:LYS:HD3	1.96	0.47
5:O:1004:ALA:O	5:O:1008:ILE:HG12	2.15	0.47
3:P:305:ASP:OD1	3:P:306:ASN:N	2.47	0.47
3:P:373:GLU:O	3:P:377:ARG:HG2	2.14	0.47
6:X:14:LEU:HD13	6:X:45:CYS:HA	1.96	0.47
6:X:224:ASP:H	6:X:354:TYR:HB3	1.80	0.47
6:Y:22:ARG:HH22	6:Y:96:LYS:HG3	1.80	0.47
6:Y:51:CYS:O	6:Y:55:LEU:HA	2.13	0.47
6:Z:322:GLY:HA2	6:Z:325:ASN:ND2	2.30	0.47
1:B:560:MET:O	1:B:560:MET:HE3	2.15	0.47
1:B:1109:ILE:CD1	1:B:1138:ARG:HB3	2.44	0.47
2:C:283:TYR:HB2	2:C:290:TYR:CB	2.43	0.47
3:D:36:PRO:HG2	3:D:37:TRP:CD1	2.50	0.47
4:K:137:TYR:CE1	4:K:140:LEU:HD13	2.50	0.47
4:K:143:TYR:HA	4:K:163:VAL:O	2.15	0.47
4:K:401:PHE:CE1	4:K:448:LEU:HG	2.49	0.47
4:K:426:ASN:CG	6:Z:61:LEU:HB2	2.40	0.47
4:K:565:SER:OG	4:K:600:MET:SD	2.73	0.47
4:K:590:GLY:O	4:K:593:SER:OG	2.32	0.47
4:L:48:TRP:HB3	4:L:63:LEU:HD23	1.95	0.47
4:L:571:GLN:HE22	4:L:572:LEU:HD23	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:123:GLU:OE2	4:M:127:LYS:HE2	2.14	0.47
4:M:414:THR:OG1	4:M:418:GLN:NE2	2.42	0.47
5:O:1056:TYR:CE1	5:O:1061:LEU:HD13	2.50	0.47
6:X:176:SER:OG	6:X:177:SER:N	2.47	0.47
6:Y:79:HIS:HA	6:Y:82:TYR:CE2	2.50	0.47
6:Y:105:GLN:OE1	6:Y:136:VAL:HG13	2.15	0.47
6:Y:197:LEU:HB3	6:Y:201:ALA:HB1	1.96	0.47
6:Y:310:LYS:HZ2	6:Y:313:TYR:HD2	1.61	0.47
6:Z:102:PHE:HA	6:Z:105:GLN:OE1	2.15	0.47
1:B:279:ASP:OD1	1:B:280:VAL:N	2.46	0.47
2:C:634:LEU:O	2:C:637:PRO:HD2	2.14	0.47
2:C:669:TYR:HB3	2:C:673:ARG:CZ	2.45	0.47
2:C:682:HIS:HB2	3:P:173:GLY:CA	2.45	0.47
3:D:96:TRP:CZ3	3:D:104:LEU:HD11	2.49	0.47
3:D:180:MET:HE2	3:D:237:PHE:HZ	1.79	0.47
4:K:222:GLN:HE22	4:M:589:LYS:HB3	1.78	0.47
4:K:308:PRO:HA	4:K:511:SER:O	2.15	0.47
4:K:324:ARG:HH21	4:K:490:ASP:HB2	1.80	0.47
4:K:620:ASP:HA	6:X:2:GLU:CD	2.40	0.47
4:L:113:LYS:HE2	4:M:40:MET:HA	1.96	0.47
4:L:381:ASP:O	4:L:491:ALA:HB1	2.14	0.47
4:M:30:ALA:O	4:M:32:PRO:HD3	2.14	0.47
4:M:358:HIS:HB2	4:M:476:ALA:O	2.15	0.47
5:O:56:ALA:HA	5:O:175:MET:HG2	1.97	0.47
5:O:61:ARG:HG3	5:O:64:GLN:HG3	1.97	0.47
5:O:78:ALA:HB3	5:O:81:ASP:CG	2.40	0.47
5:O:255:MET:HE1	5:O:283:TYR:CE1	2.50	0.47
5:O:456:LEU:HD11	5:O:460:TYR:CG	2.50	0.47
5:O:1054:ASN:ND2	5:O:1104:LEU:HD21	2.29	0.47
5:O:1243:SER:OG	5:O:1283:ASP:HB3	2.14	0.47
3:P:80:PHE:HA	3:P:84:HIS:HD2	1.80	0.47
3:P:80:PHE:HA	3:P:84:HIS:CD2	2.50	0.47
3:P:335:MET:O	3:P:338:GLU:HG3	2.15	0.47
3:P:377:ARG:HA	3:P:380:ASP:OD1	2.15	0.47
6:X:10:GLN:HB3	6:X:45:CYS:SG	2.55	0.47
6:X:228:LEU:HD22	6:X:239:ARG:HD3	1.97	0.47
6:Y:192:PHE:HD1	6:Y:206:PHE:HE2	1.63	0.47
6:Y:236:ARG:HG2	6:Y:239:ARG:HH21	1.79	0.47
1:B:600:TYR:CE2	1:B:830:PRO:HA	2.50	0.47
1:B:623:LEU:HG	1:B:627:TRP:NE1	2.29	0.47
1:B:770:GLU:OE2	1:B:774:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:849:VAL:H	1:B:869:THR:N	2.13	0.47
1:B:851:ARG:NH1	1:B:986:PRO:HA	2.30	0.47
2:C:474:ILE:HG22	2:C:475:ASN:H	1.80	0.47
2:C:682:HIS:NE2	3:P:177:GLN:OE1	2.47	0.47
3:D:223:SER:N	3:D:228:ILE:HD12	2.30	0.47
4:L:193:ARG:CZ	4:L:196:GLN:HB2	2.45	0.47
4:L:207:GLU:HG3	4:L:208:VAL:N	2.29	0.47
4:M:380:LEU:HD11	4:M:491:ALA:HB3	1.97	0.47
5:O:438:TYR:HB3	5:O:641:ILE:HD13	1.97	0.47
5:O:923:LEU:HA	5:O:1019:MET:O	2.15	0.47
3:P:35:SER:OG	3:P:37:TRP:O	2.27	0.47
3:P:61:ALA:HA	3:P:64:ARG:CB	2.45	0.47
3:P:336:VAL:HA	3:P:339:PHE:HB3	1.96	0.47
6:X:26:TYR:CE1	6:X:31:GLY:HA2	2.50	0.47
6:Y:180:VAL:N	6:Y:364:LEU:H	2.13	0.47
1:B:1049:ARG:HH12	1:B:1132:THR:HG23	1.80	0.46
2:C:392:ARG:HH21	2:C:394:LEU:HD11	1.80	0.46
2:C:1104:PHE:HB2	2:C:1129:TRP:CE3	2.50	0.46
2:C:1107:ASN:O	2:C:1108:TRP:HD1	1.98	0.46
2:C:1157:ALA:HB1	2:C:1181:MET:HE1	1.97	0.46
2:C:1158:ASN:CG	2:C:1160:TRP:H	2.23	0.46
3:D:149:ALA:HA	3:D:152:LEU:HD23	1.97	0.46
3:D:174:ASP:N	3:D:174:ASP:OD2	2.48	0.46
4:K:272:PRO:HA	4:K:276:ALA:O	2.14	0.46
4:L:402:ILE:HG23	4:L:424:VAL:N	2.31	0.46
4:L:457:LEU:HD23	4:L:457:LEU:HA	1.68	0.46
4:L:569:GLN:NE2	4:L:592:LEU:HB2	2.29	0.46
4:M:332:THR:C	4:M:335:ARG:HH12	2.23	0.46
4:M:650:LYS:O	4:M:653:SER:OG	2.26	0.46
5:O:511:SER:HG	5:O:572:GLN:HE21	1.62	0.46
5:O:728:SER:HA	5:O:731:CYS:SG	2.55	0.46
5:O:1019:MET:HB3	5:O:1021:ILE:HD11	1.97	0.46
5:O:1230:LEU:HB2	5:O:1279:VAL:HG21	1.97	0.46
3:P:152:LEU:HD21	3:P:319:TRP:CE2	2.51	0.46
3:P:375:TRP:HA	3:P:378:GLU:CD	2.39	0.46
6:Y:102:PHE:HA	6:Y:105:GLN:CD	2.40	0.46
6:Y:222:VAL:HG22	6:Y:359:GLY:H	1.79	0.46
6:Z:132:ASN:HD21	6:Z:134:LEU:HB2	1.80	0.46
6:Z:320:MET:HA	6:Z:323:TRP:HB3	1.96	0.46
1:B:441:ASN:ND2	2:C:864:LEU:HG	2.29	0.46
1:B:705:TRP:CE3	1:B:705:TRP:HA	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:807:THR:HA	1:B:810:TYR:HB3	1.96	0.46
1:B:1119:THR:HG21	1:B:1170:ILE:HG23	1.96	0.46
2:C:432:GLY:H	2:C:451:PHE:HB2	1.79	0.46
2:C:591:PHE:O	2:C:595:LEU:HG	2.14	0.46
2:C:854:ARG:NE	3:P:258:ASN:HB3	2.30	0.46
2:C:969:VAL:O	2:C:973:MET:HG2	2.14	0.46
2:C:1189:ASP:OD1	2:C:1190:ILE:N	2.45	0.46
4:K:24:ALA:HB2	4:K:206:GLY:H	1.79	0.46
4:K:171:GLN:HA	4:K:174:TYR:HB3	1.97	0.46
4:K:175:VAL:HA	4:K:178:ILE:HG12	1.97	0.46
4:K:260:GLU:HB3	4:L:65:ARG:HH12	1.80	0.46
4:K:358:HIS:CG	4:K:477:ALA:HA	2.50	0.46
4:L:187:LYS:HA	4:L:190:ILE:HD12	1.97	0.46
4:M:263:ASN:ND2	4:M:267:ALA:HB2	2.30	0.46
4:M:337:ILE:HB	4:M:365:THR:N	2.30	0.46
4:M:448:LEU:HA	4:M:448:LEU:HD12	1.75	0.46
4:M:463:GLU:OE2	4:M:463:GLU:N	2.45	0.46
5:O:371:ARG:NH2	5:O:375:LEU:HB2	2.29	0.46
5:O:581:VAL:HG23	5:O:582:VAL:N	2.30	0.46
5:O:594:LEU:O	5:O:598:LEU:HG	2.16	0.46
5:O:1264:LEU:HG	5:O:1277:TYR:HA	1.97	0.46
3:P:221:TRP:O	3:P:224:TYR:HB3	2.16	0.46
6:X:177:SER:HB2	6:X:179:LEU:HD11	1.96	0.46
6:Y:141:MET:HA	6:Y:144:SER:O	2.16	0.46
6:Z:97:ARG:NH2	6:Z:156:VAL:HG22	2.29	0.46
6:Z:236:ARG:HA	6:Z:239:ARG:HE	1.80	0.46
1:B:338:LEU:HG	1:B:968:TRP:CD2	2.50	0.46
1:B:488:GLN:NE2	1:B:905:ILE:HG21	2.30	0.46
1:B:657:VAL:HG22	1:B:671:GLN:NE2	2.30	0.46
1:B:772:MET:O	1:B:775:LEU:HB3	2.14	0.46
1:B:1185:SER:OG	1:B:1186:SER:N	2.49	0.46
2:C:745:HIS:CG	2:C:816:PRO:HG3	2.51	0.46
2:C:1147:MET:HG2	2:C:1177:SER:OG	2.16	0.46
3:D:182:TYR:HA	3:D:185:HIS:CE1	2.51	0.46
3:D:350:THR:HG23	3:D:353:GLN:H	1.80	0.46
4:K:123:GLU:HG3	4:K:239:ALA:HB2	1.97	0.46
4:K:193:ARG:NH1	4:M:638:LYS:HE3	2.29	0.46
4:K:336:MET:SD	4:K:366:ARG:HB3	2.55	0.46
4:K:402:ILE:HD13	4:K:469:LEU:HG	1.97	0.46
4:L:16:ASP:CG	4:L:17:GLY:H	2.24	0.46
4:L:122:ARG:HE	4:M:153:ARG:HB2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:244:ASN:HB3	4:L:247:ILE:HD12	1.98	0.46
4:L:284:LYS:HA	4:L:287:GLU:CG	2.42	0.46
4:L:487:ASP:HB2	4:L:489:TRP:CD1	2.51	0.46
4:M:155:ALA:HA	4:M:158:ASN:HD22	1.78	0.46
4:M:386:SER:OG	4:M:441:SER:O	2.34	0.46
5:O:131:ASP:N	5:O:131:ASP:OD1	2.47	0.46
5:O:241:MET:HE3	5:O:243:SER:HB3	1.97	0.46
5:O:319:PRO:HD2	5:O:322:LEU:HD23	1.96	0.46
5:O:550:PHE:HE2	5:O:557:GLY:HA3	1.80	0.46
5:O:1092:VAL:HG22	5:O:1093:PHE:H	1.80	0.46
6:X:52:MET:SD	6:X:55:LEU:HD13	2.56	0.46
6:X:196:ARG:O	6:X:198:GLU:HG3	2.15	0.46
6:Y:10:GLN:HA	6:Y:13:ASP:OD1	2.15	0.46
6:Y:172:LEU:HG	6:Y:252:PHE:CE2	2.48	0.46
1:B:247:LEU:HG	1:B:521:ARG:HH21	1.79	0.46
1:B:318:ARG:HH11	1:B:370:LEU:HB3	1.79	0.46
1:B:426:CYS:HB3	1:B:1235:LEU:HB3	1.98	0.46
1:B:731:ASN:ND2	1:B:737:GLU:H	2.14	0.46
1:B:782:GLN:HA	1:B:785:TRP:HB2	1.96	0.46
2:C:930:THR:O	2:C:933:THR:OG1	2.33	0.46
2:C:1003:GLN:HB2	2:C:1006:GLY:C	2.40	0.46
3:D:377:ARG:O	3:D:381:GLN:HG3	2.15	0.46
4:K:140:LEU:HD21	4:K:166:ILE:HG21	1.97	0.46
4:K:223:LEU:O	4:M:589:LYS:NZ	2.48	0.46
4:K:224:PRO:O	4:K:230:ARG:NE	2.48	0.46
4:K:572:LEU:HD22	4:K:592:LEU:HD21	1.97	0.46
4:L:389:GLU:HB3	4:L:392:TRP:HB3	1.97	0.46
4:M:392:TRP:CD1	4:M:397:LYS:HZ1	2.33	0.46
4:M:463:GLU:HG2	4:M:464:MET:HE2	1.97	0.46
5:O:37:ASN:HD21	5:O:40:ARG:HE	1.61	0.46
5:O:508:SER:OG	5:O:543:PRO:O	2.32	0.46
5:O:512:VAL:N	5:O:548:ARG:HH22	2.12	0.46
5:O:574:VAL:HB	5:O:612:PHE:CB	2.45	0.46
5:O:730:LEU:O	5:O:733:ASN:HB2	2.15	0.46
6:X:201:ALA:HA	6:X:218:TRP:HZ2	1.80	0.46
6:X:224:ASP:HB3	6:X:354:TYR:HB3	1.96	0.46
6:X:266:GLY:O	6:X:268:MET:HG2	2.15	0.46
6:Y:33:ASP:OD2	6:Y:35:THR:N	2.47	0.46
1:B:501:VAL:HG13	1:B:502:ASN:N	2.29	0.46
1:B:803:ILE:C	1:B:804:LYS:HD2	2.40	0.46
1:B:864:LEU:HD12	1:B:867:THR:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:497:TYR:OH	3:D:189:GLU:OE1	2.28	0.46
2:C:509:ILE:HD12	2:C:513:GLU:CD	2.41	0.46
2:C:949:LEU:HD13	2:C:951:TRP:NE1	2.31	0.46
2:C:974:LYS:HB3	2:C:979:LEU:O	2.16	0.46
2:C:985:GLU:N	2:C:986:PRO:HD2	2.30	0.46
2:C:1180:PHE:CE2	2:C:1199:ILE:HG21	2.48	0.46
2:C:1212:THR:HB	2:C:1213:ASN:HD22	1.79	0.46
3:D:350:THR:HG22	3:D:353:GLN:NE2	2.21	0.46
4:K:42:ASN:ND2	4:M:116:MET:HB2	2.30	0.46
4:K:208:VAL:HA	4:K:662:GLN:HE22	1.81	0.46
4:K:398:LYS:O	4:K:473:ILE:N	2.31	0.46
4:K:435:SER:H	4:K:441:SER:HA	1.81	0.46
4:L:515:PRO:O	4:L:519:ILE:HG12	2.15	0.46
4:M:548:GLU:O	4:M:551:LYS:HG3	2.15	0.46
4:M:609:THR:HA	4:M:612:THR:HG23	1.98	0.46
5:O:441:TYR:OH	5:O:443:ARG:HD2	2.16	0.46
5:O:457:PRO:C	5:O:459:THR:H	2.24	0.46
5:O:995:LEU:C	5:O:998:SER:H	2.22	0.46
3:P:8:PHE:CZ	3:P:125:TYR:HD1	2.34	0.46
3:P:170:MET:HE2	3:P:214:GLN:NE2	2.30	0.46
3:P:211:ARG:HA	3:P:214:GLN:CD	2.40	0.46
3:P:228:ILE:HG21	3:P:234:TYR:HB2	1.97	0.46
6:X:53:HIS:CD2	6:X:75:GLN:HE22	2.32	0.46
6:X:171:ASN:HD22	6:X:174:ILE:HD11	1.79	0.46
6:Y:19:PHE:CD1	6:Y:291:LYS:HE3	2.49	0.46
6:Y:292:LEU:O	6:Y:295:VAL:HG22	2.15	0.46
6:Z:15:ILE:HG22	6:Z:19:PHE:HZ	1.79	0.46
6:Z:308:VAL:HA	6:Z:311:ILE:CD1	2.45	0.46
6:Z:320:MET:HG3	6:Z:323:TRP:CE3	2.51	0.46
1:B:577:ILE:HD13	1:B:627:TRP:HB3	1.97	0.46
1:B:622:SER:HB3	1:B:625:ASN:ND2	2.30	0.46
1:B:650:MET:HG3	1:B:654:ASN:HD21	1.81	0.46
1:B:1047:ILE:HG23	1:B:1137:ILE:HB	1.96	0.46
2:C:512:ALA:O	2:C:516:ILE:HG23	2.16	0.46
2:C:552:ASP:OD2	2:C:555:ILE:HG23	2.15	0.46
2:C:681:PRO:HD2	2:C:1004:TYR:CE1	2.51	0.46
2:C:856:THR:HG23	3:P:349:MET:HA	1.97	0.46
3:D:19:VAL:HG21	3:D:73:SER:OG	2.15	0.46
3:D:91:PHE:C	3:D:93:ARG:H	2.21	0.46
3:D:140:LYS:O	3:D:144:TYR:HB2	2.16	0.46
4:K:193:ARG:HH21	4:M:634:SER:C	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:18:ASN:OD1	4:L:250:MET:N	2.48	0.46
4:L:332:THR:N	4:L:506:LYS:O	2.43	0.46
4:L:344:LEU:HD13	4:L:362:ARG:HB2	1.97	0.46
4:L:559:ASP:N	4:L:601:GLN:HE22	2.13	0.46
4:M:42:ASN:CG	4:M:43:PRO:HD2	2.40	0.46
4:M:505:VAL:HG12	6:Y:312:ARG:NH1	2.31	0.46
5:O:121:GLY:HA3	5:O:156:PHE:CZ	2.49	0.46
5:O:580:GLN:HE22	5:O:618:PHE:HZ	1.64	0.46
5:O:1044:ILE:O	5:O:1086:GLU:HB3	2.15	0.46
3:P:39:LEU:O	3:P:43:LEU:HD13	2.15	0.46
6:X:211:ASP:CB	6:X:213:ARG:HE	2.28	0.46
6:Y:208:ARG:HH12	6:Y:286:ILE:HA	1.81	0.46
6:Y:221:MET:HE2	6:Y:263:PRO:HB2	1.97	0.46
1:B:674:ARG:O	1:B:677:ALA:HB3	2.16	0.46
1:B:1135:LEU:HD12	1:B:1136:ARG:N	2.29	0.46
1:B:1246:GLN:HB3	1:B:1249:GLU:HB2	1.97	0.46
2:C:265:SER:OG	2:C:309:ARG:HG3	2.16	0.46
2:C:692:GLN:HA	2:C:703:ARG:NH2	2.30	0.46
2:C:755:LEU:HD23	2:C:755:LEU:HA	1.76	0.46
3:D:94:LEU:HA	3:D:105:VAL:C	2.40	0.46
4:K:19:VAL:O	4:K:248:GLN:HB2	2.16	0.46
4:K:118:LEU:H	4:K:118:LEU:HD12	1.81	0.46
4:K:133:VAL:HG22	4:L:153:ARG:NH1	2.29	0.46
4:K:298:PRO:O	4:K:301:ILE:HG12	2.15	0.46
4:K:461:ASP:C	4:K:463:GLU:H	2.24	0.46
4:L:152:ALA:HA	4:L:155:ALA:HB3	1.98	0.46
4:L:508:ALA:HB3	6:Z:312:ARG:NH2	2.28	0.46
4:M:119:GLU:HA	4:M:122:ARG:HG3	1.97	0.46
4:M:539:MET:HE2	4:M:539:MET:HB2	1.89	0.46
4:M:625:ILE:C	4:M:629:GLN:HE21	2.20	0.46
5:O:13:LEU:CD1	5:O:358:PRO:HD2	2.44	0.46
5:O:47:ARG:HB2	5:O:52:ASN:OD1	2.16	0.46
5:O:202:ASP:C	5:O:231:HIS:HB2	2.41	0.46
5:O:334:ILE:C	5:O:336:SER:H	2.24	0.46
5:O:907:PHE:O	5:O:911:ILE:HG12	2.15	0.46
5:O:1073:ILE:HG23	5:O:1092:VAL:O	2.16	0.46
5:O:1131:PRO:HD2	5:O:1143:VAL:HG22	1.98	0.46
5:O:1155:THR:HG23	5:O:1198:ILE:HA	1.98	0.46
5:O:1193:TYR:CZ	5:O:1286:LEU:HD13	2.51	0.46
3:P:186:THR:HG22	3:P:188:ALA:H	1.79	0.46
6:Y:128:LEU:HD23	6:Y:128:LEU:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:336:THR:HB	6:Y:340:LEU:HD12	1.98	0.46
6:Z:328:MET:SD	6:Z:329:GLN:HG3	2.55	0.46
1:B:440:MET:H	2:C:862:LEU:N	2.11	0.46
1:B:474:ILE:HD11	1:B:507:TYR:HB2	1.97	0.46
1:B:521:ARG:NH2	1:B:828:PHE:HA	2.31	0.46
1:B:868:ASN:OD1	1:B:868:ASN:N	2.49	0.46
1:B:920:ARG:NH2	1:B:983:LEU:HD13	2.30	0.46
1:B:946:ASP:HB3	3:P:31:ARG:NH2	2.30	0.46
1:B:1104:PHE:HD1	1:B:1129:TRP:CD1	2.33	0.46
2:C:798:ASP:O	2:C:801:LYS:HG2	2.16	0.46
2:C:972:SER:HB2	2:C:973:MET:HE2	1.96	0.46
2:C:1074:VAL:HG13	2:C:1107:ASN:C	2.41	0.46
2:C:1178:VAL:HG22	2:C:1179:PRO:O	2.16	0.46
3:D:217:LEU:HD21	3:D:291:LEU:HD11	1.97	0.46
3:D:408:GLY:O	3:D:411:SER:OG	2.23	0.46
4:K:48:TRP:CG	4:K:65:ARG:HA	2.51	0.46
4:K:334:LEU:O	4:K:335:ARG:NE	2.49	0.46
4:K:632:LYS:CE	4:L:202:ASN:HD22	2.29	0.46
4:L:245:GLY:O	4:L:248:GLN:HG3	2.15	0.46
4:M:337:ILE:HG22	4:M:363:GLY:HA2	1.97	0.46
4:M:385:LYS:HD2	4:M:385:LYS:N	2.31	0.46
4:M:660:TRP:CE2	4:M:664:PHE:CZ	3.04	0.46
5:O:617:ASN:HB3	5:O:618:PHE:CE1	2.51	0.46
5:O:899:LYS:HB3	5:O:901:MET:SD	2.56	0.46
5:O:950:ARG:HD3	5:O:952:PRO:HD3	1.97	0.46
5:O:1194:LEU:HB2	5:O:1196:TYR:CE1	2.50	0.46
5:O:1227:ASP:OD2	5:O:1280:PRO:HA	2.16	0.46
3:P:25:LEU:HD11	3:P:391:MET:HE2	1.98	0.46
3:P:315:ASN:HD22	3:P:322:ARG:NE	2.14	0.46
3:P:344:ARG:HG2	3:P:354:GLN:NE2	2.30	0.46
3:P:354:GLN:HG2	3:P:358:GLU:OE2	2.16	0.46
6:Y:195:VAL:HG23	6:Y:197:LEU:HD21	1.96	0.46
6:Z:126:GLY:O	6:Z:364:LEU:HA	2.15	0.46
1:B:251:ASP:CB	1:B:979:LEU:HD22	2.45	0.46
1:B:414:PRO:HG2	2:C:1122:PHE:HE2	1.80	0.46
1:B:576:SER:HG	1:B:577:ILE:H	1.63	0.46
1:B:1125:GLN:HB2	1:B:1126:PHE:CD2	2.51	0.46
1:B:1149:HIS:N	1:B:1180:PHE:O	2.48	0.46
2:C:713:TRP:CD1	2:C:837:ARG:HH22	2.33	0.46
2:C:1082:ARG:O	2:C:1094:ILE:HG13	2.16	0.46
2:C:1108:TRP:HB2	2:C:1137:ILE:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:173:GLY:O	3:D:176:ASN:N	2.49	0.46
3:D:263:ILE:HG12	3:D:268:ARG:CZ	2.46	0.46
4:K:191:ASP:OD2	4:K:192:LEU:N	2.49	0.46
4:K:372:GLN:NE2	4:K:509:VAL:HG23	2.31	0.46
4:K:401:PHE:CD2	4:K:470:ALA:HB2	2.51	0.46
4:L:126:ASP:O	4:L:129:ARG:N	2.48	0.46
4:L:131:LEU:HG	4:L:133:VAL:O	2.16	0.46
4:L:535:ALA:O	4:L:539:MET:HG2	2.16	0.46
4:M:239:ALA:O	4:M:243:ARG:HG2	2.16	0.46
4:M:327:LYS:HZ3	4:M:328:ILE:HG13	1.81	0.46
5:O:530:ILE:O	5:O:533:TRP:HB3	2.16	0.46
5:O:1035:ILE:HG23	5:O:1120:ASP:HB2	1.98	0.46
5:O:1053:PHE:HD2	5:O:1103:ALA:HA	1.80	0.46
6:X:92:THR:HG22	6:X:96:LYS:HD2	1.97	0.46
6:X:315:LEU:HG	6:X:320:MET:HE1	1.97	0.46
6:Z:312:ARG:O	6:Z:316:GLY:HA2	2.16	0.46
1:B:556:ILE:O	1:B:559:THR:OG1	2.33	0.46
1:B:947:ARG:CZ	1:B:956:ARG:HH22	2.29	0.46
2:C:294:SER:OG	2:C:296:PHE:O	2.33	0.46
2:C:324:MET:HA	2:C:334:LEU:CD1	2.45	0.46
2:C:419:ILE:O	2:C:423:VAL:HG23	2.16	0.46
2:C:421:ASN:HD21	2:C:1217:PRO:CA	2.26	0.46
2:C:623:LEU:HD21	2:C:785:TRP:CH2	2.51	0.46
2:C:637:PRO:HA	2:C:713:TRP:CH2	2.50	0.46
2:C:677:ALA:HB3	2:C:678:PHE:CE1	2.51	0.46
2:C:754:THR:CG2	2:C:804:LYS:HB3	2.46	0.46
2:C:846:MET:HE2	2:C:866:THR:HA	1.97	0.46
2:C:969:VAL:HG13	2:C:973:MET:HE3	1.98	0.46
2:C:1093:MET:HB3	2:C:1101:MET:HB3	1.98	0.46
2:C:1166:TRP:CD1	2:C:1179:PRO:HD3	2.50	0.46
4:L:224:PRO:O	4:L:230:ARG:NH2	2.48	0.46
4:L:413:TRP:CD1	4:L:418:GLN:CD	2.93	0.46
4:L:559:ASP:H	4:L:601:GLN:NE2	2.14	0.46
4:M:375:PRO:HD2	4:M:499:SER:OG	2.16	0.46
4:M:382:LEU:HG	4:M:443:ILE:HG21	1.98	0.46
3:P:156:THR:C	3:P:158:PHE:H	2.24	0.46
3:P:161:ILE:CA	3:P:272:VAL:O	2.50	0.46
3:P:185:HIS:O	3:P:252:ILE:HG13	2.16	0.46
3:P:189:GLU:HG2	3:P:190:ILE:HD12	1.98	0.46
6:Y:219:GLY:HA3	6:Y:358:ILE:HD13	1.98	0.46
6:Y:293:LYS:HA	6:Y:296:ARG:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:120:ARG:C	6:Z:120:ARG:HD3	2.41	0.46
6:Z:134:LEU:H	6:Z:134:LEU:HG	1.59	0.46
1:B:364:GLU:O	1:B:367:LEU:HB3	2.16	0.45
1:B:370:LEU:HD11	1:B:465:TRP:CD2	2.52	0.45
1:B:413:THR:O	2:C:1082:ARG:HD2	2.16	0.45
1:B:1003:GLN:HE21	1:B:1004:TYR:HB3	1.80	0.45
1:B:1047:ILE:CD1	1:B:1198:TYR:HB3	2.46	0.45
2:C:347:ARG:HD2	2:C:347:ARG:HA	1.81	0.45
2:C:451:PHE:CD1	2:C:1256:VAL:HB	2.51	0.45
2:C:600:TYR:O	2:C:603:VAL:HG22	2.16	0.45
2:C:1096:ASP:OD1	2:C:1096:ASP:N	2.48	0.45
3:D:9:LYS:HG2	3:D:124:VAL:HG12	1.98	0.45
3:D:283:VAL:HG22	3:D:287:LEU:HG	1.97	0.45
3:D:365:GLN:O	3:D:369:ARG:HG2	2.16	0.45
3:D:395:LYS:HD2	3:D:396:PRO:HD2	1.99	0.45
4:K:222:GLN:HA	4:M:589:LYS:HZ3	1.82	0.45
4:K:445:THR:HG23	4:L:325:THR:O	2.16	0.45
4:K:483:MET:HE1	4:K:485:GLN:O	2.16	0.45
4:K:638:LYS:C	4:L:30:ALA:HB3	2.41	0.45
4:L:193:ARG:HH21	4:L:197:THR:HA	1.81	0.45
4:L:297:GLU:HB3	4:M:650:LYS:HZ1	1.81	0.45
4:L:324:ARG:NH2	4:L:489:TRP:N	2.62	0.45
4:M:137:TYR:HB2	4:M:174:TYR:CE2	2.51	0.45
4:M:662:GLN:NE2	4:M:665:LEU:HD12	2.31	0.45
5:O:27:LEU:CB	5:O:108:ASN:HA	2.45	0.45
5:O:38:PRO:HG3	5:O:87:ARG:HH12	1.80	0.45
5:O:414:VAL:HA	5:O:417:LEU:HD12	1.97	0.45
5:O:510:GLN:HB2	5:O:572:GLN:CD	2.41	0.45
5:O:723:ALA:O	5:O:727:ILE:HG22	2.16	0.45
5:O:765:ARG:HB2	5:O:838:GLU:OE2	2.16	0.45
5:O:1053:PHE:O	5:O:1065:THR:N	2.48	0.45
6:Y:171:ASN:HB2	6:Y:252:PHE:CE2	2.51	0.45
6:Z:120:ARG:NH2	6:Z:124:GLU:OE1	2.50	0.45
6:Z:195:VAL:HG13	6:Z:197:LEU:HG	1.98	0.45
1:B:608:ILE:HG23	1:B:877:LEU:O	2.16	0.45
1:B:737:GLU:HB3	5:O:213:THR:HG23	1.97	0.45
1:B:807:THR:C	1:B:810:TYR:HB3	2.41	0.45
1:B:920:ARG:NH1	1:B:924:THR:OG1	2.49	0.45
2:C:268:ILE:HG12	2:C:1210:PHE:CG	2.51	0.45
2:C:740:LEU:HD13	2:C:835:TYR:CG	2.52	0.45
2:C:754:THR:HG23	2:C:804:LYS:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1166:TRP:HE1	2:C:1177:SER:C	2.24	0.45
2:C:1199:ILE:C	2:C:1200:ILE:HG13	2.41	0.45
3:D:31:ARG:HD2	3:D:45:TRP:CZ2	2.49	0.45
3:D:66:TYR:HB3	3:D:393:ARG:O	2.16	0.45
4:K:282:LYS:O	4:K:285:LEU:HG	2.16	0.45
4:K:654:SER:O	4:K:658:GLN:HG3	2.16	0.45
4:L:636:ARG:HH12	4:M:27:SER:HB3	1.80	0.45
4:M:393:ASP:OD2	4:M:395:ASN:HB3	2.16	0.45
4:M:395:ASN:ND2	4:M:432:ALA:O	2.49	0.45
4:M:404:PHE:O	4:M:466:TYR:HA	2.16	0.45
5:O:37:ASN:CG	5:O:40:ARG:HB2	2.42	0.45
5:O:160:HIS:O	5:O:163:VAL:HB	2.17	0.45
5:O:324:ASN:N	5:O:324:ASN:OD1	2.49	0.45
5:O:371:ARG:HG3	5:O:372:LYS:N	2.31	0.45
5:O:888:CYS:SG	5:O:924:VAL:HG23	2.56	0.45
5:O:967:GLU:HA	5:O:970:CYS:SG	2.56	0.45
3:P:380:ASP:O	3:P:384:GLN:HG2	2.17	0.45
6:X:167:TRP:CD1	6:X:280:CYS:HB2	2.51	0.45
6:X:218:TRP:HD1	6:X:219:GLY:O	1.98	0.45
6:X:347:THR:HG22	6:X:350:GLY:H	1.81	0.45
6:Y:95:TRP:HD1	6:Y:142:PHE:CE2	2.34	0.45
6:Z:307:GLY:H	6:Z:310:LYS:HE2	1.81	0.45
1:B:451:PHE:CD1	1:B:1256:VAL:HG22	2.52	0.45
1:B:504:LEU:HD21	1:B:1262:TYR:CD1	2.51	0.45
1:B:680:THR:HG21	1:B:682:HIS:NE2	2.30	0.45
2:C:685:PRO:O	2:C:688:PHE:N	2.46	0.45
2:C:851:ARG:HB2	2:C:852:GLN:OE1	2.15	0.45
2:C:1084:SER:O	2:C:1092:PRO:HA	2.16	0.45
3:D:285:LEU:H	3:D:285:LEU:HD12	1.82	0.45
4:K:118:LEU:HA	4:K:121:ASN:HD22	1.81	0.45
4:L:193:ARG:O	4:L:197:THR:HG23	2.15	0.45
4:L:212:MET:HA	4:L:215:VAL:CG2	2.46	0.45
4:L:223:LEU:HG	4:L:224:PRO:O	2.15	0.45
4:L:435:SER:HA	4:L:442:ILE:CG2	2.45	0.45
4:L:640:LEU:HD23	4:M:182:LEU:HD11	1.97	0.45
4:M:33:SER:OG	4:M:34:LEU:N	2.48	0.45
4:M:127:LYS:HA	4:M:127:LYS:HD3	1.55	0.45
5:O:19:GLU:HB3	5:O:277:THR:O	2.16	0.45
5:O:221:LEU:HD13	5:O:285:LEU:HA	1.98	0.45
5:O:295:ASP:OD1	5:O:295:ASP:N	2.47	0.45
5:O:439:VAL:O	5:O:639:MET:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:891:SER:H	5:O:925:GLN:HE22	1.64	0.45
5:O:1084:LYS:O	5:O:1086:GLU:HG3	2.16	0.45
3:P:176:ASN:HA	3:P:179:LEU:HB3	1.99	0.45
3:P:182:TYR:HA	3:P:185:HIS:CD2	2.51	0.45
6:Y:99:MET:N	6:Y:99:MET:SD	2.89	0.45
1:B:474:ILE:HG22	1:B:475:ASN:N	2.31	0.45
1:B:731:ASN:OD1	1:B:736:PRO:HA	2.16	0.45
1:B:983:LEU:HA	1:B:983:LEU:HD12	1.74	0.45
2:C:308:THR:HG21	2:C:368:ASP:OD2	2.17	0.45
2:C:402:TRP:O	2:C:406:MET:HG2	2.16	0.45
2:C:537:GLN:O	2:C:541:VAL:HG23	2.16	0.45
2:C:556:ILE:O	2:C:560:MET:HG2	2.16	0.45
2:C:713:TRP:HA	2:C:713:TRP:CE3	2.50	0.45
2:C:974:LYS:O	2:C:978:ASP:N	2.50	0.45
3:D:110:GLN:H	3:D:110:GLN:CD	2.23	0.45
4:K:123:GLU:HB3	4:K:188:TRP:CH2	2.52	0.45
4:K:147:TYR:HB3	4:K:155:ALA:O	2.17	0.45
4:K:272:PRO:HG3	4:K:277:PRO:HA	1.98	0.45
4:K:334:LEU:HD23	4:K:368:VAL:HA	1.99	0.45
4:K:577:LEU:C	4:K:584:ARG:HH22	2.24	0.45
4:K:600:MET:O	4:K:604:ILE:HG12	2.16	0.45
4:L:133:VAL:HG22	4:L:134:SER:N	2.31	0.45
4:L:476:ALA:HB2	6:Y:160:ASP:HB2	1.98	0.45
4:M:223:LEU:HA	4:M:223:LEU:HD23	1.71	0.45
4:M:571:GLN:NE2	4:M:574:ILE:HD11	2.31	0.45
5:O:404:GLN:O	5:O:774:LEU:HD11	2.17	0.45
5:O:617:ASN:CA	5:O:651:LEU:HD13	2.44	0.45
5:O:658:VAL:HG12	5:O:659:HIS:CD2	2.50	0.45
5:O:712:GLU:OE1	5:O:713:ASN:ND2	2.49	0.45
5:O:985:SER:O	5:O:985:SER:OG	2.28	0.45
5:O:1035:ILE:HG12	5:O:1120:ASP:OD2	2.17	0.45
5:O:1159:ILE:HD12	5:O:1164:GLN:HB2	1.98	0.45
3:P:218:SER:O	3:P:222:LEU:HG	2.16	0.45
1:B:259:ASP:N	1:B:372:LEU:O	2.48	0.45
1:B:299:ALA:HB3	1:B:302:SER:OG	2.16	0.45
1:B:685:PRO:HD2	1:B:688:PHE:HB2	1.98	0.45
1:B:764:TRP:HE3	1:B:767:ARG:NH1	2.14	0.45
1:B:848:GLY:O	1:B:864:LEU:HD21	2.17	0.45
2:C:265:SER:HB3	2:C:308:THR:HA	1.98	0.45
2:C:737:GLU:OE1	2:C:737:GLU:N	2.36	0.45
2:C:856:THR:HG22	2:C:857:ILE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1052:SER:OG	2:C:1053:THR:N	2.49	0.45
3:D:95:VAL:HG22	3:D:105:VAL:O	2.16	0.45
4:K:377:ARG:NH2	4:L:524:PRO:HG3	2.32	0.45
4:K:578:GLU:N	4:K:584:ARG:HH22	2.14	0.45
4:L:124:PHE:CD2	4:L:125:LEU:HD23	2.52	0.45
4:L:301:ILE:HG23	4:L:624:TRP:HZ2	1.81	0.45
4:L:639:SER:HB3	4:M:120:PHE:HE2	1.82	0.45
4:M:160:GLN:HG3	4:M:161:LYS:H	1.80	0.45
4:M:548:GLU:HG2	4:M:551:LYS:HE3	1.98	0.45
5:O:142:MET:HA	5:O:145:ASP:HB2	1.98	0.45
5:O:802:SER:O	5:O:805:VAL:HG22	2.16	0.45
5:O:1048:ASN:HA	5:O:1080:PHE:CZ	2.52	0.45
5:O:1056:TYR:HA	5:O:1062:ALA:H	1.82	0.45
3:P:20:PRO:HB2	3:P:391:MET:HA	1.99	0.45
3:P:35:SER:HG	3:P:37:TRP:CD1	2.34	0.45
3:P:132:PHE:HA	3:P:135:ARG:HH11	1.82	0.45
3:P:136:ASP:O	3:P:140:LYS:HG3	2.15	0.45
3:P:334:ARG:CZ	3:P:337:THR:HG21	2.46	0.45
3:P:334:ARG:HA	3:P:337:THR:OG1	2.16	0.45
3:P:355:ASN:HA	3:P:358:GLU:OE2	2.17	0.45
6:X:1:MET:O	6:X:3:VAL:HG23	2.16	0.45
6:X:258:SER:OG	6:X:259:ARG:N	2.49	0.45
6:Y:87:PHE:CZ	6:Y:212:SER:HB3	2.51	0.45
6:Z:222:VAL:C	6:Z:356:VAL:HG13	2.42	0.45
1:B:245:ALA:HA	1:B:248:LEU:HD12	1.98	0.45
1:B:313:ASN:OD1	1:B:314:VAL:N	2.50	0.45
1:B:770:GLU:HA	1:B:773:LYS:CD	2.41	0.45
1:B:981:ASP:OD2	1:B:983:LEU:HD13	2.17	0.45
2:C:905:ILE:HG13	2:C:909:TYR:CE2	2.51	0.45
2:C:1157:ALA:HB3	2:C:1195:ALA:HB1	1.98	0.45
3:D:136:ASP:OD2	3:D:139:PHE:N	2.45	0.45
3:D:182:TYR:HA	3:D:185:HIS:ND1	2.32	0.45
4:K:151:SER:OG	4:K:152:ALA:N	2.50	0.45
4:L:410:PHE:HA	4:L:413:TRP:CD1	2.52	0.45
4:M:252:VAL:HG23	4:M:253:SER:H	1.80	0.45
5:O:219:GLY:O	5:O:235:LEU:HD12	2.15	0.45
5:O:349:ARG:CZ	3:P:129:ASP:HA	2.47	0.45
5:O:498:ASP:OD1	5:O:499:PRO:HD2	2.16	0.45
5:O:836:ILE:HD12	5:O:839:LEU:HB2	1.98	0.45
5:O:965:ALA:O	5:O:969:ILE:HG13	2.16	0.45
3:P:76:LEU:O	3:P:79:PRO:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:78:ILE:HB	3:P:79:PRO:HD3	1.99	0.45
3:P:186:THR:N	3:P:189:GLU:OE2	2.50	0.45
3:P:331:GLN:HE22	3:P:403:GLY:H	1.65	0.45
3:P:333:ARG:NH1	3:P:337:THR:HG1	2.09	0.45
6:X:222:VAL:HG11	6:X:362:MET:HE2	1.98	0.45
1:B:368:ASP:N	1:B:368:ASP:OD1	2.48	0.45
1:B:375:HIS:HA	1:B:1259:ARG:HD2	1.99	0.45
1:B:378:PHE:HB3	1:B:390:ASN:HB3	1.98	0.45
1:B:636:LEU:HA	1:B:636:LEU:HD23	1.59	0.45
1:B:681:PRO:HA	1:B:684:TRP:CE3	2.52	0.45
1:B:859:GLN:OE1	3:P:97:SER:HA	2.17	0.45
1:B:1144:TYR:CE2	1:B:1146:TYR:HB3	2.45	0.45
2:C:268:ILE:HG12	2:C:1210:PHE:CD1	2.52	0.45
2:C:471:ARG:NH1	3:D:257:LEU:HD21	2.32	0.45
2:C:504:LEU:H	2:C:505:MET:HE2	1.81	0.45
2:C:713:TRP:CE3	2:C:714:PRO:HD2	2.52	0.45
2:C:818:GLU:HA	2:C:821:VAL:HG22	1.97	0.45
2:C:974:LYS:HG2	2:C:979:LEU:HB3	1.98	0.45
2:C:1045:ILE:O	2:C:1139:ILE:HG22	2.16	0.45
3:D:189:GLU:O	3:D:192:TYR:HB2	2.17	0.45
3:D:244:ARG:O	3:D:357:ILE:HD12	2.16	0.45
4:K:122:ARG:CZ	4:L:153:ARG:HB2	2.46	0.45
4:K:126:ASP:OD1	4:K:127:LYS:N	2.50	0.45
4:K:151:SER:HB3	4:K:154:GLN:HE22	1.82	0.45
4:L:28:SER:HA	4:L:263:ASN:ND2	2.31	0.45
4:L:158:ASN:CG	4:L:160:GLN:HE21	2.23	0.45
4:L:280:GLU:HA	4:M:36:LEU:HD13	1.98	0.45
4:L:668:VAL:O	4:L:671:HIS:HB3	2.16	0.45
4:M:232:TYR:O	4:M:235:GLU:HB2	2.17	0.45
4:M:284:LYS:HA	4:M:287:GLU:OE1	2.16	0.45
4:M:591:ILE:HA	4:M:594:LYS:HE3	1.98	0.45
5:O:14:SER:HB3	5:O:313:GLN:OE1	2.16	0.45
5:O:511:SER:H	5:O:572:GLN:NE2	2.15	0.45
5:O:638:TYR:CD2	5:O:664:LEU:HD13	2.51	0.45
5:O:977:CYS:N	5:O:1025:GLY:O	2.50	0.45
5:O:1190:ALA:HB2	5:O:1231:SER:O	2.17	0.45
3:P:233:THR:OG1	3:P:260:SER:HA	2.17	0.45
6:Y:122:ARG:CZ	6:Y:236:ARG:HH21	2.29	0.45
6:Y:192:PHE:HD1	6:Y:206:PHE:CE2	2.34	0.45
6:Z:78:ARG:HG3	6:Z:80:GLN:HB3	1.98	0.45
6:Z:168:THR:HG22	6:Z:172:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:289:THR:O	6:Z:292:LEU:HB3	2.17	0.45
1:B:437:ALA:HB2	1:B:447:TRP:CE2	2.52	0.45
1:B:472:MET:HB3	1:B:507:TYR:C	2.41	0.45
1:B:668:ILE:HG12	1:B:669:TYR:CD1	2.52	0.45
1:B:970:ASN:O	1:B:974:LYS:HE3	2.17	0.45
1:B:1056:TRP:HZ3	1:B:1060:ALA:O	1.99	0.45
1:B:1213:ASN:HB2	1:B:1219:THR:HG1	1.82	0.45
2:C:1155:GLN:NE2	2:C:1156:TYR:HB3	2.32	0.45
3:D:263:ILE:HG13	3:D:264:ARG:N	2.31	0.45
3:D:375:TRP:HA	3:D:378:GLU:OE1	2.16	0.45
4:K:223:LEU:C	4:K:230:ARG:HH21	2.25	0.45
4:K:333:TRP:CE3	4:K:334:LEU:HD11	2.52	0.45
4:L:39:GLY:O	4:L:42:ASN:HB2	2.16	0.45
4:L:212:MET:HA	4:L:215:VAL:HB	1.98	0.45
4:L:323:VAL:HA	4:L:326:LEU:CD1	2.47	0.45
4:L:395:ASN:OD1	4:L:432:ALA:N	2.38	0.45
4:M:233:PRO:HD2	4:M:234:LYS:HZ3	1.82	0.45
4:M:327:LYS:HZ2	4:M:329:ASP:CG	2.24	0.45
4:M:524:PRO:HB3	4:M:612:THR:HB	1.98	0.45
5:O:69:ASP:OD2	5:O:71:GLN:HG2	2.17	0.45
5:O:172:TYR:CD2	5:O:190:LYS:HB2	2.43	0.45
5:O:327:LEU:O	5:O:330:PHE:HB3	2.17	0.45
5:O:362:ASP:OD1	5:O:363:GLY:N	2.49	0.45
5:O:497:ILE:HA	5:O:504:GLU:HA	1.99	0.45
5:O:609:GLY:HA2	5:O:660:GLN:CD	2.42	0.45
5:O:936:ILE:HA	5:O:937:LYS:HZ2	1.82	0.45
5:O:949:TYR:HB2	5:O:958:GLU:HG2	1.99	0.45
5:O:984:LEU:HD23	5:O:984:LEU:HA	1.84	0.45
5:O:1073:ILE:HD13	5:O:1073:ILE:HA	1.89	0.45
3:P:223:SER:C	3:P:226:GLY:H	2.24	0.45
3:P:316:ILE:HB	3:P:320:THR:H	1.81	0.45
3:P:376:ALA:HB3	3:P:377:ARG:NH1	2.32	0.45
6:X:110:MET:HG2	6:X:173:MET:SD	2.57	0.45
6:X:267:LYS:HB2	6:X:268:MET:HE2	1.97	0.45
6:Y:158:ASP:OD2	6:Y:161:THR:HB	2.17	0.45
6:Y:171:ASN:HB2	6:Y:252:PHE:CZ	2.51	0.45
6:Y:241:GLU:HB3	6:Y:242:LEU:HG	1.99	0.45
6:Z:36:ILE:HA	6:Z:152:PRO:HG3	1.98	0.45
6:Z:188:PRO:HB2	6:Z:285:PHE:CE2	2.51	0.45
1:B:408:PRO:O	1:B:411:MET:HB3	2.16	0.45
1:B:615:LYS:NZ	1:B:674:ARG:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:692:GLN:NE2	1:B:692:GLN:H	2.14	0.45
1:B:764:TRP:O	1:B:768:VAL:HG22	2.17	0.45
1:B:1014:GLU:HG3	3:P:34:ASN:OD1	2.17	0.45
1:B:1109:ILE:HG23	1:B:1138:ARG:NE	2.32	0.45
1:B:1115:TRP:CD2	1:B:1122:PHE:HB3	2.52	0.45
2:C:464:ARG:NH2	2:C:1026:LEU:HD13	2.32	0.45
2:C:979:LEU:HG	2:C:980:SER:N	2.31	0.45
3:D:47:SER:HA	3:D:192:TYR:OH	2.16	0.45
3:D:164:VAL:HB	3:D:270:LEU:HG	1.97	0.45
3:D:179:LEU:HD23	3:D:182:TYR:CD1	2.52	0.45
3:D:314:ARG:HA	3:D:320:THR:CG2	2.44	0.45
3:D:366:GLN:HA	3:D:369:ARG:HG2	1.98	0.45
3:D:404:ARG:NH2	3:D:406:ASN:HA	2.32	0.45
4:K:45:GLY:H	4:K:102:VAL:HB	1.82	0.45
4:K:243:ARG:NH1	4:K:262:VAL:HG22	2.31	0.45
4:K:398:LYS:HG2	4:K:427:TYR:CE2	2.51	0.45
4:K:490:ASP:OD2	4:M:436:SER:HB3	2.17	0.45
4:K:519:ILE:O	4:K:521:SER:OG	2.29	0.45
4:K:627:LEU:O	4:K:631:VAL:HG12	2.17	0.45
4:L:665:LEU:HD13	4:L:665:LEU:HA	1.79	0.45
4:M:121:ASN:OD1	4:M:188:TRP:NE1	2.49	0.45
4:M:323:VAL:O	4:M:324:ARG:HD2	2.17	0.45
4:M:396:GLY:HA2	4:M:430:LEU:O	2.17	0.45
5:O:154:SER:OG	5:O:155:GLN:OE1	2.22	0.45
5:O:456:LEU:HD21	5:O:460:TYR:HB3	1.97	0.45
5:O:515:PHE:CE1	5:O:550:PHE:HB2	2.52	0.45
5:O:606:THR:HG22	5:O:607:ALA:H	1.81	0.45
5:O:803:PRO:HA	5:O:806:CYS:SG	2.57	0.45
5:O:931:ASP:HB3	5:O:1015:TYR:OH	2.16	0.45
5:O:1011:LEU:HD22	5:O:1208:PHE:CZ	2.52	0.45
5:O:1049:ALA:HB2	5:O:1080:PHE:CD2	2.52	0.45
5:O:1236:ARG:HA	5:O:1236:ARG:NE	2.31	0.45
3:P:168:GLU:O	3:P:170:MET:N	2.50	0.45
6:X:7:ASN:CB	6:X:10:GLN:HG2	2.46	0.45
6:X:18:ALA:HA	6:X:23:VAL:HG23	1.98	0.45
6:Y:23:VAL:HG12	6:Y:24:SER:H	1.81	0.45
6:Z:68:LEU:HD12	6:Z:69:PRO:HD2	1.98	0.45
6:Z:290:ALA:HA	6:Z:293:LYS:NZ	2.32	0.45
1:B:361:MET:HE2	1:B:362:LEU:HG	1.99	0.45
1:B:380:GLN:NE2	2:C:958:SER:H	2.09	0.45
1:B:701:ILE:H	1:B:701:ILE:HG13	1.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:811:LEU:O	1:B:816:PRO:HD3	2.17	0.45
1:B:907:PRO:HG2	1:B:908:MET:HE2	1.99	0.45
1:B:1054:HIS:CD2	1:B:1056:TRP:HB3	2.52	0.45
2:C:647:LYS:HB3	2:C:675:ALA:HB1	1.99	0.45
2:C:1095:ARG:HE	2:C:1097:GLU:C	2.25	0.45
3:D:120:GLN:CD	3:D:123:ARG:HH21	2.25	0.45
4:K:47:PRO:HG2	4:K:100:LEU:HD11	1.99	0.45
4:L:68:SER:N	4:L:100:LEU:HD21	2.32	0.45
4:L:375:PRO:HA	4:L:452:TYR:O	2.17	0.45
4:L:413:TRP:HD1	4:L:418:GLN:CD	2.24	0.45
4:L:527:LEU:HA	4:L:527:LEU:HD12	1.77	0.45
5:O:114:PHE:CZ	5:O:229:ASN:HA	2.52	0.45
5:O:344:LEU:HD12	5:O:344:LEU:O	2.17	0.45
5:O:768:ARG:O	5:O:861:TRP:HE3	1.99	0.45
5:O:879:THR:HG23	5:O:916:LYS:HB3	1.99	0.45
5:O:1054:ASN:HB2	5:O:1056:TYR:CE1	2.51	0.45
3:P:36:PRO:O	3:P:72:LEU:HD21	2.17	0.45
6:X:36:ILE:HD11	6:X:153:LEU:H	1.82	0.45
6:Y:19:PHE:CZ	6:Y:291:LYS:HG2	2.51	0.45
6:Y:198:GLU:HA	6:Y:202:ARG:NE	2.32	0.45
6:Y:198:GLU:N	6:Y:201:ALA:HB3	2.32	0.45
6:Y:272:PHE:HB3	6:Y:280:CYS:SG	2.56	0.45
1:B:269:VAL:HB	1:B:271:ILE:HD11	1.99	0.44
1:B:417:SER:H	1:B:420:CYS:HB2	1.81	0.44
1:B:505:MET:HG3	1:B:505:MET:O	2.17	0.44
1:B:608:ILE:HG22	1:B:609:ASP:N	2.32	0.44
1:B:928:VAL:O	1:B:932:VAL:HG22	2.17	0.44
2:C:325:ALA:HB3	2:C:331:ASN:ND2	2.29	0.44
2:C:577:ILE:HB	2:C:627:TRP:CD1	2.51	0.44
2:C:743:ILE:HG22	2:C:744:ASP:H	1.82	0.44
2:C:767:ARG:O	2:C:768:VAL:C	2.59	0.44
2:C:1167:LEU:HD23	2:C:1167:LEU:HA	1.81	0.44
3:D:222:LEU:CB	3:D:228:ILE:HG13	2.47	0.44
3:D:399:ASN:HA	3:D:402:TRP:CD1	2.51	0.44
4:K:201:THR:HG23	4:K:202:ASN:OD1	2.17	0.44
4:K:298:PRO:HG2	4:K:299:GLU:OE2	2.17	0.44
4:K:401:PHE:HA	4:K:469:LEU:O	2.17	0.44
4:K:453:GLU:H	4:K:456:GLN:HG3	1.82	0.44
4:L:20:PHE:O	4:L:210:CYS:N	2.43	0.44
4:L:166:ILE:HA	4:L:170:ARG:HH11	1.81	0.44
4:L:195:ALA:O	4:L:198:LEU:HD22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:299:GLU:HB2	4:M:650:LYS:CD	2.48	0.44
4:L:615:ALA:O	4:L:619:SER:OG	2.22	0.44
4:M:234:LYS:HB2	4:M:234:LYS:HE2	1.74	0.44
4:M:395:ASN:OD1	4:M:396:GLY:N	2.51	0.44
4:M:405:GLN:O	4:M:420:GLY:HA3	2.18	0.44
4:M:426:ASN:HD21	4:M:449:ALA:H	1.62	0.44
5:O:189:ALA:O	5:O:192:LEU:HG	2.17	0.44
5:O:409:GLU:N	5:O:409:GLU:CD	2.74	0.44
5:O:448:VAL:HG12	5:O:666:TRP:HB2	1.99	0.44
5:O:654:VAL:HG22	5:O:656:PHE:HE1	1.82	0.44
5:O:990:TRP:CZ2	5:O:991:THR:HG23	2.52	0.44
5:O:1008:ILE:O	5:O:1012:MET:HG2	2.17	0.44
5:O:1041:SER:HA	5:O:1090:ASP:CG	2.42	0.44
5:O:1193:TYR:CE1	5:O:1286:LEU:HD13	2.52	0.44
5:O:1246:THR:OG1	5:O:1247:ILE:N	2.50	0.44
3:P:42:PHE:HE1	3:P:64:ARG:HB3	1.82	0.44
3:P:242:ASN:HA	3:P:244:ARG:NH2	2.31	0.44
6:X:220:VAL:O	6:X:358:ILE:HA	2.17	0.44
6:X:286:ILE:C	6:X:287:LYS:HD3	2.41	0.44
6:X:299:VAL:HG13	6:X:320:MET:CG	2.43	0.44
6:Y:23:VAL:HG12	6:Y:24:SER:N	2.31	0.44
6:Y:34:LYS:O	6:Y:153:LEU:HD12	2.17	0.44
6:Z:96:LYS:NZ	6:Z:284:PRO:HD3	2.31	0.44
6:Z:162:LYS:HG2	6:Z:166:TYR:CE2	2.52	0.44
1:B:300:ALA:O	1:B:1212:THR:OG1	2.35	0.44
1:B:533:GLN:C	1:B:537:GLN:HE21	2.25	0.44
1:B:949:LEU:HB3	1:B:952:ILE:HD12	1.99	0.44
1:B:1036:ASN:HD22	1:B:1205:ASN:CA	2.30	0.44
2:C:474:ILE:HG22	2:C:475:ASN:N	2.32	0.44
2:C:733:PHE:CE1	2:C:1001:TYR:HB3	2.52	0.44
3:D:227:VAL:HB	3:D:418:ILE:HG13	2.00	0.44
3:D:332:VAL:O	3:D:335:MET:HB3	2.17	0.44
4:K:28:SER:HA	4:K:243:ARG:HG3	1.99	0.44
4:K:183:LYS:HD2	4:K:183:LYS:C	2.41	0.44
4:K:376:MET:SD	4:K:495:MET:HB3	2.58	0.44
4:K:469:LEU:HD12	4:K:489:TRP:HE1	1.81	0.44
4:L:213:GLN:HB3	4:L:675:PRO:HD2	1.99	0.44
4:L:583:VAL:O	6:Z:70:HIS:N	2.49	0.44
4:M:328:ILE:HG13	4:M:329:ASP:H	1.81	0.44
4:M:471:THR:HG23	4:M:488:VAL:HG23	1.99	0.44
5:O:21:ARG:HH22	5:O:226:LYS:HZ3	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:178:TYR:HE1	5:O:184:ASP:HB3	1.81	0.44
5:O:429:ILE:HB	5:O:475:ALA:HB1	1.98	0.44
5:O:632:LEU:HD22	5:O:664:LEU:HB2	1.98	0.44
5:O:832:PRO:HB3	5:O:853:PRO:O	2.17	0.44
6:X:86:GLN:CD	6:X:86:GLN:N	2.73	0.44
6:X:140:SER:O	6:X:144:SER:OG	2.28	0.44
6:X:227:GLU:HA	6:X:230:HIS:HB2	2.00	0.44
6:Y:120:ARG:O	6:Y:123:THR:HB	2.16	0.44
6:Y:228:LEU:N	6:Y:354:TYR:OH	2.50	0.44
6:Z:120:ARG:O	6:Z:123:THR:HB	2.17	0.44
1:B:246:GLN:NE2	1:B:982:MET:H	2.15	0.44
1:B:278:GLN:O	1:B:281:LEU:HB3	2.17	0.44
1:B:342:GLU:OE1	1:B:343:THR:N	2.50	0.44
1:B:550:GLN:NE2	1:B:551:ILE:O	2.51	0.44
1:B:903:ASP:OD1	1:B:904:ALA:N	2.50	0.44
1:B:997:LEU:O	1:B:1012:ILE:HG23	2.18	0.44
2:C:1239:ASP:OD1	2:C:1239:ASP:N	2.48	0.44
4:K:13:VAL:HG12	4:K:249:TRP:HZ3	1.83	0.44
4:K:146:CYS:O	4:K:160:GLN:N	2.34	0.44
4:K:340:THR:N	4:K:363:GLY:O	2.49	0.44
4:K:347:ILE:O	4:K:358:HIS:HA	2.17	0.44
4:K:562:SER:OG	4:K:565:SER:OG	2.28	0.44
4:L:41:LEU:HD23	4:L:106:HIS:CE1	2.46	0.44
4:L:377:ARG:NH1	4:L:451:ASN:OD1	2.50	0.44
5:O:41:GLU:HB3	5:O:43:TRP:CH2	2.52	0.44
5:O:48:ASN:ND2	5:O:50:ARG:H	2.15	0.44
5:O:114:PHE:HA	5:O:117:ASN:ND2	2.32	0.44
5:O:496:ALA:O	5:O:504:GLU:HA	2.18	0.44
5:O:554:VAL:H	5:O:559:ILE:CD1	2.30	0.44
5:O:705:GLY:O	5:O:757:ARG:HA	2.17	0.44
5:O:919:ALA:O	5:O:1023:ILE:HD13	2.17	0.44
5:O:988:LEU:HB2	5:O:989:ARG:HH21	1.82	0.44
5:O:1098:ILE:HA	5:O:1117:PHE:O	2.17	0.44
3:P:161:ILE:HG12	3:P:327:LEU:HD22	2.00	0.44
3:P:168:GLU:OE2	3:P:171:TRP:HD1	2.00	0.44
3:P:231:GLN:C	3:P:259:HIS:HD1	2.17	0.44
6:Y:249:PHE:HD1	6:Y:344:SER:OG	2.00	0.44
6:Z:179:LEU:HB3	6:Z:363:ILE:HD11	1.98	0.44
1:B:920:ARG:HH22	1:B:983:LEU:HD13	1.83	0.44
1:B:1116:GLN:OE1	1:B:1172:PRO:HA	2.17	0.44
2:C:271:ILE:HG23	2:C:272:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:337:GLN:H	2:C:357:ASN:ND2	2.14	0.44
2:C:716:PRO:HB3	2:C:742:PRO:HA	2.00	0.44
2:C:837:ARG:C	2:C:842:ARG:HH22	2.24	0.44
2:C:1112:LEU:CA	2:C:1139:ILE:HD11	2.48	0.44
4:K:103:VAL:HG11	4:K:141:LEU:HD11	1.98	0.44
4:K:149:GLY:HA3	4:K:154:GLN:HB2	1.99	0.44
4:K:334:LEU:CD2	4:K:368:VAL:HG22	2.48	0.44
4:L:18:ASN:HA	4:L:248:GLN:O	2.17	0.44
4:L:171:GLN:NE2	4:L:172:THR:OG1	2.50	0.44
4:M:111:PHE:O	4:M:114:ALA:HB3	2.17	0.44
4:M:329:ASP:OD1	4:M:330:GLU:HG2	2.18	0.44
4:M:459:LYS:HE3	4:M:464:MET:H	1.82	0.44
5:O:432:GLY:N	5:O:477:LYS:O	2.36	0.44
5:O:740:SER:O	5:O:754:ILE:HD12	2.17	0.44
6:X:32:TRP:HZ2	6:X:65:LEU:HB3	1.82	0.44
6:X:243:VAL:HG22	6:X:349:PHE:CE2	2.53	0.44
6:Y:295:VAL:HG23	6:Y:324:TYR:CE1	2.48	0.44
6:Y:303:ASN:ND2	6:Y:320:MET:HB3	2.31	0.44
1:B:518:GLN:HE22	1:B:521:ARG:NH2	2.15	0.44
1:B:1094:ILE:O	1:B:1102:VAL:N	2.48	0.44
1:B:1161:ASN:CG	1:B:1162:LEU:H	2.25	0.44
2:C:406:MET:HB3	2:C:1254:TYR:OH	2.17	0.44
2:C:662:ILE:HG23	2:C:688:PHE:CZ	2.52	0.44
2:C:753:PRO:HB2	2:C:756:ASP:OD2	2.18	0.44
3:D:159:GLY:HA3	3:D:274:PRO:HG2	2.00	0.44
3:D:306:ASN:ND2	3:D:320:THR:HG22	2.33	0.44
4:K:198:LEU:HA	4:M:566:VAL:HG12	2.00	0.44
4:K:322:ASN:ND2	4:K:490:ASP:OD1	2.50	0.44
4:K:520:GLY:O	4:K:613:GLN:HA	2.17	0.44
4:K:522:TYR:HD2	4:K:526:SER:OG	2.01	0.44
4:L:235:GLU:OE1	4:L:235:GLU:N	2.36	0.44
4:M:307:VAL:HG12	4:M:513:VAL:O	2.18	0.44
5:O:28:HIS:HB3	5:O:108:ASN:HD21	1.82	0.44
5:O:285:LEU:HD11	5:O:287:TRP:O	2.17	0.44
5:O:419:GLN:HG2	5:O:709:ILE:HA	1.98	0.44
5:O:481:ARG:HB2	5:O:645:VAL:HG11	2.00	0.44
5:O:547:VAL:HG12	5:O:549:GLN:HG3	2.00	0.44
5:O:940:LEU:HD22	5:O:1012:MET:HE1	1.99	0.44
3:P:174:ASP:O	3:P:178:LEU:HD23	2.18	0.44
3:P:209:TYR:N	3:P:209:TYR:CD1	2.83	0.44
3:P:281:MET:HE3	3:P:368:LYS:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:292:THR:HG23	3:P:295:LEU:HD12	2.00	0.44
3:P:360:LEU:O	3:P:364:THR:HG23	2.17	0.44
6:X:26:TYR:HB2	6:X:32:TRP:CH2	2.52	0.44
6:X:158:ASP:O	6:X:162:LYS:HG2	2.16	0.44
6:X:218:TRP:CD1	6:X:219:GLY:N	2.85	0.44
6:Y:2:GLU:HB2	6:Y:4:CYS:SG	2.58	0.44
6:Y:128:LEU:HD21	6:Y:179:LEU:HD13	2.00	0.44
6:Y:142:PHE:HA	6:Y:217:GLU:HA	1.98	0.44
6:Z:179:LEU:HD22	6:Z:363:ILE:HG13	1.99	0.44
6:Z:330:GLN:HG3	6:Z:334:VAL:HG13	1.99	0.44
1:B:285:PHE:CZ	1:B:1217:PRO:HD3	2.53	0.44
1:B:472:MET:C	1:B:506:PRO:HA	2.43	0.44
1:B:589:SER:HA	1:B:592:ARG:HH22	1.83	0.44
1:B:963:ALA:HA	1:B:966:ALA:HB3	2.00	0.44
1:B:1147:MET:HG2	1:B:1177:SER:OG	2.18	0.44
2:C:347:ARG:HA	2:C:347:ARG:HH11	1.82	0.44
2:C:682:HIS:NE2	2:C:683:THR:HG23	2.33	0.44
2:C:770:GLU:HA	2:C:773:LYS:HD2	2.00	0.44
2:C:806:MET:SD	2:C:890:LYS:HA	2.57	0.44
2:C:1151:TYR:O	2:C:1183:PRO:HA	2.17	0.44
3:D:71:LEU:HD23	3:D:72:LEU:N	2.32	0.44
3:D:92:LEU:C	3:D:94:LEU:H	2.26	0.44
3:D:230:GLN:HE21	3:D:240:GLN:NE2	2.14	0.44
4:K:188:TRP:HH2	4:K:235:GLU:C	2.25	0.44
4:K:522:TYR:C	4:K:613:GLN:H	2.20	0.44
4:L:103:VAL:HB	4:L:164:PRO:HG2	1.99	0.44
4:L:118:LEU:HD21	4:L:182:LEU:HG	2.00	0.44
4:L:126:ASP:C	4:L:128:LEU:N	2.76	0.44
4:M:105:GLU:O	4:M:106:HIS:C	2.60	0.44
5:O:21:ARG:CZ	5:O:22:THR:HG22	2.47	0.44
5:O:221:LEU:HD22	5:O:285:LEU:HD12	1.99	0.44
5:O:632:LEU:HD11	5:O:666:TRP:CZ3	2.52	0.44
5:O:955:GLY:O	5:O:956:ARG:HG2	2.18	0.44
5:O:1242:GLU:HB2	5:O:1284:TYR:CE1	2.53	0.44
3:P:202:PRO:HB3	3:P:294:CYS:SG	2.58	0.44
3:P:231:GLN:HE22	3:P:258:ASN:HB2	1.82	0.44
6:X:86:GLN:HA	6:X:89:ASP:OD2	2.18	0.44
6:X:183:PHE:CE1	6:X:264:ILE:HD11	2.52	0.44
6:Y:303:ASN:HD21	6:Y:320:MET:HB3	1.83	0.44
6:Z:174:ILE:O	6:Z:178:ASP:N	2.50	0.44
6:Z:251:HIS:ND1	6:Z:254:LEU:HD12	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:309:GLU:OE1	6:Z:309:GLU:N	2.42	0.44
1:B:351:PRO:HA	1:B:354:PHE:CE1	2.53	0.44
1:B:381:ASP:HB2	1:B:388:GLY:CA	2.48	0.44
1:B:543:LEU:HA	1:B:546:ILE:HG12	2.00	0.44
1:B:623:LEU:HA	1:B:626:LEU:HG	2.00	0.44
1:B:1036:ASN:ND2	1:B:1205:ASN:OD1	2.51	0.44
1:B:1110:PHE:HZ	1:B:1115:TRP:N	2.15	0.44
2:C:361:MET:SD	2:C:362:LEU:HD12	2.57	0.44
2:C:695:SER:C	2:C:697:ILE:H	2.24	0.44
2:C:719:ILE:HG12	2:C:720:ARG:N	2.32	0.44
2:C:761:LEU:HD12	2:C:808:PRO:HB3	2.00	0.44
2:C:1118:ASN:HB2	2:C:1122:PHE:CZ	2.53	0.44
3:D:79:PRO:HD3	3:D:96:TRP:NE1	2.29	0.44
3:D:350:THR:HG22	3:D:353:GLN:HG3	2.00	0.44
4:K:144:VAL:HG12	4:K:145:ASP:N	2.29	0.44
4:K:530:SER:O	4:K:537:ARG:NH2	2.49	0.44
4:K:620:ASP:OD2	4:K:622:ASN:HB2	2.18	0.44
4:L:50:ALA:N	4:L:63:LEU:HG	2.32	0.44
4:L:296:ALA:O	4:L:542:ARG:NE	2.51	0.44
4:L:367:VAL:CG2	4:L:467:TYR:HB3	2.46	0.44
4:L:620:ASP:CG	4:L:623:ASN:H	2.25	0.44
4:M:377:ARG:HD3	4:M:496:SER:OG	2.17	0.44
4:M:426:ASN:ND2	4:M:449:ALA:N	2.66	0.44
4:M:431:TYR:CE2	4:M:433:GLU:HG3	2.52	0.44
4:M:577:LEU:O	4:M:584:ARG:NH2	2.51	0.44
4:M:589:LYS:HA	4:M:592:LEU:HB3	1.99	0.44
5:O:260:CYS:HB3	5:O:264:PHE:CZ	2.53	0.44
5:O:316:ARG:NH1	5:O:784:ALA:O	2.51	0.44
5:O:472:PHE:CD1	5:O:475:ALA:HB3	2.52	0.44
5:O:768:ARG:HH12	5:O:840:ILE:HG13	1.82	0.44
5:O:940:LEU:HD13	5:O:951:PHE:CZ	2.53	0.44
5:O:1096:ALA:HA	5:O:1119:VAL:HB	1.99	0.44
5:O:1128:ASP:OD2	5:O:1130:TRP:HB2	2.17	0.44
3:P:38:GLN:HB2	3:P:68:MET:HE3	1.98	0.44
3:P:243:ARG:HE	3:P:249:GLU:HA	1.81	0.44
6:X:160:ASP:OD1	6:X:161:THR:N	2.44	0.44
6:X:164:ASP:HA	6:X:280:CYS:SG	2.58	0.44
6:Y:66:LYS:C	6:Y:67:HIS:CG	2.96	0.44
6:Y:140:SER:N	6:Y:144:SER:OG	2.51	0.44
6:Z:84:ASP:OD1	6:Z:85:VAL:N	2.51	0.44
6:Z:185:MET:H	6:Z:261:THR:CA	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:196:ARG:NE	6:Z:352:LEU:HB3	2.27	0.44
6:Z:331:ALA:HB3	6:Z:332:PRO:HD3	1.99	0.44
1:B:376:THR:HB	1:B:392:ARG:CZ	2.48	0.44
1:B:414:PRO:HA	2:C:1082:ARG:HB3	2.00	0.44
1:B:419:ILE:O	1:B:423:VAL:HG23	2.18	0.44
1:B:619:SER:O	1:B:622:SER:N	2.43	0.44
1:B:741:LEU:HG	1:B:743:ILE:N	2.28	0.44
1:B:1036:ASN:C	1:B:1038:PHE:N	2.74	0.44
1:B:1115:TRP:HA	1:B:1122:PHE:CD1	2.52	0.44
2:C:355:ARG:HD3	2:C:949:LEU:HB3	1.98	0.44
2:C:464:ARG:CZ	2:C:1026:LEU:HD22	2.47	0.44
2:C:514:ARG:HH12	2:C:729:SER:N	2.16	0.44
2:C:580:LYS:HE2	2:C:627:TRP:HB2	2.00	0.44
2:C:991:ASP:O	2:C:993:ARG:N	2.50	0.44
2:C:1070:ASP:OD1	2:C:1071:THR:N	2.51	0.44
2:C:1168:GLU:HB3	2:C:1169:GLU:OE1	2.18	0.44
3:D:6:PHE:HA	3:D:144:TYR:HE1	1.82	0.44
3:D:276:SER:C	3:D:278:ASP:H	2.26	0.44
3:D:350:THR:H	3:D:353:GLN:NE2	2.16	0.44
4:K:582:GLY:HA3	6:X:69:PRO:O	2.17	0.44
4:K:657:ILE:HD12	4:K:660:TRP:HB3	1.99	0.44
4:L:122:ARG:HH22	4:L:133:VAL:C	2.25	0.44
4:L:273:SER:OG	4:M:179:GLN:HB3	2.17	0.44
4:L:324:ARG:HH21	4:L:489:TRP:N	2.15	0.44
4:L:525:GLU:HA	4:L:528:ASN:HB3	2.00	0.44
4:L:608:SER:O	4:L:611:ILE:HG12	2.17	0.44
4:M:234:LYS:HD3	4:M:234:LYS:H	1.82	0.44
4:M:609:THR:HG1	4:M:612:THR:HG1	1.59	0.44
5:O:182:ASP:HB3	5:O:325:ARG:NE	2.33	0.44
5:O:232:HIS:C	5:O:233:TYR:HD1	2.26	0.44
5:O:507:ARG:HD2	5:O:507:ARG:N	2.33	0.44
5:O:638:TYR:HE2	5:O:664:LEU:HB3	1.83	0.44
5:O:1159:ILE:HB	5:O:1162:GLN:HB2	2.00	0.44
3:P:3:ARG:HB2	3:P:300:GLN:HB2	1.99	0.44
3:P:6:PHE:O	3:P:127:CYS:N	2.45	0.44
3:P:99:PRO:HB2	3:P:132:PHE:CZ	2.53	0.44
3:P:143:VAL:HG12	3:P:147:LEU:HD21	1.99	0.44
3:P:156:THR:HG22	3:P:158:PHE:N	2.33	0.44
3:P:333:ARG:HD3	3:P:334:ARG:N	2.32	0.44
6:X:32:TRP:CZ2	6:X:65:LEU:HB3	2.52	0.44
6:X:148:SER:HG	6:X:150:THR:H	1.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:5:LEU:HD23	6:Y:315:LEU:HD23	2.00	0.44
6:Y:186:ARG:NH2	6:Y:225:TYR:OH	2.51	0.44
6:Z:185:MET:HA	6:Z:223:TYR:OH	2.18	0.44
6:Z:238:TYR:CE2	6:Z:242:LEU:HD13	2.53	0.44
6:Z:288:GLY:HA2	6:Z:291:LYS:CD	2.48	0.44
1:B:303:ARG:HG2	1:B:1209:LEU:HD12	1.99	0.44
1:B:307:HIS:CE1	1:B:310:TRP:HB3	2.53	0.44
1:B:374:ARG:C	1:B:1259:ARG:HH11	2.23	0.44
1:B:1044:ASP:O	1:B:1202:THR:N	2.50	0.44
1:B:1092:PRO:C	1:B:1093:MET:HG3	2.43	0.44
1:B:1110:PHE:CE1	1:B:1112:LEU:HA	2.53	0.44
2:C:417:SER:O	2:C:418:LYS:C	2.61	0.44
2:C:556:ILE:H	2:C:556:ILE:HG13	1.67	0.44
2:C:638:LEU:H	2:C:638:LEU:HD12	1.82	0.44
2:C:674:ARG:HA	2:C:674:ARG:HD3	1.75	0.44
2:C:790:VAL:HG23	2:C:791:SER:N	2.33	0.44
2:C:1042:ARG:O	2:C:1144:TYR:OH	2.18	0.44
2:C:1231:ARG:HA	2:C:1252:ASP:OD1	2.17	0.44
3:D:208:THR:HA	3:D:211:ARG:NE	2.33	0.44
4:K:19:VAL:O	4:K:248:GLN:NE2	2.51	0.44
4:K:356:ASN:C	4:K:357:TRP:CD1	2.96	0.44
4:L:583:VAL:O	6:Z:70:HIS:HB2	2.18	0.44
4:M:235:GLU:OE1	4:M:235:GLU:N	2.30	0.44
4:M:328:ILE:HG13	4:M:329:ASP:N	2.33	0.44
5:O:20:THR:OG1	5:O:276:VAL:O	2.36	0.44
5:O:111:VAL:HG22	5:O:137:ILE:HA	1.98	0.44
5:O:669:GLY:HA2	5:O:672:PHE:CD1	2.53	0.44
5:O:877:TRP:O	5:O:880:GLY:N	2.51	0.44
5:O:944:SER:CB	5:O:947:LYS:HZ3	2.30	0.44
3:P:7:LEU:HG	3:P:126:ASP:HA	2.00	0.44
3:P:133:LEU:C	3:P:135:ARG:N	2.76	0.44
3:P:197:ALA:HA	3:P:200:ASN:HD21	1.83	0.44
6:X:259:ARG:O	6:X:272:PHE:N	2.50	0.44
1:B:311:ALA:HB1	1:B:402:TRP:CH2	2.53	0.43
1:B:451:PHE:HD1	1:B:1256:VAL:HG13	1.82	0.43
1:B:520:ILE:HG23	1:B:523:MET:SD	2.58	0.43
1:B:1115:TRP:CZ2	1:B:1167:LEU:HD11	2.53	0.43
1:B:1147:MET:O	1:B:1180:PHE:N	2.51	0.43
1:B:1158:ASN:HD21	1:B:1160:TRP:HB2	1.83	0.43
2:C:303:ARG:HE	2:C:1209:LEU:HD13	1.83	0.43
2:C:543:LEU:O	2:C:546:ILE:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:554:THR:O	2:C:558:ASN:ND2	2.51	0.43
2:C:658:GLY:H	2:C:661:THR:HG22	1.83	0.43
2:C:703:ARG:HG3	2:C:707:GLU:OE2	2.18	0.43
2:C:1154:ARG:HE	2:C:1190:ILE:HB	1.83	0.43
3:D:62:GLY:C	3:D:280:ASN:HD22	2.26	0.43
3:D:96:TRP:CZ3	3:D:101:LEU:HB3	2.53	0.43
3:D:107:ALA:H	3:D:112:LEU:HD11	1.83	0.43
3:D:296:CYS:SG	3:D:301:LEU:HD12	2.57	0.43
3:D:305:ASP:HB2	3:D:324:GLY:C	2.43	0.43
4:L:229:ILE:C	4:L:231:ARG:N	2.76	0.43
4:L:522:TYR:HE2	4:L:530:SER:OG	2.00	0.43
4:M:21:LYS:HA	4:M:208:VAL:O	2.18	0.43
5:O:476:ARG:HH12	5:O:644:PHE:HZ	1.66	0.43
5:O:626:TYR:HA	5:O:629:GLN:HB2	1.99	0.43
5:O:628:GLU:OE1	5:O:665:THR:HA	2.19	0.43
5:O:683:THR:O	5:O:686:THR:OG1	2.33	0.43
5:O:696:TYR:CE2	5:O:698:ASP:HA	2.53	0.43
5:O:1192:LYS:NZ	5:O:1220:ILE:H	2.15	0.43
5:O:1240:VAL:HB	5:O:1247:ILE:HB	2.00	0.43
3:P:212:MET:O	3:P:216:ILE:HG12	2.17	0.43
6:X:287:LYS:O	6:X:291:LYS:HE3	2.17	0.43
6:Y:141:MET:HB3	6:Y:147:SER:O	2.18	0.43
6:Y:216:LEU:HD23	6:Y:216:LEU:H	1.83	0.43
6:Z:16:ASN:HA	6:Z:19:PHE:CD2	2.53	0.43
1:B:303:ARG:HA	1:B:1210:PHE:CB	2.48	0.43
1:B:392:ARG:HD3	1:B:392:ARG:C	2.43	0.43
1:B:761:LEU:HA	1:B:764:TRP:HB3	2.00	0.43
2:C:317:ASP:CG	2:C:318:ARG:N	2.76	0.43
2:C:477:THR:OG1	2:C:478:GLU:N	2.51	0.43
2:C:1094:ILE:C	2:C:1101:MET:HG3	2.43	0.43
2:C:1151:TYR:N	2:C:1182:VAL:O	2.51	0.43
2:C:1163:THR:H	2:C:1163:THR:HG1	1.61	0.43
3:D:151:THR:HG23	3:D:154:ASN:HD22	1.82	0.43
3:D:342:ARG:CZ	3:D:345:ARG:HD3	2.48	0.43
3:D:359:ALA:O	3:D:363:GLN:HG3	2.18	0.43
4:K:538:CYS:C	4:K:542:ARG:HE	2.27	0.43
4:L:336:MET:N	4:L:411:GLU:OE2	2.49	0.43
4:L:367:VAL:HG22	4:L:368:VAL:H	1.82	0.43
4:L:573:ALA:O	4:L:577:LEU:HG	2.18	0.43
4:L:663:GLY:O	4:L:667:LYS:HG3	2.18	0.43
4:M:108:ILE:HG23	4:M:137:TYR:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:288:GLN:OE1	4:M:291:ASP:HB2	2.18	0.43
4:M:578:GLU:N	4:M:584:ARG:HH12	2.17	0.43
5:O:5:TRP:HB3	5:O:336:SER:O	2.18	0.43
5:O:47:ARG:HG2	5:O:54:ILE:HG12	1.99	0.43
5:O:83:GLU:OE2	5:O:84:ARG:HG3	2.18	0.43
5:O:118:ALA:HA	5:O:156:PHE:CE2	2.52	0.43
5:O:129:PHE:C	5:O:131:ASP:H	2.24	0.43
5:O:243:SER:OG	5:O:244:ALA:N	2.42	0.43
5:O:606:THR:HG22	5:O:607:ALA:N	2.33	0.43
5:O:654:VAL:HG13	5:O:656:PHE:CE1	2.53	0.43
5:O:671:TYR:HA	5:O:674:LEU:HG	1.99	0.43
5:O:995:LEU:HA	5:O:995:LEU:HD12	1.83	0.43
5:O:1145:ILE:HB	5:O:1181:LEU:CB	2.48	0.43
3:P:228:ILE:HA	3:P:232:ASN:ND2	2.33	0.43
3:P:375:TRP:HA	3:P:378:GLU:OE1	2.18	0.43
6:X:198:GLU:CD	6:X:355:PRO:HB3	2.43	0.43
6:X:304:HIS:C	6:X:306:TRP:H	2.25	0.43
6:Z:10:GLN:OE1	6:Z:10:GLN:N	2.21	0.43
6:Z:87:PHE:O	6:Z:91:VAL:HG23	2.17	0.43
6:Z:231:ASP:OD2	6:Z:233:SER:OG	2.34	0.43
6:Z:312:ARG:NH2	6:Z:317:PRO:HG3	2.33	0.43
1:B:307:HIS:CD2	1:B:323:ILE:HD13	2.53	0.43
1:B:474:ILE:HD12	1:B:505:MET:O	2.18	0.43
1:B:613:TYR:HD2	1:B:615:LYS:HD3	1.83	0.43
1:B:1039:GLY:HA2	1:B:1146:TYR:OH	2.18	0.43
1:B:1109:ILE:HD12	1:B:1138:ARG:NE	2.31	0.43
1:B:1187:ASP:C	1:B:1220:ILE:HB	2.42	0.43
2:C:676:SER:C	2:C:678:PHE:H	2.26	0.43
2:C:1049:ARG:CZ	2:C:1132:THR:HG23	2.48	0.43
2:C:1123:ASN:N	2:C:1123:ASN:OD1	2.51	0.43
4:K:43:PRO:HB3	4:M:116:MET:HE3	2.00	0.43
4:K:167:THR:HG23	4:K:170:ARG:H	1.83	0.43
4:K:367:VAL:HG21	4:K:467:TYR:HB3	1.99	0.43
4:K:645:LYS:NZ	4:K:649:SER:HB3	2.33	0.43
4:L:13:VAL:HA	4:L:249:TRP:CH2	2.52	0.43
4:L:103:VAL:HG21	4:L:141:LEU:HD22	2.01	0.43
4:L:352:ASN:OD1	6:Y:64:LYS:HD2	2.19	0.43
4:L:393:ASP:OD2	6:Y:277:THR:HB	2.19	0.43
4:L:610:ILE:HG13	4:L:611:ILE:HG23	2.01	0.43
4:L:636:ARG:NH1	4:M:27:SER:HB3	2.32	0.43
4:M:429:GLN:C	4:M:430:LEU:HD22	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:8:ARG:HE	5:O:716:PHE:HD2	1.65	0.43
5:O:61:ARG:NE	5:O:64:GLN:OE1	2.44	0.43
5:O:616:ILE:HB	5:O:651:LEU:CB	2.48	0.43
5:O:994:ALA:O	5:O:999:THR:N	2.51	0.43
5:O:1054:ASN:HD21	5:O:1104:LEU:HD11	1.82	0.43
5:O:1230:LEU:HD22	5:O:1277:TYR:CD2	2.52	0.43
3:P:83:ASN:OD1	3:P:83:ASN:N	2.42	0.43
3:P:110:GLN:O	3:P:114:GLN:HG3	2.18	0.43
3:P:219:LEU:HD22	3:P:239:PHE:CE1	2.53	0.43
3:P:306:ASN:ND2	3:P:322:ARG:HA	2.33	0.43
6:X:14:LEU:CD1	6:X:45:CYS:HA	2.48	0.43
6:Y:24:SER:O	6:Y:43:MET:HA	2.19	0.43
6:Y:338:ALA:O	6:Y:341:THR:OG1	2.23	0.43
6:Z:50:VAL:HG13	6:Z:56:GLY:O	2.18	0.43
1:B:876:ALA:C	1:B:877:LEU:HG	2.43	0.43
1:B:1076:ILE:HG22	1:B:1077:PHE:H	1.83	0.43
2:C:398:ASP:HB2	2:C:402:TRP:HE1	1.83	0.43
2:C:808:PRO:HA	2:C:811:LEU:HG	1.99	0.43
2:C:1095:ARG:N	2:C:1101:MET:HG3	2.33	0.43
3:D:153:LEU:C	3:D:155:LEU:N	2.76	0.43
3:D:179:LEU:O	3:D:182:TYR:N	2.49	0.43
4:L:299:GLU:OE2	4:M:650:LYS:NZ	2.48	0.43
4:L:362:ARG:CD	4:L:486:PRO:HA	2.45	0.43
4:L:590:GLY:O	4:L:593:SER:OG	2.22	0.43
4:L:658:GLN:NE2	4:L:659:ASN:HB2	2.33	0.43
4:M:57:VAL:HG13	4:M:59:SER:O	2.18	0.43
4:M:385:LYS:NZ	4:M:491:ALA:HA	2.34	0.43
4:M:620:ASP:OD1	4:M:621:LYS:HG2	2.19	0.43
4:M:631:VAL:HG13	4:M:632:LYS:H	1.84	0.43
5:O:10:ALA:HB2	5:O:313:GLN:CG	2.48	0.43
5:O:26:THR:H	5:O:29:ASP:HB2	1.81	0.43
5:O:114:PHE:HA	5:O:117:ASN:HD22	1.82	0.43
5:O:439:VAL:C	5:O:639:MET:HG3	2.44	0.43
5:O:453:LEU:HD21	5:O:624:TRP:CD1	2.54	0.43
5:O:529:VAL:HG23	5:O:530:ILE:HD13	1.99	0.43
5:O:573:PHE:HE2	5:O:575:TYR:HB2	1.81	0.43
5:O:770:ARG:NH2	5:O:859:GLY:O	2.28	0.43
5:O:907:PHE:CZ	5:O:911:ILE:HD11	2.53	0.43
5:O:931:ASP:HB3	5:O:1015:TYR:CE1	2.52	0.43
5:O:931:ASP:CG	5:O:932:VAL:N	2.75	0.43
5:O:1167:ASN:HB3	5:O:1170:LYS:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:1189:ILE:HG22	5:O:1193:TYR:HE1	1.83	0.43
5:O:1262:ASP:HB3	5:O:1278:ILE:HB	2.01	0.43
3:P:81:ARG:NE	3:P:83:ASN:O	2.52	0.43
3:P:241:CYS:O	3:P:244:ARG:HG3	2.19	0.43
3:P:267:ASN:OD1	3:P:268:ARG:N	2.51	0.43
3:P:333:ARG:HG2	3:P:362:ASP:OD1	2.19	0.43
6:Y:268:MET:HA	6:Y:268:MET:HE3	1.99	0.43
6:Y:283:TYR:CE1	6:Y:337:PRO:HG2	2.53	0.43
6:Z:74:ASN:HB2	6:Z:76:GLN:OE1	2.18	0.43
1:B:336:LYS:HZ1	1:B:348:GLY:H	1.67	0.43
1:B:768:VAL:O	1:B:772:MET:HG2	2.18	0.43
1:B:1036:ASN:ND2	1:B:1207:ARG:HE	2.00	0.43
2:C:268:ILE:H	2:C:268:ILE:HD12	1.84	0.43
2:C:589:SER:O	2:C:590:SER:C	2.62	0.43
2:C:660:GLU:CD	2:C:700:PRO:HD2	2.44	0.43
2:C:1110:PHE:HZ	2:C:1115:TRP:N	2.16	0.43
2:C:1115:TRP:CD1	2:C:1119:THR:HG23	2.54	0.43
2:C:1160:TRP:HD1	2:C:1161:ASN:OD1	2.01	0.43
2:C:1253:LEU:HD23	2:C:1253:LEU:HA	1.77	0.43
3:D:60:THR:O	3:D:63:SER:OG	2.30	0.43
3:D:246:ASP:OD1	3:D:248:ALA:N	2.39	0.43
4:K:193:ARG:NH2	4:M:634:SER:O	2.50	0.43
4:K:377:ARG:HB2	4:K:498:LEU:HD21	2.00	0.43
4:K:606:ASP:OD1	4:K:608:SER:N	2.51	0.43
4:L:20:PHE:O	4:L:209:SER:OG	2.19	0.43
4:L:126:ASP:OD2	4:L:132:SER:HA	2.17	0.43
4:L:228:LEU:O	4:L:232:TYR:N	2.51	0.43
4:L:347:ILE:HD12	4:L:348:GLN:H	1.83	0.43
4:L:392:TRP:CH2	4:L:397:LYS:HD2	2.54	0.43
4:L:654:SER:O	4:L:658:GLN:HG3	2.17	0.43
4:M:105:GLU:O	4:M:108:ILE:N	2.51	0.43
4:M:131:LEU:HD12	4:M:131:LEU:HA	1.82	0.43
4:M:402:ILE:HG13	4:M:423:THR:O	2.18	0.43
5:O:9:LEU:O	5:O:315:ALA:HB2	2.19	0.43
5:O:207:LEU:HD13	5:O:210:PHE:HB3	1.99	0.43
5:O:241:MET:N	5:O:249:ILE:O	2.40	0.43
5:O:768:ARG:HG2	5:O:842:ALA:HB2	2.00	0.43
3:P:84:HIS:CD2	3:P:130:TYR:HD1	2.36	0.43
3:P:283:VAL:HG22	3:P:287:LEU:HD23	1.99	0.43
3:P:327:LEU:HD23	3:P:327:LEU:HA	1.63	0.43
3:P:331:GLN:HE22	3:P:403:GLY:N	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:367:PHE:O	3:P:371:LYS:HG2	2.18	0.43
6:X:84:ASP:OD1	6:X:85:VAL:HG23	2.18	0.43
6:X:142:PHE:O	6:X:217:GLU:HA	2.18	0.43
6:Y:180:VAL:HB	6:Y:364:LEU:HD23	2.01	0.43
6:Y:222:VAL:HG23	6:Y:357:MET:SD	2.59	0.43
6:Z:142:PHE:CD1	6:Z:217:GLU:HB3	2.54	0.43
6:Z:212:SER:O	6:Z:213:ARG:NE	2.52	0.43
1:B:318:ARG:NE	1:B:371:TYR:HA	2.33	0.43
1:B:532:ILE:HG23	1:B:536:LEU:HD11	2.00	0.43
1:B:634:LEU:HB2	1:B:883:THR:HG22	2.00	0.43
1:B:718:GLN:OE1	1:B:718:GLN:N	2.50	0.43
1:B:931:LEU:HA	1:B:934:LEU:HG	2.00	0.43
1:B:1019:VAL:HG22	1:B:1023:CYS:SG	2.58	0.43
1:B:1166:TRP:NE1	1:B:1179:PRO:HD3	2.32	0.43
1:B:1219:THR:HB	1:B:1224:ASP:CG	2.44	0.43
2:C:548:PRO:C	2:C:550:GLN:HE22	2.26	0.43
2:C:1146:TYR:HE1	2:C:1148:LEU:HD21	1.83	0.43
3:D:236:THR:O	3:D:237:PHE:HD1	2.01	0.43
4:K:353:THR:HA	6:Z:32:TRP:CE3	2.53	0.43
4:K:371:ASP:N	4:K:373:ILE:HG12	2.34	0.43
4:K:583:VAL:HG11	6:X:67:HIS:NE2	2.34	0.43
4:L:23:SER:HB2	4:L:25:GLU:OE1	2.19	0.43
4:L:283:SER:O	4:L:286:THR:OG1	2.26	0.43
4:L:393:ASP:H	4:L:397:LYS:HZ2	1.67	0.43
4:L:398:LYS:HE3	4:L:473:ILE:CD1	2.46	0.43
4:L:437:PHE:HB3	4:L:440:GLN:CG	2.49	0.43
4:M:27:SER:HA	4:M:202:ASN:CB	2.49	0.43
4:M:403:VAL:HG22	4:M:404:PHE:H	1.83	0.43
4:M:405:GLN:HE21	4:M:421:GLN:CB	2.29	0.43
4:M:472:PHE:CE1	4:M:485:GLN:HG3	2.46	0.43
5:O:47:ARG:HD2	5:O:52:ASN:CG	2.43	0.43
5:O:96:GLU:O	5:O:99:ARG:N	2.51	0.43
5:O:587:ASP:O	5:O:590:ILE:HB	2.18	0.43
5:O:1257:LEU:HD11	5:O:1261:TRP:HB2	1.99	0.43
3:P:168:GLU:C	3:P:170:MET:N	2.76	0.43
3:P:311:ALA:HA	3:P:314:ARG:CD	2.47	0.43
6:X:104:CYS:HA	6:X:166:TYR:CE1	2.53	0.43
6:X:170:LEU:O	6:X:174:ILE:HG23	2.19	0.43
6:X:196:ARG:HD3	6:X:354:TYR:C	2.44	0.43
6:Z:86:GLN:CD	6:Z:86:GLN:N	2.76	0.43
6:Z:311:ILE:O	6:Z:316:GLY:N	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:315:LEU:HD12	6:Z:323:TRP:CD1	2.53	0.43
1:B:643:CYS:SG	1:B:684:TRP:HZ2	2.42	0.43
1:B:760:GLU:O	1:B:767:ARG:NH1	2.51	0.43
1:B:819:LEU:HA	1:B:822:ILE:HD11	2.01	0.43
1:B:1093:MET:HA	1:B:1102:VAL:O	2.18	0.43
2:C:404:SER:O	2:C:408:PRO:HA	2.19	0.43
2:C:544:GLN:HA	2:C:592:ARG:NE	2.34	0.43
2:C:898:ASN:HA	2:C:901:TYR:HD1	1.83	0.43
2:C:1022:ASP:HA	2:C:1025:GLN:HG3	2.01	0.43
2:C:1048:GLY:O	2:C:1198:TYR:HA	2.18	0.43
2:C:1057:SER:O	2:C:1060:ALA:N	2.36	0.43
2:C:1101:MET:N	2:C:1101:MET:SD	2.92	0.43
2:C:1153:PRO:HG3	2:C:1183:PRO:HB3	2.01	0.43
3:D:139:PHE:O	3:D:143:VAL:HG22	2.19	0.43
3:D:185:HIS:O	3:D:252:ILE:HG13	2.19	0.43
4:K:24:ALA:HB2	4:K:206:GLY:N	2.33	0.43
4:K:297:GLU:O	4:K:300:ILE:HG22	2.19	0.43
4:K:413:TRP:HA	4:K:418:GLN:OE1	2.18	0.43
4:L:337:ILE:HG13	4:L:341:MET:HB2	2.01	0.43
4:M:195:ALA:O	4:M:198:LEU:HG	2.19	0.43
4:M:218:LEU:HD13	4:M:672:PHE:CD2	2.54	0.43
4:M:338:PRO:O	4:M:343:THR:HG21	2.18	0.43
4:M:468:LEU:C	4:M:469:LEU:HD22	2.43	0.43
5:O:140:ASP:OD2	5:O:141:THR:N	2.52	0.43
5:O:322:LEU:N	5:O:322:LEU:HD12	2.34	0.43
5:O:424:PRO:HA	5:O:792:PRO:HG2	2.00	0.43
5:O:794:LEU:HG	5:O:795:PHE:CD1	2.54	0.43
5:O:804:HIS:H	5:O:804:HIS:CD2	2.36	0.43
5:O:828:LEU:HG	5:O:887:THR:O	2.19	0.43
5:O:950:ARG:HD3	5:O:950:ARG:C	2.43	0.43
5:O:977:CYS:HA	5:O:1022:ASP:O	2.18	0.43
3:P:41:GLN:HG3	3:P:64:ARG:HH22	1.83	0.43
6:X:242:LEU:HD23	6:X:242:LEU:H	1.84	0.43
6:Z:107:HIS:O	6:Z:110:MET:HB3	2.19	0.43
1:B:667:GLN:NE2	1:B:667:GLN:HA	2.34	0.43
1:B:702:LEU:O	1:B:705:TRP:HB2	2.19	0.43
1:B:781:TYR:O	1:B:785:TRP:HB2	2.19	0.43
1:B:928:VAL:HG13	1:B:987:LEU:HD21	2.00	0.43
1:B:1047:ILE:CG2	1:B:1137:ILE:HB	2.49	0.43
1:B:1148:LEU:HD13	1:B:1150:TYR:HE1	1.84	0.43
2:C:955:LEU:HD12	2:C:956:ARG:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1062:PRO:HD2	2:C:1065:LEU:HD12	2.01	0.43
4:K:337:ILE:O	4:K:364:GLY:HA2	2.18	0.43
4:K:388:LYS:NZ	4:K:394:PRO:HD2	2.32	0.43
4:K:395:ASN:O	4:K:397:LYS:NZ	2.34	0.43
4:K:547:ALA:HA	4:K:550:ILE:HD12	2.00	0.43
4:L:300:ILE:HG12	4:M:650:LYS:NZ	2.34	0.43
4:L:407:LYS:HE2	4:L:463:GLU:H	1.84	0.43
4:L:648:VAL:O	4:L:651:LEU:HG	2.17	0.43
5:O:456:LEU:HD21	5:O:460:TYR:CB	2.49	0.43
5:O:633:PRO:HA	5:O:662:SER:O	2.18	0.43
5:O:742:ALA:HA	5:O:787:ILE:CB	2.47	0.43
5:O:842:ALA:HB1	5:O:863:VAL:HG11	1.99	0.43
5:O:1030:LYS:O	5:O:1031:ARG:HD3	2.18	0.43
5:O:1081:ASP:OD1	5:O:1083:THR:OG1	2.33	0.43
5:O:1257:LEU:HD12	5:O:1258:PRO:HD2	2.01	0.43
3:P:231:GLN:O	3:P:233:THR:HG23	2.18	0.43
3:P:363:GLN:HB3	3:P:367:PHE:CZ	2.53	0.43
6:X:73:CYS:HB2	6:X:75:GLN:OE1	2.19	0.43
6:X:246:ALA:O	6:X:250:GLY:N	2.51	0.43
6:Y:206:PHE:CG	6:Y:267:LYS:HD2	2.53	0.43
6:Z:133:TRP:N	6:Z:360:ASP:OD2	2.41	0.43
1:B:340:ASN:ND2	1:B:342:GLU:O	2.51	0.43
1:B:459:VAL:HG21	1:B:1255:ASN:ND2	2.34	0.43
1:B:1034:GLU:O	1:B:1037:LEU:HB2	2.19	0.43
1:B:1115:TRP:NE1	1:B:1119:THR:HG23	2.33	0.43
2:C:604:VAL:HA	2:C:873:VAL:N	2.34	0.43
2:C:716:PRO:HB3	2:C:835:TYR:CD2	2.54	0.43
2:C:837:ARG:HD2	2:C:837:ARG:HA	1.77	0.43
2:C:1022:ASP:OD1	2:C:1023:CYS:N	2.52	0.43
2:C:1204:TYR:HD1	2:C:1206:ASP:H	1.65	0.43
3:D:16:LEU:HB2	3:D:20:PRO:CG	2.47	0.43
3:D:59:PRO:HG3	3:D:375:TRP:CH2	2.54	0.43
3:D:190:ILE:HG12	3:D:194:LEU:HD21	2.00	0.43
3:D:357:ILE:HD13	3:D:357:ILE:HA	1.86	0.43
4:K:147:TYR:CZ	4:K:159:PHE:HD1	2.36	0.43
4:K:574:ILE:HA	4:K:577:LEU:HB2	2.01	0.43
4:L:18:ASN:HB3	4:L:249:TRP:CD2	2.54	0.43
4:L:540:ILE:HD13	4:L:608:SER:HA	2.00	0.43
4:L:589:LYS:HA	4:L:592:LEU:HD12	2.01	0.43
4:M:456:GLN:NE2	4:M:456:GLN:O	2.51	0.43
4:M:517:GLU:OE1	6:Y:313:TYR:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:645:LYS:HA	4:M:645:LYS:HD2	1.89	0.43
5:O:34:LEU:O	5:O:90:LEU:HD11	2.19	0.43
5:O:186:PRO:HD3	5:O:324:ASN:HB3	2.01	0.43
5:O:426:TYR:CD2	5:O:694:PHE:HA	2.54	0.43
5:O:768:ARG:HA	5:O:862:ASN:ND2	2.34	0.43
5:O:811:TYR:CE2	5:O:1018:ILE:HD11	2.54	0.43
5:O:1133:GLN:NE2	5:O:1134:LEU:O	2.52	0.43
5:O:1150:TYR:HB3	5:O:1151:TYR:CD1	2.54	0.43
3:P:190:ILE:HD12	3:P:190:ILE:H	1.82	0.43
3:P:285:LEU:HG	3:P:286:ILE:HD13	2.01	0.43
3:P:353:GLN:HA	3:P:356:GLN:NE2	2.31	0.43
6:X:128:LEU:HD23	6:X:128:LEU:H	1.84	0.43
6:X:245:PRO:HB2	6:X:249:PHE:CD1	2.54	0.43
6:X:328:MET:SD	6:X:329:GLN:HG3	2.58	0.43
6:Y:7:ASN:CG	6:Y:9:HIS:CD2	2.97	0.43
6:Y:143:ARG:HG2	6:Y:265:LEU:HD11	2.01	0.43
6:Y:265:LEU:HD13	6:Y:265:LEU:HA	1.91	0.43
6:Z:190:HIS:HA	6:Z:193:ASN:O	2.18	0.43
6:Z:299:VAL:HG21	6:Z:324:TYR:CD1	2.54	0.43
1:B:293:GLN:HB2	1:B:404:SER:CB	2.48	0.43
1:B:369:ASN:HD22	1:B:458:THR:HG22	1.82	0.43
1:B:578:LEU:O	1:B:581:LEU:N	2.52	0.43
1:B:1035:TYR:HD2	1:B:1040:ILE:O	2.01	0.43
1:B:1074:VAL:C	1:B:1075:HIS:CG	2.96	0.43
1:B:1086:GLY:HA3	1:B:1092:PRO:HG3	2.00	0.43
2:C:265:SER:CB	2:C:309:ARG:H	2.30	0.43
2:C:732:LEU:HG	2:C:1011:VAL:CG1	2.48	0.43
2:C:931:LEU:HD23	2:C:932:VAL:N	2.34	0.43
3:D:55:SER:HB3	3:D:59:PRO:CB	2.46	0.43
3:D:236:THR:HB	3:D:256:SER:O	2.18	0.43
4:K:13:VAL:HG12	4:K:249:TRP:CZ3	2.53	0.43
4:K:147:TYR:CE1	4:K:159:PHE:HD1	2.37	0.43
4:K:168:PRO:O	4:K:172:THR:OG1	2.30	0.43
4:K:227:SER:O	4:K:230:ARG:HG2	2.18	0.43
4:K:289:ALA:O	4:K:293:VAL:HG22	2.19	0.43
4:K:321:TYR:HH	4:K:537:ARG:NH2	2.09	0.43
4:L:111:PHE:HD1	4:L:137:TYR:CE2	2.37	0.43
4:L:145:ASP:OD1	4:L:162:GLN:HG2	2.18	0.43
4:L:506:LYS:HD3	6:Z:316:GLY:CA	2.48	0.43
4:L:537:ARG:O	4:L:540:ILE:HG22	2.19	0.43
4:M:672:PHE:HD1	4:M:672:PHE:HA	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:4:VAL:HG13	5:O:341:GLU:HG2	2.00	0.43
5:O:67:VAL:O	5:O:68:LEU:HD23	2.18	0.43
5:O:93:LEU:O	5:O:97:VAL:HG13	2.18	0.43
5:O:608:PRO:HA	5:O:659:HIS:CD2	2.54	0.43
5:O:882:ARG:HH21	5:O:884:ASP:CG	2.18	0.43
5:O:981:TRP:HB2	5:O:1116:SER:OG	2.19	0.43
5:O:1036:VAL:HG11	5:O:1150:TYR:CE1	2.54	0.43
3:P:65:TYR:HA	3:P:68:MET:SD	2.59	0.43
3:P:233:THR:CB	3:P:236:THR:HA	2.49	0.43
6:X:99:MET:O	6:X:103:VAL:HG22	2.19	0.43
6:X:132:ASN:CG	6:X:134:LEU:H	2.26	0.43
6:X:262:THR:O	6:X:264:ILE:HG12	2.19	0.43
6:Y:159:LEU:H	6:Y:159:LEU:HD12	1.84	0.43
6:Y:180:VAL:HG12	6:Y:225:TYR:CE1	2.52	0.43
6:Z:40:PRO:HB2	6:Z:52:MET:SD	2.59	0.43
6:Z:50:VAL:HA	6:Z:58:VAL:HG22	2.01	0.43
1:B:333:HIS:HB2	1:B:337:GLN:NE2	2.34	0.42
1:B:484:THR:OG1	1:B:485:GLU:N	2.53	0.42
1:B:552:ASP:OD2	1:B:555:ILE:HG13	2.18	0.42
2:C:521:ARG:O	2:C:525:ILE:HG13	2.19	0.42
2:C:600:TYR:HA	2:C:831:PHE:O	2.18	0.42
2:C:949:LEU:HD13	2:C:949:LEU:HA	1.90	0.42
2:C:951:TRP:O	2:C:953:PRO:HD3	2.18	0.42
2:C:1110:PHE:O	2:C:1139:ILE:HD12	2.19	0.42
2:C:1209:LEU:HD12	2:C:1210:PHE:H	1.84	0.42
3:D:63:SER:CA	3:D:393:ARG:HB2	2.48	0.42
3:D:66:TYR:CE1	3:D:394:THR:HA	2.53	0.42
3:D:146:GLN:HG2	3:D:147:LEU:N	2.34	0.42
4:K:359:PHE:HA	4:K:478:ILE:HG21	2.01	0.42
4:L:45:GLY:HA3	4:L:149:GLY:O	2.18	0.42
4:L:254:GLU:HB3	4:L:256:THR:OG1	2.19	0.42
4:L:284:LYS:N	4:L:284:LYS:HD3	2.34	0.42
4:M:442:ILE:HD12	4:M:442:ILE:HA	1.83	0.42
4:M:450:TYR:CG	4:M:451:ASN:N	2.87	0.42
5:O:57:VAL:HG23	5:O:175:MET:HE3	2.00	0.42
5:O:114:PHE:HZ	5:O:229:ASN:HA	1.84	0.42
5:O:162:ASP:C	5:O:201:SER:HG	2.24	0.42
5:O:188:PHE:CE2	5:O:258:GLU:HG3	2.54	0.42
5:O:372:LYS:HB3	5:O:374:GLN:CG	2.44	0.42
5:O:440:ASP:HB3	5:O:639:MET:SD	2.59	0.42
5:O:442:ASN:OD1	5:O:444:SER:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:486:ASP:HA	5:O:489:VAL:HG22	2.01	0.42
5:O:509:ARG:HB3	5:O:545:SER:HB3	1.99	0.42
5:O:750:ARG:HD3	5:O:750:ARG:HA	1.82	0.42
5:O:986:TYR:OH	5:O:1059:SER:HB3	2.19	0.42
3:P:61:ALA:HA	3:P:64:ARG:HB2	2.00	0.42
3:P:165:ARG:NH1	3:P:267:ASN:HD21	2.17	0.42
3:P:223:SER:HB2	3:P:251:TRP:CZ3	2.54	0.42
3:P:370:ASP:HB2	3:P:371:LYS:HZ2	1.84	0.42
3:P:399:ASN:HA	3:P:402:TRP:HD1	1.79	0.42
6:X:304:HIS:O	6:X:306:TRP:N	2.52	0.42
6:Y:27:SER:N	6:Y:30:GLU:HB2	2.33	0.42
6:Y:42:MET:SD	6:Y:51:CYS:HA	2.59	0.42
6:Y:148:SER:N	6:Y:151:ASP:OD2	2.52	0.42
6:Z:54:CYS:HB3	6:Z:73:CYS:SG	2.58	0.42
1:B:373:ASN:HB2	1:B:1259:ARG:CD	2.49	0.42
1:B:385:PHE:CZ	2:C:1117:MET:HA	2.55	0.42
1:B:644:ALA:HB3	1:B:645:PRO:HD3	2.01	0.42
1:B:1035:TYR:C	1:B:1040:ILE:HB	2.45	0.42
2:C:573:PRO:HB3	2:C:623:LEU:HD13	2.01	0.42
2:C:685:PRO:CG	2:C:688:PHE:HB2	2.48	0.42
2:C:746:GLN:HB2	2:C:813:GLN:HG3	2.00	0.42
2:C:1070:ASP:OD1	2:C:1071:THR:HG23	2.19	0.42
3:D:39:LEU:HG	3:D:40:THR:N	2.34	0.42
3:D:63:SER:HB2	3:D:393:ARG:HD2	2.00	0.42
3:D:239:PHE:HB3	3:D:251:TRP:HB3	2.00	0.42
3:D:280:ASN:ND2	3:D:394:THR:OG1	2.51	0.42
4:K:262:VAL:O	4:L:43:PRO:HG2	2.17	0.42
4:K:344:LEU:HD11	4:K:480:PRO:HB3	2.01	0.42
4:K:615:ALA:O	4:K:619:SER:HB3	2.18	0.42
4:K:627:LEU:HD12	4:K:628:ALA:N	2.34	0.42
4:L:48:TRP:H	4:L:147:TYR:C	2.20	0.42
4:L:309:ALA:O	4:L:313:ALA:N	2.35	0.42
4:L:448:LEU:HD12	4:L:448:LEU:HA	1.90	0.42
4:M:357:TRP:CE3	4:M:474:ASP:HA	2.47	0.42
4:M:423:THR:HG22	4:M:424:VAL:O	2.18	0.42
4:M:520:GLY:N	4:M:611:ILE:HA	2.34	0.42
4:M:633:THR:OG1	4:M:634:SER:N	2.53	0.42
5:O:361:VAL:O	5:O:365:THR:HG22	2.19	0.42
5:O:617:ASN:HB3	5:O:618:PHE:CZ	2.54	0.42
5:O:743:ILE:HG12	5:O:752:LEU:HD13	2.00	0.42
5:O:1052:VAL:O	5:O:1104:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:18:ASN:ND2	3:P:19:VAL:O	2.51	0.42
3:P:108:PRO:O	3:P:112:LEU:HG	2.20	0.42
3:P:205:HIS:CD2	3:P:206:ASP:HB2	2.54	0.42
6:X:29:GLN:HG3	6:X:30:GLU:OE2	2.18	0.42
6:X:211:ASP:N	6:X:211:ASP:OD1	2.51	0.42
6:Y:3:VAL:HA	6:Y:56:GLY:HA2	2.01	0.42
6:Z:158:ASP:OD1	6:Z:162:LYS:HG3	2.19	0.42
1:B:627:TRP:O	1:B:631:ILE:HG13	2.18	0.42
1:B:680:THR:OG1	1:B:683:THR:HG23	2.18	0.42
1:B:849:VAL:HA	1:B:998:ALA:O	2.18	0.42
1:B:1231:ARG:HH21	1:B:1250:VAL:HG13	1.83	0.42
2:C:437:ALA:HA	2:C:447:TRP:CE2	2.54	0.42
2:C:532:ILE:HA	2:C:535:VAL:HG22	1.99	0.42
2:C:866:THR:O	2:C:866:THR:HG22	2.18	0.42
2:C:982:MET:O	2:C:983:LEU:HG	2.19	0.42
2:C:1257:VAL:HG12	2:C:1258:THR:O	2.19	0.42
3:D:35:SER:C	3:D:38:GLN:HE22	2.27	0.42
3:D:162:SER:HB3	3:D:272:VAL:HG13	2.01	0.42
3:D:371:LYS:HA	3:D:371:LYS:HD3	1.95	0.42
4:K:346:GLN:CA	4:K:360:ASN:HA	2.43	0.42
4:K:360:ASN:OD1	4:K:361:LEU:N	2.40	0.42
4:K:523:THR:HG23	4:K:613:GLN:OE1	2.20	0.42
4:L:111:PHE:HD1	4:L:137:TYR:HE2	1.67	0.42
4:L:188:TRP:HD1	4:L:189:GLU:HG2	1.84	0.42
4:L:401:PHE:CZ	4:L:448:LEU:HB3	2.53	0.42
4:L:578:GLU:O	6:Z:70:HIS:NE2	2.51	0.42
4:M:68:SER:N	4:M:98:GLU:O	2.35	0.42
4:M:118:LEU:O	4:M:122:ARG:HG3	2.19	0.42
4:M:631:VAL:HG13	4:M:632:LYS:N	2.34	0.42
5:O:646:THR:HG22	5:O:647:ASN:N	2.33	0.42
5:O:760:PRO:O	5:O:763:ALA:HB3	2.20	0.42
5:O:771:TYR:C	5:O:772:LEU:HD12	2.44	0.42
5:O:939:TYR:O	5:O:952:PRO:HD2	2.19	0.42
5:O:1024:HIS:CD2	5:O:1024:HIS:N	2.86	0.42
5:O:1032:GLY:HA3	5:O:1041:SER:H	1.82	0.42
5:O:1080:PHE:HB2	5:O:1087:TRP:CZ3	2.55	0.42
3:P:86:TRP:CZ2	3:P:99:PRO:HB3	2.54	0.42
3:P:354:GLN:O	3:P:358:GLU:HG3	2.19	0.42
6:X:88:ALA:HB2	6:X:210:PHE:CE2	2.54	0.42
6:X:160:ASP:OD1	6:X:160:ASP:N	2.48	0.42
6:X:211:ASP:OD2	6:X:213:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:238:TYR:OH	6:X:242:LEU:HD11	2.20	0.42
6:Z:1:MET:SD	6:Z:71:HIS:HA	2.59	0.42
6:Z:192:PHE:HD2	6:Z:206:PHE:CG	2.37	0.42
6:Z:217:GLU:C	6:Z:267:LYS:HZ3	2.26	0.42
6:Z:362:MET:HE2	6:Z:362:MET:HB3	1.90	0.42
1:B:267:LYS:O	1:B:304:ILE:HD12	2.20	0.42
1:B:331:ASN:O	1:B:334:LEU:HG	2.19	0.42
1:B:377:GLY:O	1:B:392:ARG:HA	2.19	0.42
1:B:713:TRP:CD2	1:B:714:PRO:HD2	2.55	0.42
1:B:793:MET:O	1:B:797:LEU:HG	2.18	0.42
1:B:1020:ILE:O	1:B:1024:VAL:HG23	2.18	0.42
1:B:1121:TYR:CE1	1:B:1125:GLN:HG3	2.54	0.42
1:B:1131:LYS:HE3	1:B:1160:TRP:CG	2.54	0.42
1:B:1158:ASN:CG	1:B:1198:TYR:HH	2.28	0.42
1:B:1231:ARG:HD3	1:B:1231:ARG:HA	1.74	0.42
2:C:460:SER:O	2:C:464:ARG:HG3	2.18	0.42
2:C:1077:PHE:CE2	2:C:1108:TRP:HB3	2.53	0.42
3:D:61:ALA:O	3:D:62:GLY:C	2.61	0.42
3:D:109:PRO:O	3:D:113:ALA:N	2.47	0.42
4:K:328:ILE:C	4:K:330:GLU:H	2.26	0.42
4:K:349:VAL:CG2	4:K:357:TRP:HB2	2.50	0.42
4:K:402:ILE:HB	4:K:469:LEU:HB3	2.01	0.42
4:K:504:THR:HA	4:K:508:ALA:O	2.19	0.42
4:L:34:LEU:O	4:L:36:LEU:HG	2.20	0.42
4:L:175:VAL:HA	4:L:178:ILE:HG12	2.01	0.42
4:L:250:MET:HG2	4:L:254:GLU:OE1	2.19	0.42
4:L:410:PHE:HB2	4:L:467:TYR:CE1	2.54	0.42
4:M:20:PHE:CD2	4:M:209:SER:HA	2.54	0.42
4:M:124:PHE:HE1	4:M:232:TYR:CZ	2.36	0.42
4:M:476:ALA:HB2	6:X:160:ASP:CG	2.44	0.42
5:O:23:ARG:HD3	5:O:25:TYR:CE2	2.54	0.42
5:O:68:LEU:O	5:O:193:SER:OG	2.25	0.42
5:O:91:ARG:HA	5:O:94:LYS:HG3	2.00	0.42
5:O:93:LEU:HD22	5:O:123:PHE:CD1	2.55	0.42
5:O:241:MET:HG2	5:O:249:ILE:HD12	2.01	0.42
5:O:394:VAL:HG12	5:O:395:GLN:N	2.34	0.42
5:O:401:THR:HG21	5:O:724:ARG:HH21	1.84	0.42
5:O:826:LEU:HA	5:O:847:THR:HG23	2.01	0.42
5:O:1161:GLY:C	5:O:1162:GLN:HG3	2.44	0.42
5:O:1175:SER:HA	5:O:1181:LEU:HA	2.01	0.42
3:P:84:HIS:CG	3:P:130:TYR:HD1	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:108:PRO:HD2	3:P:111:VAL:HB	2.02	0.42
3:P:170:MET:HE2	3:P:214:GLN:HE21	1.83	0.42
6:X:22:ARG:NH1	6:X:96:LYS:HZ2	2.17	0.42
6:X:142:PHE:CE2	6:X:266:GLY:HA2	2.50	0.42
6:X:218:TRP:HE1	6:X:358:ILE:HD11	1.83	0.42
6:Y:38:ALA:O	6:Y:40:PRO:HD3	2.20	0.42
6:Z:33:ASP:OD1	6:Z:34:LYS:N	2.52	0.42
6:Z:107:HIS:ND1	6:Z:170:LEU:HB2	2.35	0.42
6:Z:251:HIS:CE1	6:Z:254:LEU:HD12	2.54	0.42
6:Z:253:GLY:HA2	6:Z:275:MET:HB2	2.01	0.42
6:Z:326:ARG:CZ	6:Z:329:GLN:HE22	2.33	0.42
1:B:427:VAL:H	1:B:1235:LEU:HD12	1.84	0.42
1:B:432:GLY:O	1:B:451:PHE:CG	2.72	0.42
1:B:512:ALA:O	1:B:516:ILE:HG12	2.19	0.42
1:B:522:ILE:HA	1:B:525:ILE:HD11	2.01	0.42
1:B:571:LEU:HD23	1:B:571:LEU:HA	1.83	0.42
1:B:630:PHE:CE1	1:B:768:VAL:HB	2.54	0.42
1:B:767:ARG:O	1:B:770:GLU:HG3	2.19	0.42
1:B:851:ARG:HH11	1:B:986:PRO:HA	1.83	0.42
1:B:1086:GLY:HA2	1:B:1092:PRO:HG3	2.02	0.42
2:C:516:ILE:HG13	2:C:517:SER:N	2.30	0.42
2:C:678:PHE:N	2:C:678:PHE:CD1	2.83	0.42
2:C:816:PRO:HA	2:C:819:LEU:HD11	2.02	0.42
3:D:185:HIS:C	3:D:252:ILE:HG13	2.45	0.42
3:D:375:TRP:HA	3:D:378:GLU:CD	2.44	0.42
4:K:143:TYR:HB3	4:K:162:GLN:C	2.43	0.42
4:K:205:ILE:HD12	4:K:205:ILE:HA	1.88	0.42
4:K:376:MET:CA	4:K:498:LEU:HG	2.49	0.42
4:K:514:VAL:O	4:K:518:LEU:HG	2.19	0.42
4:L:292:LEU:HD21	4:L:545:LYS:O	2.19	0.42
4:M:176:ASP:HA	4:M:179:GLN:CG	2.50	0.42
4:M:535:ALA:O	4:M:539:MET:HG3	2.19	0.42
5:O:514:TYR:CD1	5:O:575:TYR:CG	3.08	0.42
5:O:1044:ILE:CD1	5:O:1089:LEU:HG	2.50	0.42
3:P:27:SER:O	3:P:31:ARG:N	2.53	0.42
3:P:130:TYR:HA	3:P:131:PRO:HD3	1.86	0.42
3:P:186:THR:O	3:P:190:ILE:HD12	2.19	0.42
6:X:110:MET:C	6:X:112:ASP:H	2.27	0.42
6:Y:3:VAL:HA	6:Y:56:GLY:CA	2.50	0.42
6:Y:82:TYR:HB3	6:Y:298:LEU:HD11	2.01	0.42
6:Y:188:PRO:HA	6:Y:191:ALA:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:232:PRO:C	6:Y:234:LYS:H	2.25	0.42
6:Y:266:GLY:O	6:Y:267:LYS:HG2	2.18	0.42
6:Z:42:MET:HE3	6:Z:43:MET:N	2.35	0.42
6:Z:71:HIS:CG	6:Z:72:ARG:N	2.87	0.42
1:B:800:LEU:O	1:B:803:ILE:HG12	2.20	0.42
1:B:1046:ILE:HG13	1:B:1138:ARG:HA	2.02	0.42
1:B:1204:TYR:CE2	1:B:1207:ARG:HG3	2.54	0.42
2:C:576:SER:HB2	2:C:627:TRP:CH2	2.55	0.42
2:C:581:LEU:C	2:C:582:ARG:HG2	2.44	0.42
2:C:602:GLY:CA	2:C:833:VAL:HG23	2.49	0.42
2:C:763:ASN:HA	2:C:766:ALA:HB3	2.01	0.42
2:C:991:ASP:C	2:C:993:ARG:H	2.28	0.42
2:C:1093:MET:HE2	2:C:1103:PRO:HG3	2.02	0.42
4:K:136:LYS:HZ1	4:L:158:ASN:HA	1.85	0.42
4:K:348:GLN:HB3	4:K:356:ASN:CG	2.44	0.42
4:K:374:ALA:O	4:K:375:PRO:C	2.62	0.42
4:L:178:ILE:O	4:L:181:ALA:HB3	2.19	0.42
4:L:198:LEU:O	4:L:199:LEU:HD23	2.20	0.42
4:L:375:PRO:HA	4:L:452:TYR:CD2	2.55	0.42
4:L:380:LEU:HB2	4:L:401:PHE:HZ	1.85	0.42
4:L:385:LYS:NZ	4:L:492:LEU:HG	2.35	0.42
4:L:613:GLN:CD	6:Z:4:CYS:HB2	2.44	0.42
4:L:621:LYS:HG3	4:L:622:ASN:N	2.35	0.42
4:M:40:MET:C	4:M:41:LEU:HD23	2.44	0.42
4:M:147:TYR:CZ	4:M:159:PHE:HB2	2.54	0.42
4:M:348:GLN:HA	4:M:359:PHE:CE2	2.55	0.42
4:M:370:LEU:HB3	4:M:452:TYR:CE1	2.55	0.42
4:M:395:ASN:OD1	4:M:432:ALA:N	2.31	0.42
4:M:476:ALA:HB2	6:X:160:ASP:OD2	2.20	0.42
4:M:525:GLU:HA	4:M:528:ASN:HD22	1.84	0.42
5:O:73:TYR:HE1	5:O:170:ARG:HH12	1.67	0.42
5:O:223:HIS:NE2	5:O:281:GLN:HA	2.34	0.42
5:O:704:THR:C	5:O:758:ARG:HG3	2.45	0.42
5:O:808:THR:O	5:O:811:TYR:HB2	2.19	0.42
5:O:810:MET:HG2	5:O:990:TRP:CE2	2.55	0.42
3:P:77:GLN:HG3	3:P:91:PHE:CE1	2.54	0.42
6:X:4:CYS:HG	6:X:5:LEU:H	1.57	0.42
6:X:61:LEU:HD12	6:X:62:GLN:N	2.34	0.42
6:X:322:GLY:HA2	6:X:325:ASN:ND2	2.34	0.42
6:Y:20:GLU:C	6:Y:92:THR:HG21	2.45	0.42
6:Y:65:LEU:HD12	6:Y:66:LYS:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:86:GLN:HA	6:Y:89:ASP:OD2	2.20	0.42
6:Y:144:SER:HB2	6:Y:146:HIS:ND1	2.34	0.42
6:Y:169:ALA:O	6:Y:173:MET:HG3	2.20	0.42
6:Y:182:ASN:ND2	6:Y:362:MET:HG3	2.35	0.42
6:Y:185:MET:HE2	6:Y:191:ALA:HB2	2.00	0.42
6:Z:39:GLN:HE22	6:Z:79:HIS:CD2	2.32	0.42
1:B:613:TYR:CD2	1:B:615:LYS:HD3	2.54	0.42
2:C:418:LYS:NZ	2:C:1211:CYS:SG	2.67	0.42
2:C:475:ASN:OD1	2:C:477:THR:OG1	2.30	0.42
2:C:523:MET:HE2	2:C:849:VAL:HG11	2.02	0.42
2:C:536:LEU:HD11	2:C:596:ALA:HB1	2.02	0.42
2:C:713:TRP:CD1	2:C:837:ARG:NH2	2.88	0.42
2:C:807:THR:OG1	2:C:885:ALA:O	2.26	0.42
2:C:982:MET:SD	2:C:983:LEU:N	2.93	0.42
2:C:1003:GLN:CG	2:C:1007:ARG:HB3	2.49	0.42
3:D:93:ARG:O	3:D:106:VAL:HA	2.19	0.42
3:D:174:ASP:HA	3:D:177:GLN:CD	2.44	0.42
3:D:239:PHE:HA	3:D:252:ILE:O	2.19	0.42
4:K:283:SER:HA	4:K:640:LEU:HD21	2.02	0.42
4:K:337:ILE:HG13	4:K:410:PHE:CZ	2.55	0.42
4:K:620:ASP:HB3	4:K:623:ASN:ND2	2.35	0.42
4:K:639:SER:HG	4:L:31:VAL:H	1.68	0.42
4:L:334:LEU:HD22	4:L:366:ARG:NH2	2.35	0.42
4:L:381:ASP:HA	4:L:446:THR:OG1	2.19	0.42
4:L:444:ALA:C	4:M:325:THR:HG22	2.45	0.42
4:M:46:VAL:O	4:M:48:TRP:NE1	2.52	0.42
4:M:150:VAL:N	4:M:154:GLN:OE1	2.36	0.42
4:M:186:GLU:O	4:M:189:GLU:HG3	2.20	0.42
5:O:82:TRP:CH2	5:O:86:MET:HE2	2.54	0.42
5:O:200:TYR:CD2	5:O:232:HIS:HB3	2.54	0.42
5:O:298:THR:HA	5:O:301:LEU:HG	2.01	0.42
5:O:409:GLU:CD	5:O:409:GLU:H	2.18	0.42
5:O:815:VAL:C	5:O:818:ALA:H	2.27	0.42
5:O:1022:ASP:OD2	5:O:1024:HIS:HB2	2.19	0.42
5:O:1096:ALA:HB1	5:O:1119:VAL:O	2.20	0.42
5:O:1247:ILE:HD13	5:O:1247:ILE:HA	1.80	0.42
3:P:3:ARG:NH2	3:P:300:GLN:HA	2.35	0.42
3:P:304:ILE:HG23	3:P:305:ASP:O	2.20	0.42
6:X:119:ASP:O	6:X:122:ARG:HB2	2.20	0.42
6:X:187:ASP:C	6:X:189:SER:H	2.27	0.42
6:X:348:LYS:HE2	6:X:348:LYS:HB2	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Y:240:LYS:HG2	6:Y:247:ARG:HH12	1.84	0.42
1:B:441:ASN:CG	2:C:863:SER:HA	2.45	0.42
1:B:772:MET:HB2	1:B:797:LEU:HD13	2.00	0.42
2:C:628:ASP:C	2:C:632:LEU:HG	2.44	0.42
2:C:756:ASP:O	2:C:762:THR:HG21	2.19	0.42
2:C:924:THR:O	2:C:928:VAL:HG13	2.19	0.42
2:C:937:GLN:O	2:C:947:ARG:HD2	2.20	0.42
3:D:20:PRO:C	3:D:21:ILE:HD13	2.45	0.42
3:D:142:ARG:HA	3:D:145:GLN:OE1	2.19	0.42
3:D:179:LEU:HD11	3:D:212:MET:HE1	2.01	0.42
3:D:236:THR:HG22	3:D:258:ASN:O	2.20	0.42
3:D:349:MET:HG2	3:D:353:GLN:CD	2.45	0.42
3:D:375:TRP:N	3:D:375:TRP:CD1	2.86	0.42
3:D:379:ASP:OD2	3:D:383:ASN:ND2	2.51	0.42
4:K:146:CYS:HA	4:K:159:PHE:CZ	2.55	0.42
4:K:282:LYS:NZ	4:K:641:SER:O	2.45	0.42
4:L:34:LEU:HD13	4:L:110:ASN:HA	2.01	0.42
4:L:587:ASN:HA	4:L:588:PRO:HD3	1.92	0.42
4:M:297:GLU:HB2	4:M:542:ARG:HH12	1.85	0.42
4:M:413:TRP:CH2	4:M:467:TYR:HD1	2.37	0.42
4:M:428:VAL:HG12	4:M:429:GLN:O	2.19	0.42
4:M:456:GLN:O	4:M:457:LEU:HD23	2.20	0.42
5:O:133:LEU:O	5:O:136:LEU:HD23	2.20	0.42
5:O:501:THR:HG23	5:O:503:LYS:HG2	2.00	0.42
5:O:930:THR:OG1	5:O:1015:TYR:HA	2.19	0.42
5:O:1154:MET:HB2	5:O:1201:VAL:CG2	2.47	0.42
6:Y:241:GLU:O	6:Y:242:LEU:HD23	2.20	0.42
6:Z:7:ASN:HB3	6:Z:10:GLN:HE22	1.84	0.42
1:B:352:LEU:HD13	1:B:955:LEU:HD23	2.01	0.42
1:B:386:THR:OG1	1:B:388:GLY:N	2.51	0.42
1:B:589:SER:CB	1:B:592:ARG:HH22	2.33	0.42
1:B:602:GLY:HA2	1:B:833:VAL:CG1	2.42	0.42
1:B:663:PRO:HG2	1:B:693:LEU:HB3	2.00	0.42
1:B:758:THR:O	1:B:763:ASN:ND2	2.42	0.42
1:B:781:TYR:C	1:B:785:TRP:HD1	2.28	0.42
1:B:1000:GLN:OE1	1:B:1008:THR:HB	2.19	0.42
2:C:801:LYS:CG	2:C:802:LEU:HG	2.47	0.42
2:C:1116:GLN:OE1	2:C:1119:THR:OG1	2.27	0.42
4:K:333:TRP:CD2	4:K:531:LEU:HD21	2.53	0.42
4:L:21:LYS:HA	4:L:209:SER:HA	2.02	0.42
4:L:101:VAL:CG1	4:L:166:ILE:HG13	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:348:GLN:HA	4:L:357:TRP:O	2.19	0.42
4:M:101:VAL:C	4:M:165:VAL:HG13	2.44	0.42
4:M:130:VAL:HG12	4:M:131:LEU:HB2	2.01	0.42
4:M:200:PRO:C	4:M:202:ASN:H	2.27	0.42
4:M:651:LEU:O	4:M:655:GLU:HG3	2.20	0.42
4:M:662:GLN:OE1	4:M:665:LEU:HB2	2.20	0.42
5:O:134:PRO:O	5:O:137:ILE:HG12	2.19	0.42
5:O:538:ILE:HG12	5:O:541:VAL:CG2	2.50	0.42
5:O:826:LEU:HD13	5:O:828:LEU:HD21	2.02	0.42
5:O:931:ASP:OD2	5:O:932:VAL:N	2.50	0.42
5:O:1136:PHE:CG	5:O:1228:LEU:HD22	2.55	0.42
3:P:134:ALA:HA	3:P:140:LYS:HD3	2.02	0.42
6:X:82:TYR:HD2	6:X:86:GLN:NE2	2.16	0.42
6:Y:225:TYR:HB2	6:Y:362:MET:HE3	2.01	0.42
6:Z:60:SER:H	6:Z:63:ARG:HD2	1.85	0.42
1:B:268:ILE:HG13	1:B:303:ARG:O	2.20	0.42
1:B:378:PHE:CZ	1:B:433:ARG:HB2	2.54	0.42
1:B:694:ILE:O	1:B:703:ARG:NH1	2.53	0.42
1:B:793:MET:HA	1:B:796:THR:OG1	2.20	0.42
1:B:946:ASP:HB3	3:P:31:ARG:NH1	2.35	0.42
1:B:1116:GLN:HG2	1:B:1170:ILE:HG13	2.01	0.42
2:C:435:ASP:HB3	2:C:449:ASP:OD2	2.20	0.42
2:C:607:VAL:C	2:C:876:ALA:HA	2.40	0.42
2:C:722:GLY:HA2	2:C:729:SER:OG	2.19	0.42
3:D:393:ARG:O	3:D:394:THR:OG1	2.29	0.42
4:K:64:ARG:HH22	4:K:67:THR:H	1.68	0.42
4:K:232:TYR:HB3	4:K:234:LYS:HE2	2.02	0.42
4:K:264:ALA:HA	4:K:267:ALA:HB3	2.00	0.42
4:K:660:TRP:CZ2	4:M:622:ASN:HB3	2.55	0.42
4:K:661:THR:O	4:K:664:PHE:HB3	2.20	0.42
4:L:193:ARG:HH21	4:L:197:THR:N	2.17	0.42
4:L:302:ALA:HA	4:L:624:TRP:HE1	1.85	0.42
4:L:380:LEU:HD22	4:L:401:PHE:CE1	2.55	0.42
4:M:145:ASP:CG	4:M:161:LYS:HA	2.45	0.42
4:M:290:MET:CE	4:M:636:ARG:HG2	2.50	0.42
5:O:396:TRP:CZ3	5:O:398:PRO:HA	2.54	0.42
5:O:940:LEU:HD13	5:O:951:PHE:CE2	2.54	0.42
5:O:1023:ILE:H	5:O:1023:ILE:HD12	1.84	0.42
3:P:90:ARG:HE	3:P:116:ALA:N	2.18	0.42
3:P:96:TRP:CE3	3:P:104:LEU:HD21	2.55	0.42
3:P:100:THR:OG1	3:P:133:LEU:HD11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:161:ILE:HG21	3:P:271:PHE:HB3	2.02	0.42
3:P:171:TRP:HA	3:P:171:TRP:CE3	2.55	0.42
3:P:241:CYS:HB3	3:P:251:TRP:NE1	2.35	0.42
3:P:249:GLU:HB3	3:P:251:TRP:CD1	2.55	0.42
6:X:5:LEU:HD13	6:X:310:LYS:NZ	2.34	0.42
6:X:221:MET:CB	6:X:356:VAL:HG12	2.44	0.42
6:X:227:GLU:HA	6:X:230:HIS:CD2	2.55	0.42
6:Y:105:GLN:NE2	6:Y:136:VAL:HG13	2.34	0.42
6:Y:163:LEU:HD21	6:Y:272:PHE:CE2	2.55	0.42
6:Z:24:SER:HB3	6:Z:44:VAL:HB	2.01	0.42
6:Z:252:PHE:CE2	6:Z:275:MET:HE2	2.55	0.42
1:B:436:ARG:HB3	1:B:448:VAL:HG13	2.01	0.41
1:B:439:MET:HG2	1:B:440:MET:H	1.84	0.41
1:B:716:PRO:HB3	1:B:742:PRO:HA	2.02	0.41
1:B:1144:TYR:CE2	1:B:1146:TYR:HD1	2.37	0.41
2:C:606:THR:HG1	2:C:640:THR:H	1.57	0.41
2:C:664:MET:HE3	2:C:670:THR:HA	2.01	0.41
2:C:931:LEU:O	2:C:932:VAL:C	2.63	0.41
2:C:936:ALA:HB2	2:C:941:THR:HB	2.02	0.41
2:C:1044:ASP:CG	2:C:1141:MET:H	2.28	0.41
3:D:96:TRP:CE3	3:D:104:LEU:HD11	2.55	0.41
4:K:48:TRP:CA	4:K:66:MET:H	2.20	0.41
4:K:118:LEU:HA	4:K:121:ASN:ND2	2.35	0.41
4:K:503:VAL:HG11	4:K:535:ALA:HB2	2.02	0.41
4:K:547:ALA:O	4:K:551:LYS:HG3	2.20	0.41
4:L:193:ARG:HH21	4:L:196:GLN:C	2.28	0.41
4:M:322:ASN:OD1	4:M:324:ARG:HG2	2.20	0.41
4:M:327:LYS:NZ	4:M:329:ASP:H	2.15	0.41
5:O:392:SER:O	5:O:394:VAL:HG23	2.20	0.41
5:O:570:ASP:HA	5:O:605:ALA:O	2.20	0.41
5:O:593:GLY:HA2	5:O:596:GLU:CD	2.46	0.41
5:O:616:ILE:HD12	5:O:652:PHE:HA	2.01	0.41
5:O:621:ARG:HD2	5:O:621:ARG:C	2.45	0.41
5:O:679:TYR:O	5:O:683:THR:HG23	2.20	0.41
5:O:779:SER:OG	5:O:780:LEU:HD22	2.20	0.41
3:P:172:SER:O	3:P:175:VAL:HB	2.20	0.41
3:P:183:PHE:O	3:P:185:HIS:CE1	2.73	0.41
3:P:351:GLN:HG3	3:P:355:ASN:HD21	1.85	0.41
6:X:79:HIS:CD2	6:X:82:TYR:CZ	3.08	0.41
6:Y:107:HIS:ND1	6:Y:166:TYR:HB3	2.35	0.41
6:Y:158:ASP:CG	6:Y:161:THR:HB	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:312:ARG:HA	6:Z:316:GLY:O	2.20	0.41
1:B:527:ASN:H	1:B:871:VAL:HG11	1.84	0.41
1:B:691:ILE:HB	1:B:703:ARG:HD2	2.00	0.41
1:B:746:GLN:NE2	5:O:154:SER:O	2.28	0.41
1:B:1046:ILE:C	1:B:1199:ILE:HG23	2.45	0.41
1:B:1153:PRO:HG3	1:B:1184:ILE:O	2.20	0.41
1:B:1161:ASN:CG	1:B:1162:LEU:N	2.76	0.41
1:B:1161:ASN:OD1	1:B:1162:LEU:N	2.45	0.41
2:C:338:LEU:CD2	2:C:339:LEU:HB2	2.50	0.41
2:C:371:TYR:HB3	2:C:372:LEU:H	1.69	0.41
2:C:453:THR:HG23	2:C:1253:LEU:O	2.20	0.41
2:C:518:GLN:HA	2:C:521:ARG:NE	2.36	0.41
2:C:549:LEU:HD13	2:C:891:TYR:CE2	2.55	0.41
2:C:581:LEU:O	2:C:582:ARG:HG2	2.19	0.41
2:C:702:LEU:O	2:C:705:TRP:HB3	2.20	0.41
2:C:815:ALA:N	2:C:816:PRO:HD2	2.35	0.41
3:D:43:LEU:HA	3:D:46:ILE:HG13	2.02	0.41
3:D:130:TYR:HA	3:D:131:PRO:HD3	1.94	0.41
3:D:163:TYR:HE1	3:D:269:SER:HB3	1.85	0.41
3:D:270:LEU:HD22	3:D:417:LEU:CD2	2.50	0.41
3:D:413:ALA:O	3:D:416:ALA:HB3	2.20	0.41
4:K:45:GLY:O	4:K:102:VAL:N	2.36	0.41
4:K:113:LYS:HA	4:K:116:MET:HG2	2.01	0.41
4:K:329:ASP:OD1	4:K:329:ASP:N	2.50	0.41
4:K:398:LYS:HE2	4:K:427:TYR:OH	2.20	0.41
4:K:469:LEU:HD12	4:K:470:ALA:H	1.85	0.41
4:K:522:TYR:O	4:K:612:THR:HA	2.20	0.41
4:L:13:VAL:HG13	4:L:14:THR:HG23	2.01	0.41
4:L:20:PHE:CD2	4:L:22:PRO:HD3	2.55	0.41
4:L:67:THR:HB	4:L:70:ASP:OD1	2.19	0.41
4:L:229:ILE:HG13	4:L:233:PRO:CA	2.50	0.41
4:L:280:GLU:CG	4:L:284:LYS:HE2	2.46	0.41
4:L:384:GLY:C	4:L:385:LYS:HD3	2.45	0.41
4:L:392:TRP:HD1	4:L:394:PRO:HD3	1.84	0.41
4:L:537:ARG:NH2	4:L:608:SER:OG	2.53	0.41
5:O:164:LEU:HD12	5:O:164:LEU:HA	1.75	0.41
5:O:417:LEU:O	5:O:709:ILE:HB	2.19	0.41
3:P:3:ARG:NH2	3:P:296:CYS:HA	2.36	0.41
3:P:34:ASN:ND2	3:P:103:GLY:HA2	2.35	0.41
3:P:42:PHE:HD1	3:P:64:ARG:HE	1.66	0.41
6:X:22:ARG:HH12	6:X:96:LYS:HZ2	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:X:118:LEU:HD12	6:X:118:LEU:HA	1.90	0.41
6:X:204:THR:HA	6:X:267:LYS:NZ	2.34	0.41
6:Z:26:TYR:CG	6:Z:27:SER:N	2.88	0.41
6:Z:34:LYS:H	6:Z:34:LYS:HG2	1.54	0.41
1:B:351:PRO:HA	1:B:354:PHE:CE2	2.56	0.41
1:B:370:LEU:HD21	1:B:465:TRP:CZ3	2.56	0.41
1:B:590:SER:H	1:B:592:ARG:NH2	2.19	0.41
1:B:610:ASP:HA	1:B:613:TYR:CZ	2.54	0.41
1:B:652:LEU:H	1:B:652:LEU:HG	1.41	0.41
1:B:685:PRO:HB2	1:B:687:CYS:SG	2.60	0.41
2:C:329:GLU:O	2:C:331:ASN:ND2	2.50	0.41
2:C:355:ARG:NH1	2:C:950:ASP:OD1	2.53	0.41
2:C:417:SER:O	2:C:420:CYS:N	2.53	0.41
2:C:551:ILE:HA	2:C:889:GLY:HA2	2.03	0.41
2:C:731:ASN:N	2:C:736:PRO:HB3	2.35	0.41
2:C:740:LEU:HD23	2:C:740:LEU:HA	1.89	0.41
2:C:1039:GLY:O	2:C:1145:PRO:HA	2.19	0.41
4:K:171:GLN:HG2	4:K:174:TYR:CD2	2.55	0.41
4:K:303:SER:HB2	4:K:307:VAL:HG11	2.03	0.41
4:K:331:ALA:HA	4:K:333:TRP:NE1	2.35	0.41
4:K:376:MET:HE2	4:K:376:MET:HB2	1.76	0.41
4:K:493:LEU:O	4:K:493:LEU:HD12	2.19	0.41
4:K:566:VAL:N	4:K:567:PRO:HD2	2.35	0.41
4:K:651:LEU:O	4:K:655:GLU:HG2	2.20	0.41
4:K:656:SER:HA	4:K:659:ASN:HD22	1.84	0.41
4:L:188:TRP:CZ3	4:L:228:LEU:HD13	2.56	0.41
4:L:228:LEU:O	4:L:231:ARG:N	2.42	0.41
4:M:136:LYS:HD3	4:M:136:LYS:HA	1.80	0.41
4:M:371:ASP:CG	4:M:466:TYR:H	2.23	0.41
4:M:397:LYS:N	4:M:430:LEU:HB2	2.35	0.41
5:O:61:ARG:HB2	5:O:64:GLN:NE2	2.35	0.41
5:O:96:GLU:O	5:O:99:ARG:HB3	2.20	0.41
5:O:200:TYR:HE1	5:O:229:ASN:C	2.28	0.41
5:O:480:ASP:OD1	5:O:481:ARG:HD3	2.21	0.41
5:O:504:GLU:HG3	5:O:507:ARG:NH1	2.25	0.41
5:O:537:LYS:HA	5:O:537:LYS:HD3	1.78	0.41
5:O:647:ASN:HB3	5:O:681:TYR:HE1	1.85	0.41
5:O:778:ARG:HD2	5:O:781:GLU:OE1	2.21	0.41
5:O:1004:ALA:HA	5:O:1007:ARG:CZ	2.50	0.41
5:O:1044:ILE:HD11	5:O:1089:LEU:HG	2.01	0.41
5:O:1170:LYS:C	5:O:1186:LYS:HE2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:47:SER:C	3:P:49:GLY:N	2.78	0.41
3:P:130:TYR:HE2	3:P:132:PHE:HD1	1.68	0.41
3:P:145:GLN:HG3	3:P:297:SER:HB3	2.02	0.41
3:P:167:ASP:CB	3:P:170:MET:HE3	2.50	0.41
6:Z:17:ASN:HA	6:Z:20:GLU:CG	2.50	0.41
6:Z:140:SER:C	6:Z:142:PHE:H	2.27	0.41
6:Z:196:ARG:HE	6:Z:352:LEU:CB	2.29	0.41
1:B:285:PHE:HB3	1:B:286:PHE:CE2	2.56	0.41
1:B:338:LEU:HG	1:B:968:TRP:CE2	2.55	0.41
1:B:483:LEU:HD13	1:B:493:VAL:HG13	2.02	0.41
1:B:530:THR:HA	1:B:533:GLN:NE2	2.34	0.41
1:B:584:SER:O	1:B:586:SER:HA	2.21	0.41
1:B:623:LEU:HG	1:B:627:TRP:CE2	2.55	0.41
1:B:623:LEU:HD21	1:B:627:TRP:CZ2	2.56	0.41
1:B:904:ALA:O	1:B:907:PRO:HD2	2.21	0.41
1:B:1232:TYR:O	1:B:1236:THR:HG23	2.20	0.41
2:C:337:GLN:NE2	2:C:357:ASN:HB3	2.36	0.41
2:C:857:ILE:HG12	3:P:348:VAL:O	2.20	0.41
2:C:1165:ALA:HA	2:C:1168:GLU:OE1	2.20	0.41
2:C:1187:ASP:CG	2:C:1188:HIS:HD1	2.29	0.41
3:D:10:THR:HA	3:D:154:ASN:ND2	2.36	0.41
3:D:251:TRP:N	3:D:251:TRP:CD1	2.87	0.41
3:D:283:VAL:HG22	3:D:287:LEU:CG	2.50	0.41
4:K:101:VAL:O	4:K:165:VAL:HG13	2.21	0.41
4:K:228:LEU:HD23	4:K:231:ARG:CZ	2.50	0.41
4:K:337:ILE:HG22	4:K:364:GLY:N	2.35	0.41
4:K:401:PHE:HE1	4:K:448:LEU:HG	1.85	0.41
4:K:455:GLU:C	4:K:458:ASN:H	2.28	0.41
4:K:667:LYS:HE3	4:K:667:LYS:HB2	1.82	0.41
4:L:332:THR:HB	4:L:507:GLY:HA3	2.02	0.41
4:M:189:GLU:CD	4:M:190:ILE:N	2.79	0.41
4:M:584:ARG:HG3	4:M:584:ARG:HH11	1.84	0.41
5:O:806:CYS:O	5:O:810:MET:HG3	2.20	0.41
5:O:888:CYS:HB3	5:O:924:VAL:HG23	2.03	0.41
5:O:1172:GLN:HG2	5:O:1174:PHE:HD2	1.85	0.41
5:O:1269:SER:HB2	5:O:1274:ILE:HB	2.02	0.41
3:P:41:GLN:HG3	3:P:64:ARG:NH2	2.34	0.41
3:P:174:ASP:HA	3:P:177:GLN:OE1	2.19	0.41
3:P:266:GLY:O	3:P:268:ARG:NH2	2.53	0.41
6:X:19:PHE:CE2	6:X:291:LYS:HB3	2.56	0.41
6:X:227:GLU:CD	6:X:354:TYR:HE1	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:8:GLY:N	6:Z:315:LEU:HD13	2.35	0.41
6:Z:252:PHE:HZ	6:Z:272:PHE:C	2.28	0.41
6:Z:257:TYR:HB3	6:Z:343:PHE:HA	2.00	0.41
1:B:303:ARG:HH11	1:B:1208:SER:HB2	1.85	0.41
1:B:441:ASN:N	2:C:862:LEU:O	2.31	0.41
1:B:514:ARG:NH1	1:B:727:PHE:O	2.53	0.41
1:B:601:ASN:O	1:B:603:VAL:N	2.54	0.41
1:B:707:GLU:HG2	1:B:711:ARG:NE	2.35	0.41
1:B:708:ILE:HG13	1:B:771:LEU:HD21	2.02	0.41
1:B:951:TRP:CD1	1:B:951:TRP:H	2.38	0.41
1:B:1112:LEU:O	1:B:1115:TRP:HB3	2.21	0.41
1:B:1231:ARG:HD3	1:B:1252:ASP:HA	2.02	0.41
2:C:355:ARG:HE	2:C:952:ILE:HB	1.85	0.41
2:C:360:HIS:CD2	2:C:969:VAL:HG22	2.55	0.41
3:D:22:ASN:OD1	3:D:23:ASP:N	2.53	0.41
3:D:306:ASN:O	3:D:314:ARG:NH1	2.54	0.41
4:K:23:SER:OG	4:K:24:ALA:N	2.54	0.41
4:K:51:ILE:HG12	4:K:62:ALA:O	2.21	0.41
4:K:240:LEU:HB3	4:K:244:ASN:ND2	2.36	0.41
4:K:574:ILE:HA	4:K:577:LEU:HD12	2.01	0.41
4:K:671:HIS:CE1	4:M:578:GLU:HB2	2.51	0.41
4:L:12:ASN:CG	4:L:14:THR:H	2.26	0.41
4:L:47:PRO:CG	4:L:100:LEU:HB2	2.51	0.41
4:L:471:THR:HG23	4:L:472:PHE:O	2.20	0.41
4:L:506:LYS:HZ3	6:Z:316:GLY:N	2.18	0.41
4:L:603:PHE:CE1	4:L:607:PRO:HB3	2.54	0.41
4:L:628:ALA:C	4:L:632:LYS:HZ3	2.27	0.41
4:M:25:GLU:OE2	4:M:26:THR:HG23	2.20	0.41
4:M:176:ASP:HA	4:M:179:GLN:HG3	2.02	0.41
4:M:284:LYS:HD2	4:M:287:GLU:OE1	2.20	0.41
4:M:403:VAL:HG22	4:M:404:PHE:N	2.35	0.41
4:M:506:LYS:HG2	4:M:522:TYR:CE2	2.56	0.41
4:M:536:ALA:O	4:M:540:ILE:HG12	2.20	0.41
5:O:405:ALA:O	5:O:772:LEU:HD13	2.20	0.41
5:O:469:ARG:HD2	5:O:647:ASN:O	2.21	0.41
5:O:809:MET:SD	5:O:812:ASN:HB2	2.61	0.41
3:P:3:ARG:HH22	3:P:301:LEU:HG	1.84	0.41
6:X:272:PHE:HA	6:X:281:LYS:O	2.20	0.41
6:Z:14:LEU:HD13	6:Z:45:CYS:SG	2.60	0.41
1:B:268:ILE:HA	1:B:304:ILE:HA	2.02	0.41
1:B:623:LEU:HD13	1:B:626:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:637:PRO:HB3	1:B:714:PRO:HG2	2.02	0.41
1:B:1083:ILE:HG22	1:B:1084:SER:O	2.20	0.41
2:C:524:ASN:HD22	2:C:982:MET:HE2	1.84	0.41
2:C:528:ASN:HB3	2:C:530:THR:HG22	2.02	0.41
2:C:854:ARG:NH2	3:P:258:ASN:HA	2.36	0.41
2:C:928:VAL:HG12	2:C:984:LEU:CD2	2.50	0.41
2:C:1116:GLN:O	2:C:1172:PRO:HG3	2.21	0.41
4:K:49:ILE:HD12	4:K:49:ILE:HA	1.87	0.41
4:K:375:PRO:CG	4:K:454:PRO:HD3	2.49	0.41
4:L:24:ALA:N	4:L:203:VAL:HB	2.35	0.41
4:L:328:ILE:HD11	4:L:366:ARG:NH2	2.35	0.41
4:L:380:LEU:HB2	4:L:401:PHE:CZ	2.55	0.41
4:L:401:PHE:CE1	4:L:448:LEU:HD23	2.55	0.41
4:L:409:PRO:O	4:L:413:TRP:CD1	2.73	0.41
4:L:437:PHE:HB3	4:L:440:GLN:HG2	2.02	0.41
4:L:506:LYS:HD3	6:Z:316:GLY:HA2	2.03	0.41
4:M:201:THR:O	4:M:202:ASN:ND2	2.53	0.41
4:M:591:ILE:HA	4:M:594:LYS:HZ1	1.85	0.41
4:M:645:LYS:NZ	4:M:649:SER:HB3	2.35	0.41
5:O:44:LYS:HB2	5:O:60:PHE:CZ	2.55	0.41
5:O:61:ARG:NH2	5:O:169:GLY:O	2.54	0.41
5:O:215:ASP:OD2	5:O:235:LEU:HD21	2.20	0.41
5:O:347:GLN:OE1	5:O:349:ARG:HB3	2.20	0.41
5:O:449:LEU:HD12	5:O:450:SER:H	1.84	0.41
5:O:530:ILE:HG23	5:O:533:TRP:HE3	1.85	0.41
5:O:1234:ASP:OD1	5:O:1236:ARG:HB2	2.21	0.41
3:P:7:LEU:HA	3:P:127:CYS:H	1.85	0.41
3:P:43:LEU:O	3:P:46:ILE:HG23	2.20	0.41
3:P:132:PHE:HA	3:P:135:ARG:HD2	2.03	0.41
3:P:208:THR:O	3:P:212:MET:HG3	2.21	0.41
3:P:379:ASP:O	3:P:382:TYR:HB3	2.21	0.41
6:Y:49:VAL:O	6:Y:57:VAL:HA	2.20	0.41
6:Y:163:LEU:HD21	6:Y:272:PHE:HE2	1.84	0.41
6:Z:25:ILE:HD13	6:Z:34:LYS:HE2	2.03	0.41
1:B:377:GLY:CA	1:B:393:SER:O	2.69	0.41
1:B:471:ARG:HE	1:B:471:ARG:HA	1.85	0.41
1:B:1058:PRO:O	1:B:1200:ILE:HG13	2.20	0.41
2:C:549:LEU:HD13	2:C:891:TYR:CE1	2.56	0.41
2:C:600:TYR:CZ	2:C:830:PRO:HA	2.55	0.41
2:C:610:ASP:HA	2:C:613:TYR:CD2	2.56	0.41
2:C:689:MET:HG3	2:C:840:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:791:SER:O	2:C:794:ARG:HB3	2.20	0.41
2:C:1154:ARG:HB3	2:C:1190:ILE:HD12	2.01	0.41
3:D:186:THR:C	3:D:239:PHE:HE1	2.28	0.41
3:D:220:PHE:HE1	3:D:251:TRP:CD1	2.38	0.41
3:D:279:TRP:HB3	3:D:285:LEU:HD22	2.02	0.41
4:K:337:ILE:HG22	4:K:364:GLY:H	1.85	0.41
4:L:113:LYS:HE2	4:M:40:MET:C	2.45	0.41
4:L:218:LEU:HD12	4:L:218:LEU:HA	1.81	0.41
4:L:525:GLU:O	4:L:528:ASN:HB3	2.20	0.41
4:L:621:LYS:HZ2	4:L:622:ASN:HD21	1.69	0.41
4:M:137:TYR:CD1	4:M:140:LEU:HD22	2.55	0.41
4:M:405:GLN:O	4:M:421:GLN:N	2.49	0.41
4:M:488:VAL:O	4:M:489:TRP:CD1	2.73	0.41
5:O:72:LEU:HD21	5:O:127:GLN:NE2	2.35	0.41
5:O:237:THR:OG1	5:O:238:LEU:N	2.53	0.41
5:O:624:TRP:HA	5:O:627:ILE:HB	2.02	0.41
5:O:804:HIS:CD2	5:O:804:HIS:N	2.87	0.41
3:P:123:ARG:HB3	3:P:125:TYR:OH	2.20	0.41
3:P:139:PHE:O	3:P:143:VAL:HG23	2.20	0.41
6:X:17:ASN:HA	6:X:20:GLU:CD	2.45	0.41
6:X:94:HIS:CD2	6:X:141:MET:HE1	2.56	0.41
6:Y:259:ARG:C	6:Y:272:PHE:H	2.27	0.41
1:B:308:THR:HG23	1:B:323:ILE:HG12	2.02	0.41
1:B:793:MET:O	1:B:796:THR:HB	2.20	0.41
1:B:1000:GLN:HB3	1:B:1010:ASN:HB2	2.03	0.41
1:B:1096:ASP:CG	1:B:1098:THR:H	2.28	0.41
1:B:1135:LEU:HD21	1:B:1137:ILE:HD11	2.02	0.41
2:C:352:LEU:HB3	2:C:955:LEU:HB2	2.02	0.41
2:C:355:ARG:NE	2:C:952:ILE:HB	2.36	0.41
2:C:371:TYR:N	2:C:462:ARG:CZ	2.84	0.41
2:C:650:MET:O	2:C:654:ASN:ND2	2.54	0.41
2:C:713:TRP:CD1	2:C:838:LEU:HD21	2.56	0.41
2:C:805:SER:O	2:C:808:PRO:HD2	2.21	0.41
2:C:876:ALA:C	2:C:877:LEU:HD22	2.45	0.41
3:D:130:TYR:CD1	3:D:131:PRO:HD2	2.55	0.41
3:D:300:GLN:NE2	3:D:301:LEU:O	2.54	0.41
3:D:316:ILE:O	3:D:319:TRP:N	2.53	0.41
4:K:409:PRO:HD2	4:K:412:LEU:HD12	2.03	0.41
4:K:471:THR:HG22	4:K:488:VAL:H	1.86	0.41
4:K:503:VAL:O	4:K:510:VAL:N	2.48	0.41
4:K:657:ILE:HD11	4:M:625:ILE:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:33:SER:O	4:M:39:GLY:HA3	2.20	0.41
4:L:47:PRO:HA	4:L:148:VAL:HA	2.03	0.41
4:L:47:PRO:HG2	4:L:66:MET:HB3	2.02	0.41
4:L:51:ILE:HG23	4:L:52:GLY:N	2.35	0.41
4:L:143:TYR:HE1	4:L:164:PRO:HB3	1.83	0.41
4:L:503:VAL:HG13	4:L:510:VAL:HB	2.02	0.41
4:L:566:VAL:HB	4:L:567:PRO:HD3	2.03	0.41
4:L:607:PRO:O	4:L:610:ILE:HG23	2.20	0.41
4:L:613:GLN:HG2	6:Z:4:CYS:SG	2.60	0.41
4:M:230:ARG:C	4:M:231:ARG:HD3	2.45	0.41
4:M:368:VAL:HG23	4:M:370:LEU:HD21	2.03	0.41
4:M:576:GLN:O	4:M:584:ARG:NH1	2.53	0.41
5:O:6:GLY:O	5:O:333:GLN:HB3	2.20	0.41
5:O:342:THR:HA	5:O:343:PRO:HD3	1.89	0.41
5:O:459:THR:O	5:O:461:PHE:N	2.54	0.41
5:O:616:ILE:HB	5:O:651:LEU:HB2	2.02	0.41
5:O:807:LEU:HB2	5:O:1009:ALA:HB1	2.03	0.41
3:P:352:ALA:HA	3:P:355:ASN:ND2	2.35	0.41
3:P:414:ILE:H	3:P:414:ILE:HG13	1.61	0.41
6:X:35:THR:HG21	6:X:155:VAL:HG22	2.03	0.41
6:X:99:MET:N	6:X:99:MET:SD	2.93	0.41
6:X:120:ARG:O	6:X:123:THR:N	2.54	0.41
6:Y:220:VAL:O	6:Y:358:ILE:HG23	2.20	0.41
6:Y:254:LEU:HA	6:Y:276:LEU:HD11	2.03	0.41
6:Y:339:ALA:C	6:Y:341:THR:H	2.29	0.41
1:B:381:ASP:OD2	1:B:389:ALA:N	2.54	0.41
1:B:399:ALA:HA	1:B:402:TRP:CD1	2.56	0.41
1:B:422:PHE:CE1	1:B:1227:ILE:HB	2.56	0.41
1:B:434:PHE:HB2	1:B:451:PHE:CE1	2.55	0.41
1:B:847:VAL:HA	1:B:1001:TYR:HA	2.02	0.41
1:B:1000:GLN:HA	1:B:1009:PHE:O	2.20	0.41
1:B:1045:ILE:HA	1:B:1200:ILE:O	2.20	0.41
1:B:1156:TYR:CG	1:B:1194:PRO:HB2	2.56	0.41
2:C:347:ARG:NH2	2:C:1176:PRO:HB3	2.36	0.41
2:C:367:LEU:C	2:C:369:ASN:H	2.28	0.41
2:C:477:THR:HA	2:C:480:GLU:OE2	2.21	0.41
2:C:548:PRO:HD3	2:C:900:TRP:CD1	2.56	0.41
2:C:682:HIS:CE1	2:C:683:THR:HG23	2.56	0.41
2:C:701:ILE:HA	2:C:704:GLN:OE1	2.20	0.41
2:C:716:PRO:HD2	2:C:837:ARG:HD3	2.03	0.41
2:C:749:ASN:N	2:C:813:GLN:OE1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:789:LEU:O	2:C:793:MET:HG2	2.20	0.41
2:C:818:GLU:N	2:C:818:GLU:CD	2.79	0.41
2:C:1037:LEU:HB2	2:C:1038:PHE:CD1	2.56	0.41
2:C:1170:ILE:HG12	2:C:1176:PRO:HD2	2.03	0.41
3:D:42:PHE:HA	3:D:64:ARG:NH1	2.35	0.41
3:D:95:VAL:HA	3:D:104:LEU:HD23	2.02	0.41
3:D:98:ALA:C	3:D:101:LEU:H	2.29	0.41
3:D:223:SER:HA	3:D:228:ILE:HB	2.03	0.41
3:D:229:HIS:HB2	3:D:232:ASN:H	1.86	0.41
3:D:381:GLN:HG3	3:D:381:GLN:H	1.67	0.41
3:D:395:LYS:HD2	3:D:395:LYS:HA	1.78	0.41
4:K:65:ARG:HH22	4:M:258:MET:HG3	1.85	0.41
4:K:122:ARG:HA	4:K:125:LEU:HD12	2.02	0.41
4:K:171:GLN:O	4:K:174:TYR:HB3	2.20	0.41
4:K:305:VAL:HG21	4:L:652:SER:OG	2.21	0.41
4:K:356:ASN:C	4:K:357:TRP:CG	2.98	0.41
4:K:377:ARG:CZ	4:K:379:VAL:HG22	2.51	0.41
4:K:538:CYS:O	4:K:542:ARG:NE	2.54	0.41
4:L:145:ASP:HA	4:L:162:GLN:H	1.85	0.41
4:L:213:GLN:CB	4:L:675:PRO:HD2	2.51	0.41
4:L:327:LYS:HE2	4:L:327:LYS:HB2	1.93	0.41
4:L:435:SER:OG	4:L:440:GLN:HB2	2.21	0.41
4:L:470:ALA:N	4:L:489:TRP:CZ2	2.89	0.41
4:L:471:THR:OG1	4:L:472:PHE:N	2.54	0.41
4:L:537:ARG:HA	4:L:540:ILE:HG22	2.03	0.41
4:L:639:SER:HA	4:M:31:VAL:O	2.19	0.41
4:M:234:LYS:O	4:M:238:VAL:HG22	2.20	0.41
4:M:413:TRP:HA	4:M:418:GLN:OE1	2.21	0.41
4:M:433:GLU:O	4:M:441:SER:OG	2.25	0.41
4:M:607:PRO:O	4:M:610:ILE:HG12	2.21	0.41
5:O:81:ASP:N	5:O:81:ASP:OD2	2.53	0.41
5:O:323:THR:OG1	5:O:326:TRP:N	2.35	0.41
5:O:371:ARG:HH12	5:O:375:LEU:CB	2.30	0.41
5:O:393:PRO:HA	5:O:741:ILE:O	2.21	0.41
5:O:408:ASP:O	5:O:411:ASP:HB3	2.20	0.41
5:O:410:GLY:O	5:O:414:VAL:HG13	2.21	0.41
5:O:426:TYR:CD1	5:O:694:PHE:HA	2.55	0.41
5:O:430:TRP:CZ3	5:O:1000:THR:HA	2.55	0.41
5:O:431:VAL:HA	5:O:477:LYS:H	1.86	0.41
5:O:476:ARG:NH1	5:O:646:THR:HA	2.35	0.41
5:O:580:GLN:HB3	5:O:583:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:735:GLY:HA3	5:O:765:ARG:CZ	2.51	0.41
5:O:778:ARG:CZ	5:O:782:VAL:HG22	2.50	0.41
5:O:938:GLY:O	5:O:953:LYS:HE2	2.21	0.41
3:P:81:ARG:HB2	3:P:83:ASN:O	2.21	0.41
3:P:85:ARG:HG3	3:P:86:TRP:N	2.36	0.41
3:P:169:ASP:C	3:P:171:TRP:N	2.78	0.41
3:P:362:ASP:HA	3:P:365:GLN:CG	2.51	0.41
6:X:282:MET:HG2	6:X:283:TYR:N	2.35	0.41
6:Y:79:HIS:O	6:Y:81:ASP:N	2.54	0.41
6:Y:115:PRO:O	6:Y:118:LEU:HB3	2.21	0.41
6:Y:297:LYS:HB2	6:Y:297:LYS:HE2	1.92	0.41
6:Y:309:GLU:HB2	6:Y:313:TYR:OH	2.21	0.41
6:Z:95:TRP:HE1	6:Z:268:MET:HB3	1.86	0.41
6:Z:121:VAL:HG21	6:Z:128:LEU:HD13	2.03	0.41
6:Z:130:GLU:HB3	6:Z:362:MET:HB3	2.03	0.41
6:Z:136:VAL:H	6:Z:143:ARG:HH12	1.69	0.41
6:Z:310:LYS:HE2	6:Z:310:LYS:HB2	1.88	0.41
1:B:437:ALA:HB2	1:B:447:TRP:CD1	2.56	0.41
1:B:585:ASN:N	1:B:585:ASN:OD1	2.44	0.41
1:B:601:ASN:C	1:B:603:VAL:H	2.29	0.41
1:B:702:LEU:HD12	1:B:703:ARG:N	2.36	0.41
1:B:1116:GLN:HG2	1:B:1170:ILE:CG1	2.51	0.41
2:C:394:LEU:HD23	2:C:399:ALA:HA	2.03	0.41
2:C:534:PRO:HA	2:C:537:GLN:CG	2.51	0.41
2:C:1000:GLN:HG2	3:P:257:LEU:HB3	2.03	0.41
3:D:95:VAL:H	3:D:105:VAL:N	2.15	0.41
3:D:213:THR:HA	3:D:216:ILE:HG12	2.03	0.41
3:D:221:TRP:O	3:D:224:TYR:HB3	2.21	0.41
3:D:233:THR:OG1	3:D:258:ASN:O	2.33	0.41
4:K:335:ARG:HB3	4:K:411:GLU:OE2	2.21	0.41
4:K:503:VAL:O	4:K:510:VAL:HG12	2.21	0.41
4:K:631:VAL:HG13	4:K:632:LYS:H	1.86	0.41
4:L:20:PHE:HD1	4:L:247:ILE:N	2.19	0.41
4:L:188:TRP:NE1	4:L:192:LEU:HD11	2.35	0.41
4:L:336:MET:HG2	4:L:365:THR:O	2.21	0.41
4:L:385:LYS:HE2	4:L:385:LYS:HB2	1.95	0.41
4:L:407:LYS:HD3	4:L:463:GLU:OE1	2.21	0.41
4:L:586:PHE:O	4:L:587:ASN:ND2	2.54	0.41
5:O:10:ALA:HB2	5:O:313:GLN:HG2	2.03	0.41
5:O:131:ASP:OD1	5:O:132:LEU:HG	2.21	0.41
5:O:649:VAL:HG23	5:O:681:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:922:VAL:C	5:O:923:LEU:HD12	2.46	0.41
5:O:1108:ASN:HD21	5:O:1110:ASN:ND2	2.19	0.41
5:O:1136:PHE:CD2	5:O:1228:LEU:HD22	2.56	0.41
5:O:1237:GLU:CB	5:O:1289:LEU:HB2	2.51	0.41
3:P:11:VAL:HG22	3:P:12:GLY:O	2.21	0.41
3:P:171:TRP:CZ3	3:P:235:ARG:HD2	2.56	0.41
3:P:221:TRP:HA	3:P:224:TYR:HB3	2.03	0.41
3:P:243:ARG:CZ	3:P:250:VAL:HG23	2.51	0.41
3:P:273:MET:HG3	3:P:274:PRO:O	2.21	0.41
3:P:288:SER:O	3:P:291:LEU:HG	2.21	0.41
6:X:186:ARG:HG2	6:X:347:THR:HG23	2.03	0.41
6:X:235:GLY:O	6:X:239:ARG:HG3	2.21	0.41
6:X:263:PRO:HA	6:X:269:PRO:N	2.36	0.41
6:X:306:TRP:CE3	6:X:310:LYS:HD2	2.56	0.41
6:Y:51:CYS:SG	6:Y:52:MET:N	2.94	0.41
6:Y:54:CYS:HB3	6:Y:73:CYS:CB	2.51	0.41
6:Y:79:HIS:O	6:Y:83:VAL:HG13	2.21	0.41
6:Z:4:CYS:C	6:Z:5:LEU:HD12	2.45	0.41
6:Z:227:GLU:HA	6:Z:230:HIS:ND1	2.36	0.41
6:Z:238:TYR:CZ	6:Z:242:LEU:HD13	2.56	0.41
6:Z:258:SER:CB	6:Z:273:SER:HA	2.51	0.41
1:B:281:LEU:HD21	1:B:286:PHE:HE2	1.86	0.40
1:B:350:ASN:HA	1:B:1173:THR:HG22	2.02	0.40
1:B:466:MET:HA	1:B:469:LEU:HD12	2.03	0.40
1:B:685:PRO:O	1:B:688:PHE:HB3	2.21	0.40
2:C:300:ALA:O	2:C:1213:ASN:ND2	2.53	0.40
2:C:528:ASN:HB2	2:C:531:VAL:CG2	2.50	0.40
2:C:854:ARG:CZ	3:P:258:ASN:HA	2.51	0.40
2:C:1037:LEU:H	2:C:1037:LEU:HG	1.45	0.40
2:C:1053:THR:C	2:C:1054:HIS:CG	2.99	0.40
2:C:1056:TRP:HE3	2:C:1057:SER:O	2.03	0.40
2:C:1107:ASN:C	2:C:1108:TRP:CD1	2.99	0.40
3:D:230:GLN:NE2	3:D:240:GLN:NE2	2.69	0.40
3:D:236:THR:O	3:D:256:SER:N	2.46	0.40
3:D:333:ARG:HH12	3:D:334:ARG:NH1	2.19	0.40
4:K:19:VAL:O	4:K:248:GLN:N	2.48	0.40
4:K:388:LYS:HD3	4:K:394:PRO:HD2	2.03	0.40
4:K:399:VAL:O	4:K:427:TYR:HB2	2.21	0.40
4:K:625:ILE:HG21	4:L:660:TRP:CZ3	2.56	0.40
4:L:32:PRO:CG	4:M:38:PRO:HB2	2.49	0.40
4:L:183:LYS:HD2	4:L:183:LYS:C	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:234:LYS:H	4:L:234:LYS:HG3	1.72	0.40
4:L:334:LEU:HD13	4:L:366:ARG:HH22	1.86	0.40
5:O:119:LEU:HD21	5:O:136:LEU:HD21	2.03	0.40
5:O:273:ALA:O	5:O:275:PRO:HD3	2.21	0.40
5:O:285:LEU:HD21	5:O:289:ALA:N	2.36	0.40
5:O:632:LEU:HD13	5:O:664:LEU:C	2.45	0.40
5:O:1056:TYR:CZ	5:O:1061:LEU:HD13	2.56	0.40
3:P:110:GLN:HG3	3:P:111:VAL:H	1.82	0.40
3:P:133:LEU:HB3	3:P:140:LYS:HG2	2.04	0.40
3:P:292:THR:HA	3:P:295:LEU:CG	2.51	0.40
3:P:302:PRO:O	3:P:303:LEU:HD23	2.22	0.40
6:X:183:PHE:CG	6:X:261:THR:HB	2.56	0.40
6:Y:68:LEU:HD12	6:Y:69:PRO:HD2	2.03	0.40
6:Z:159:LEU:H	6:Z:159:LEU:HD12	1.85	0.40
6:Z:295:VAL:O	6:Z:295:VAL:HG22	2.21	0.40
1:B:598:TRP:O	1:B:601:ASN:HB2	2.22	0.40
1:B:937:GLN:OE1	1:B:947:ARG:HG2	2.22	0.40
1:B:1217:PRO:HG2	2:C:1087:MET:HG2	2.02	0.40
2:C:797:LEU:HA	2:C:800:LEU:HB2	2.03	0.40
2:C:915:PHE:CG	2:C:916:SER:N	2.89	0.40
2:C:922:MET:HA	2:C:925:CYS:SG	2.61	0.40
2:C:979:LEU:HD23	2:C:983:LEU:HD11	2.03	0.40
3:D:120:GLN:CG	3:D:123:ARG:HH21	2.34	0.40
3:D:187:PHE:N	3:D:239:PHE:HE1	2.20	0.40
3:D:333:ARG:NH1	3:D:334:ARG:HD3	2.35	0.40
4:K:661:THR:HA	4:K:664:PHE:HB3	2.04	0.40
4:L:315:PRO:HA	4:L:316:PRO:HD3	1.92	0.40
4:L:367:VAL:HG22	4:L:368:VAL:N	2.36	0.40
4:L:594:LYS:C	4:L:597:SER:HG	2.21	0.40
4:M:188:TRP:HH2	4:M:235:GLU:HB3	1.85	0.40
4:M:188:TRP:CH2	4:M:235:GLU:HB3	2.56	0.40
4:M:229:ILE:HG23	4:M:232:TYR:O	2.21	0.40
4:M:252:VAL:HG23	4:M:253:SER:N	2.35	0.40
5:O:27:LEU:N	5:O:109:GLU:H	2.17	0.40
5:O:326:TRP:CE3	5:O:326:TRP:C	2.99	0.40
5:O:691:LEU:HG	5:O:692:PRO:N	2.35	0.40
5:O:830:THR:CG2	5:O:848:CYS:HB3	2.48	0.40
5:O:858:SER:HG	5:O:861:TRP:CD1	2.40	0.40
5:O:871:ASP:C	5:O:873:LEU:H	2.30	0.40
5:O:885:ILE:HD13	5:O:921:VAL:HB	2.03	0.40
5:O:934:ARG:HH12	5:O:1210:ILE:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:399:ASN:C	3:P:401:GLN:N	2.78	0.40
6:X:132:ASN:ND2	6:X:134:LEU:HB2	2.37	0.40
6:X:218:TRP:NE1	6:X:358:ILE:HD11	2.36	0.40
6:X:262:THR:C	6:X:269:PRO:HB3	2.45	0.40
6:X:308:VAL:HG23	6:X:309:GLU:H	1.86	0.40
6:Y:177:SER:OG	6:Y:179:LEU:HG	2.21	0.40
6:Z:100:LEU:HD23	6:Z:101:SER:N	2.36	0.40
6:Z:137:ASP:OD2	6:Z:140:SER:HB3	2.21	0.40
6:Z:162:LYS:HG2	6:Z:166:TYR:HE2	1.87	0.40
6:Z:223:TYR:HA	6:Z:356:VAL:HG22	2.03	0.40
6:Z:227:GLU:HG3	6:Z:228:LEU:HD12	2.01	0.40
6:Z:300:ASP:O	6:Z:304:HIS:CD2	2.74	0.40
1:B:266:PHE:CB	1:B:1253:LEU:HD21	2.51	0.40
1:B:494:THR:HG22	1:B:1272:MET:HB2	2.03	0.40
1:B:602:GLY:H	1:B:832:GLN:HA	1.85	0.40
1:B:629:PHE:HA	1:B:632:LEU:HD12	2.04	0.40
1:B:837:ARG:HH12	1:B:838:LEU:HD11	1.85	0.40
1:B:852:GLN:OE1	1:B:991:ASP:HB3	2.22	0.40
1:B:914:VAL:HG13	1:B:915:PHE:HD1	1.87	0.40
1:B:935:VAL:O	1:B:938:ILE:N	2.51	0.40
1:B:961:THR:O	1:B:964:THR:HB	2.22	0.40
2:C:504:LEU:O	2:C:1264:THR:HG23	2.21	0.40
2:C:636:LEU:HA	2:C:639:THR:HG23	2.04	0.40
2:C:1042:ARG:HB3	2:C:1203:GLU:OE2	2.21	0.40
3:D:65:TYR:HA	3:D:68:MET:SD	2.62	0.40
3:D:81:ARG:CZ	3:D:87:GLY:HA2	2.52	0.40
4:K:20:PHE:CD1	4:K:247:ILE:HD13	2.56	0.40
4:K:154:GLN:N	4:K:154:GLN:CD	2.79	0.40
4:K:175:VAL:O	4:K:179:GLN:HG2	2.22	0.40
4:K:218:LEU:HD12	4:K:218:LEU:HA	1.89	0.40
4:K:318:PRO:HB3	4:K:496:SER:HA	2.04	0.40
4:K:451:ASN:N	4:K:451:ASN:OD1	2.52	0.40
4:L:120:PHE:HB3	4:L:242:LYS:HZ1	1.86	0.40
4:L:180:ALA:O	4:L:183:LYS:HB3	2.21	0.40
4:L:278:PRO:C	4:L:282:LYS:HZ3	2.29	0.40
4:L:343:THR:O	4:L:363:GLY:N	2.54	0.40
4:L:379:VAL:HG22	4:L:449:ALA:HB2	2.03	0.40
4:L:594:LYS:HZ2	4:L:594:LYS:HG3	1.73	0.40
4:M:188:TRP:HA	4:M:191:ASP:OD2	2.22	0.40
4:M:549:ALA:HA	4:M:552:ILE:CD1	2.51	0.40
5:O:207:LEU:HD13	5:O:210:PHE:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:426:TYR:HB3	5:O:694:PHE:CE2	2.57	0.40
5:O:498:ASP:OD2	5:O:501:THR:HG22	2.21	0.40
5:O:631:ILE:O	5:O:632:LEU:C	2.65	0.40
5:O:988:LEU:HA	5:O:990:TRP:NE1	2.36	0.40
5:O:1019:MET:HB3	5:O:1021:ILE:CD1	2.52	0.40
3:P:101:LEU:HA	3:P:101:LEU:HD13	1.77	0.40
3:P:217:LEU:HG	3:P:221:TRP:CD1	2.57	0.40
3:P:309:VAL:CG2	3:P:314:ARG:HG2	2.51	0.40
3:P:391:MET:HE2	3:P:391:MET:HB3	1.78	0.40
6:X:155:VAL:HG12	6:X:156:VAL:N	2.36	0.40
6:X:308:VAL:HG23	6:X:309:GLU:N	2.36	0.40
6:Z:7:ASN:HA	6:Z:315:LEU:HD22	2.02	0.40
6:Z:99:MET:HE3	6:Z:99:MET:HB3	1.88	0.40
6:Z:210:PHE:CZ	6:Z:268:MET:HG2	2.57	0.40
1:B:332:ILE:O	1:B:334:LEU:N	2.54	0.40
1:B:363:LEU:O	1:B:366:VAL:HB	2.21	0.40
1:B:509:ILE:HD12	1:B:513:GLU:HB2	2.03	0.40
1:B:651:THR:O	1:B:655:MET:HG2	2.22	0.40
1:B:985:GLU:HB2	1:B:986:PRO:HD3	2.04	0.40
1:B:1036:ASN:CG	1:B:1207:ARG:HH21	2.26	0.40
1:B:1062:PRO:HB2	1:B:1065:LEU:H	1.86	0.40
1:B:1080:ASP:OD1	1:B:1095:ARG:HG2	2.21	0.40
1:B:1168:GLU:HG3	1:B:1169:GLU:OE2	2.22	0.40
2:C:260:ALA:HB3	2:C:312:SER:OG	2.21	0.40
2:C:301:VAL:HG22	2:C:1212:THR:HG22	2.03	0.40
2:C:624:GLU:HA	2:C:627:TRP:HE3	1.84	0.40
2:C:668:ILE:HB	2:C:669:TYR:CE1	2.57	0.40
2:C:853:SER:HB2	2:C:942:GLN:HB3	2.04	0.40
3:D:275:THR:HB	3:D:401:GLN:HE22	1.86	0.40
3:D:368:LYS:HG3	3:D:369:ARG:N	2.37	0.40
4:K:263:ASN:HA	4:L:43:PRO:CD	2.51	0.40
4:K:298:PRO:O	4:K:299:GLU:C	2.64	0.40
4:K:380:LEU:HD13	4:K:401:PHE:CZ	2.56	0.40
4:K:473:ILE:HG13	4:K:473:ILE:O	2.22	0.40
4:L:34:LEU:HD23	4:L:34:LEU:HA	1.85	0.40
4:L:148:VAL:HG12	4:L:149:GLY:N	2.36	0.40
4:L:406:SER:N	4:L:464:MET:HE1	2.37	0.40
4:L:468:LEU:HD12	4:L:469:LEU:N	2.35	0.40
4:L:625:ILE:HG21	4:M:657:ILE:HD12	2.02	0.40
4:M:46:VAL:CG1	4:M:65:ARG:HG3	2.51	0.40
4:M:67:THR:C	4:M:100:LEU:HG	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:284:LYS:O	4:M:284:LYS:NZ	2.53	0.40
4:M:348:GLN:C	4:M:356:ASN:HD21	2.30	0.40
4:M:518:LEU:O	4:M:611:ILE:HG23	2.21	0.40
5:O:483:LEU:O	5:O:529:VAL:HG11	2.22	0.40
5:O:653:PHE:HE2	5:O:655:ALA:HB2	1.87	0.40
5:O:1270:TRP:HE1	5:O:1274:ILE:HG12	1.87	0.40
3:P:183:PHE:C	3:P:185:HIS:HD1	2.27	0.40
3:P:392:PHE:CE1	3:P:396:PRO:HG3	2.57	0.40
6:X:8:GLY:HA2	6:X:11:ILE:HG12	2.03	0.40
6:X:68:LEU:HA	6:X:69:PRO:HD3	1.95	0.40
6:X:171:ASN:HA	6:X:174:ILE:CG1	2.49	0.40
6:X:223:TYR:HA	6:X:355:PRO:O	2.22	0.40
6:Y:33:ASP:CG	6:Y:35:THR:H	2.29	0.40
6:Y:103:VAL:O	6:Y:107:HIS:HB2	2.21	0.40
6:Y:236:ARG:HA	6:Y:236:ARG:NH1	2.36	0.40
1:B:522:ILE:HA	1:B:525:ILE:CD1	2.52	0.40
1:B:569:GLN:CD	1:B:570:THR:H	2.30	0.40
1:B:764:TRP:HA	1:B:767:ARG:HH11	1.87	0.40
1:B:781:TYR:C	1:B:785:TRP:CD1	2.99	0.40
2:C:541:VAL:HG13	2:C:545:ARG:HH21	1.87	0.40
2:C:623:LEU:O	2:C:626:LEU:HB2	2.21	0.40
2:C:948:TYR:OH	2:C:1029:GLU:N	2.55	0.40
2:C:1049:ARG:HG3	2:C:1196:VAL:HG11	2.04	0.40
3:D:230:GLN:NE2	3:D:240:GLN:HE21	2.15	0.40
4:K:113:LYS:O	4:K:116:MET:HB2	2.22	0.40
4:K:171:GLN:O	4:K:175:VAL:HG13	2.22	0.40
4:K:282:LYS:HD3	4:K:642:ALA:HB2	2.03	0.40
4:K:606:ASP:CG	4:K:609:THR:HG23	2.46	0.40
4:K:655:GLU:HA	4:K:658:GLN:HE21	1.87	0.40
4:L:35:SER:C	4:L:36:LEU:HD23	2.47	0.40
4:L:101:VAL:O	4:L:165:VAL:HA	2.22	0.40
4:L:216:VAL:O	4:L:219:LEU:HG	2.21	0.40
4:L:237:ALA:HA	4:L:240:LEU:HG	2.04	0.40
4:L:667:LYS:O	4:L:670:THR:HB	2.22	0.40
4:M:37:SER:HG	4:M:40:MET:HB2	1.87	0.40
4:M:153:ARG:HD3	4:M:153:ARG:N	2.37	0.40
4:M:369:ASN:HA	4:M:467:TYR:CD2	2.51	0.40
5:O:5:TRP:HB3	5:O:336:SER:C	2.47	0.40
5:O:17:THR:HA	5:O:279:LEU:HD11	2.03	0.40
5:O:280:ASP:OD2	5:O:309:THR:HG23	2.21	0.40
5:O:297:LEU:O	5:O:300:ARG:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:420:LEU:HD22	5:O:699:ASP:C	2.46	0.40
5:O:908:GLN:NE2	5:O:911:ILE:HB	2.37	0.40
5:O:1249:ILE:O	5:O:1252:SER:OG	2.31	0.40
3:P:211:ARG:O	3:P:214:GLN:HB2	2.22	0.40
3:P:229:HIS:CE1	3:P:231:GLN:HB2	2.57	0.40
6:X:20:GLU:O	6:X:22:ARG:HG2	2.22	0.40
6:Y:44:VAL:HG22	6:Y:49:VAL:HG22	2.03	0.40
6:Y:54:CYS:HB3	6:Y:73:CYS:HB2	2.03	0.40
6:Y:299:VAL:HG13	6:Y:300:ASP:H	1.86	0.40
6:Z:40:PRO:HG2	6:Z:52:MET:HE1	2.03	0.40
6:Z:123:THR:HG22	6:Z:124:GLU:HG3	2.03	0.40
6:Z:197:LEU:HD22	6:Z:201:ALA:HB1	2.03	0.40
6:Z:199:GLY:N	6:Z:202:ARG:HE	2.13	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 PDB entries followed by that with respect to all EM entries.

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	B	1031/1035 (100%)	841 (82%)	190 (18%)	0	100	100
2	C	1004/1008 (100%)	820 (82%)	179 (18%)	5 (0%)	24	63
3	D	415/417 (100%)	343 (83%)	71 (17%)	1 (0%)	43	78
3	P	415/417 (100%)	352 (85%)	62 (15%)	1 (0%)	43	78
4	K	637/641 (99%)	548 (86%)	88 (14%)	1 (0%)	43	78
4	L	637/641 (99%)	536 (84%)	100 (16%)	1 (0%)	43	78
4	M	637/641 (99%)	550 (86%)	86 (14%)	1 (0%)	43	78
5	O	1280/1284 (100%)	1069 (84%)	211 (16%)	0	100	100
6	X	363/365 (100%)	309 (85%)	54 (15%)	0	100	100
6	Y	363/365 (100%)	317 (87%)	46 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	Z	363/365 (100%)	296 (82%)	67 (18%)	0	100	100
All	All	7145/7179 (100%)	5981 (84%)	1154 (16%)	10 (0%)	49	83

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	C	1088	ASN
3	D	49	GLY
4	M	387	TYR
4	K	372	GLN
3	P	170	MET
2	C	996	GLN
2	C	992	PRO
2	C	1250	VAL
2	C	907	PRO
4	L	616	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 PDB entries followed by that with respect to all EM entries.

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	B	915/915 (100%)	913 (100%)	2 (0%)	87	87
2	C	890/890 (100%)	885 (99%)	5 (1%)	78	83
3	D	352/352 (100%)	351 (100%)	1 (0%)	86	86
3	P	352/352 (100%)	349 (99%)	3 (1%)	70	79
4	K	541/541 (100%)	539 (100%)	2 (0%)	84	84
4	L	541/541 (100%)	539 (100%)	2 (0%)	84	84
4	M	541/541 (100%)	539 (100%)	2 (0%)	84	84
5	O	1118/1118 (100%)	1110 (99%)	8 (1%)	76	81
6	X	317/317 (100%)	315 (99%)	2 (1%)	78	83
6	Y	317/317 (100%)	315 (99%)	2 (1%)	78	83
6	Z	317/317 (100%)	315 (99%)	2 (1%)	78	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	6201/6201 (100%)	6170 (100%)	31 (0%)	78 83

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	479	ILE
1	B	847	VAL
2	C	513	GLU
2	C	781	TYR
2	C	995	THR
2	C	1037	LEU
2	C	1234	ILE
3	D	206	ASP
4	K	381	ASP
4	K	513	VAL
4	L	185	LEU
4	L	665	LEU
4	M	513	VAL
4	M	612	THR
5	O	200	TYR
5	O	323	THR
5	O	344	LEU
5	O	456	LEU
5	O	462	ASP
5	O	620	THR
5	O	1089	LEU
5	O	1212	HIS
3	P	83	ASN
3	P	187	PHE
3	P	284	ASN
6	X	150	THR
6	X	286	ILE
6	Y	77	ILE
6	Y	353	ASP
6	Z	83	VAL
6	Z	353	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (185) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	241	ASN

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Mol	Chain	Res	Type
1	B	246	GLN
1	B	278	GLN
1	B	333	HIS
1	B	390	ASN
1	B	415	ASN
1	B	475	ASN
1	B	488	GLN
1	B	518	GLN
1	B	524	ASN
1	B	537	GLN
1	B	601	ASN
1	B	625	ASN
1	B	666	ASN
1	B	667	GLN
1	B	710	HIS
1	B	715	ASN
1	B	731	ASN
1	B	759	ASN
1	B	782	GLN
1	B	996	GLN
1	B	1005	ASN
1	B	1123	ASN
2	C	275	GLN
2	C	278	GLN
2	C	340	ASN
2	C	357	ASN
2	C	421	ASN
2	C	488	GLN
2	C	524	ASN
2	C	527	ASN
2	C	558	ASN
2	C	654	ASN
2	C	671	GLN
2	C	782	GLN
2	C	812	GLN
2	C	929	GLN
2	C	937	GLN
2	C	1010	ASN
2	C	1054	HIS
2	C	1118	ASN
2	C	1158	ASN
2	C	1213	ASN

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Mol	Chain	Res	Type
2	C	1226	HIS
2	C	1244	GLN
2	C	1246	GLN
2	C	1255	ASN
3	D	38	GLN
3	D	67	GLN
3	D	84	HIS
3	D	114	GLN
3	D	118	GLN
3	D	177	GLN
3	D	200	ASN
3	D	230	GLN
3	D	231	GLN
3	D	240	GLN
3	D	258	ASN
3	D	280	ASN
3	D	353	GLN
3	D	363	GLN
3	D	365	GLN
3	D	381	GLN
3	D	388	ASN
3	D	399	ASN
3	D	401	GLN
4	K	12	ASN
4	K	121	ASN
4	K	154	GLN
4	K	157	ASN
4	K	179	GLN
4	K	213	GLN
4	K	248	GLN
4	K	263	ASN
4	K	288	GLN
4	K	372	GLN
4	K	485	GLN
4	K	564	ASN
4	K	571	GLN
4	K	576	GLN
4	K	622	ASN
4	K	658	GLN
4	K	659	ASN
4	K	662	GLN
4	K	671	HIS

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Mol	Chain	Res	Type
4	L	42	ASN
4	L	106	HIS
4	L	157	ASN
4	L	202	ASN
4	L	222	GLN
4	L	418	GLN
4	L	528	ASN
4	L	587	ASN
4	L	613	GLN
4	L	629	GLN
4	L	658	GLN
4	L	671	HIS
4	M	42	ASN
4	M	157	ASN
4	M	158	ASN
4	M	179	GLN
4	M	202	ASN
4	M	213	GLN
4	M	222	GLN
4	M	244	ASN
4	M	360	ASN
4	M	369	ASN
4	M	372	GLN
4	M	405	GLN
4	M	456	GLN
4	M	485	GLN
4	M	564	ASN
4	M	613	GLN
4	M	623	ASN
4	M	671	HIS
5	O	49	GLN
5	O	117	ASN
5	O	174	GLN
5	O	180	ASN
5	O	214	HIS
5	O	250	ASN
5	O	263	GLN
5	O	419	GLN
5	O	495	GLN
5	O	526	GLN
5	O	572	GLN
5	O	659	HIS

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Mol	Chain	Res	Type
5	O	804	HIS
5	O	812	ASN
5	O	908	GLN
5	O	925	GLN
5	O	1048	ASN
5	O	1079	GLN
5	O	1108	ASN
5	O	1110	ASN
5	O	1133	GLN
5	O	1162	GLN
5	O	1172	GLN
5	O	1215	GLN
5	O	1225	ASN
5	O	1251	ASN
3	P	22	ASN
3	P	84	HIS
3	P	141	HIS
3	P	154	ASN
3	P	214	GLN
3	P	229	HIS
3	P	230	GLN
3	P	242	ASN
3	P	258	ASN
3	P	262	GLN
3	P	284	ASN
3	P	307	ASN
3	P	315	ASN
3	P	331	GLN
3	P	354	GLN
3	P	355	ASN
3	P	356	GLN
3	P	365	GLN
3	P	381	GLN
3	P	406	ASN
6	X	39	GLN
6	X	53	HIS
6	X	79	HIS
6	X	86	GLN
6	X	107	HIS
6	X	193	ASN
6	X	205	GLN
6	X	256	HIS

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Mol	Chain	Res	Type
6	X	330	GLN
6	Y	9	HIS
6	Y	62	GLN
6	Y	80	GLN
6	Y	105	GLN
6	Y	107	HIS
6	Y	139	ASN
6	Y	230	HIS
6	Y	329	GLN
6	Z	9	HIS
6	Z	62	GLN
6	Z	79	HIS
6	Z	80	GLN
6	Z	135	GLN
6	Z	230	HIS
6	Z	304	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	C	1
4	L	1
4	M	1
4	K	1
1	B	1
5	O	1

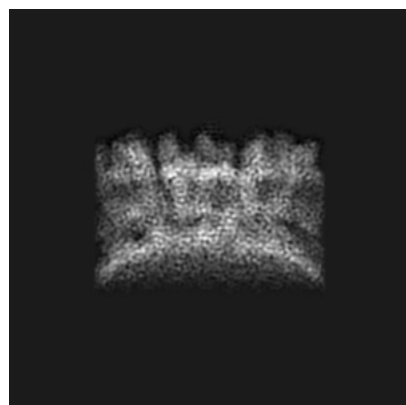
All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	562:THR	C	571:LEU	N	14.85
1	L	71:ILE	C	97:ASP	N	12.37
1	M	71:ILE	C	97:ASP	N	11.46
1	K	71:ILE	C	97:ASP	N	9.27
1	B	583:PRO	C	584:SER	N	8.38
1	O	1175:SER	C	1180:THR	N	6.54

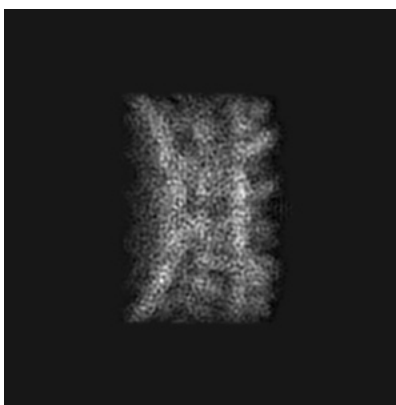
6 Tomogram visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-22166. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

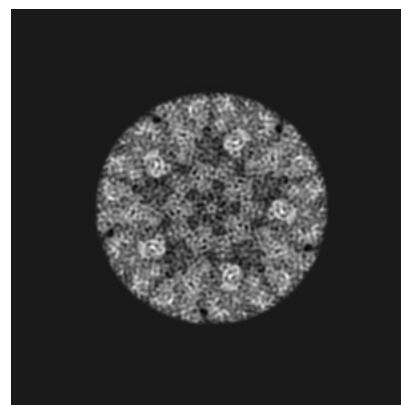
6.1 Orthogonal projections [i](#)



X



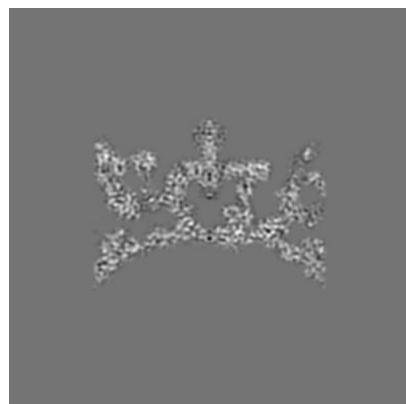
Y



Z

The images above show the tomogram projected in three orthogonal directions.

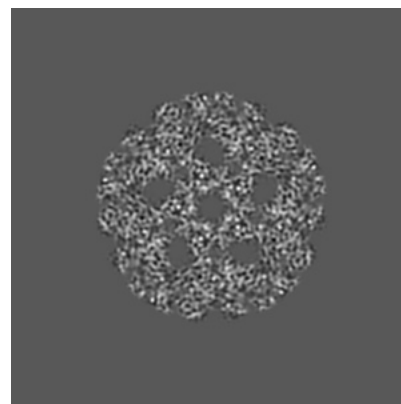
6.2 Central slices [i](#)



X Index: 180



Y Index: 180



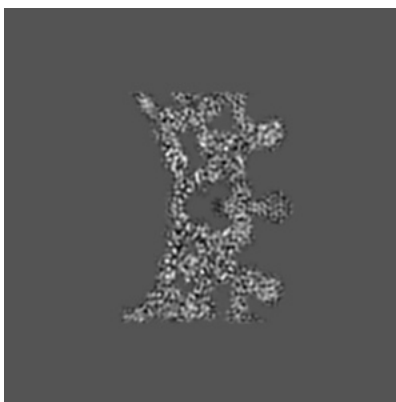
Z Index: 180

The images above show central slices of the tomogram in three orthogonal directions.

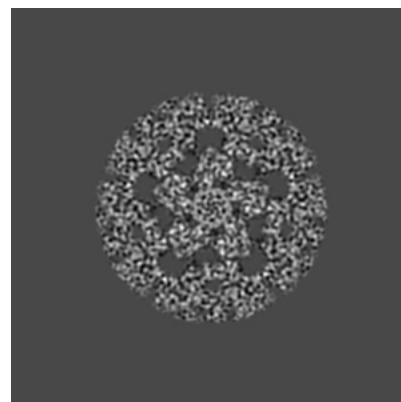
6.3 Largest variance slices [i](#)



X Index: 195



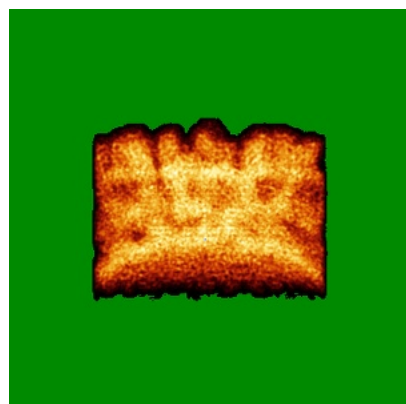
Y Index: 176



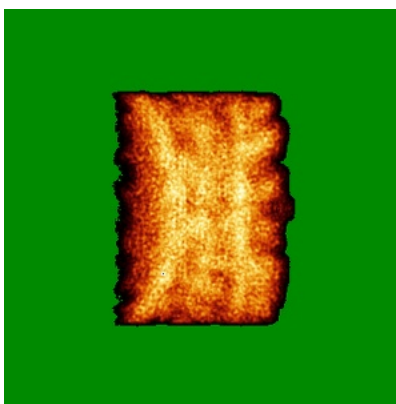
Z Index: 213

The images above show the largest variance slices of the tomogram in three orthogonal directions.

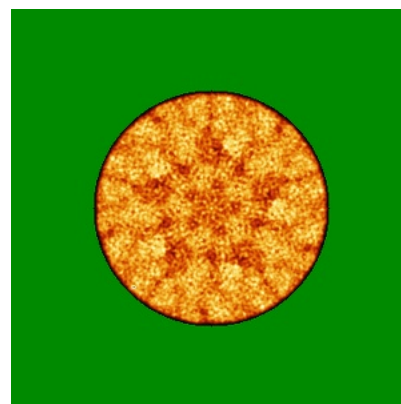
6.4 Orthogonal standard-deviation projections (False-color) [i](#)



X



Y



Z

The images above show the tomogram projected in three orthogonal directions.

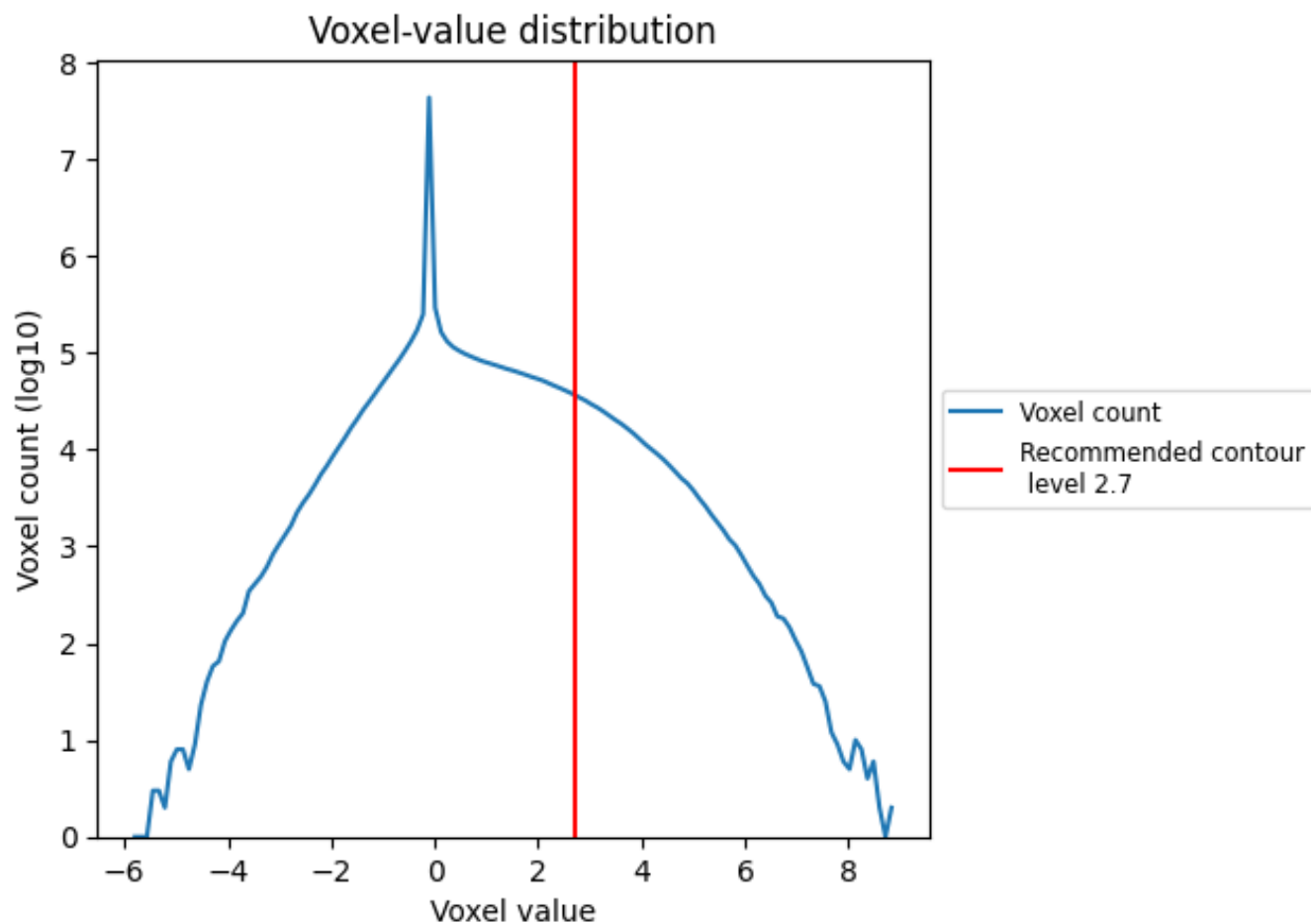
6.5 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Tomogram analysis [i](#)

This section contains the results of statistical analysis of the tomogram.

7.1 Voxel-value distribution [i](#)



The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.

8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-22166 and PDB model 6ZTZ. Per-residue inclusion information can be found in section 3 on page 8.

8.1 Map-model overlay [i](#)

This section was not generated.

8.2 Q-score mapped to coordinate model [i](#)

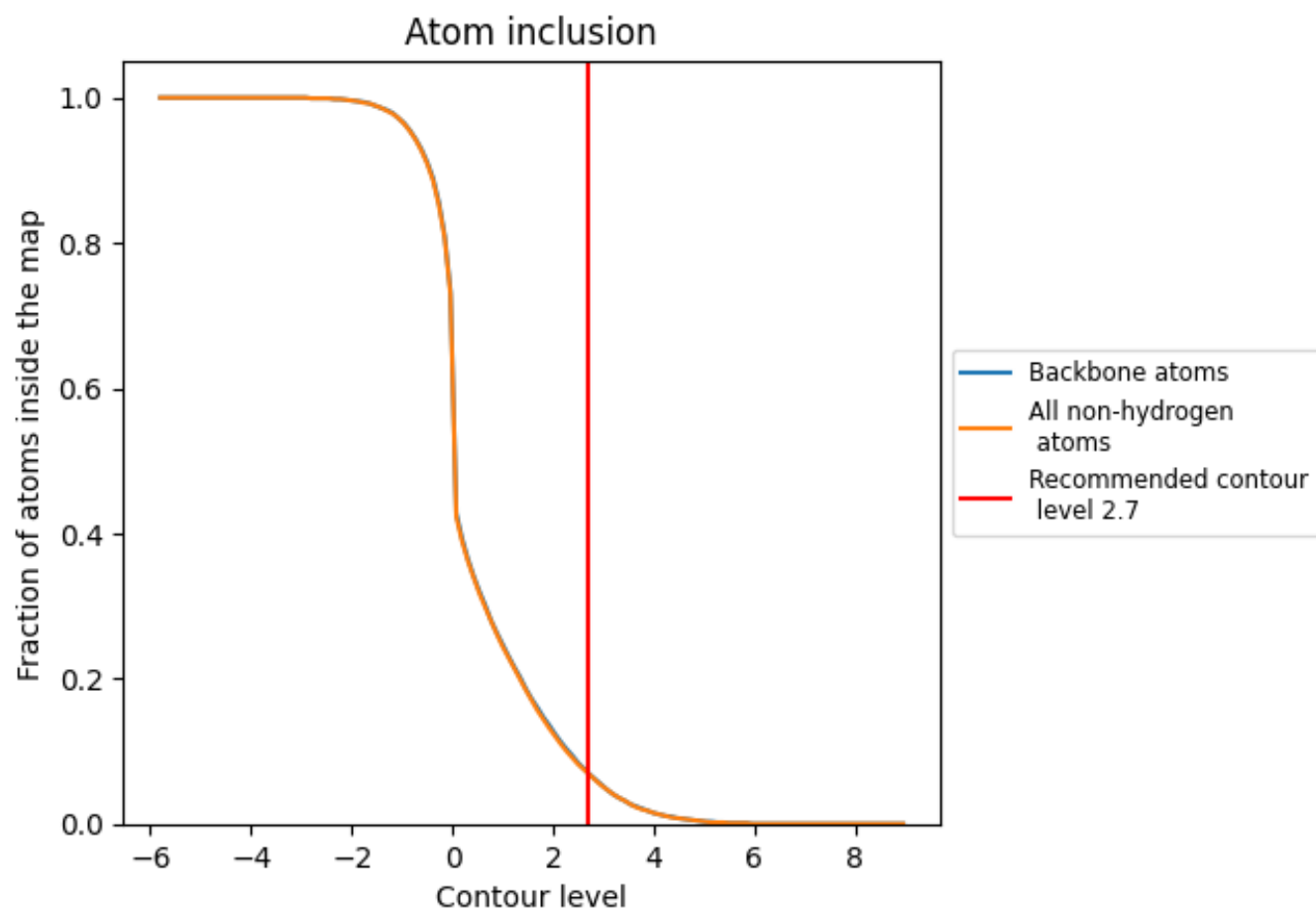


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

8.3 Atom inclusion mapped to coordinate model [i](#)

This section was not generated.

8.4 Atom inclusion [i](#)



At the recommended contour level, 7% of all backbone atoms, 7% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.0690	0.0100
B	0.0010	0.0220
C	0.0530	0.0150
D	0.0450	0.0030
K	0.0870	-0.0040
L	0.0870	0.0090
M	0.0830	0.0020
O	0.0910	0.0230
P	0.1510	-0.0060
X	0.0720	-0.0060
Y	0.0560	-0.0050
Z	0.0830	0.0030

1.0
0.0
-0.0