



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 16, 2023 – 02:10 AM EDT

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

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

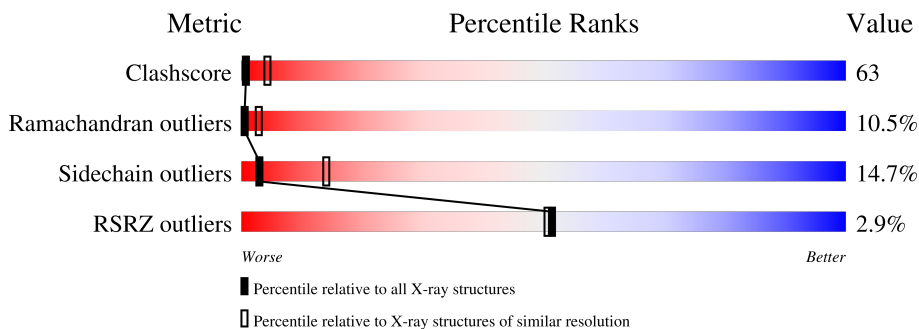
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.30 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	315	18% 44% 10% 27%
1	B	315	5% 19% 43% 11% 27%
1	K	315	% 23% 38% 10% 27%
1	L	315	2% 17% 48% 8% 27%
2	C	1119	2% 25% 59% 14% .
2	M	1119	3% 24% 59% 15% .
3	D	1524	2% 20% 52% 18% . 9%

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Mol	Chain	Length	Quality of chain
3	N	1524	<p>3% 21% 52% 17% 9%</p>
4	E	99	<p>2% 29% 52% 11% 8%</p>
4	O	99	<p>4% 34% 47% 9% 5%</p>
5	F	423	<p>2% 22% 48% 10% 18%</p>
5	P	423	<p>2% 26% 44% 10% 18%</p>

## 2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 53962 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase alpha chain.

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

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

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

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

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

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

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

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

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

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

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

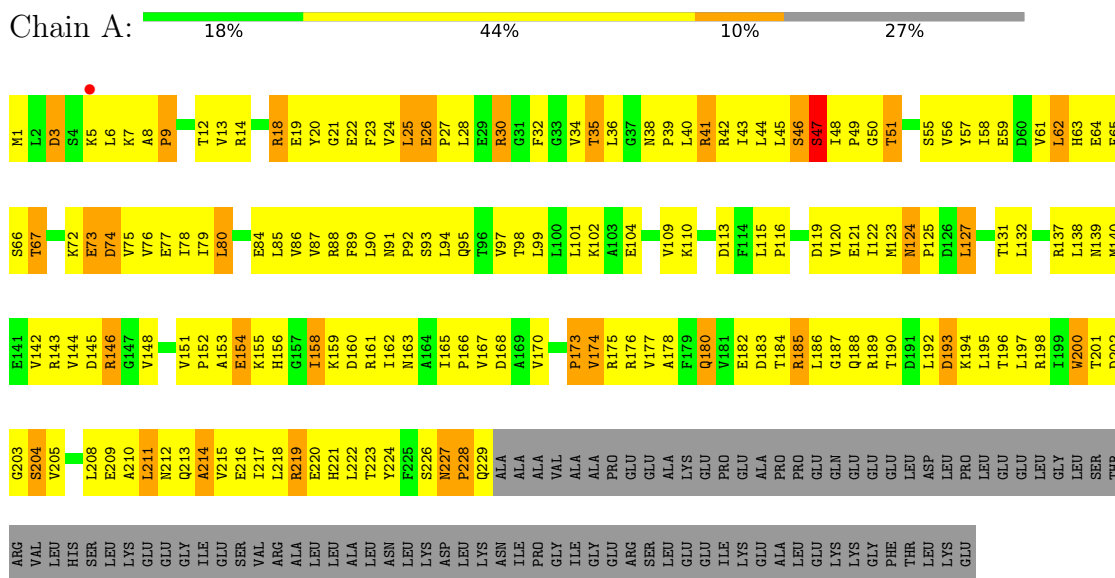
- Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

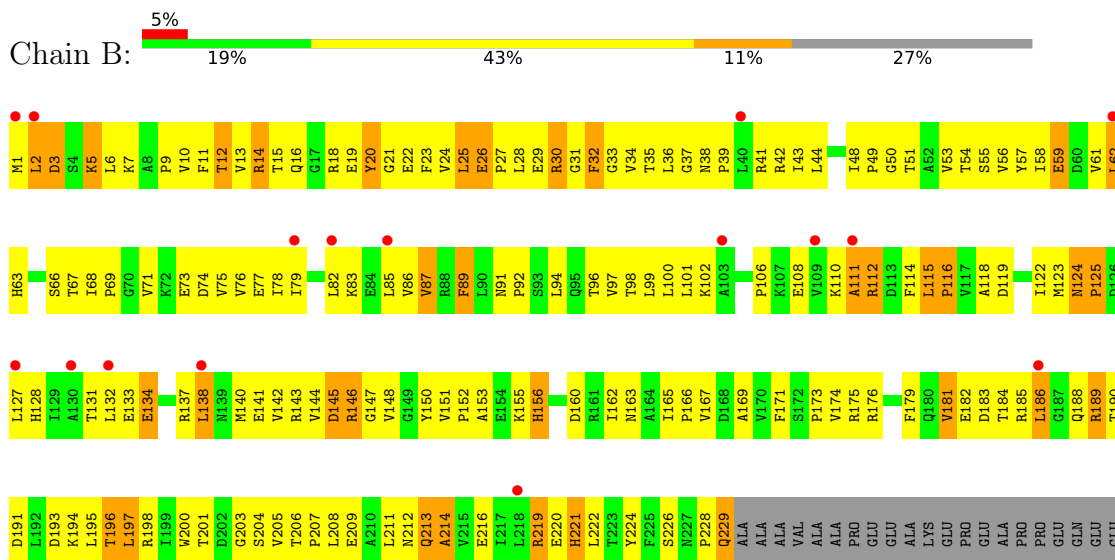
### 3 Residue-property plots i

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

- Molecule 1: DNA-directed RNA polymerase alpha chain



- Molecule 1: DNA-directed RNA polymerase alpha chain

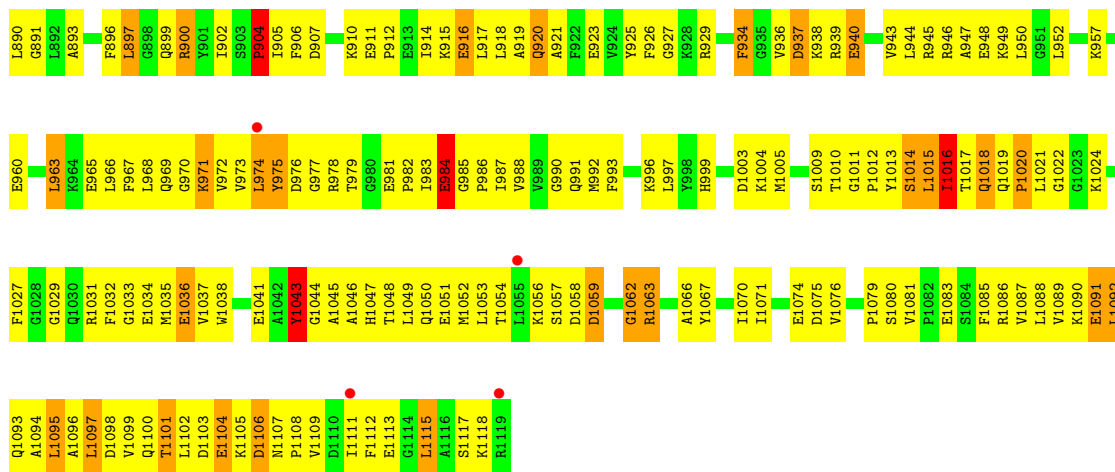




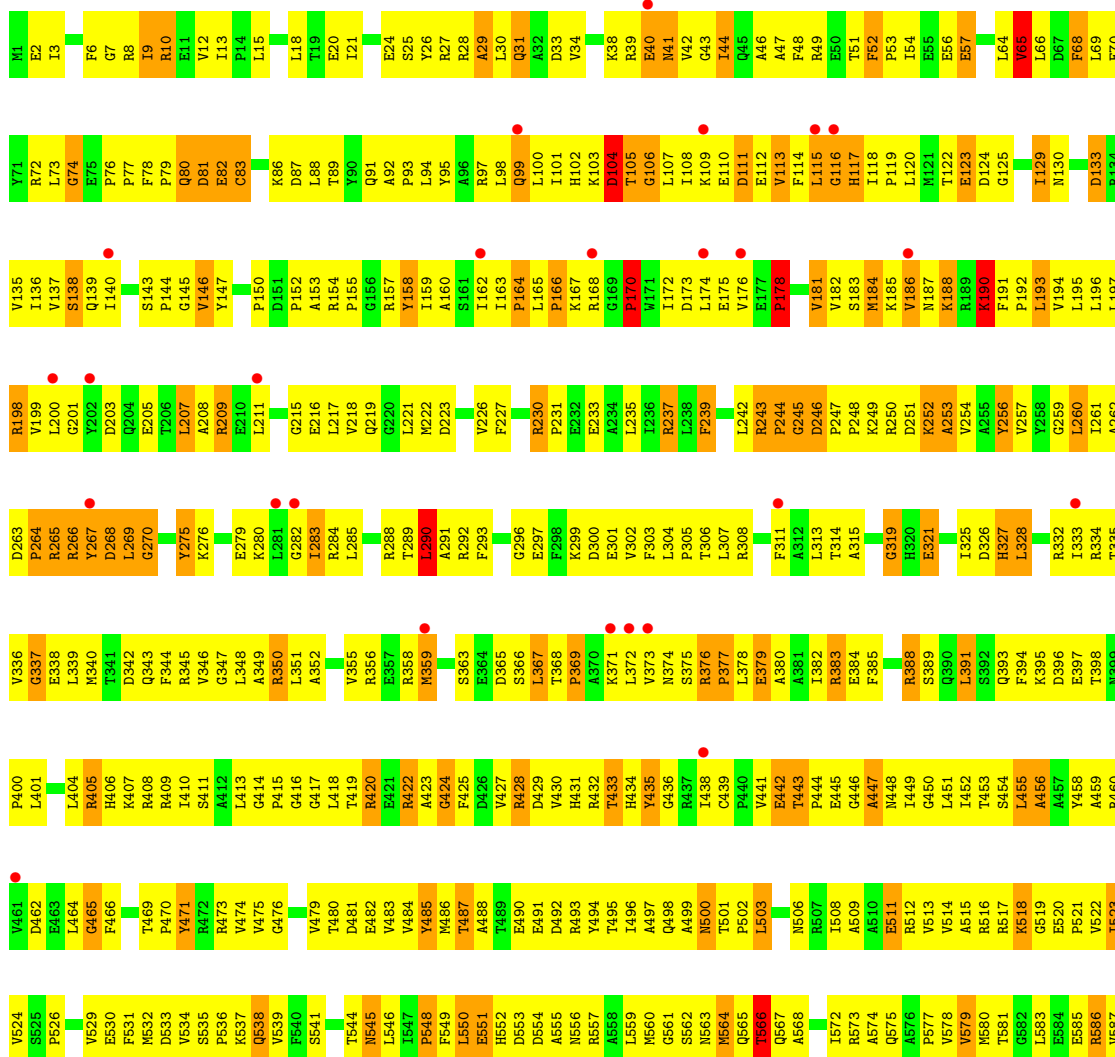


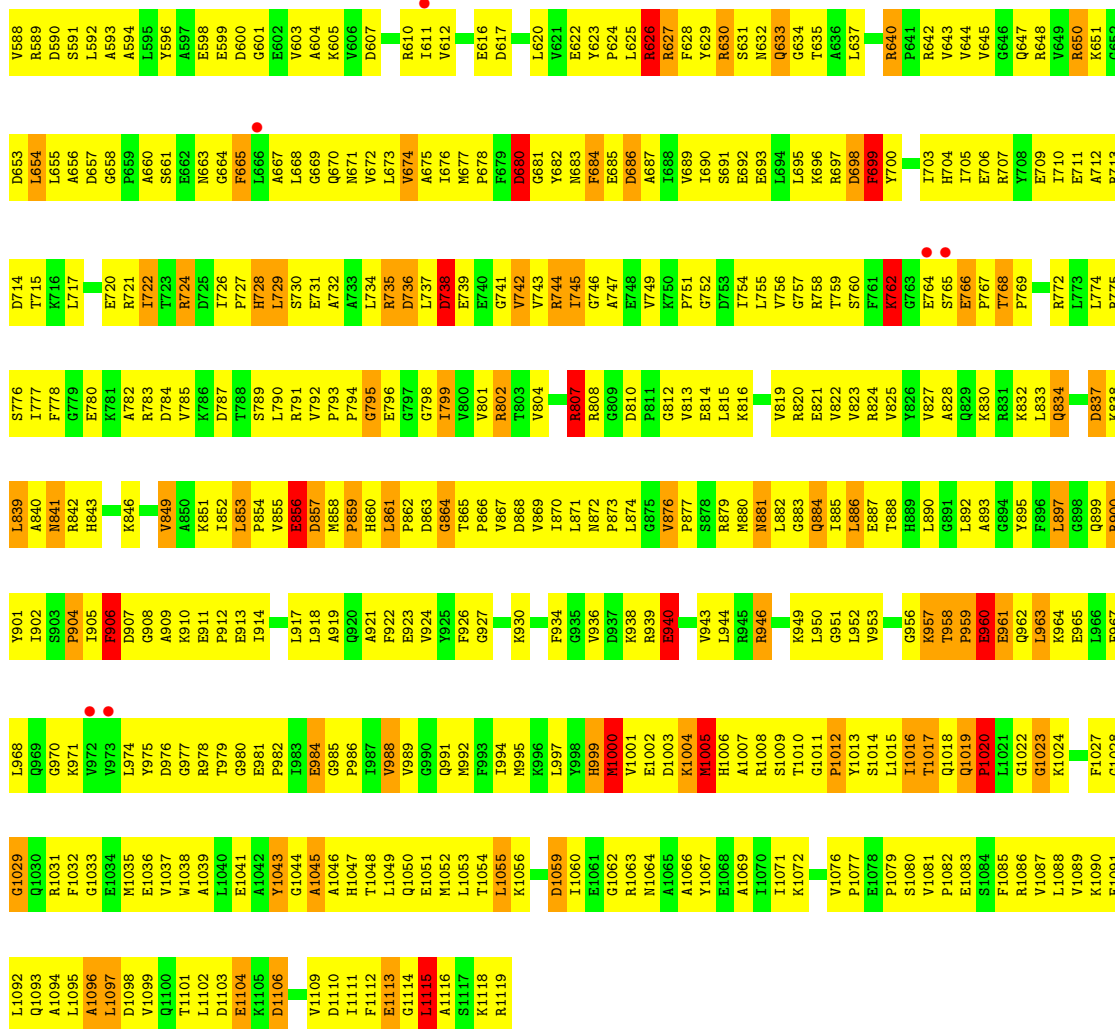
K830	R767	F699	A636	Q575	V513	M448	E379	A315	D251	R189	I128	V685	M1
R831	T768	T700	L637	A576	V514	I449	R383	G316	K252	K190	I129	L66	E2
R832	P769	S702	D638	P577	A515	G450	E384	V317	A253	F191	M130	D67	I3
L833	E770	T701	Q639	V578	L451	A451	F385	G319	Y256	L193	G131	R68	R4
Q834	E771	H703	R640	M579	L452	T452	F386	H320	Z257	L194	A132	L69	R5
V835	R772	H704	P641	M580	R517	T453	F387	H321	Y258	L195	D133	F76	F6
G836	L773	H705	R642	T681	K318	S454	S387	E321	G259	L196	R134	G77	G7
D837	L774	R707	V643	G582	G519	L455	R388	E322	G260	L197	V135	R78	R8
R838	R775	Y708	V644	L583	G520	Y458	S389	D324	L260	L198	S137	L73	R9
L839	S776	Y709	V645	E584	P521	Q390	L391	L325	L261	R199	G138	G74	R10
A840	I777	E710	G646	E585	P522	L459	S392	D326	A262	L200	V139	E75	E11
N841	E711	W710	Q647	R586	I523	A467	S393	H327	D263	L201	Q139	G76	V12
R842	A712	A712	R648	V687	I524	I467	Q393	L328	P264	L202	W140	P77	V13
H843	R713	R713	V649	V688	S525	D462	F394	G329	R285	Y202	H141	F78	I13
G844	A714	L717	R650	R689	E528	L464	K395	N330	R266	D203	P144	Q79	P16
N845	R715	L717	K651	D590	E529	G465	D396	R331	Y287	Q204	G145	Q80	P17
K846	D716	G718	G652	S591	V529	G466	E397	R332	D268	E205	V146	L18	L18
V848	W718	R721	D653	L592	E530	I467	T398	L333	E271	T206	V147	T19	D81
H849	D719	R722	L654	A593	F531	R468	K399	R334	A272	L207	Y147	E20	E20
A850	D720	I723	L655	A594	M532	T469	N399	T335	A273	A208	F148	E21	E21
R851	T722	F723	G658	L595	D533	P470	S403	V336	G273	R209	I149	Q22	Q22
K852	S724	R724	P659	Y596	V534	Y471	L404	G337	R274	E210	P150	V23	V23
L853	L790	D725	P659	S535	R472	R472	R405	E338	Y275	L211	D151	E24	E24
L854	R791	R726	A660	P536	R473	R473	H406	L339	K276	P152	D151	S25	S25
V855	W792	P727	S661	K537	V474	V474	K407	K340	A277	Y90	A153	Y26	Y26
H856	P793	H728	E662	D600	Q538	V475	R408	T341	E278	R27	R154	R27	R27
E856	F794	L729	M663	G601	V539	G477	R409	D342	E279	E216	P155	R28	R28
D857	G795	L730	G664	E602	F540	G477	L410	R280	R279	L217	G156	A29	A29
M858	E796	E731	F665	V603	S541	V478	S411	L281	L281	V218	R157	L30	L30
P859	G797	R734	R666	A604	V542	V479	G416	G282	G282	Y158	Y158	Q31	Q31
H860	G798	L735	A667	K605	N543	T480	P415	L283	L283	I159	A160	A32	A32
L861	T799	R735	L668	V606	T544	D481	G416	R284	R284	R97	L98	D33	D33
P862	V800	D736	G669	D607	N545	E482	G417	L285	L285	L99	S161	Q34	Q34
D863	H801	L737	Q670	G608	L546	V483	L418	R350	S286	L100	I162	L100	L100
G864	R802	D738	M671	N609	I547	V484	T419	L351	G287	I101	I163	I101	I101
T865	T803	E739	V672	R610	P548	Y485	R420	R288	V226	H102	P164	R39	R39
H866	V804	E740	L673	I611	F549	M486	R420	R353	T289	K103	E40	E40	E40
V867	R805	G741	V674	V612	L550	T487	G424	G354	L290	D104	P166	M41	M41
D868	L806	V742	A675	V613	H552	A488	F425	V355	A291	T105	K167	V42	V42
R869	R807	V743	L676	R614	H552	T989	D426	R356	R292	G106	R68	G43	G43
L870	R808	R744	M677	Y615	A555	E490	V427	E357	F293	L107	G169	L44	L44
H871	G809	I745	P678	E616	A555	E491	R428	R358	F293	E232	P170	Q45	Q45
N872	D810	R745	F679	E616	A555	D492	D429	K359	G296	E233	W171	K109	K109
P873	P811	E748	D680	D617	N556	R493	V430	E359	E359	A234	I172	A46	A46
L874	G812	V749	G851	L620	L559	Y494	H431	S363	K299	L235	D173	F47	F47
G875	H813	K750	Y682	V621	M560	T495	R432	E364	D900	L236	D174	F48	F48
V876	E814	K751	M683	E622	G561	I496	T433	D365	E301	I237	L174	F49	F49
P877	L815	G752	F684	Y623	S562	A497	H434	S366	V302	R238	E175	E50	E50
S878	R819	L755	E685	P624	N563	Q498	Y435	F303	F303	L238	V176	F114	F114
H879	G818	L755	V689	L626	M564	A499	G436	T368	L304	T240	P178	L115	L115
R880	H820	R758	V690	R626	Q565	N500	R437	P369	F305	L241	H179	G116	G116
L881	E821	T759	S691	F628	T566	T501	I438	A370	L242	L242	H117	H117	H117
G882	V822	S760	E922	L629	Q567	P502	C439	A371	R243	G180	G180	I118	I118
Q883	V823	E761	R630	Y629	A568	L503	G439	L307	R244	V181	P119	P119	P119
O884	R824	K762	E934	R630	E504	E504	E442	V309	P244	V182	E57	E57	E57
L885	H824	K762	S631	P570	G505	G505	T443	Y309	G245	S183	M122	D58	D58
L886	V825	G763	L695	M632	L571	N506	P444	K374	D246	S184	E123	K59	K59
E887	Y826	E764	K696	Q633	L572	R507	E445	S375	P247	K185	D124	D58	D58
T888	S765	S765	R697	G634	R573	I508	G446	P377	K248	V186	G125	G62	G62
H889	Q829	E766	D698	T635	A574	A509	A447	L378	R250	K188	F127	F127	F127



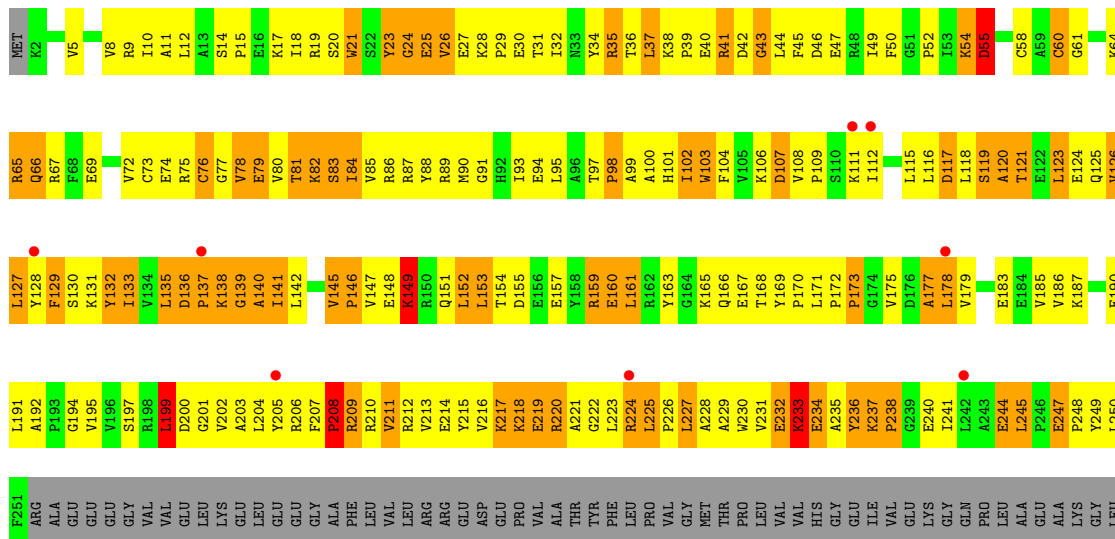
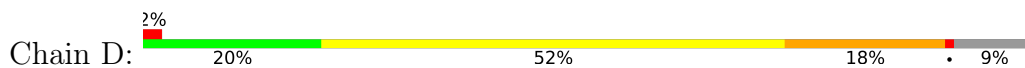


● Molecule 2: DNA-directed RNA polymerase beta chain





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



C1194	S1131	Y1070	M1010	T940	I880	E811	L751	V687	D624	E564	A501	V435	I371	LEU
Q1195	L1132	F1071	F1011	F941	L881	A812	S752	M688	Y625	I368	F502	E436	D372	ARG
R1197	R1133	I1072	E1012	T944	F882	L813	F754	L691	S626	I566	L503	V437	P373	MET
Y1198	L1134	S1073	E1013	R945	A883	A814	R754	E692	G627	I567	D504	D438	E374	PRO
G1199	R1135	H1075	N1014	S945	R884	H815	A755	E693	R628	R568	S505	L439	E375	ARG
V1200	R1137	G1076	Y1015	G946	R886	H816	Q756	E694	S629	N569	R508	V440	E376	GLN
C1201	A1138	A1077	F1017	T948	A887	E817	A757	V694	V630	E570	R509	R441	V377	VAL
K1202	D1139	L1078	N1018	T949	E888	R818	E758	I695	I631	K571	F509	R442	I378	ARG
K1203	I1140	G1079	L1020	G950	A889	G819	A759	H696	V632	R572	E510	V443	A379	ALA
C1204	E1141	G1080	F1020	R951	R890	R760	I761	K698	G633	N573	M511	V444	E380	ALA
Y1205	A1142	A1081	Y1021	D952	E891	V821	I762	G697	R634	L574	M512	R445	A381	GLN
G1206	G1143	A1082	V1022	D953	E892	M824	Q763	V699	P635	O575	M513	V446	E382	VAL
Y1207	L1144	D1083	M1023	A954	E893	A825	L764	V700	L637	E576	A516	V447	G383	GLU
D1208	Y1145	T1084	A1024	V955	R894	P826	A765	L702	K638	A577	V517	E448	V384	ALA
L1209	G1146	A1085	Q1025	V956	R895	I827	A766	L703	L639	V578	V518	V386	V386	GLU
S1210	R1147	L1086	S1026	P957	R896	R704	H767	M703	H640	D579	F519	R386	L387	GLU
M1211	V1148	R1087	G1027	E958	M897	K828	A705	A705	Q641	A580	L520	L452	L394	LEU
A1212	L1149	T1088	A1028	F959	E898	V829	N768	A706	G642	R587	L520	E459	V395	THR
R1213	A1150	A1089	R1029	K960	E899	A830	L769	P706	C642	O588	P521	A454	V396	LEU
P1214	R1151	G1090	G1030	L971	I900	R831	L770	T707	G643	A588	P522	R455	K397	PHE
V1215	E1152	Y1092	R1036	L972	Q906	L644	S771	L708	P645	P590	D523	R456	K398	VAL
S1216	V1153	Y1093	Q1037	R973	E907	L778	A779	A715	P646	N591	F529	G457	A399	LEU
I1217	E1154	L1094	L1038	R974	K908	R716	A779	L716	R646	T592	D531	L394	R399	LEU
G1218	V1155	T1095	G1039	E975	N909	Q717	F653	G723	R647	N593	G532	L458	V400	TRP
E1219	L1156	R1096	M1040	Q976	S910	F718	P594	P599	R648	P526	G533	E460	Y401	THR
A1220	R1157	K1097	L1041	A977	L911	I713	S782	N719	P655	O595	R534	L461	V396	LEU
V1221	R1159	L1098	R1042	L978	A918	R838	E776	L720	P656	S596	F535	L473	K397	PHE
G1222	L1160	Y1099	G1043	T984	D913	R839	L777	Q714	L657	P590	F536	L474	A398	LEU
I1223	E1161	D1100	L1044	R985	L914	E849	A779	A715	L658	N591	G539	E475	A399	LEU
V1224	E1162	Y1101	M1045	D986	V915	L850	I786	G724	K659	T597	D539	E476	V400	TRP
A1225	G1163	T1102	Q1046	R987	Y916	L851	I786	G724	K660	P599	G539	L477	Y401	THR
L1226	R1164	H1103	K1047	E988	Q917	V853	G788	S725	M661	L600	L540	L478	P402	GLU
I1227	Y1165	E1104	G1048	R989	A918	V858	L789	L728	E662	S602	N541	E479	E403	PRO
S1228	L1166	I1105	S1049	Y989	F919	D859	Y790	H729	E663	L603	D542	E480	E404	LYS
I1229	S1167	V1106	G1050	D990	L920	D859	Y791	H729	P668	T604	L543	E480	E408	ASP
G1230	M1168	V1107	E1051	Q991	R921	L860	I792	D605	P669	D605	Y544	A481	V409	ARG
E1231	D1169	R1108	T1052	I992	L922	Q861	T793	L731	R669	L606	R545	A482	V410	ARG
P1232	D1170	E1109	F1053	L993	G923	D862	Q794	V732	V670	L607	R546	P484	T411	VAL
G1233	Y1171	A1110	E1054	Q994	M924	V863	V795	C733	K671	S608	L547	S485	G412	GLN
T1234	H1172	D1111	S1055	L995	E925	V864	R796	E734	A672	G609	I548	R486	D413	PRO
L1235	L1173	C1112	P1056	N996	K926	T865	K797	A735	A673	R610	I549	R487	E409	HIS
G1236	L1174	G1113	V1057	V997	T927	V866	E798	Q611	R674	R611	R550	A487	R414	MET
T1237	I1175	T1114	F1058	L998	G923	D862	Q794	V732	V670	L607	R546	P484	V415	ASN
M1238	K1176	T1115	E1064	Q994	M924	V863	V795	C733	K671	S608	L547	S485	P417	VAL
R1239	A1177	M1116	V1055	L995	E925	V864	R796	E734	A672	G609	I548	R486	V420	VAL
F1240	E1178	Y1117	P1056	N996	K926	T865	K797	A735	A673	R610	I549	R487	L421	PRO
H1242	E1179	I1118	V1057	V997	T927	V866	E798	Q611	R674	R611	R550	A487	L421	GLU
T1243	E1182	V1120	R1058	T999	G928	D862	Q794	V732	V670	L607	R546	P484	A422	GLY
G1244	I1183	F1121	S1059	T999	R929	V868	K800	A738	M676	R613	N552	K490	G424	ALA
V1245	V1186	L1122	F1061	L1000	L930	M669	G801	D739	L677	F614	R553	K491	G425	ALA
A1247	P1187	F1123	R1062	K1002	D932	R872	A802	F740	E678	R615	L554	A492	K426	VAL
G1248	V1188	Q1124	E1063	V1003	A933	L873	G803	D741	R679	R493	K555	R493	V427	ALA
A1249	R1189	L1065	G1064	T1004	L934	E874	R681	G742	Q680	N617	K494	R494	K428	ALA
D1253	S1190	T1066	L1065	Q1005	K935	D744	F805	D744	D682	L618	L558	R495	S429	ALA
Q1254	P1191	E1127	T1066	A1006	Y936	S876	A807	M745	I683	G620	Q560	E497	D430	ALA
G1255	L1192	V1128	V1067	F1007	Y937	P877	T808	K621	K684	R622	G561	V498	V432	ALA
	T1193	F1068	L1068	F1008	G938	G878	P809	V749	D685	R622	A562	V499	G433	ALA
		E1069	E1069	K1009	F939	R879	E810	P750	E886	V623	P563	R500	R434	ALA

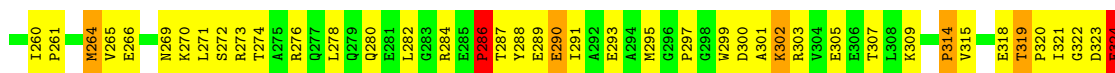


L1395	E1396	K1397	W1398	D1399	L1396	E1401	A1402	K1403	N1404	E1405	K1412	T1413	V1414	V1415	A1416	P1419	L1420	L1421	M1422	G1423	V1424	T1425	K1426	L1429	K1432	S1433	W1434	L1435	S1436	A1437	A1438	N1442	T1443	V1446	L1447	A1450	A1451	I1452	A1453	G1454	K1455	K1456	D1457	E1458	L1459	I1460	G1461	L1462	K1463	A1464	N1465	V1466										
D1331	P1332	H1333	Q1334	L1335	L1336	E1337	A1338	K1339	G1340	P1341	E1342	A1343	V1344	E1345	R1346	L1348	E1351	L1352	Q1353	K1354	V1355	Y1356	V1361	K1362	L1363	H1364	D1365	K1366	H1367	L1368	E1369	V1371	V1372	R1373	Q1374	M1375	M1376	L1377	Y1378	V1379	E1380	L1381	T1382	D1383	P1384	G1385	D1386	S1387	R1388	I1389	L1390	E1391	G1392	L1393	V1394							
K1269	A1270	K1271	A1272	V1273	L1274	S1275	E1276	D1277	D1278	G1279	V1280	V1281	R1282	L1283	E1284	L1286	E1287	L1288	K1289	S1228	L1290	S1291	F1292	V1293	V1294	E1295	G1299	L1299	L1236	T1237	M1238	R1239	L1300	K1301	E1302	L1303	K1304	L1305	P1306	K1307	E1308	A1309	L1310	L1311	L1312	V1313	K1314	L1315	G1316	D1317	Y1318	V1319	E1320	A1321	G1322	Q1323	F1324	L1325	L1326	A1329	I1330	
Y1207	D1208	L1209	S1210	M1211	A1212	R1213	P1214	L1215	I1216	I1217	G1218	E1219	A1220	V1221	G1222	I1223	V1224	A1225	A1226	Q1227	S1228	L1290	S1291	F1292	V1293	V1294	E1295	G1299	L1299	L1236	T1237	M1238	R1239	L1300	K1301	E1302	L1303	K1304	L1305	P1306	K1307	E1308	A1309	L1310	L1311	L1312	V1313	K1314	L1315	G1316	D1317	Y1318	V1319	E1320	A1321	G1322	Q1323	F1324	L1325	L1326	A1329	I1330
E1141	L1144	R1147	L1148	L1149	A1150	R1151	E1152	V1153	E1154	V1155	L1156	R1159	L1160	E1161	E1162	G1163	R1164	Y1165	Y1166	S1167	M1168	D1169	D1170	V1171	H1172	Y1173	L1174	L1175	K1176	A1177	E1178	E1179	E1182	I1183	Q1184	E1185	V1186	P1187	V1188	R1189	S1190	P1191	L1192	Q1195	T1196	R1197	Y1198	G1199	L1200	C1201	Q1202	K1203	C1204	L1207	I1140							
R1078	K1079	A1083	D1082	L1086	R1087	T1088	A1089	D1090	S1091	G1092	Y1093	L1094	T1095	R1096	K1097	L1098	V1099	D1100	L1101	L1102	H1103	E1104	I1105	V1106	L1107	R1108	E1109	A1110	D1111	C1112	G1113	T1114	T1115	M1116	Y1117	I1118	S1119	L1122	F1123	Q1124	P1125	D1126	E1127	V1128	T1129	R1130	S1131	L1132	L1135	T1136	C1137	A1138	D1139	I1140								
K1009	M1010	E1012	Y1015	F1016	F1017	M1018	P1019	L1020	Y1021	D1022	M1023	G1027	A1028	M1031	P1032	Q1033	R1034	L1035	Q1036	Q1037	L1038	C1039	G1040	A1041	R1042	R1043	L1044	M1045	Q1046	K1047	P1048	S1049	G1050	E1051	T1052	F1053	E1054	V1055	P1056	V1057	R1058	D1059	Q1060	L1061	R1062	E1063	G1064	T1066	E1067	L1068	E1069	Y1070	S1073									
T940	F941	S942	T943	T944	S945	G946	F947	T948	P949	C950	R951	D952	D953	A954	V955	P956	E958	E959	R960	Q961	Q962	Y963	L964	E965	E966	A967	D968	R969	K970	E975	Q976	A977	Y978	E979	L983	T984	D985	R986	E987	R988	D990	Q991	L992	L995	W996	T999	L1000	E1001	L1002	A1006	V1007	F1008										
R818	G819	E820	A821	A822	R823	M824	A825	P826	R827	K828	V829	A830	G831	R832	E833	T834	S835	V836	G837	R838	L839	K840	Y841	V842	F843	R844	P846	D847	E848	A849	L850	R851	A852	V853	T854	D855	G856	R857	D858	R859	L860	O861	D862	M863	V864	T865	Y866	P867	R868	R869	G870	E871	R872	L873	Y874	E875	P877	R878	R879			
I880	L881	F882	A883	R884	I885	V886	A887	E888	V889	R890	L891	D892	E893	K894	V895	A896	E898	L899	Q900	L901	L902	D903	V904	P905	Q906	R907	K908	N909	S910	L911	R912	D913	L914	V915	Y916	Q917	A918	F919	L920	R921	D922	G923	M924	E925	K926	T927	T865	A928	R929	L930	D932	R933	E811	L934	K935	Y936	Y937	G938	F939			
E754	A755	Q756	A757	E758	A759	E760	I761	Q762	M763	L764	S765	A766	H767	R768	L769	L770	S771	P772	E776	P777	L778	A779	F781	S782	R783	D784	L785	L786	L787	Y790	Y791	L792	T793	Q794	W795	R796	K797	E798	K799	K800	G801	L804	E805	F806	A807	T808	P809	E810	R811	H812	L813	A814	A815	H816	S752	E817						
G697	R628	S629	I665	I661	V632	V633	G634	P635	V699	L637	K638	L639	H640	Q641	A642	G643	L644	P645	K646	R647	M648	E651	L652	F653	K654	P655	F656	L657	L658	K659	K660	M661	E662	E663	K664	G665	I666	P668	N669	V670	K671	A672	A673	R674	R675	O676	M677	L677	E678	R679	Q680	R681	G620	K621	D682	L683	K684	D685	E686	V687		
A562	P563	E564	I565	I567	R568	M569	E570	K571	R572	M573	L574	Q575	E576	A577	V578	D579	L582	D583	M584	G585	R586	R587	P590	V591	T592	N593	P594	G595	R598	L600	E663	K664	G665	L603	T604	D605	I606	G609	K610	Q611	R612	R613	Q616	M617	L618	L619	G620	K621	D682	L683	K684	D685	E686	V687								





● Molecule 5: RNA polymerase sigma factor rpoD



## 4 Data and refinement statistics

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

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

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

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



## 5 Model quality

### 5.1 Standard geometry

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

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

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

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

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

There are no bond length outliers.

All (51) bond angle outliers are listed below:

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

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

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

There are no chirality outliers.

All (5) planarity outliers are listed below:

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

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	249	0
1	B	1806	0	1861	193	0
1	K	1806	0	1861	190	0
1	L	1806	0	1861	208	0
2	C	8829	0	8933	1143	0
2	M	8829	0	8933	1183	0
3	D	10975	0	11211	1725	0
3	N	10975	0	11210	1681	0
4	E	769	0	775	94	0
4	O	769	0	775	83	0
5	F	2793	0	2873	301	0
5	P	2793	0	2873	364	0
6	D	2	0	0	0	0
6	N	2	0	0	0	0

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

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

All (6832) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.21	1.20
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.06	1.16
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.02	1.16
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.22	1.15
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.27	1.15
4:E:51:LEU:HG	4:E:53:GLY:H	1.07	1.12
3:N:1144:LEU:HD22	3:N:1166:LEU:HD11	1.29	1.12
3:N:887:ALA:HB1	3:N:893:GLU:HG3	1.30	1.11
3:D:131:LYS:HA	3:D:456:MET:HG3	1.21	1.10
2:C:1015:LEU:HB3	2:C:1016:ILE:HD13	1.33	1.10
3:D:789:LEU:HD12	3:D:911:LEU:HD21	1.32	1.09
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.29	1.09
3:D:1331:ASP:HB3	3:D:1334:GLN:HE21	1.14	1.09
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.35	1.09
3:D:598:ARG:HH12	5:F:319:THR:HA	1.11	1.08
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.34	1.08
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.13	1.07
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.36	1.06
3:D:218:LYS:HZ1	3:D:370:ALA:HA	1.19	1.06
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.32	1.06
3:N:31:THR:HG22	3:N:32:ILE:HG13	1.36	1.06
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.37	1.06
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.38	1.05
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.36	1.05
3:D:798:GLU:HG2	3:D:799:LYS:H	1.19	1.05
3:D:138:LYS:H	3:D:138:LYS:HD2	1.18	1.05
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	1.87	1.04
3:D:119:SER:HB2	3:D:123:LEU:H	1.17	1.04
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.38	1.04
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.39	1.04
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	1.71	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:163:LEU:HD22	5:P:174:LEU:HG	1.38	1.04
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.14	1.04
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.23	1.04
2:C:443:THR:HG21	2:C:450:GLY:H	1.17	1.03
2:C:854:PRO:HB2	2:C:856:GLU:HG2	1.39	1.03
3:D:152:LEU:HD23	3:D:152:LEU:H	1.23	1.03
5:F:210:LEU:HA	5:F:213:ILE:HD12	1.37	1.03
2:C:738:ASP:OD2	2:C:744:ARG:HG2	1.58	1.03
3:D:808:THR:HB	3:D:809:PRO:HD3	1.34	1.03
5:F:269:ASN:HB3	5:F:273:ARG:HH21	1.19	1.03
3:D:237:LYS:HB3	3:D:238:PRO:HD3	1.40	1.02
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.40	1.02
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	1.41	1.02
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.41	1.02
3:N:1320:GLU:HG3	3:N:1323:GLN:HE21	1.24	1.02
3:D:542:ASP:O	3:D:546:ARG:HG2	1.58	1.02
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.18	1.02
3:N:217:LYS:HE3	3:N:217:LYS:H	1.23	1.02
2:C:410:ILE:HD11	2:C:455:LEU:HD23	1.40	1.02
1:L:59:GLU:HG3	1:L:60:ASP:H	1.25	1.02
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.24	1.01
3:D:770:LEU:HD23	3:D:777:PRO:HA	1.38	1.01
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.21	1.01
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.43	1.00
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	1.91	1.00
3:N:845:ASN:H	3:N:848:GLU:HG3	1.23	1.00
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.27	0.99
3:D:1304:LYS:HE2	3:D:1304:LYS:H	1.27	0.99
4:E:82:GLU:H	4:E:82:GLU:CD	1.64	0.99
2:M:30:LEU:HD22	2:M:118:ILE:HD12	1.39	0.99
4:O:54:LEU:HG	4:O:58:PRO:CG	1.92	0.99
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.27	0.99
3:N:1065:LEU:HD23	3:N:1065:LEU:O	1.60	0.99
3:D:119:SER:HB2	3:D:123:LEU:N	1.77	0.99
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.45	0.99
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.45	0.99
3:N:12:LEU:HB2	3:N:507:ASN:HD22	1.27	0.98
5:P:98:GLU:HA	5:P:101:GLU:OE2	1.63	0.98
2:C:897:LEU:HD13	2:C:921:ALA:HB2	1.45	0.98
2:C:577:PRO:HA	2:C:671:ASN:HD21	1.27	0.98
3:D:218:LYS:NZ	3:D:370:ALA:HA	1.78	0.98

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

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

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

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

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

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:609:GLY:HA3	3:D:614:PHE:H	1.48	0.77
3:D:937:TYR:HD1	3:D:937:TYR:H	1.33	0.77
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG21	2.20	0.77
3:N:709:HIS:NE2	3:N:711:LEU:HB2	1.99	0.77
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.66	0.77
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.15	0.77
2:M:795:GLY:O	2:M:796:GLU:HG2	1.85	0.77
3:N:387:LEU:HD21	5:P:97:GLU:OE2	1.85	0.77
3:N:1136:LYS:HB2	3:N:1139:ASP:OD1	1.83	0.77
3:N:1321:ALA:O	3:N:1339:LYS:HD3	1.84	0.77
2:C:627:ARG:HG3	2:C:628:PHE:H	1.49	0.77
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.00	0.77
5:P:95:THR:O	5:P:96:LEU:HD23	1.86	0.77
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.67	0.76
2:C:1032:PHE:O	3:D:620:GLY:HA2	1.84	0.76
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.67	0.76
5:F:102:LEU:O	5:F:106:VAL:HG23	1.85	0.76
2:M:56:GLU:H	2:M:64:LEU:HB3	1.50	0.76
2:M:1016:ILE:HD13	2:M:1016:ILE:N	1.98	0.76
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.66	0.76
1:B:152:PRO:HB2	1:B:155:LYS:HB2	1.67	0.76
3:D:525:ARG:N	3:D:526:PRO:HD3	1.98	0.76
3:N:840:LYS:HZ3	3:N:840:LYS:HB2	1.49	0.76
5:P:88:ILE:HD13	5:P:193:ARG:HD2	1.66	0.76
1:A:158:ILE:HD13	1:A:159:LYS:N	2.00	0.76
3:N:376:GLU:HB3	3:N:384:VAL:HG13	1.66	0.76
3:N:1042:ARG:HH12	3:N:1045:MET:CE	1.98	0.76
3:D:549:ASN:ND2	5:F:254:GLN:HE21	1.83	0.76
3:D:1155:VAL:HG13	3:D:1183:ILE:HD11	1.66	0.76
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.19	0.76
2:C:870:ILE:O	2:C:871:LEU:HD12	1.86	0.76
3:D:90:MET:HE2	3:D:519:VAL:H	1.49	0.76
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.10	0.76
3:D:1471:LEU:HD23	3:D:1482:ARG:NH1	2.01	0.76
4:O:51:LEU:HG	4:O:52:GLU:H	1.51	0.76
2:C:102:HIS:HE1	2:C:367:LEU:HD21	1.50	0.76
2:C:504:GLU:OE1	2:C:507:ARG:HD2	1.83	0.76
2:C:650:ARG:HD3	2:C:650:ARG:H	1.50	0.76
2:C:1099:VAL:HG12	3:D:10:ILE:HG12	1.66	0.76
3:D:131:LYS:HA	3:D:456:MET:CG	2.11	0.76
3:D:628:ARG:HG2	3:D:629:SER:H	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:714:GLN:HE22	3:D:735:ALA:CB	1.99	0.76
3:D:1304:LYS:HE2	3:D:1304:LYS:N	2.00	0.76
1:L:156:HIS:HD2	1:L:157:GLY:H	1.30	0.76
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.50	0.76
3:D:28:LYS:O	3:D:43:GLY:HA2	1.86	0.76
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.68	0.76
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.14	0.76
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.01	0.76
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.66	0.76
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.21	0.76
3:D:79:GLU:HG2	3:D:80:VAL:H	1.50	0.76
3:D:646:LYS:HG3	3:D:647:ARG:N	2.00	0.76
1:K:26:GLU:CB	1:K:27:PRO:HD2	2.16	0.76
1:K:219:ARG:NH1	1:K:220:GLU:N	2.33	0.76
2:M:798:GLY:C	2:M:799:ILE:HD13	2.07	0.76
3:D:112:ILE:HD11	3:D:124:GLU:HG2	1.66	0.76
3:D:724:GLN:O	3:D:724:GLN:HG2	1.85	0.76
3:D:868:TYR:CD1	3:D:869:MET:HG3	2.20	0.76
2:M:42:VAL:HG12	2:M:43:GLY:H	1.51	0.76
3:N:950:GLY:O	3:N:953:ASP:HB2	1.84	0.76
3:N:1183:ILE:HG22	3:N:1184:GLN:H	1.51	0.76
4:O:45:ARG:HH12	4:O:72:ARG:NH2	1.83	0.76
4:O:45:ARG:NH1	4:O:72:ARG:HH21	1.83	0.76
5:P:416:ARG:HD3	5:P:419:ARG:HG3	1.68	0.76
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.25	0.76
3:N:455:ARG:HE	3:N:463:GLN:HE21	1.33	0.76
2:C:578:VAL:HG11	2:C:991:GLN:OE1	1.85	0.75
3:D:425:GLY:O	3:D:427:VAL:HG23	1.85	0.75
2:M:622:GLU:HG2	2:M:624:PRO:HD3	1.68	0.75
3:N:1320:GLU:HG3	3:N:1323:GLN:NE2	1.98	0.75
4:O:22:VAL:HG11	4:O:68:LEU:HD21	1.68	0.75
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.21	0.75
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.51	0.75
3:D:234:GLU:CD	3:D:234:GLU:H	1.89	0.75
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.67	0.75
2:M:366:SER:O	2:M:371:LYS:HE3	1.86	0.75
3:D:711:LEU:HG	3:D:778:LEU:CD2	2.16	0.75
2:M:798:GLY:O	2:M:799:ILE:HD13	1.86	0.75
5:P:406:ARG:HA	5:P:409:LYS:HE2	1.68	0.75
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.51	0.75
1:A:46:SER:O	1:A:47:SER:HB2	1.86	0.75

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:139:GLY:HA3	3:D:452:ILE:HD12	1.70	0.74
2:M:545:ASN:HB3	2:M:583:LEU:HD12	1.67	0.74
2:M:1088:LEU:O	2:M:1091:GLU:HB2	1.88	0.74
3:N:231:VAL:HA	3:N:378:ILE:CG1	2.18	0.74
1:B:133:GLU:HG3	1:B:134:GLU:H	1.52	0.74
3:D:224:ARG:HD3	3:D:224:ARG:H	1.52	0.74
3:D:367:ILE:CD1	3:D:368:VAL:H	2.01	0.74
3:D:770:LEU:CD2	3:D:777:PRO:HA	2.18	0.74
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.36	0.74
3:N:438:ASP:HB3	3:N:443:VAL:HB	1.70	0.74
3:N:1167:SER:N	3:N:1170:ASP:OD2	2.16	0.74
1:A:152:PRO:HB3	1:A:154:GLU:OE1	1.88	0.73
2:C:79:PRO:HG2	2:C:82:GLU:HB2	1.70	0.73
3:D:1331:ASP:OD1	3:D:1334:GLN:HG3	1.88	0.73
1:K:56:VAL:HG21	1:K:79:ILE:HG22	1.70	0.73
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.23	0.73
5:P:362:SER:O	5:P:366:ALA:HB3	1.88	0.73
3:D:225:LEU:HD12	3:D:440:VAL:HG21	1.70	0.73
3:D:619:LEU:HG	3:D:619:LEU:O	1.88	0.73
2:M:516:ARG:CZ	3:N:1068:LEU:HD13	2.18	0.73
3:N:385:VAL:HB	3:N:387:LEU:HD11	1.70	0.73
5:P:79:ASP:HB3	5:P:80:PRO:HD3	1.68	0.73
2:C:884:GLN:HG2	2:C:885:ILE:HD13	1.70	0.73
3:D:1340:GLY:O	3:D:1343:ALA:HB3	1.87	0.73
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.70	0.73
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.68	0.73
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.24	0.73
2:C:869:VAL:HG22	2:C:870:ILE:H	1.54	0.73
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.03	0.73
3:D:601:ARG:HD3	3:D:613:ARG:NH2	2.03	0.73
3:D:616:GLN:CA	3:D:619:LEU:HB3	2.18	0.73
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.52	0.73
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.50	0.73
3:D:1376:MET:O	3:D:1378:TYR:N	2.18	0.73
2:M:838:LYS:HD3	2:M:846:LYS:HZ1	1.54	0.73
3:N:133:ILE:HG23	3:N:456:MET:SD	2.27	0.73
2:C:207:LEU:HD22	2:C:221:LEU:HD21	1.71	0.73
2:C:738:ASP:HB2	2:C:744:ARG:HB3	1.71	0.73
3:N:423:ASP:H	5:P:178:ARG:HH12	1.35	0.73
3:N:473:LEU:HD12	3:N:476:GLU:OE1	1.89	0.73
3:N:764:LEU:CG	3:N:765:SER:H	2.00	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.85	0.73
5:P:88:ILE:HD11	5:P:193:ARG:HB2	1.68	0.73
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.69	0.73
1:B:188:GLN:HG3	1:B:189:ARG:HD2	1.71	0.73
2:C:235:LEU:O	2:C:239:PHE:HB2	1.88	0.73
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.71	0.73
3:D:1130:ARG:HD2	3:D:1131:SER:H	1.54	0.73
5:F:287:THR:HG22	5:F:290:GLU:OE1	1.89	0.73
3:N:215:TYR:OH	5:P:101:GLU:HB2	1.89	0.73
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.24	0.73
2:C:63:GLY:HA3	2:C:103:LYS:HG3	1.69	0.73
2:C:562:SER:C	2:C:563:ASN:HD22	1.92	0.73
2:M:534:VAL:H	2:M:538:GLN:NE2	1.86	0.73
3:N:679:ARG:NH1	3:N:682:ASP:OD1	2.22	0.73
1:B:181:VAL:HG12	1:B:193:ASP:HB3	1.70	0.73
2:C:226:VAL:HG13	2:C:227:PHE:H	1.53	0.73
2:C:874:LEU:O	3:D:1029:ARG:HD2	1.89	0.73
2:C:1031:ARG:HD3	3:D:619:LEU:O	1.89	0.73
3:D:820:GLU:HB2	3:D:836:VAL:HG21	1.68	0.73
5:F:205:ARG:NE	5:F:251:ILE:HD13	2.03	0.73
5:F:234:LYS:HD2	5:F:236:SER:H	1.54	0.73
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.70	0.73
1:L:100:LEU:HD12	1:L:115:LEU:HD11	1.70	0.73
5:P:88:ILE:HD13	5:P:193:ARG:HH11	1.52	0.73
3:D:616:GLN:HA	3:D:619:LEU:CB	2.19	0.73
3:D:1109:GLU:CD	3:D:1110:ALA:N	2.41	0.73
2:M:565:GLN:O	2:M:567:GLN:N	2.20	0.73
2:M:630:ARG:HH21	2:M:707:ARG:N	1.87	0.73
2:C:769:PRO:HG2	3:D:65:ARG:HH12	1.51	0.73
3:D:423:ASP:OD1	5:F:175:HIS:CE1	2.42	0.73
3:D:598:ARG:NH1	5:F:320:PRO:HD3	2.04	0.73
3:D:1353:GLN:HB3	3:D:1357:ARG:CZ	2.19	0.73
2:M:901:TYR:HE2	2:M:917:LEU:CD1	2.02	0.73
3:N:601:ARG:HG2	3:N:606:ILE:HG13	1.68	0.73
5:P:169:GLU:CD	5:P:169:GLU:N	2.39	0.73
2:C:966:LEU:HD11	2:C:986:PRO:HG2	1.71	0.72
2:C:988:VAL:HG12	3:D:948:THR:OG1	1.88	0.72
3:D:679:ARG:HH22	3:D:681:ARG:CD	2.02	0.72
3:N:1066:THR:HG23	3:N:1069:GLU:HG3	1.71	0.72
5:P:416:ARG:NH1	5:P:419:ARG:HD2	2.04	0.72
2:C:593:ALA:HB1	2:C:659:PRO:CD	2.19	0.72

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:LEU:O	1:A:222:LEU:HD23	1.91	0.69
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.75	0.69
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.74	0.69
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.92	0.69
2:C:1115:LEU:HD22	3:D:88:TYR:CD1	2.28	0.69
3:D:382:GLU:O	3:D:384:VAL:HG23	1.92	0.69
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.27	0.69
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.07	0.69
4:E:40:LEU:HD22	4:E:45:ARG:NH1	2.06	0.69
3:N:699:VAL:H	3:N:756:GLN:HE21	1.38	0.69
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.74	0.69
4:O:51:LEU:HG	4:O:52:GLU:N	2.07	0.69
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.58	0.69
3:D:228:ALA:O	3:D:231:VAL:HG22	1.92	0.69
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.56	0.69
3:D:714:GLN:HE22	3:D:735:ALA:HB1	1.57	0.69
3:D:910:SER:O	3:D:913:ASP:HB2	1.92	0.69
3:D:994:GLN:HG3	3:D:998:GLU:CD	2.12	0.69
3:D:1139:ASP:OD2	3:D:1357:ARG:HD3	1.92	0.69
2:M:722:ILE:HD12	2:M:823:VAL:HG21	1.75	0.69
3:N:423:ASP:OD2	5:P:178:ARG:HG3	1.92	0.69
3:N:1155:VAL:HG22	3:N:1183:ILE:HD11	1.72	0.69
2:C:42:VAL:HG12	2:C:43:GLY:H	1.57	0.69
2:C:265:ARG:HG3	2:C:288:ARG:HG3	1.75	0.69
2:C:420:ARG:HD2	2:C:420:ARG:N	2.05	0.69
2:C:842:ARG:HH21	2:C:887:GLU:CD	1.96	0.69
3:D:205:TYR:HA	3:D:393:ILE:HD13	1.75	0.69
3:D:457:GLY:HA3	3:D:568:ARG:HH12	1.55	0.69
4:E:48:MET:HG2	4:E:49:GLN:H	1.57	0.69
1:L:111:ALA:HB2	1:L:127:LEU:HB3	1.75	0.69
3:N:486:ARG:O	3:N:489:ARG:HG2	1.92	0.69
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.92	0.69
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.02	0.69
2:C:139:GLN:HA	2:C:411:SER:O	1.92	0.69
2:C:622:GLU:O	2:C:624:PRO:HD3	1.91	0.69
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	1.75	0.69
5:F:209:PHE:O	5:F:213:ILE:HG13	1.93	0.69
5:F:363:GLU:O	5:F:367:MET:HG2	1.92	0.69
1:L:44:LEU:HB3	1:L:177:VAL:HG21	1.75	0.69
3:N:461:ILE:O	3:N:465:LEU:HD12	1.91	0.69
2:C:86:LYS:HG3	2:C:813:VAL:HG12	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:612:VAL:HA	2:C:621:VAL:O	1.93	0.69
2:C:848:VAL:HB	3:D:740:PHE:O	1.92	0.69
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.92	0.69
2:M:137:VAL:O	2:M:391:LEU:HG	1.92	0.69
3:N:32:ILE:HG22	3:N:33:ASN:H	1.56	0.69
3:N:105:VAL:HG22	3:N:112:ILE:HG12	1.73	0.69
3:N:1258:ARG:HG3	3:N:1258:ARG:NH1	2.05	0.69
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.07	0.69
1:A:55:SER:HB2	1:A:158:ILE:HG23	1.75	0.69
2:C:326:ASP:HA	2:C:331:ARG:HD2	1.74	0.69
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.75	0.69
3:D:474:GLU:HG3	3:D:496:LEU:HD11	1.73	0.69
3:D:1346:ARG:NH2	3:D:1369:GLU:OE2	2.26	0.69
5:F:152:ASP:CG	5:F:153:PRO:HD3	2.13	0.69
1:K:219:ARG:HH22	1:K:220:GLU:HG3	1.58	0.69
2:M:253:ALA:O	2:M:256:TYR:HB2	1.93	0.69
2:M:692:GLU:O	2:M:696:LYS:HG3	1.93	0.69
2:M:1003:ASP:O	2:M:1005:MET:N	2.26	0.69
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.73	0.69
3:N:225:LEU:HD22	3:N:440:VAL:HG21	1.75	0.69
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.22	0.69
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.58	0.69
2:M:432:ARG:NH2	3:N:1047:LYS:HZ2	1.90	0.69
2:M:676:ILE:O	2:M:676:ILE:HG23	1.92	0.69
2:M:946:ARG:NH1	2:M:984:GLU:OE2	2.26	0.69
3:N:135:LEU:HD21	3:N:452:ILE:HD11	1.74	0.69
3:N:546:ARG:NH1	3:N:550:ARG:NH2	2.39	0.69
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.75	0.69
1:B:201:THR:HG22	1:B:203:GLY:H	1.58	0.69
3:D:368:VAL:HG12	3:D:369:ALA:N	2.08	0.69
3:D:1147:ARG:NH1	3:D:1190:SER:HB2	2.07	0.69
5:F:300:ASP:OD2	5:F:302:LYS:HB3	1.93	0.69
1:L:74:ASP:O	1:L:78:ILE:HG13	1.93	0.69
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.56	0.69
3:N:699:VAL:HG12	3:N:717:GLN:HG2	1.74	0.69
3:N:794:GLN:NE2	3:N:795:VAL:N	2.41	0.69
3:N:1047:LYS:HD2	3:N:1051:GLU:O	1.93	0.69
2:C:290:LEU:HD23	2:C:290:LEU:H	1.58	0.68
2:C:636:ALA:O	2:C:637:LEU:HD23	1.93	0.68
3:D:245:LEU:HD21	3:D:249:TYR:HB2	1.74	0.68
3:D:711:LEU:O	3:D:714:GLN:NE2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.74	0.68
2:M:86:LYS:HB3	2:M:88:LEU:HG	1.74	0.68
2:M:518:LYS:HG3	2:M:518:LYS:O	1.92	0.68
3:N:15:PRO:CB	3:N:19:ARG:HH12	2.07	0.68
1:A:14:ARG:O	1:A:21:GLY:HA2	1.92	0.68
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.23	0.68
3:D:179:VAL:HG11	3:D:217:LYS:HZ1	1.58	0.68
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.13	0.68
1:L:201:THR:HG22	1:L:203:GLY:H	1.56	0.68
2:M:252:LYS:H	2:M:252:LYS:HD2	1.56	0.68
2:M:340:MET:C	2:M:340:MET:SD	2.71	0.68
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.74	0.68
3:N:218:LYS:HB3	3:N:373:PRO:HA	1.75	0.68
4:O:40:LEU:HB2	4:O:45:ARG:CD	2.23	0.68
1:A:50:GLY:O	1:A:51:THR:HG23	1.94	0.68
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.28	0.68
3:D:244:GLU:OE1	3:D:366:LYS:HG3	1.93	0.68
3:D:1175:ILE:O	3:D:1179:GLU:HG3	1.94	0.68
4:E:17:TYR:O	4:E:21:VAL:HG23	1.93	0.68
2:M:285:LEU:HD13	2:M:302:VAL:HG23	1.76	0.68
3:N:586:ARG:O	3:N:587:ARG:HG2	1.92	0.68
2:C:333:ILE:CD1	2:C:467:ILE:HD11	2.24	0.68
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.74	0.68
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.58	0.68
3:D:807:ALA:HB2	3:D:833:GLU:HB3	1.75	0.68
3:D:1344:VAL:O	3:D:1348:LEU:HD13	1.93	0.68
1:K:59:GLU:HG3	1:K:60:ASP:H	1.58	0.68
1:L:26:GLU:HG2	1:L:27:PRO:HA	1.75	0.68
2:M:1092:LEU:O	2:M:1095:LEU:O	2.12	0.68
3:N:34:TYR:HE2	5:P:260:ILE:HG13	1.58	0.68
3:N:224:ARG:HD2	3:N:224:ARG:O	1.93	0.68
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.07	0.68
3:N:660:LYS:HG2	3:N:694:VAL:HG22	1.74	0.68
3:N:769:LEU:HD23	3:N:927:THR:HG22	1.75	0.68
3:N:1223:ILE:O	3:N:1227:GLN:HG3	1.94	0.68
1:B:19:GLU:HG3	1:B:201:THR:O	1.94	0.68
2:C:129:ILE:HG12	2:C:386:PHE:O	1.93	0.68
3:D:81:THR:O	3:D:82:LYS:O	2.12	0.68
3:D:1076:GLY:CA	3:D:1079:LYS:HG2	2.22	0.68
2:M:139:GLN:O	2:M:334:ARG:HG2	1.92	0.68
2:M:964:LYS:O	2:M:968:LEU:HG	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1004:LYS:HE3	2:M:1027:PHE:HZ	1.58	0.68
3:N:444:VAL:O	3:N:446:VAL:HG23	1.94	0.68
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.75	0.68
5:P:135:ILE:HD11	5:P:178:ARG:HD2	1.74	0.68
5:P:222:ARG:HD2	5:P:242:TRP:HE3	1.59	0.68
1:A:30:ARG:HG3	2:C:938:LYS:NZ	2.08	0.68
1:A:88:ARG:HH12	1:A:90:LEU:CD2	2.07	0.68
3:D:247:GLU:H	3:D:248:PRO:HD2	1.59	0.68
3:D:539:ASP:HB2	5:F:318:GLU:OE2	1.94	0.68
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.94	0.68
2:M:1047:HIS:O	2:M:1050:GLN:N	2.27	0.68
2:C:1024:LYS:NZ	2:C:1024:LYS:HB2	2.09	0.68
3:D:172:PRO:HD2	3:D:389:GLU:O	1.94	0.68
5:F:181:GLU:OE2	5:F:184:ARG:HD3	1.94	0.68
5:F:405:LEU:O	5:F:408:LEU:HB3	1.92	0.68
2:M:193:LEU:HG	2:M:307:LEU:HD22	1.76	0.68
2:M:1051:GLU:OE2	3:N:752:SER:HB3	1.94	0.68
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.76	0.68
3:N:1144:LEU:HD21	3:N:1186:VAL:HG11	1.74	0.68
3:N:1185:GLU:O	3:N:1186:VAL:HG23	1.93	0.68
1:B:36:LEU:O	1:B:39:PRO:HD2	1.94	0.68
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.75	0.68
1:L:56:VAL:HG21	1:L:79:ILE:HG22	1.76	0.68
3:N:1320:GLU:CG	3:N:1323:GLN:HE21	2.04	0.68
5:P:389:PHE:HD2	5:P:397:ILE:HD11	1.56	0.68
1:B:77:GLU:HB2	3:D:872:ARG:HH22	1.58	0.68
2:C:188:LYS:C	2:C:188:LYS:HE2	2.14	0.68
2:C:574:ALA:O	2:C:575:GLN:HG3	1.94	0.68
2:C:724:ARG:HB2	2:C:740:GLU:HA	1.76	0.68
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.76	0.68
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.76	0.68
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.75	0.68
2:M:640:ARG:HB3	2:M:640:ARG:HH11	1.58	0.68
3:N:172:PRO:HB3	3:N:178:LEU:HD13	1.76	0.68
3:N:422:ALA:HB1	5:P:178:ARG:HH22	1.58	0.68
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.75	0.68
1:A:13:VAL:HG12	1:A:14:ARG:N	2.09	0.68
1:B:7:LYS:HE3	1:B:186:LEU:HD22	1.73	0.68
2:M:690:ILE:O	2:M:852:ILE:HA	1.94	0.68
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.58	0.68
3:N:1078:ARG:NH1	3:N:1078:ARG:HG3	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.29	0.67
2:C:9:ILE:HG13	2:C:9:ILE:O	1.95	0.67
2:C:490:GLU:HG3	2:C:493:ARG:HD2	1.75	0.67
3:D:704:ARG:CG	3:D:705:ALA:N	2.56	0.67
3:D:899:LEU:H	3:D:899:LEU:HD13	1.59	0.67
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.75	0.67
1:K:27:PRO:HG3	1:K:186:LEU:HD22	1.75	0.67
2:M:111:ASP:HB3	2:M:112:GLU:OE2	1.93	0.67
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.74	0.67
3:N:12:LEU:H	3:N:507:ASN:HD21	1.41	0.67
3:N:1135:ARG:O	3:N:1136:LYS:O	2.12	0.67
5:P:94:LEU:HB2	5:P:98:GLU:OE1	1.94	0.67
2:C:158:TYR:HE1	2:C:314:THR:HA	1.59	0.67
2:C:227:PHE:HA	2:C:230:ARG:NE	2.09	0.67
3:D:470:LEU:HD12	3:D:508:ARG:HH12	1.57	0.67
3:D:637:LEU:HD11	3:D:642:CYS:CA	2.23	0.67
3:D:955:VAL:HG11	3:D:1015:TYR:CE2	2.28	0.67
3:D:1092:GLY:O	3:D:1096:ARG:HB2	1.93	0.67
2:M:215:GLY:O	2:M:218:VAL:HG23	1.94	0.67
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.94	0.67
3:N:1078:ARG:HG3	3:N:1078:ARG:HH11	1.58	0.67
3:N:1227:GLN:O	3:N:1229:ILE:N	2.22	0.67
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.76	0.67
2:C:670:GLN:HG2	2:C:699:PHE:CE2	2.30	0.67
2:C:802:ARG:NH1	2:C:804:VAL:HG22	2.10	0.67
1:K:73:GLU:OE1	1:K:130:ALA:HA	1.94	0.67
2:M:30:LEU:O	2:M:30:LEU:HD12	1.94	0.67
3:N:39:PRO:HB3	3:N:45:PHE:O	1.94	0.67
3:N:654:LYS:O	3:N:657:LEU:N	2.27	0.67
4:O:23:VAL:HG21	4:O:65:MET:HG2	1.75	0.67
5:P:376:ILE:HG22	5:P:377:ASP:H	1.60	0.67
2:C:281:LEU:HD23	2:C:281:LEU:H	1.59	0.67
2:C:1085:PHE:O	2:C:1088:LEU:N	2.28	0.67
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.08	0.67
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.60	0.67
3:N:1031:ASN:HB3	3:N:1034:GLN:CB	2.23	0.67
4:O:39:VAL:HG22	4:O:67:GLU:OE2	1.95	0.67
5:P:396:ARG:HA	5:P:399:GLN:HB2	1.77	0.67
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.60	0.67
2:C:89:THR:O	2:C:91:GLN:HG3	1.93	0.67
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:329:GLY:HA2	2:C:488:ALA:HB3	1.77	0.67
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.76	0.67
3:D:994:GLN:HG3	3:D:998:GLU:OE1	1.94	0.67
2:M:352:ALA:O	2:M:356:ARG:HG3	1.95	0.67
3:N:232:GLU:OE2	3:N:234:GLU:HB2	1.93	0.67
3:N:736:PHE:O	3:N:737:ASN:C	2.29	0.67
3:N:794:GLN:HE21	3:N:794:GLN:C	1.96	0.67
1:A:195:LEU:HD12	1:A:196:THR:H	1.58	0.67
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.76	0.67
3:D:231:VAL:HA	3:D:378:ILE:CD1	2.24	0.67
3:D:1310:ARG:HG3	3:D:1327:ARG:HB2	1.74	0.67
3:D:1403:LEU:O	3:D:1407:LEU:HB2	1.95	0.67
5:F:319:THR:O	5:F:329:TYR:HB2	1.94	0.67
1:K:143:ARG:CD	1:K:158:ILE:HG21	2.25	0.67
1:L:117:VAL:HB	1:L:120:VAL:HB	1.75	0.67
3:N:486:ARG:HA	3:N:489:ARG:CD	2.25	0.67
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.76	0.67
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.75	0.67
5:P:181:GLU:CD	5:P:185:GLN:HE21	1.98	0.67
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.24	0.67
2:C:1094:ALA:HB1	3:D:603:LEU:HD22	1.76	0.67
3:D:789:LEU:HD12	3:D:911:LEU:CD2	2.20	0.67
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.04	0.67
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.24	0.67
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.30	0.67
2:C:115:LEU:HA	2:C:375:SER:OG	1.93	0.67
3:D:138:LYS:HD2	3:D:138:LYS:N	2.03	0.67
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.95	0.67
2:M:441:VAL:O	2:M:559:LEU:HD13	1.95	0.67
2:M:458:TYR:HB3	2:M:470:PRO:HG2	1.77	0.67
2:M:486:MET:HE3	2:M:491:GLU:HA	1.77	0.67
2:M:834:GLN:O	2:M:837:ASP:HB2	1.95	0.67
2:C:443:THR:HG21	2:C:450:GLY:N	2.01	0.67
3:D:1171:VAL:O	3:D:1175:ILE:HG13	1.95	0.67
5:F:200:LYS:HD2	5:F:209:PHE:HZ	1.59	0.67
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.25	0.67
1:L:59:GLU:HG3	1:L:60:ASP:N	2.04	0.67
3:N:569:ASN:HD21	5:P:80:PRO:HG3	1.60	0.67
3:N:1437:ALA:O	3:N:1446:VAL:HG21	1.93	0.67
5:P:137:GLY:HA3	5:P:141:VAL:HG21	1.75	0.67
3:D:194:GLY:N	3:D:206:ARG:HA	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1074:SER:O	3:D:1077:ALA:N	2.27	0.67
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.10	0.67
3:N:218:LYS:HB2	3:N:218:LYS:NZ	2.10	0.67
3:N:1031:ASN:CB	3:N:1034:GLN:HB2	2.22	0.67
3:N:1148:VAL:CG1	3:N:1189:ARG:HG3	2.25	0.67
2:C:444:PRO:O	2:C:449:ILE:HG12	1.96	0.66
2:C:480:THR:HG22	2:C:482:GLU:N	2.06	0.66
3:D:827:ILE:HG23	3:D:837:GLY:HA3	1.77	0.66
2:M:682:TYR:CE1	2:M:851:LYS:HD2	2.30	0.66
2:M:953:VAL:HA	2:M:965:GLU:CD	2.15	0.66
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.07	0.66
5:F:200:LYS:HD2	5:F:209:PHE:CZ	2.29	0.66
2:M:397:GLU:HG3	2:M:632:ASN:H	1.60	0.66
3:N:481:MET:O	3:N:489:ARG:HB2	1.95	0.66
3:N:764:LEU:HG	3:N:765:SER:N	2.08	0.66
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.76	0.66
3:D:177:ALA:C	3:D:199:LEU:HD13	2.14	0.66
1:K:18:ARG:HH22	1:K:88:ARG:NH2	1.91	0.66
2:M:1043:TYR:C	2:M:1045:ALA:H	1.98	0.66
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.77	0.66
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.31	0.66
3:N:1295:GLU:CB	3:N:1300:SER:HA	2.25	0.66
3:D:1225:ALA:O	3:D:1228:SER:OG	2.13	0.66
3:D:1424:VAL:HG13	3:D:1425:THR:N	2.10	0.66
5:F:151:LEU:HG	5:F:155:THR:OG1	1.95	0.66
1:K:203:GLY:O	1:K:204:SER:C	2.32	0.66
1:L:133:GLU:CG	1:L:134:GLU:H	2.07	0.66
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.78	0.66
2:M:838:LYS:O	2:M:838:LYS:HG3	1.94	0.66
3:N:1171:VAL:O	3:N:1175:ILE:HG13	1.96	0.66
3:N:1492:LEU:O	3:N:1492:LEU:HD13	1.95	0.66
1:A:154:GLU:H	1:A:154:GLU:CD	1.97	0.66
2:C:19:THR:HG22	2:C:23:VAL:HG23	1.77	0.66
3:D:1154:GLU:HG3	3:D:1159:ARG:NH1	2.10	0.66
3:D:1412:LYS:HG3	3:D:1414:PRO:HD3	1.78	0.66
2:M:579:VAL:O	2:M:579:VAL:HG22	1.95	0.66
2:M:1071:ILE:O	3:N:659:LYS:HD3	1.96	0.66
3:N:478:LEU:HD23	3:N:1388:ARG:HH12	1.59	0.66
3:N:845:ASN:N	3:N:848:GLU:HG3	2.04	0.66
5:P:368:VAL:O	5:P:371:LEU:HB2	1.96	0.66
1:A:41:ARG:HA	1:A:177:VAL:HG11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:THR:HG22	1:A:146:ARG:HA	1.78	0.66
2:C:552:HIS:CE1	3:D:1062:ARG:O	2.49	0.66
3:D:135:LEU:HD11	3:D:452:ILE:HD11	1.78	0.66
3:D:377:VAL:CG1	3:D:382:GLU:HG2	2.25	0.66
3:D:679:ARG:NH2	3:D:681:ARG:HG2	2.11	0.66
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.78	0.66
3:D:897:TRP:CH2	3:D:902:LEU:HD21	2.31	0.66
5:F:367:MET:O	5:F:371:LEU:HG	1.95	0.66
5:F:393:THR:O	5:F:397:ILE:HG13	1.96	0.66
1:K:219:ARG:HB3	1:K:219:ARG:NH1	2.11	0.66
3:N:777:PRO:HG2	3:N:915:VAL:HB	1.76	0.66
3:N:1258:ARG:O	3:N:1262:LEU:HD13	1.95	0.66
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.29	0.66
2:M:1032:PHE:HB2	3:N:623:VAL:HG23	1.78	0.66
3:N:976:GLN:HA	3:N:979:GLU:OE1	1.96	0.66
3:N:1087:ARG:CZ	3:N:1238:MET:HG3	2.25	0.66
5:P:205:ARG:HB3	5:P:251:ILE:HD13	1.76	0.66
2:C:290:LEU:HD22	2:C:302:VAL:HG21	1.78	0.66
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.78	0.66
3:D:225:LEU:H	3:D:225:LEU:HD22	1.61	0.66
3:D:404:GLU:HB3	3:D:414:ARG:NE	2.10	0.66
3:D:756:GLN:O	3:D:760:ARG:HG2	1.96	0.66
3:D:907:GLU:HG3	3:D:1025:GLN:O	1.95	0.66
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.78	0.66
3:D:1475:GLY:C	3:D:1477:GLY:H	1.98	0.66
5:F:352:GLU:O	5:F:356:LYS:HG3	1.96	0.66
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.77	0.66
3:N:955:VAL:HB	3:N:1011:PHE:CE1	2.30	0.66
3:N:1015:TYR:O	3:N:1017:PHE:N	2.28	0.66
2:C:480:THR:HG22	2:C:481:ASP:N	2.10	0.66
2:C:572:ILE:HD13	2:C:701:THR:HB	1.78	0.66
2:C:988:VAL:HG11	3:D:949:ILE:O	1.96	0.66
2:C:1014:SER:OG	5:F:331:ASP:HA	1.95	0.66
3:D:546:ARG:CZ	3:D:550:ARG:HH22	2.09	0.66
3:D:694:VAL:O	3:D:694:VAL:HG12	1.94	0.66
3:D:715:ALA:O	3:D:716:PHE:CG	2.49	0.66
3:D:1192:LEU:HD22	3:D:1345:GLU:HB3	1.76	0.66
1:K:176:ARG:NH2	2:M:865:THR:HB	2.11	0.66
2:M:578:VAL:N	2:M:671:ASN:HD21	1.94	0.66
2:M:700:TYR:CB	2:M:833:LEU:HD22	2.26	0.66
3:N:426:LYS:HB3	5:P:134:LYS:O	1.96	0.66

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.11	0.65
2:M:1109:VAL:HG13	3:N:3:LYS:HG2	1.79	0.65
3:N:525:ARG:N	3:N:526:PRO:HD3	2.12	0.65
3:N:598:ARG:NH2	5:P:318:GLU:HG3	2.12	0.65
3:N:733:CYS:SG	3:N:738:ALA:O	2.54	0.65
5:P:196:VAL:HG22	5:P:213:ILE:HD13	1.77	0.65
5:P:361:LEU:HD11	5:P:408:LEU:HD12	1.78	0.65
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.60	0.65
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.78	0.65
3:N:30:GLU:HG3	3:N:41:ARG:NE	2.10	0.65
3:N:427:VAL:HB	3:N:435:VAL:CB	2.26	0.65
2:C:403:SER:HB2	2:C:407:LYS:HZ3	1.61	0.65
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.78	0.65
3:D:925:GLU:OE1	4:E:6:ILE:HG22	1.96	0.65
5:F:154:LYS:O	5:F:158:GLU:HB2	1.95	0.65
1:L:59:GLU:OE1	1:L:138:LEU:HA	1.97	0.65
2:M:676:ILE:HG22	2:M:988:VAL:HG13	1.79	0.65
3:N:106:LYS:HB3	3:N:586:ARG:HD3	1.78	0.65
3:N:1465:ASN:ND2	3:N:1473:PRO:HG3	2.12	0.65
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.09	0.65
5:P:160:ASP:O	5:P:164:LYS:HG3	1.97	0.65
1:B:194:LYS:O	1:B:194:LYS:HG2	1.95	0.65
3:D:223:LEU:N	3:D:365:ASP:HB2	2.12	0.65
3:D:907:GLU:CG	3:D:1027:GLY:N	2.55	0.65
5:F:120:THR:HG21	5:F:122:LEU:HD22	1.79	0.65
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.78	0.65
2:M:495:THR:HG23	2:M:517:ARG:HE	1.61	0.65
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.77	0.65
4:O:41:GLU:H	4:O:42:PRO:HD2	1.61	0.65
5:P:105:LYS:HB3	5:P:105:LYS:HZ3	1.62	0.65
5:P:115:LYS:O	5:P:118:GLU:HB3	1.97	0.65
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.79	0.65
2:C:1016:ILE:H	2:C:1016:ILE:CD1	1.79	0.65
3:D:493:ARG:HH21	3:D:1389:LEU:HD21	1.61	0.65
3:D:1478:SER:O	3:D:1482:ARG:N	2.29	0.65
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.60	0.65
2:M:376:ARG:NH2	2:M:379:GLU:HG2	2.11	0.65
3:N:828:LYS:HD2	3:N:862:ASP:OD2	1.97	0.65
1:A:124:ASN:N	1:A:125:PRO:HD3	2.12	0.65
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.11	0.65
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:39:PRO:HB3	3:D:45:PHE:O	1.97	0.65
3:D:228:ALA:HA	3:D:231:VAL:HG13	1.77	0.65
4:E:51:LEU:CG	4:E:53:GLY:H	1.97	0.65
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.27	0.65
2:M:1048:THR:HG23	3:N:750:PRO:HB3	1.78	0.65
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.79	0.65
3:N:112:ILE:HG22	3:N:512:MET:SD	2.37	0.65
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.27	0.65
3:N:486:ARG:HH21	3:N:489:ARG:NE	1.94	0.65
3:N:604:THR:C	3:N:606:ILE:H	1.98	0.65
2:C:288:ARG:NE	2:C:288:ARG:HA	2.11	0.65
2:C:577:PRO:HA	2:C:671:ASN:ND2	2.09	0.65
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.32	0.65
3:D:40:GLU:O	3:D:41:ARG:O	2.15	0.65
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.78	0.65
3:D:225:LEU:HB2	3:D:227:LEU:HD23	1.78	0.65
3:D:491:LYS:HD3	3:D:492:ALA:N	2.11	0.65
3:D:828:LYS:HD3	3:D:828:LYS:N	2.11	0.65
5:F:386:VAL:HG13	5:F:387:GLY:N	2.12	0.65
1:K:88:ARG:HD3	1:K:89:PHE:O	1.97	0.65
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.26	0.65
2:M:137:VAL:CG2	2:M:393:GLN:HE22	2.08	0.65
2:M:226:VAL:HG13	2:M:227:PHE:H	1.62	0.65
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.79	0.65
3:N:371:ILE:HD12	3:N:372:ASP:N	2.12	0.65
3:N:1275:SER:HB2	3:N:1325:LEU:HD11	1.79	0.65
2:C:317:VAL:HG13	2:C:319:GLY:O	1.96	0.64
2:C:493:ARG:O	2:C:494:TYR:CD2	2.50	0.64
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.27	0.64
2:C:841:ASN:C	2:C:841:ASN:ND2	2.50	0.64
3:D:563:PRO:HB2	5:F:189:GLU:HG2	1.79	0.64
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.79	0.64
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.12	0.64
3:D:1465:ASN:HD21	3:D:1470:ARG:NH1	1.95	0.64
2:M:838:LYS:CD	2:M:846:LYS:HZ1	2.09	0.64
2:M:841:ASN:CG	2:M:843:HIS:H	2.00	0.64
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.12	0.64
3:N:629:SER:CB	3:N:726:ILE:HG13	2.27	0.64
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.79	0.64
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.61	0.64
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:916:TYR:C	3:D:916:TYR:CD2	2.71	0.64
3:D:970:LYS:HA	3:D:973:GLN:HE21	1.62	0.64
2:M:52:PHE:CE2	2:M:98:LEU:HD21	2.33	0.64
2:M:441:VAL:HG11	2:M:544:THR:HG21	1.78	0.64
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.78	0.64
3:N:820:GLU:HA	3:N:825:ALA:O	1.97	0.64
2:C:766:GLU:CD	3:D:54:LYS:HD2	2.18	0.64
3:D:733:CYS:HG	3:D:740:PHE:HZ	1.42	0.64
3:D:1207:TYR:H	3:D:1366:LYS:NZ	1.89	0.64
1:L:206:THR:HG22	1:L:209:GLU:CD	2.16	0.64
2:M:511:GLU:O	2:M:526:PRO:HD3	1.97	0.64
3:N:569:ASN:ND2	3:N:572:ARG:NH1	2.45	0.64
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.62	0.64
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.77	0.64
2:C:1003:ASP:HA	3:D:744:GLN:NE2	2.11	0.64
3:D:441:ARG:O	3:D:443:VAL:HG23	1.97	0.64
3:D:459:GLU:O	3:D:463:GLN:HG2	1.96	0.64
3:D:502:PHE:CE2	3:D:509:PRO:HB3	2.31	0.64
3:D:1130:ARG:HH21	3:D:1132:LEU:HG	1.62	0.64
1:K:38:ASN:O	1:K:39:PRO:C	2.34	0.64
3:N:58:CYS:SG	3:N:59:ALA:N	2.70	0.64
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.79	0.64
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.79	0.64
3:D:932:ASP:O	3:D:935:LYS:N	2.30	0.64
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.11	0.64
3:D:1292:VAL:O	3:D:1303:TYR:HB2	1.98	0.64
3:D:1292:VAL:CG1	3:D:1325:LEU:HD21	2.26	0.64
4:E:45:ARG:HH22	4:E:72:ARG:HH21	1.45	0.64
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.79	0.64
2:M:839:LEU:HD21	2:M:849:VAL:HG22	1.77	0.64
3:N:237:LYS:HB3	3:N:238:PRO:HD3	1.80	0.64
3:N:629:SER:HB3	3:N:726:ILE:HG13	1.79	0.64
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	1.98	0.64
5:P:394:ARG:HB2	5:P:394:ARG:HH11	1.61	0.64
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.62	0.64
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	1.97	0.64
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.80	0.64
3:D:1424:VAL:CG1	3:D:1425:THR:N	2.60	0.64
5:F:353:GLU:HG3	5:F:417:LYS:HD3	1.78	0.64
1:K:97:VAL:HG11	1:K:120:VAL:HG21	1.79	0.64
2:M:882:LEU:CD1	3:N:1061:PHE:HB3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1071:ILE:HD12	3:N:670:VAL:HG13	1.80	0.64
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.80	0.64
3:N:613:ARG:HH11	3:N:613:ARG:HG3	1.62	0.64
3:N:807:ALA:HB2	3:N:833:GLU:HB2	1.79	0.64
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.33	0.64
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.12	0.64
2:C:572:ILE:HG13	2:C:573:ARG:HG2	1.78	0.64
2:C:676:ILE:O	2:C:676:ILE:HG12	1.97	0.64
3:D:534:ARG:HH21	5:F:315:VAL:HG21	1.62	0.64
3:D:768:ASN:ND2	3:D:1210:SER:CB	2.60	0.64
3:D:868:TYR:HD1	3:D:869:MET:HG3	1.63	0.64
2:M:20:GLU:HG3	2:M:460:ARG:NH2	2.13	0.64
2:M:881:ASN:ND2	2:M:884:GLN:NE2	2.46	0.64
4:O:54:LEU:O	4:O:54:LEU:HD23	1.97	0.64
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.78	0.64
5:P:340:SER:O	5:P:342:VAL:N	2.31	0.64
3:D:646:LYS:HA	3:D:720:LEU:HD23	1.79	0.64
3:D:1174:LEU:HD13	3:D:1186:VAL:HG21	1.78	0.64
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.61	0.64
2:M:129:ILE:HG22	2:M:130:ASN:N	2.12	0.64
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.18	0.64
3:N:1274:ILE:HD11	3:N:1334:GLN:HE21	1.61	0.64
5:P:367:MET:O	5:P:370:LYS:HG2	1.97	0.64
3:N:493:ARG:HD3	3:N:1388:ARG:HB3	1.80	0.64
3:N:959:GLU:HB2	3:N:963:TYR:HE1	1.62	0.64
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	1.80	0.64
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.78	0.64
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.63	0.64
2:C:332:ARG:HE	2:C:464:LEU:HG	1.62	0.64
2:C:408:ARG:NH1	2:C:542:VAL:CG2	2.61	0.64
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.33	0.64
2:C:573:ARG:HG3	2:C:698:ASP:O	1.97	0.64
2:C:576:ALA:H	2:C:662:GLU:CD	2.00	0.64
3:D:421:LEU:HG	3:D:422:ALA:O	1.97	0.64
3:D:767:HIS:CE1	4:E:6:ILE:HG12	2.33	0.64
1:L:2:LEU:HD12	1:L:3:ASP:N	2.13	0.64
2:M:1033:GLY:O	2:M:1037:VAL:HG23	1.98	0.64
2:M:1036:GLU:O	2:M:1039:ALA:HB3	1.97	0.64
5:P:222:ARG:HD2	5:P:242:TRP:CE3	2.33	0.64
2:C:273:GLY:HA2	2:C:276:LYS:NZ	2.13	0.63
3:D:807:ALA:HB2	3:D:833:GLU:CB	2.28	0.63

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:259:GLY:HA2	2:C:290:LEU:O	1.99	0.63
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.44	0.63
3:D:1140:ILE:O	3:D:1141:GLU:C	2.37	0.63
5:F:99:GLU:OE1	5:F:235:PHE:HB3	1.98	0.63
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.13	0.63
2:M:25:SER:OG	2:M:335:THR:HB	1.99	0.63
2:M:1031:ARG:HD3	3:N:621:LYS:O	1.99	0.63
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.11	0.63
3:N:648:MET:O	3:N:652:LEU:HD23	1.98	0.63
3:N:758:GLU:HG2	4:O:20:THR:HG21	1.80	0.63
3:N:794:GLN:NE2	3:N:794:GLN:C	2.52	0.63
3:N:1336:LEU:CB	3:N:1344:VAL:HG21	2.28	0.63
1:A:13:VAL:HG12	1:A:14:ARG:H	1.63	0.63
1:B:133:GLU:HG3	1:B:134:GLU:N	2.13	0.63
2:C:1094:ALA:HB1	3:D:603:LEU:CD2	2.28	0.63
3:D:540:LEU:HD12	3:D:606:ILE:HD11	1.78	0.63
4:E:18:ARG:O	4:E:22:VAL:HG23	1.99	0.63
2:M:744:ARG:NH2	2:M:747:ALA:HA	2.13	0.63
2:C:952:LEU:CD1	2:C:969:GLN:HE22	2.06	0.63
2:C:1097:LEU:HD11	3:D:1451:ALA:HB2	1.81	0.63
3:D:159:ARG:HH11	3:D:159:ARG:HG3	1.63	0.63
3:D:216:VAL:HG12	3:D:217:LYS:H	1.63	0.63
1:K:11:PHE:HE1	1:L:225:PHE:CD2	2.16	0.63
1:K:20:TYR:CD2	1:K:21:GLY:N	2.63	0.63
1:K:219:ARG:HH12	1:K:220:GLU:HB2	1.64	0.63
2:M:13:ILE:HD11	2:M:470:PRO:HB3	1.80	0.63
2:M:1047:HIS:ND1	3:N:754:PHE:HB3	2.14	0.63
2:M:1071:ILE:HG23	3:N:670:VAL:CG2	2.28	0.63
3:N:556:LYS:CE	5:P:218:GLN:HE22	2.12	0.63
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.13	0.63
2:C:238:LEU:HA	2:C:241:LEU:HD12	1.80	0.63
2:C:383:ARG:HB2	2:C:383:ARG:HH11	1.63	0.63
2:C:949:LYS:NZ	3:D:862:ASP:OD1	2.31	0.63
2:C:1044:GLY:HA3	3:D:762:GLN:OE1	1.98	0.63
3:D:470:LEU:HD12	3:D:508:ARG:NH1	2.14	0.63
3:D:1036:ARG:HG2	3:D:1036:ARG:O	1.98	0.63
3:D:1491:THR:HG21	4:E:89:MET:CE	2.29	0.63
2:M:886:LEU:CD1	3:N:951:ILE:HG13	2.29	0.63
2:M:901:TYR:HE2	2:M:917:LEU:HD12	1.64	0.63
2:M:1046:ALA:HB3	3:N:758:GLU:OE1	1.99	0.63
3:N:486:ARG:NE	3:N:489:ARG:HD3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1267:ARG:CZ	3:N:1271:LYS:HG3	2.28	0.63
2:C:611:ILE:HD11	2:C:641:PRO:HG3	1.81	0.63
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.13	0.63
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.80	0.63
2:M:422:ARG:HG3	2:M:423:ALA:H	1.62	0.63
3:N:139:GLY:C	3:N:147:VAL:HG22	2.20	0.63
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.99	0.63
1:A:44:LEU:HA	1:A:48:ILE:HD11	1.80	0.62
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.33	0.62
3:D:10:ILE:CD1	3:D:1434:TRP:CE2	2.82	0.62
3:D:729:HIS:ND1	3:D:731:LEU:N	2.43	0.62
3:D:1130:ARG:HD2	3:D:1131:SER:N	2.14	0.62
3:D:1232:PRO:O	3:D:1234:THR:N	2.32	0.62
3:D:1306:PRO:O	3:D:1308:GLU:N	2.32	0.62
5:F:78:SER:O	5:F:82:ARG:HB2	1.99	0.62
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.80	0.62
2:C:259:GLY:O	2:C:291:ALA:HB2	1.98	0.62
2:C:829:GLN:CD	2:C:831:ARG:HH11	2.03	0.62
3:D:601:ARG:NH2	3:D:611:GLN:HB2	2.14	0.62
3:D:628:ARG:HG2	3:D:629:SER:N	2.12	0.62
5:F:403:LYS:O	5:F:407:LYS:HB2	1.97	0.62
2:M:51:THR:HG21	2:M:348:LEU:HB3	1.79	0.62
2:M:691:SER:HB2	2:M:858:MET:SD	2.39	0.62
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.99	0.62
3:N:368:VAL:HG22	3:N:369:ALA:N	2.14	0.62
3:N:461:ILE:HG22	3:N:465:LEU:CD1	2.28	0.62
3:N:661:MET:HB3	3:N:667:ALA:HB3	1.81	0.62
3:N:976:GLN:HG2	3:N:979:GLU:OE1	1.99	0.62
3:N:1129:THR:HG23	3:N:1130:ARG:N	2.13	0.62
1:A:153:ALA:HB2	1:A:167:VAL:C	2.18	0.62
2:C:12:VAL:HG13	2:C:13:ILE:H	1.65	0.62
2:C:28:ARG:HG2	2:C:40:GLU:OE1	1.98	0.62
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.30	0.62
2:C:67:ASP:HB2	2:C:99:GLN:HG3	1.81	0.62
2:C:148:PHE:HB3	2:C:313:LEU:HD22	1.81	0.62
2:C:516:ARG:HH11	2:C:521:PRO:CB	2.12	0.62
3:D:400:VAL:C	3:D:402:PRO:HD3	2.19	0.62
3:D:1031:ASN:O	3:D:1034:GLN:N	2.33	0.62
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.81	0.62
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.81	0.62
3:N:591:VAL:HA	3:N:600:LEU:HD21	1.81	0.62

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:713:ARG:HA	2:C:818:GLY:O	2.00	0.62
2:C:799:ILE:H	2:C:799:ILE:CD1	2.10	0.62
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.15	0.62
3:D:234:GLU:O	3:D:238:PRO:HD2	1.99	0.62
3:D:659:LYS:HE2	3:D:663:GLU:CD	2.19	0.62
3:D:1140:ILE:O	3:D:1143:GLY:N	2.20	0.62
1:L:170:VAL:HG11	3:N:848:GLU:OE1	1.99	0.62
2:M:328:LEU:N	2:M:433:THR:HG21	2.12	0.62
2:M:413:LEU:HD12	2:M:413:LEU:N	2.14	0.62
2:M:599:GLU:HA	2:M:651:LYS:HG3	1.81	0.62
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.29	0.62
3:N:195:VAL:CB	3:N:205:TYR:HB2	2.29	0.62
3:N:367:ILE:HD13	3:N:367:ILE:H	1.65	0.62
3:N:1291:SER:HB3	3:N:1293:PHE:HE1	1.65	0.62
5:P:276:ARG:HG3	5:P:276:ARG:HH11	1.65	0.62
5:P:406:ARG:HG2	5:P:409:LYS:NZ	2.15	0.62
2:C:6:PHE:O	2:C:7:GLY:O	2.17	0.62
2:C:486:MET:CE	2:C:496:ILE:HD11	2.30	0.62
2:C:841:ASN:ND2	2:C:843:HIS:H	1.98	0.62
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.81	0.62
3:D:525:ARG:O	3:D:525:ARG:HG3	1.98	0.62
3:D:638:LYS:HB2	3:D:641:GLN:OE1	1.98	0.62
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.26	0.62
3:D:1168:MET:HE1	3:D:1171:VAL:HB	1.82	0.62
4:E:68:LEU:HD11	4:E:75:PHE:HE2	1.63	0.62
2:M:242:LEU:HD22	2:M:242:LEU:N	2.15	0.62
2:M:442:GLU:O	2:M:442:GLU:HG3	1.99	0.62
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.82	0.62
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.35	0.62
3:N:70:GLY:C	3:N:71:LYS:HD2	2.19	0.62
3:N:385:VAL:HG13	5:P:232:ARG:HH12	1.62	0.62
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.15	0.62
1:A:170:VAL:HG11	2:C:696:LYS:HD3	1.81	0.62
2:C:795:GLY:O	2:C:796:GLU:HG2	2.00	0.62
2:C:1043:TYR:HE2	3:D:710:ARG:HD3	1.64	0.62
3:D:100:ALA:HB3	3:D:128:TYR:HE2	1.65	0.62
3:D:139:GLY:HA2	3:D:452:ILE:HA	1.82	0.62
3:D:192:ALA:O	3:D:195:VAL:HG23	2.00	0.62
3:D:367:ILE:HG23	3:D:368:VAL:N	2.14	0.62
3:D:380:GLU:O	3:D:382:GLU:N	2.33	0.62
3:D:493:ARG:HE	3:D:1389:LEU:HD21	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:498:VAL:HG13	3:D:499:VAL:H	1.64	0.62
3:D:528:VAL:CB	3:D:536:ALA:HB3	2.28	0.62
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.65	0.62
5:F:180:GLY:O	5:F:183:ALA:N	2.33	0.62
1:K:176:ARG:HH22	2:M:865:THR:HB	1.64	0.62
1:L:12:THR:HG23	1:L:24:VAL:HB	1.82	0.62
2:M:534:VAL:N	2:M:538:GLN:HE22	1.97	0.62
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.15	0.62
3:N:570:GLU:C	3:N:572:ARG:H	2.03	0.62
4:O:40:LEU:HD13	4:O:45:ARG:HD2	1.82	0.62
5:P:289:GLU:O	5:P:293:GLU:HG3	2.00	0.62
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.64	0.62
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.35	0.62
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.34	0.62
2:C:690:ILE:HG21	2:C:833:LEU:HD21	1.81	0.62
2:C:1054:THR:CG2	2:C:1059:ASP:HB2	2.29	0.62
3:D:572:ARG:NH2	5:F:83:GLN:NE2	2.47	0.62
3:D:1112:CYS:SG	3:D:1201:CYS:SG	2.97	0.62
5:F:394:ARG:O	5:F:397:ILE:HB	2.00	0.62
5:F:413:SER:O	5:F:416:ARG:HD3	1.99	0.62
2:M:880:MET:HE3	3:N:1034:GLN:HG2	1.81	0.62
2:M:1109:VAL:CG2	3:N:3:LYS:HB2	2.29	0.62
3:N:1242:HIS:HB3	3:N:1269:LYS:NZ	2.14	0.62
1:A:158:ILE:HD13	1:A:158:ILE:C	2.20	0.61
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.23	0.61
2:C:722:ILE:O	2:C:722:ILE:HG12	2.00	0.61
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.82	0.61
3:D:136:ASP:CB	3:D:137:PRO:CD	2.76	0.61
3:D:396:VAL:HG13	3:D:446:VAL:C	2.21	0.61
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.27	0.61
3:D:659:LYS:HE3	3:D:662:GLU:OE2	2.00	0.61
3:D:1126:ASP:OD2	3:D:1129:THR:HA	2.00	0.61
4:E:54:LEU:HD21	4:E:63:TRP:HE1	1.65	0.61
2:M:413:LEU:HD21	2:M:451:LEU:HD13	1.82	0.61
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.82	0.61
3:N:413:ASP:HB2	3:N:444:VAL:HG11	1.82	0.61
3:N:601:ARG:HB3	5:P:318:GLU:OE2	2.00	0.61
3:N:609:GLY:HA2	3:N:613:ARG:HB3	1.81	0.61
3:N:669:ASN:OD1	3:N:672:ALA:HB2	1.99	0.61
3:N:675:ARG:O	3:N:678:GLU:HG2	1.99	0.61
3:N:728:LEU:HD22	3:N:745:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:300:ASP:C	2:C:302:VAL:H	2.02	0.61
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.82	0.61
2:C:1015:LEU:HB3	2:C:1016:ILE:CD1	2.21	0.61
3:D:601:ARG:HH12	3:D:611:GLN:CB	2.13	0.61
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.20	0.61
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	1.99	0.61
4:E:25:LYS:HA	4:E:28:GLN:CD	2.20	0.61
2:M:744:ARG:HG3	2:M:744:ARG:O	1.99	0.61
2:M:794:PRO:O	2:M:1004:LYS:HD2	2.00	0.61
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	2.13	0.61
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.81	0.61
4:O:40:LEU:HD12	4:O:40:LEU:O	2.00	0.61
1:A:28:LEU:HB2	1:A:193:ASP:O	2.00	0.61
3:D:923:GLY:O	3:D:927:THR:OG1	2.15	0.61
2:M:250:ARG:HB3	2:M:253:ALA:CB	2.30	0.61
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.82	0.61
3:N:216:VAL:HG11	3:N:221:ALA:CA	2.29	0.61
3:N:1389:LEU:HD23	3:N:1389:LEU:N	2.15	0.61
2:C:682:TYR:OH	2:C:851:LYS:HE2	2.00	0.61
2:C:755:LEU:HD11	2:C:792:VAL:HG22	1.81	0.61
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.35	0.61
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.00	0.61
3:D:1078:ARG:C	3:D:1080:GLY:N	2.52	0.61
3:D:1188:VAL:HG22	3:D:1189:ARG:N	2.15	0.61
3:D:1353:GLN:HG3	3:D:1365:ASP:OD2	1.99	0.61
4:E:48:MET:N	4:E:54:LEU:HB2	2.15	0.61
2:M:1063:ARG:HG3	2:M:1064:ASN:N	2.15	0.61
3:N:218:LYS:O	3:N:370:ALA:HB1	2.01	0.61
3:N:565:ILE:H	3:N:565:ILE:HD12	1.65	0.61
3:N:643:GLY:O	3:N:726:ILE:HG23	2.00	0.61
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.83	0.61
3:N:1148:VAL:HG12	3:N:1189:ARG:HB2	1.83	0.61
2:C:1043:TYR:CE2	3:D:710:ARG:HB2	2.35	0.61
3:D:1102:THR:HG22	3:D:1102:THR:O	2.01	0.61
5:F:271:LEU:CD1	5:F:308:LEU:HD21	2.29	0.61
2:M:8:ARG:HD2	2:M:10:ARG:HH12	1.64	0.61
2:M:15:LEU:HB2	2:M:586:ARG:HH22	1.65	0.61
2:M:110:GLU:HG2	2:M:369:PRO:HA	1.82	0.61
2:M:244:PRO:HG2	2:M:246:ASP:H	1.65	0.61
2:M:1009:SER:N	3:N:651:GLU:OE2	2.34	0.61
3:N:34:TYR:CE2	5:P:260:ILE:HG13	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.15	0.61
3:N:817:GLU:HA	3:N:836:VAL:HG23	1.83	0.61
3:N:1330:ILE:HB	3:N:1347:TYR:CE2	2.35	0.61
3:N:1488:ASP:O	3:N:1492:LEU:HB2	2.00	0.61
5:P:102:LEU:O	5:P:105:LYS:N	2.31	0.61
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.36	0.61
2:C:367:LEU:HD23	2:C:367:LEU:H	1.65	0.61
3:D:387:LEU:HD13	5:F:97:GLU:H	1.66	0.61
3:D:528:VAL:N	3:D:536:ALA:O	2.33	0.61
3:D:1065:LEU:HD23	3:D:1070:TYR:HD2	1.64	0.61
3:D:1148:VAL:HA	3:D:1164:ARG:O	1.99	0.61
3:D:1459:LEU:HD12	3:D:1470:ARG:NH1	2.15	0.61
1:L:209:GLU:O	1:L:212:ASN:HB2	2.00	0.61
2:M:159:ILE:HG22	2:M:175:GLU:HG3	1.82	0.61
3:N:1065:LEU:O	3:N:1065:LEU:CD2	2.44	0.61
3:N:1495:ILE:HG12	4:O:80:VAL:CG1	2.31	0.61
5:P:93:LEU:HD13	5:P:99:GLU:HG2	1.81	0.61
5:P:187:LEU:O	5:P:190:ALA:HB3	2.00	0.61
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.83	0.61
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.66	0.61
3:D:573:MET:SD	5:F:210:LEU:HB3	2.41	0.61
3:D:1190:SER:OG	3:D:1369:GLU:OE1	2.11	0.61
5:F:333:ILE:N	5:F:333:ILE:HD12	2.15	0.61
2:M:129:ILE:N	2:M:129:ILE:HD12	2.15	0.61
2:M:949:LYS:HZ3	3:N:796:ARG:NH2	1.99	0.61
2:M:1047:HIS:N	3:N:758:GLU:OE1	2.30	0.61
2:M:1071:ILE:HD11	3:N:658:LEU:HD12	1.81	0.61
5:P:163:LEU:CD2	5:P:174:LEU:HG	2.21	0.61
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.82	0.61
3:D:1451:ALA:O	3:D:1453:ALA:N	2.33	0.61
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.31	0.61
5:F:260:ILE:HG12	5:F:264:MET:HB2	1.83	0.61
2:M:3:ILE:CD1	2:M:900:ARG:HB2	2.31	0.61
2:M:422:ARG:HG3	2:M:423:ALA:N	2.16	0.61
3:N:564:GLU:HG2	3:N:565:ILE:HD12	1.83	0.61
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.83	0.61
1:A:94:LEU:CD1	1:A:119:ASP:HB3	2.31	0.61
2:C:869:VAL:HG22	2:C:870:ILE:N	2.15	0.61
2:C:1029:GLY:HA3	3:D:622:ARG:HB3	1.83	0.61
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.25	0.61
3:D:171:LEU:HB3	3:D:390:PRO:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:434:ARG:CB	3:D:447:VAL:HG13	2.31	0.61
3:D:552:ASN:O	3:D:555:LYS:N	2.34	0.61
3:D:783:ARG:HH21	3:D:1029:ARG:CZ	2.14	0.61
3:D:1118:ILE:HG21	3:D:1190:SER:HB3	1.83	0.61
2:M:534:VAL:N	2:M:538:GLN:NE2	2.49	0.61
2:M:881:ASN:ND2	2:M:881:ASN:H	1.98	0.61
3:N:245:LEU:O	3:N:245:LEU:HD13	2.00	0.61
3:N:1344:VAL:O	3:N:1348:LEU:HD23	2.00	0.61
5:P:406:ARG:CB	5:P:409:LYS:HE2	2.30	0.61
3:D:421:LEU:H	3:D:421:LEU:HD23	1.65	0.61
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.00	0.61
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.82	0.61
5:F:277:GLN:O	5:F:280:GLN:HB3	2.01	0.61
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.65	0.61
2:M:203:ASP:O	2:M:207:LEU:HB2	2.01	0.61
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.31	0.61
2:M:971:LYS:HD2	2:M:986:PRO:HB2	1.83	0.61
3:N:149:LYS:HD3	3:N:149:LYS:N	2.13	0.61
1:A:228:PRO:O	1:A:229:GLN:HG2	2.00	0.60
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.82	0.60
2:C:345:ARG:NH1	2:C:345:ARG:HB3	2.16	0.60
3:D:1114:THR:HG21	3:D:1195:GLN:N	2.16	0.60
3:D:1311:LEU:HD23	3:D:1311:LEU:N	2.13	0.60
1:K:50:GLY:O	1:K:146:ARG:HA	2.01	0.60
1:L:131:THR:C	1:L:132:LEU:HD12	2.21	0.60
2:M:500:ASN:HD21	3:N:1067:VAL:HG23	1.66	0.60
2:M:1044:GLY:O	2:M:1046:ALA:N	2.34	0.60
3:N:433:GLY:H	3:N:448:GLU:HA	1.66	0.60
3:N:765:SER:O	3:N:767:HIS:N	2.33	0.60
3:N:799:LYS:O	3:N:799:LYS:HD3	2.01	0.60
3:N:804:LEU:O	3:N:830:ALA:O	2.19	0.60
3:N:1242:HIS:HB3	3:N:1269:LYS:HZ1	1.65	0.60
2:C:274:ARG:H	2:C:288:ARG:HH12	1.49	0.60
2:C:430:VAL:HB	3:D:1078:ARG:NH1	2.16	0.60
2:C:926:PHE:HE2	2:C:960:GLU:OE1	1.84	0.60
3:D:14:SER:O	3:D:17:LYS:N	2.33	0.60
3:D:142:LEU:HD12	3:D:142:LEU:O	2.01	0.60
3:D:783:ARG:CZ	3:D:1029:ARG:CZ	2.79	0.60
3:D:1267:ARG:HH21	3:D:1271:LYS:HG3	1.66	0.60
3:D:1278:ASP:OD1	3:D:1321:ALA:HB2	2.01	0.60
4:E:86:GLN:O	4:E:90:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:432:ARG:HH12	3:N:1047:LYS:HG2	1.66	0.60
2:M:751:PRO:HG3	2:M:796:GLU:HA	1.83	0.60
3:N:167:GLU:CD	5:P:90:GLN:HE21	2.04	0.60
3:N:583:ASP:OD1	3:N:604:THR:CB	2.49	0.60
3:N:984:THR:O	3:N:987:GLU:N	2.34	0.60
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.42	0.60
3:N:1336:LEU:CD1	3:N:1341:PRO:HA	2.30	0.60
5:P:130:VAL:HG13	5:P:156:VAL:HG23	1.82	0.60
3:D:601:ARG:HD2	5:F:318:GLU:OE1	2.01	0.60
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.65	0.60
1:K:42:ARG:NH1	2:M:856:GLU:O	2.35	0.60
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.32	0.60
2:M:332:ARG:HG3	2:M:465:GLY:O	2.00	0.60
2:M:575:GLN:O	2:M:667:ALA:HB1	2.02	0.60
2:M:610:ARG:HH11	2:M:610:ARG:HG3	1.66	0.60
2:M:1114:GLY:C	2:M:1116:ALA:H	2.03	0.60
3:N:808:THR:HB	3:N:809:PRO:HD3	1.83	0.60
5:P:160:ASP:O	5:P:163:LEU:HB2	2.02	0.60
1:B:162:ILE:HG23	1:B:163:ASN:ND2	2.17	0.60
2:C:497:ALA:O	2:C:532:MET:HG3	2.01	0.60
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.35	0.60
3:D:30:GLU:OE1	3:D:40:GLU:HG2	2.00	0.60
3:D:843:PHE:HD1	3:D:849:ALA:HA	1.64	0.60
1:K:170:VAL:HG23	1:K:170:VAL:O	2.01	0.60
2:M:683:ASN:HA	2:M:687:ALA:CB	2.31	0.60
2:M:1000:MET:SD	2:M:1001:VAL:N	2.74	0.60
3:N:558:LEU:O	3:N:561:GLY:N	2.32	0.60
3:N:691:LEU:O	3:N:694:VAL:HB	2.01	0.60
3:N:858:VAL:HG12	3:N:859:ASP:O	2.00	0.60
3:N:1225:ALA:O	3:N:1226:ALA:C	2.40	0.60
3:N:1384:PRO:HG2	3:N:1389:LEU:N	2.16	0.60
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.67	0.60
3:D:223:LEU:CA	3:D:365:ASP:HB2	2.31	0.60
1:K:26:GLU:CD	1:K:27:PRO:HD2	2.22	0.60
1:K:64:GLU:HB2	1:K:165:ILE:HG21	1.83	0.60
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.83	0.60
2:M:838:LYS:NZ	2:M:846:LYS:NZ	2.49	0.60
3:N:366:LYS:HB2	3:N:366:LYS:NZ	2.16	0.60
3:N:616:GLN:CB	5:P:326:ASP:HB2	2.29	0.60
2:C:912:PRO:HA	2:C:915:LYS:HB2	1.83	0.60
2:C:1102:LEU:HD22	3:D:9:ARG:HD3	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:423:ASP:HB2	5:F:178:ARG:HG3	1.83	0.60
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.82	0.60
3:D:785:ILE:HD11	3:D:939:PHE:CZ	2.37	0.60
5:F:128:ARG:HG2	5:F:132:ARG:NH1	2.15	0.60
5:F:205:ARG:HE	5:F:251:ILE:HD13	1.65	0.60
1:K:26:GLU:HB3	1:K:27:PRO:CD	2.30	0.60
3:N:32:ILE:HG23	3:N:38:LYS:O	2.00	0.60
3:N:106:LYS:HE2	3:N:587:ARG:HD3	1.84	0.60
3:N:182:GLY:O	3:N:186:VAL:HB	2.02	0.60
3:N:953:ASP:OD2	3:N:1019:PRO:HD2	2.00	0.60
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.82	0.60
5:P:88:ILE:CD1	5:P:193:ARG:HH11	2.15	0.60
2:C:144:PRO:HA	2:C:163:ILE:O	2.01	0.60
2:C:571:LEU:HD13	2:C:669:GLY:HA2	1.83	0.60
2:C:860:HIS:CD2	2:C:975:TYR:HB2	2.37	0.60
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.16	0.60
2:C:1081:VAL:HB	2:C:1086:ARG:CZ	2.31	0.60
3:D:633:VAL:C	3:D:635:PRO:HD3	2.22	0.60
5:F:288:TYR:CE2	5:F:305:GLU:HG3	2.37	0.60
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.83	0.60
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.83	0.60
2:M:1109:VAL:HG13	3:N:3:LYS:H	1.66	0.60
3:N:601:ARG:CG	3:N:606:ILE:HG13	2.31	0.60
3:N:1090:ASP:HB3	3:N:1093:TYR:HB2	1.82	0.60
1:A:14:ARG:HH22	1:A:24:VAL:CG2	2.14	0.60
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.82	0.60
3:D:602:SER:O	3:D:606:ILE:HG13	2.02	0.60
3:D:1101:VAL:HG12	3:D:1374:GLN:CB	2.32	0.60
3:D:1459:LEU:HD12	3:D:1470:ARG:HH11	1.67	0.60
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.28	0.60
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.83	0.60
2:M:553:ASP:OD2	2:M:881:ASN:CB	2.50	0.60
2:M:690:ILE:HB	2:M:852:ILE:HD13	1.84	0.60
3:N:1008:PHE:CZ	3:N:1032:PRO:HA	2.37	0.60
1:B:153:ALA:O	1:B:156:HIS:HD2	1.84	0.60
2:C:209:ARG:N	2:C:209:ARG:HD2	2.17	0.60
2:C:328:LEU:HD13	2:C:433:THR:HG22	1.83	0.60
2:C:695:LEU:HD13	2:C:832:LYS:CE	2.28	0.60
2:C:859:PRO:HB3	2:C:974:LEU:HD23	1.84	0.60
3:D:1114:THR:HG22	3:D:1195:GLN:HB2	1.82	0.60
5:F:150:THR:HB	5:F:155:THR:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:62:LEU:HD12	1:L:62:LEU:H	1.66	0.60
2:M:554:ASP:OD1	2:M:555:ALA:N	2.35	0.60
3:N:560:GLN:O	3:N:560:GLN:HG3	2.02	0.60
3:N:1258:ARG:HG2	3:N:1262:LEU:HD13	1.84	0.60
3:N:1265:ALA:HB1	3:N:1333:HIS:CE1	2.36	0.60
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.17	0.60
3:N:1459:LEU:CD1	3:N:1470:ARG:HH11	2.15	0.60
5:P:196:VAL:HG13	5:P:209:PHE:HZ	1.66	0.60
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.67	0.60
2:C:728:HIS:HB3	2:C:729:LEU:HD22	1.84	0.60
2:C:807:ARG:NH2	2:C:808:ARG:HB2	2.16	0.60
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.84	0.60
2:C:1096:ALA:HB3	3:D:101:HIS:CE1	2.37	0.60
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.65	0.60
3:D:1209:LEU:CD1	3:D:1219:GLU:OE1	2.50	0.60
5:F:392:VAL:HG11	5:F:396:ARG:HD2	1.84	0.60
1:K:38:ASN:O	1:K:41:ARG:N	2.35	0.60
2:M:66:LEU:HD13	2:M:100:LEU:HB3	1.84	0.60
2:M:350:ARG:HG2	2:M:350:ARG:HH11	1.67	0.60
2:M:484:VAL:O	2:M:484:VAL:HG12	2.01	0.60
2:M:516:ARG:HH11	3:N:1068:LEU:HD22	1.65	0.60
2:M:877:PRO:HG2	3:N:1023:MET:HE1	1.82	0.60
3:N:175:VAL:O	3:N:179:VAL:HG21	2.02	0.60
3:N:629:SER:HB3	3:N:726:ILE:CD1	2.32	0.60
3:N:890:VAL:O	3:N:890:VAL:HG23	2.02	0.60
3:N:1233:GLY:O	3:N:1236:LEU:HB2	2.02	0.60
3:N:1260:ILE:O	3:N:1262:LEU:N	2.34	0.60
2:C:650:ARG:N	2:C:650:ARG:CD	2.61	0.59
3:D:237:LYS:HA	3:D:237:LYS:HE3	1.84	0.59
3:D:637:LEU:HD23	3:D:637:LEU:O	2.02	0.59
3:D:834:THR:HA	3:D:838:ARG:HE	1.67	0.59
5:F:164:LYS:CA	5:F:171:LYS:HZ2	2.14	0.59
2:M:650:ARG:HE	2:M:653:ASP:CG	2.05	0.59
3:N:601:ARG:HD2	3:N:613:ARG:HH21	1.66	0.59
5:P:300:ASP:CG	5:P:301:ALA:H	2.06	0.59
5:P:372:ARG:NE	5:P:388:ALA:HA	2.17	0.59
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.15	0.59
1:A:178:ALA:O	1:A:197:LEU:HD23	2.01	0.59
2:C:208:ALA:O	2:C:218:VAL:HG21	2.01	0.59
2:C:660:ALA:HB1	2:C:667:ALA:O	2.01	0.59
3:D:542:ASP:OD2	3:D:545:ARG:NH2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:681:ARG:HB2	3:D:681:ARG:HH11	1.67	0.59
3:D:1459:LEU:CD1	3:D:1470:ARG:HH11	2.15	0.59
5:F:136:LEU:HD12	5:F:137:GLY:H	1.67	0.59
5:F:408:LEU:HD23	5:F:409:LYS:N	2.17	0.59
1:K:215:VAL:HG23	1:K:216:GLU:N	2.18	0.59
2:M:755:LEU:O	2:M:756:VAL:HG23	2.03	0.59
3:N:754:PHE:HA	4:O:24:ALA:HB1	1.83	0.59
3:N:786:ILE:HD13	3:N:1027:GLY:HA3	1.83	0.59
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.67	0.59
5:P:77:THR:O	5:P:81:VAL:HG23	2.01	0.59
5:P:266:GLU:O	5:P:270:LYS:HG3	2.03	0.59
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.17	0.59
3:D:598:ARG:NH1	5:F:319:THR:HA	1.97	0.59
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.82	0.59
2:M:91:GLN:HG2	2:M:119:PRO:HG3	1.84	0.59
2:M:325:ILE:HD12	2:M:325:ILE:N	2.17	0.59
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.37	0.59
2:M:557:ARG:HD3	2:M:879:ARG:HG2	1.83	0.59
3:N:15:PRO:HB3	3:N:19:ARG:HH12	1.67	0.59
3:N:125:GLN:OE1	3:N:587:ARG:NH2	2.36	0.59
3:N:525:ARG:N	3:N:526:PRO:CD	2.66	0.59
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.01	0.59
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.84	0.59
2:C:946:ARG:NH1	2:C:984:GLU:HG3	2.16	0.59
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.65	0.59
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.83	0.59
3:D:755:ALA:HA	3:D:758:GLU:HG2	1.84	0.59
3:D:1154:GLU:CG	3:D:1159:ARG:HG2	2.32	0.59
3:D:1397:LYS:O	3:D:1400:VAL:HB	2.02	0.59
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.67	0.59
3:N:715:ALA:O	3:N:764:LEU:HD12	2.02	0.59
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.85	0.59
5:P:398:ARG:HG2	5:P:398:ARG:HH11	1.66	0.59
3:D:163:TYR:CZ	3:D:394:LEU:HD21	2.38	0.59
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.32	0.59
3:D:553:ARG:HD3	5:F:214:GLN:HB3	1.83	0.59
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.02	0.59
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.83	0.59
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.23	0.59
4:E:40:LEU:HD22	4:E:45:ARG:CZ	2.32	0.59
5:F:169:GLU:CD	5:F:169:GLU:H	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG22	1:L:209:GLU:CG	2.32	0.59
2:M:44:ILE:HD11	2:M:340:MET:CE	2.33	0.59
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.17	0.59
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.84	0.59
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.84	0.59
3:N:231:VAL:HG12	3:N:378:ILE:HG23	1.84	0.59
3:N:571:LYS:HB2	3:N:571:LYS:NZ	2.18	0.59
3:N:681:ARG:HG3	3:N:682:ASP:OD1	2.03	0.59
3:N:710:ARG:NH1	3:N:772:PRO:HG2	2.15	0.59
3:N:1161:GLU:HG3	3:N:1164:ARG:HB2	1.83	0.59
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.67	0.59
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.83	0.59
1:B:62:LEU:HD13	1:B:63:HIS:CD2	2.37	0.59
2:C:203:ASP:O	2:C:207:LEU:HB2	2.03	0.59
2:C:697:ARG:O	2:C:699:PHE:N	2.36	0.59
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.85	0.59
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.01	0.59
3:D:709:HIS:O	3:D:710:ARG:C	2.41	0.59
3:D:762:GLN:NE2	4:E:20:THR:OG1	2.34	0.59
3:D:925:GLU:HG2	4:E:7:ASP:OD2	2.03	0.59
2:M:15:LEU:HB2	2:M:586:ARG:NH2	2.18	0.59
2:M:742:VAL:HG12	2:M:743:VAL:H	1.66	0.59
2:M:1097:LEU:HD21	3:N:103:TRP:HZ3	1.68	0.59
3:N:12:LEU:CB	3:N:507:ASN:HD22	2.09	0.59
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.37	0.59
3:N:427:VAL:CB	3:N:435:VAL:HB	2.31	0.59
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.32	0.59
3:N:1096:ARG:HG2	3:N:1096:ARG:NH1	2.16	0.59
5:P:181:GLU:OE2	5:P:184:ARG:HG2	2.01	0.59
5:P:229:TYR:HD1	5:P:229:TYR:H	1.51	0.59
1:A:77:GLU:HB2	2:C:640:ARG:NH2	2.18	0.59
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.67	0.59
1:A:180:GLN:NE2	2:C:934:PHE:HB2	2.17	0.59
2:C:99:GLN:HG3	2:C:99:GLN:O	2.03	0.59
2:C:227:PHE:HA	2:C:230:ARG:CZ	2.32	0.59
2:C:455:LEU:HD13	2:C:459:ALA:HB3	1.83	0.59
2:C:673:LEU:HG	2:C:990:GLY:O	2.02	0.59
3:D:583:ASP:OD2	3:D:604:THR:HB	2.03	0.59
3:D:795:VAL:CG1	3:D:863:VAL:HG22	2.33	0.59
3:D:1229:ILE:CD1	3:D:1368:ILE:HG12	2.30	0.59
5:F:76:SER:O	5:F:78:SER:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:309:LYS:O	5:F:312:GLN:HG3	2.02	0.59
2:M:626:ARG:HG2	2:M:629:TYR:CD1	2.38	0.59
2:M:674:VAL:HG11	2:M:992:MET:CE	2.33	0.59
2:M:801:VAL:O	2:M:802:ARG:HB2	2.00	0.59
5:P:403:LYS:O	5:P:407:LYS:HG2	2.02	0.59
2:C:140:ILE:HA	2:C:332:ARG:O	2.02	0.59
2:C:192:PRO:HB2	2:C:195:LEU:HB2	1.85	0.59
3:D:118:LEU:O	3:D:120:ALA:N	2.36	0.59
3:D:521:PRO:O	3:D:525:ARG:NH1	2.36	0.59
3:D:789:LEU:HD13	3:D:882:PHE:HE1	1.67	0.59
1:L:115:LEU:HD12	1:L:115:LEU:O	2.03	0.59
2:M:64:LEU:O	2:M:65:VAL:HG13	2.03	0.59
3:N:172:PRO:HB3	3:N:178:LEU:HD22	1.84	0.59
3:N:411:THR:HG22	3:N:412:GLY:H	1.67	0.59
2:C:907:ASP:CG	2:C:907:ASP:O	2.41	0.59
2:C:1021:LEU:HG	2:C:1022:GLY:H	1.67	0.59
3:D:739:ASP:OD2	3:D:741:ASP:OD2	2.20	0.59
3:D:785:ILE:HG13	3:D:939:PHE:CE2	2.38	0.59
3:D:1258:ARG:O	3:D:1260:ILE:N	2.35	0.59
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.85	0.59
5:F:269:ASN:HB3	5:F:273:ARG:NH2	2.04	0.59
2:M:183:SER:CB	2:M:190:LYS:HG2	2.29	0.59
2:M:244:PRO:CG	2:M:245:GLY:H	2.15	0.59
3:N:99:ALA:HB1	3:N:575:GLN:OE1	2.03	0.59
3:N:769:LEU:C	3:N:770:LEU:HD23	2.23	0.59
3:N:899:LEU:HD22	3:N:900:ILE:N	2.17	0.59
3:N:1046:GLN:HG3	3:N:1047:LYS:O	2.03	0.59
3:N:1377:LYS:HE2	3:N:1394:VAL:HG22	1.85	0.59
5:P:401:GLU:O	5:P:405:LEU:HB2	2.03	0.59
2:C:289:THR:HG22	2:C:290:LEU:H	1.67	0.59
3:D:93:ILE:CD1	3:D:547:LEU:HD23	2.32	0.59
3:D:237:LYS:HB3	3:D:238:PRO:CD	2.25	0.59
3:D:609:GLY:HA3	3:D:614:PHE:N	2.16	0.59
3:D:875:THR:HG22	3:D:879:ARG:HD2	1.84	0.59
3:D:916:TYR:C	3:D:916:TYR:HD2	2.07	0.59
2:M:200:LEU:HD22	2:M:300:ASP:OD1	2.03	0.59
2:M:276:LYS:O	2:M:279:GLU:HG2	2.02	0.59
2:M:368:THR:HB	2:M:369:PRO:HD3	1.85	0.59
2:M:565:GLN:C	2:M:567:GLN:N	2.57	0.59
2:M:949:LYS:NZ	3:N:796:ARG:HH21	2.01	0.59
3:N:84:ILE:C	3:N:86:ARG:N	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:947:ILE:HG13	3:N:947:ILE:O	2.02	0.59
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.15	0.59
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.68	0.58
2:C:108:ILE:HD11	2:C:365:ASP:OD1	2.03	0.58
2:C:408:ARG:HH11	2:C:542:VAL:CG2	2.16	0.58
2:C:1091:GLU:CD	3:D:606:ILE:HG21	2.24	0.58
3:D:19:ARG:NE	3:D:94:GLU:OE2	2.34	0.58
3:D:1209:LEU:HD23	3:D:1211:MET:SD	2.43	0.58
4:E:82:GLU:CD	4:E:82:GLU:N	2.45	0.58
5:F:139:ALA:HB1	5:F:152:ASP:HB3	1.85	0.58
5:F:261:PRO:O	5:F:265:VAL:HG23	2.02	0.58
5:F:355:GLU:O	5:F:358:LEU:HB3	2.03	0.58
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.27	0.58
2:M:404:LEU:HG	2:M:404:LEU:O	2.02	0.58
2:M:432:ARG:HH22	3:N:1047:LYS:CG	2.15	0.58
2:M:432:ARG:HD3	3:N:1048:PRO:HG2	1.84	0.58
2:M:703:ILE:HG12	2:M:830:LYS:HG2	1.84	0.58
2:M:1039:ALA:CB	3:N:713:ILE:HD12	2.32	0.58
3:N:188:GLY:HA2	3:N:210:ARG:HH11	1.67	0.58
3:N:646:LYS:HG2	3:N:721:VAL:O	2.02	0.58
3:N:702:LEU:HD12	3:N:747:VAL:HB	1.84	0.58
5:P:247:ILE:O	5:P:250:ALA:HB3	2.03	0.58
2:C:572:ILE:CD1	2:C:701:THR:HB	2.33	0.58
2:C:575:GLN:O	2:C:576:ALA:C	2.40	0.58
2:C:1005:MET:CE	3:D:645:PRO:HG2	2.33	0.58
3:D:646:LYS:O	3:D:649:ALA:HB3	2.03	0.58
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.37	0.58
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.33	0.58
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.85	0.58
1:L:47:SER:HB3	1:L:217:ILE:HD13	1.85	0.58
2:M:1102:LEU:O	3:N:4:GLU:O	2.20	0.58
3:N:845:ASN:ND2	3:N:846:PRO:HD2	2.18	0.58
3:N:1058:ARG:HH11	3:N:1058:ARG:CG	2.16	0.58
3:N:1273:VAL:HG21	3:N:1305:LEU:HD21	1.85	0.58
1:A:62:LEU:HD22	2:C:745:ILE:HG21	1.86	0.58
1:A:99:LEU:HD12	1:A:99:LEU:N	2.18	0.58
2:C:89:THR:HG23	2:C:129:ILE:HA	1.84	0.58
2:C:722:ILE:HD11	2:C:823:VAL:HG21	1.85	0.58
3:D:119:SER:O	3:D:121:THR:N	2.35	0.58
3:D:530:VAL:HB	3:D:534:ARG:CB	2.33	0.58
3:D:820:GLU:HG2	3:D:825:ALA:O	2.03	0.58

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:365:GLU:O	5:P:368:VAL:HB	2.04	0.57
1:A:152:PRO:HD2	1:A:155:LYS:CD	2.32	0.57
1:A:211:LEU:O	1:A:211:LEU:HG	2.03	0.57
2:C:250:ARG:NH2	2:C:253:ALA:HB1	2.20	0.57
2:C:1049:LEU:HD23	3:D:1472:ILE:HD11	1.85	0.57
3:D:527:MET:HE1	3:D:535:PHE:HB3	1.86	0.57
3:D:964:LEU:HD22	3:D:1058:ARG:HG3	1.85	0.57
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.85	0.57
4:E:70:THR:O	4:E:72:ARG:N	2.37	0.57
2:M:737:LEU:HD11	2:M:754:ILE:HG21	1.85	0.57
2:M:910:LYS:O	2:M:913:GLU:N	2.37	0.57
2:M:1097:LEU:H	2:M:1097:LEU:CD1	2.16	0.57
3:N:224:ARG:HH12	3:N:229:ALA:HB2	1.69	0.57
3:N:826:PRO:HD2	3:N:829:VAL:CG1	2.34	0.57
1:A:7:LYS:NZ	1:A:188:GLN:NE2	2.52	0.57
2:C:3:ILE:CD1	2:C:900:ARG:HG3	2.33	0.57
2:C:193:LEU:HG	2:C:307:LEU:HD22	1.86	0.57
3:D:1065:LEU:HD11	3:D:1069:GLU:HB3	1.87	0.57
3:D:1346:ARG:HH22	3:D:1349:VAL:HG11	1.67	0.57
5:F:98:GLU:HA	5:F:101:GLU:HB2	1.86	0.57
2:M:583:LEU:O	2:M:587:VAL:HG23	2.03	0.57
2:M:700:TYR:CG	2:M:833:LEU:HD22	2.40	0.57
3:N:785:ILE:HD11	3:N:939:PHE:CE2	2.39	0.57
3:N:896:ALA:O	3:N:899:LEU:HD13	2.04	0.57
3:N:1166:LEU:H	3:N:1166:LEU:CD2	2.17	0.57
4:O:23:VAL:HG13	4:O:64:ALA:HB3	1.86	0.57
5:P:77:THR:O	5:P:80:PRO:HD2	2.03	0.57
5:P:287:THR:HG23	5:P:290:GLU:H	1.70	0.57
5:P:376:ILE:CG2	5:P:377:ASP:H	2.13	0.57
2:C:30:LEU:HD12	2:C:30:LEU:O	2.04	0.57
2:C:334:ARG:HB3	2:C:338:GLU:CD	2.24	0.57
2:C:593:ALA:HB1	2:C:659:PRO:HD2	1.87	0.57
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.85	0.57
2:C:1081:VAL:HB	2:C:1086:ARG:HH21	1.70	0.57
3:D:388:HIS:NE2	5:F:94:LEU:HG	2.20	0.57
3:D:699:VAL:H	3:D:756:GLN:NE2	1.95	0.57
3:D:699:VAL:N	3:D:756:GLN:HE22	1.94	0.57
3:D:806:PHE:O	3:D:808:THR:N	2.37	0.57
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.87	0.57
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.34	0.57
4:E:25:LYS:HA	4:E:28:GLN:OE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:291:ILE:HD13	5:F:304:VAL:HG11	1.86	0.57
2:M:683:ASN:CA	2:M:687:ALA:HB3	2.33	0.57
3:N:1466:VAL:HG12	3:N:1467:ILE:N	2.18	0.57
1:A:30:ARG:HG3	2:C:938:LYS:HZ1	1.69	0.57
1:A:227:ASN:H	1:A:227:ASN:HD22	1.50	0.57
1:B:74:ASP:O	1:B:78:ILE:HG13	2.05	0.57
2:C:140:ILE:HG21	2:C:331:ARG:NH1	2.19	0.57
2:C:846:LYS:NZ	3:D:741:ASP:O	2.38	0.57
3:D:387:LEU:HD13	5:F:97:GLU:HB2	1.87	0.57
3:D:740:PHE:C	3:D:742:GLY:H	2.07	0.57
3:D:1001:GLU:OE2	3:D:1001:GLU:C	2.42	0.57
3:D:1036:ARG:HH21	3:D:1037:GLN:HG2	1.69	0.57
5:F:105:LYS:O	5:F:180:GLY:HA2	2.05	0.57
2:M:470:PRO:HG3	2:M:485:TYR:OH	2.05	0.57
2:M:709:GLU:OE2	2:M:824:ARG:NH1	2.38	0.57
3:N:414:ARG:HB2	3:N:418:GLY:O	2.05	0.57
3:N:517:VAL:HG12	3:N:518:PRO:O	2.04	0.57
3:N:604:THR:C	3:N:606:ILE:N	2.57	0.57
3:N:812:ALA:O	3:N:816:HIS:HB2	2.05	0.57
1:A:35:THR:O	1:A:35:THR:HG22	2.04	0.57
2:C:548:PRO:HG2	2:C:842:ARG:NH2	2.20	0.57
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.86	0.57
2:C:748:GLU:HA	2:C:799:ILE:HA	1.85	0.57
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.87	0.57
2:C:979:THR:O	2:C:981:GLU:N	2.34	0.57
2:C:1046:ALA:HB1	3:D:1472:ILE:HB	1.86	0.57
3:D:530:VAL:N	3:D:534:ARG:O	2.35	0.57
3:D:833:GLU:HG2	3:D:834:THR:HG23	1.87	0.57
3:D:1008:PHE:O	3:D:1009:LYS:C	2.43	0.57
3:D:1071:PHE:O	3:D:1071:PHE:HD1	1.87	0.57
3:D:1201:CYS:SG	3:D:1204:CYS:HB2	2.44	0.57
3:D:1341:PRO:C	3:D:1343:ALA:H	2.08	0.57
2:M:302:VAL:C	2:M:305:PRO:HD2	2.24	0.57
2:M:498:GLN:CG	2:M:516:ARG:HE	2.18	0.57
2:M:893:ALA:HB2	2:M:918:LEU:HD12	1.87	0.57
3:N:131:LYS:HD2	5:P:83:GLN:HE22	1.69	0.57
3:N:423:ASP:H	5:P:178:ARG:NH1	2.03	0.57
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.18	0.57
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.05	0.57
1:A:44:LEU:HA	1:A:48:ILE:CD1	2.35	0.57
1:A:210:ALA:O	1:A:212:ASN:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:ARG:HG3	1:B:189:ARG:NH1	2.20	0.57
3:D:714:GLN:HB3	3:D:765:SER:HB3	1.86	0.57
5:F:241:TRP:O	5:F:245:GLN:OE1	2.21	0.57
2:M:184:MET:HE1	2:M:186:VAL:HG22	1.87	0.57
3:N:135:LEU:HG	3:N:153:LEU:HD21	1.86	0.57
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.04	0.57
3:N:1286:THR:HG22	3:N:1287:GLU:N	2.19	0.57
2:C:395:LYS:O	2:C:397:GLU:HG2	2.04	0.57
2:C:1005:MET:SD	3:D:648:MET:HB2	2.44	0.57
2:C:1045:ALA:HB2	3:D:758:GLU:OE2	2.05	0.57
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.20	0.57
3:D:771:SER:HB2	3:D:778:LEU:HD22	1.86	0.57
5:F:393:THR:HG22	5:F:394:ARG:H	1.70	0.57
1:L:154:GLU:OE1	3:N:840:LYS:HG3	2.05	0.57
2:M:208:ALA:CB	2:M:218:VAL:HG11	2.35	0.57
2:M:211:LEU:HD11	2:M:308:ARG:HB2	1.86	0.57
2:M:355:VAL:HG23	2:M:372:LEU:HB3	1.87	0.57
2:M:1047:HIS:H	3:N:758:GLU:CD	2.06	0.57
2:M:1063:ARG:O	2:M:1066:ALA:N	2.36	0.57
3:N:96:ALA:N	3:N:551:ASN:HD21	2.03	0.57
3:N:1271:LYS:HZ1	3:N:1273:VAL:HA	1.70	0.57
3:N:1314:LYS:H	3:N:1314:LYS:CD	2.18	0.57
5:P:88:ILE:O	5:P:92:PRO:HG3	2.04	0.57
5:P:138:SER:C	5:P:140:ARG:H	2.06	0.57
2:C:549:PHE:HE2	2:C:887:GLU:CA	2.18	0.57
3:D:72:VAL:HG22	3:D:73:CYS:N	2.19	0.57
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.86	0.57
3:D:1267:ARG:NH2	3:D:1271:LYS:HE3	2.19	0.57
1:K:24:VAL:HG22	1:K:196:THR:HB	1.87	0.57
2:M:184:MET:HE1	2:M:186:VAL:N	2.19	0.57
2:M:269:LEU:HA	2:M:288:ARG:NE	2.14	0.57
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.18	0.57
3:N:37:LEU:CD1	3:N:529:GLN:HE21	2.15	0.57
3:N:486:ARG:CZ	3:N:489:ARG:HD3	2.35	0.57
3:N:579:ASP:O	3:N:583:ASP:N	2.34	0.57
3:N:1113:GLY:O	3:N:1114:THR:C	2.44	0.57
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.86	0.57
2:C:469:THR:HG23	2:C:471:TYR:HE1	1.69	0.56
3:D:498:VAL:HG13	3:D:499:VAL:N	2.19	0.56
3:D:564:GLU:O	3:D:566:ILE:N	2.37	0.56
3:D:790:TYR:O	3:D:791:TYR:C	2.42	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.87	0.56
3:D:1258:ARG:C	3:D:1260:ILE:N	2.56	0.56
1:L:142:VAL:HG23	1:L:142:VAL:O	2.05	0.56
2:M:490:GLU:O	2:M:493:ARG:HB2	2.05	0.56
2:M:640:ARG:HB2	2:M:642:ARG:HH12	1.69	0.56
3:N:86:ARG:O	3:N:522:PRO:HD2	2.05	0.56
3:N:600:LEU:CD2	3:N:600:LEU:H	2.12	0.56
5:P:101:GLU:HG2	5:P:102:LEU:N	2.20	0.56
5:P:171:LYS:O	5:P:175:HIS:HD2	1.88	0.56
5:P:203:THR:HG22	5:P:204:GLY:N	2.20	0.56
5:P:225:GLU:HG2	5:P:226:LYS:NZ	2.20	0.56
5:P:286:PRO:HB3	5:P:290:GLU:HB3	1.86	0.56
1:B:108:GLU:O	1:B:110:LYS:HG3	2.05	0.56
1:B:197:LEU:O	1:B:197:LEU:HD23	2.05	0.56
2:C:55:GLU:HA	2:C:64:LEU:O	2.05	0.56
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.88	0.56
2:C:337:GLY:O	2:C:340:MET:N	2.37	0.56
2:C:433:THR:O	2:C:435:TYR:N	2.36	0.56
3:D:36:THR:O	3:D:38:LYS:N	2.38	0.56
3:D:571:LYS:NZ	3:D:571:LYS:HB2	2.20	0.56
3:D:1031:ASN:HB3	3:D:1034:GLN:NE2	2.20	0.56
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.69	0.56
1:K:39:PRO:O	1:K:43:ILE:HG12	2.04	0.56
1:L:58:ILE:HG22	1:L:59:GLU:HG2	1.87	0.56
2:M:680:ASP:C	2:M:682:TYR:H	2.08	0.56
2:M:742:VAL:HG12	2:M:743:VAL:N	2.20	0.56
3:N:55:ASP:CB	3:N:82:LYS:HE2	2.32	0.56
3:N:233:LYS:HB3	3:N:233:LYS:NZ	2.20	0.56
3:N:583:ASP:OD1	3:N:604:THR:HB	2.05	0.56
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.17	0.56
1:A:30:ARG:HA	2:C:938:LYS:NZ	2.20	0.56
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.85	0.56
1:B:219:ARG:NH2	1:B:220:GLU:HB2	2.18	0.56
2:C:126:SER:HB3	2:C:395:LYS:NZ	2.20	0.56
2:C:374:ASN:O	2:C:377:PRO:HD2	2.05	0.56
2:C:384:GLU:HG2	2:C:384:GLU:O	2.05	0.56
2:C:691:SER:CB	2:C:868:ASP:HA	2.34	0.56
2:C:861:LEU:O	2:C:863:ASP:O	2.23	0.56
2:C:1081:VAL:HB	2:C:1086:ARG:NH2	2.21	0.56
3:D:34:TYR:HE2	5:F:260:ILE:HG13	1.70	0.56
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.35	0.56
3:D:218:LYS:HD3	3:D:370:ALA:HB1	1.87	0.56
3:D:221:ALA:H	3:D:367:ILE:HG22	1.69	0.56
3:D:566:ILE:HG13	5:F:192:LEU:HD11	1.87	0.56
3:D:650:LEU:HD12	3:D:657:LEU:HD22	1.88	0.56
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.40	0.56
3:D:704:ARG:HE	3:D:705:ALA:HB3	1.70	0.56
3:D:860:LEU:HB2	3:D:861:GLN:NE2	2.19	0.56
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.88	0.56
3:D:1376:MET:C	3:D:1378:TYR:H	2.05	0.56
5:F:95:THR:HG23	5:F:234:LYS:NZ	2.21	0.56
5:F:321:ILE:HD13	5:F:322:GLY:H	1.69	0.56
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.87	0.56
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.87	0.56
2:M:434:HIS:O	2:M:435:TYR:HB2	2.05	0.56
2:M:575:GLN:NE2	2:M:900:ARG:HH22	2.03	0.56
2:M:1047:HIS:CE1	3:N:754:PHE:CD1	2.94	0.56
3:N:30:GLU:HG3	3:N:41:ARG:CD	2.35	0.56
3:N:82:LYS:C	3:N:84:ILE:H	2.09	0.56
3:N:96:ALA:N	3:N:551:ASN:ND2	2.52	0.56
3:N:436:GLU:HB2	3:N:445:ARG:CB	2.34	0.56
3:N:455:ARG:HH22	5:P:140:ARG:HB3	1.69	0.56
3:N:785:ILE:HG13	3:N:939:PHE:CE2	2.40	0.56
3:N:970:LYS:HD2	3:N:995:LEU:HD13	1.86	0.56
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.34	0.56
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.87	0.56
5:P:94:LEU:HD13	5:P:95:THR:N	2.20	0.56
5:P:234:LYS:HE3	5:P:236:SER:CB	2.35	0.56
1:A:88:ARG:HH12	1:A:90:LEU:HD21	1.70	0.56
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.20	0.56
2:C:200:LEU:CD2	2:C:300:ASP:HB3	2.31	0.56
2:C:804:VAL:HG23	2:C:824:ARG:HB2	1.87	0.56
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.35	0.56
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.21	0.56
3:D:117:ASP:OD1	3:D:495:ARG:NE	2.39	0.56
3:D:572:ARG:HH21	5:F:83:GLN:NE2	2.03	0.56
3:D:770:LEU:HD23	3:D:777:PRO:CA	2.27	0.56
3:D:1131:SER:O	3:D:1132:LEU:C	2.44	0.56
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.06	0.56
5:F:188:ILE:HD13	5:F:221:ILE:HG12	1.87	0.56
5:F:333:ILE:HD12	5:F:333:ILE:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:13:VAL:CG1	1:K:14:ARG:N	2.67	0.56
1:L:156:HIS:CD2	1:L:157:GLY:N	2.69	0.56
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.40	0.56
2:M:680:ASP:O	2:M:682:TYR:N	2.39	0.56
2:M:960:GLU:O	2:M:962:GLN:N	2.37	0.56
2:M:1044:GLY:N	3:N:762:GLN:HE22	2.02	0.56
3:N:127:LEU:HD12	3:N:127:LEU:O	2.04	0.56
3:N:194:GLY:N	3:N:206:ARG:HA	2.17	0.56
3:N:231:VAL:O	3:N:378:ILE:HD13	2.06	0.56
3:N:426:LYS:HA	3:N:434:ARG:CD	2.35	0.56
3:N:625:TYR:OH	3:N:655:PRO:HG2	2.05	0.56
3:N:930:LEU:O	3:N:933:ALA:HB3	2.05	0.56
3:N:1087:ARG:HD2	3:N:1087:ARG:N	2.21	0.56
5:P:226:LYS:HG3	5:P:242:TRP:CZ2	2.40	0.56
2:C:24:GLU:O	2:C:27:ARG:HB3	2.06	0.56
2:C:842:ARG:NH2	2:C:887:GLU:OE1	2.37	0.56
2:C:923:GLU:O	2:C:927:GLY:N	2.38	0.56
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.56
3:D:785:ILE:HG23	3:D:938:GLY:HA3	1.86	0.56
3:D:914:LEU:HD23	3:D:914:LEU:O	2.06	0.56
3:D:984:THR:HG23	3:D:987:GLU:H	1.69	0.56
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.40	0.56
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.05	0.56
3:D:1161:GLU:O	3:D:1164:ARG:HB2	2.04	0.56
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.87	0.56
2:M:674:VAL:HG11	2:M:992:MET:HE1	1.87	0.56
3:N:135:LEU:HD12	3:N:148:GLU:HB2	1.87	0.56
3:N:219:GLU:O	3:N:370:ALA:HB2	2.04	0.56
3:N:654:LYS:HB2	3:N:655:PRO:HD3	1.88	0.56
3:N:893:GLU:O	3:N:896:ALA:HB3	2.04	0.56
3:N:917:GLN:O	3:N:918:ALA:C	2.44	0.56
3:N:1027:GLY:O	3:N:1028:ALA:O	2.22	0.56
3:N:1115:THR:CB	3:N:1151:ARG:HH22	2.19	0.56
3:N:1302:GLU:O	3:N:1303:TYR:CD2	2.59	0.56
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.69	0.56
4:O:80:VAL:HG13	4:O:81:PRO:HD2	1.88	0.56
1:A:142:VAL:HG23	1:A:142:VAL:O	2.04	0.56
2:C:158:TYR:CE1	2:C:314:THR:HA	2.39	0.56
2:C:435:TYR:HD1	3:D:1071:PHE:CD2	2.23	0.56
2:C:480:THR:HG22	2:C:481:ASP:H	1.70	0.56
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.35	0.56

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:139:GLN:O	2:C:333:ILE:HA	2.06	0.55
5:F:79:ASP:O	5:F:83:GLN:N	2.35	0.55
5:F:87:GLU:HA	5:F:90:GLN:NE2	2.21	0.55
5:F:141:VAL:O	5:F:145:PRO:HD2	2.06	0.55
2:M:564:MET:O	2:M:567:GLN:HB2	2.05	0.55
2:M:640:ARG:HB3	2:M:640:ARG:NH1	2.20	0.55
2:M:695:LEU:HD12	2:M:852:ILE:HG21	1.87	0.55
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.36	0.55
3:N:399:ARG:O	3:N:443:VAL:HA	2.06	0.55
3:N:485:SER:O	3:N:487:ALA:N	2.40	0.55
3:N:936:TYR:O	3:N:937:TYR:C	2.42	0.55
5:P:94:LEU:HB3	5:P:98:GLU:H	1.72	0.55
5:P:214:GLN:HA	5:P:214:GLN:NE2	2.21	0.55
1:A:42:ARG:HH12	2:C:978:ARG:HA	1.71	0.55
2:C:468:ARG:HD3	2:C:485:TYR:O	2.05	0.55
3:D:112:ILE:HD11	3:D:124:GLU:CG	2.36	0.55
3:D:645:PRO:O	3:D:648:MET:N	2.39	0.55
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.88	0.55
2:M:108:ILE:HD11	2:M:365:ASP:OD2	2.06	0.55
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.89	0.55
2:M:1007:ALA:HB1	3:N:651:GLU:HB3	1.88	0.55
2:M:1012:PRO:O	2:M:1013:TYR:CG	2.59	0.55
3:N:18:ILE:HG21	3:N:516:ALA:O	2.07	0.55
3:N:40:GLU:O	3:N:41:ARG:O	2.23	0.55
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.09	0.55
3:N:843:PHE:CD1	3:N:849:ALA:HA	2.42	0.55
3:N:1372:VAL:C	3:N:1375:MET:HG3	2.25	0.55
3:N:1377:LYS:O	3:N:1395:LEU:HB2	2.06	0.55
5:P:282:LEU:C	5:P:284:ARG:H	2.10	0.55
1:A:26:GLU:HB2	1:A:27:PRO:HA	1.89	0.55
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.71	0.55
2:C:437:ARG:NH2	2:C:491:GLU:OE2	2.39	0.55
2:C:679:PHE:HE2	2:C:853:LEU:HD21	1.72	0.55
2:C:863:ASP:CG	2:C:864:GLY:N	2.58	0.55
2:C:1019:GLN:HA	2:C:1057:SER:O	2.06	0.55
3:D:112:ILE:O	3:D:116:LEU:HB2	2.06	0.55
3:D:902:LEU:HD23	3:D:902:LEU:H	1.71	0.55
3:D:1001:GLU:O	3:D:1004:THR:HB	2.06	0.55
3:D:1094:LEU:O	3:D:1096:ARG:N	2.38	0.55
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.22	0.55
2:M:3:ILE:HD11	2:M:900:ARG:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:268:ASP:O	2:M:288:ARG:HG2	2.05	0.55
2:M:397:GLU:CG	2:M:632:ASN:H	2.20	0.55
2:M:738:ASP:CB	2:M:744:ARG:HB3	2.35	0.55
2:M:890:LEU:HD11	2:M:901:TYR:CE2	2.42	0.55
2:C:154:ARG:O	2:C:156:GLY:N	2.38	0.55
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.06	0.55
2:C:233:GLU:HA	2:C:236:ILE:HD12	1.88	0.55
2:C:338:GLU:HA	2:C:341:THR:CG2	2.36	0.55
2:C:923:GLU:O	2:C:927:GLY:HA3	2.06	0.55
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.86	0.55
3:D:709:HIS:O	3:D:712:GLY:N	2.37	0.55
3:D:841:TYR:HB3	3:D:843:PHE:CZ	2.42	0.55
5:F:96:LEU:O	5:F:100:VAL:HG23	2.06	0.55
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.42	0.55
2:M:673:LEU:HD13	2:M:895:TYR:CZ	2.42	0.55
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.89	0.55
3:N:169:TYR:N	3:N:170:PRO:HD3	2.21	0.55
3:N:573:MET:SD	5:P:210:LEU:HB3	2.47	0.55
3:N:585:GLY:O	3:N:587:ARG:N	2.38	0.55
3:N:1155:VAL:HG21	3:N:1174:LEU:HD21	1.87	0.55
3:N:1365:ASP:O	3:N:1366:LYS:C	2.45	0.55
3:N:1384:PRO:HB3	3:N:1387:SER:O	2.05	0.55
5:P:319:THR:HG22	5:P:320:PRO:HD2	1.88	0.55
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.22	0.55
2:C:102:HIS:C	2:C:104:ASP:H	2.10	0.55
2:C:252:LYS:HE2	2:C:296:GLY:HA3	1.89	0.55
2:C:694:LEU:CD2	2:C:697:ARG:HH21	2.11	0.55
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.88	0.55
3:D:388:HIS:HE2	5:F:94:LEU:HG	1.72	0.55
3:D:525:ARG:HA	3:D:538:SER:OG	2.07	0.55
3:D:628:ARG:O	3:D:629:SER:HB2	2.06	0.55
3:D:704:ARG:CD	3:D:705:ALA:H	2.19	0.55
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.70	0.55
5:F:369:LEU:CD2	5:F:373:LYS:HE2	2.37	0.55
1:L:184:THR:O	1:L:192:LEU:HB2	2.06	0.55
2:M:157:ARG:CZ	2:M:314:THR:HA	2.36	0.55
2:M:561:GLY:C	2:M:563:ASN:H	2.09	0.55
2:M:654:LEU:HD11	2:M:657:ASP:HA	1.87	0.55
3:N:376:GLU:CD	3:N:376:GLU:H	2.10	0.55
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.05	0.55
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.31	0.55
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.05	0.55
5:P:138:SER:C	5:P:140:ARG:N	2.60	0.55
5:P:367:MET:HG2	5:P:371:LEU:HG	1.88	0.55
2:C:905:ILE:CG2	2:C:906:PHE:N	2.70	0.55
2:C:1097:LEU:HD23	3:D:101:HIS:HE1	1.72	0.55
3:D:387:LEU:CD1	5:F:97:GLU:H	2.20	0.55
5:F:358:LEU:O	5:F:358:LEU:HD23	2.06	0.55
1:K:169:ALA:HB1	1:K:171:PHE:CE1	2.42	0.55
2:M:99:GLN:NE2	2:M:101:ILE:HD11	2.21	0.55
3:N:126:VAL:HG11	3:N:152:LEU:CD1	2.34	0.55
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.36	0.55
1:B:25:LEU:HD21	1:B:28:LEU:HD11	1.88	0.55
2:C:238:LEU:HA	2:C:241:LEU:HB2	1.88	0.55
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.41	0.55
3:D:1078:ARG:C	3:D:1080:GLY:H	2.09	0.55
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.87	0.55
1:K:63:HIS:CD2	1:K:66:SER:HG	2.24	0.55
2:M:458:TYR:HB3	2:M:470:PRO:CG	2.35	0.55
2:M:458:TYR:CB	2:M:470:PRO:HG2	2.36	0.55
3:N:527:MET:HE3	3:N:537:THR:HB	1.87	0.55
3:N:701:LEU:HD23	3:N:713:ILE:CG2	2.36	0.55
3:N:936:TYR:O	3:N:938:GLY:N	2.39	0.55
3:N:1289:LYS:HG2	3:N:1306:PRO:HA	1.89	0.55
5:P:163:LEU:HD13	5:P:174:LEU:CG	2.37	0.55
5:P:280:GLN:O	5:P:280:GLN:HG2	2.06	0.55
5:P:346:THR:HB	5:P:347:GLN:OE1	2.06	0.55
2:C:724:ARG:O	2:C:724:ARG:HG2	2.06	0.55
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.71	0.55
2:C:1012:PRO:O	2:C:1013:TYR:CD2	2.59	0.55
3:D:1147:ARG:CB	3:D:1188:VAL:HG21	2.37	0.55
3:D:1346:ARG:HA	3:D:1346:ARG:HH11	1.71	0.55
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.87	0.55
2:M:517:ARG:O	2:M:519:GLY:N	2.40	0.55
2:M:1005:MET:CE	3:N:648:MET:HB2	2.36	0.55
3:N:18:ILE:HD12	3:N:518:PRO:HG3	1.88	0.55
3:N:819:GLY:O	3:N:822:ALA:HB3	2.07	0.55
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.37	0.55
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	2.06	0.55
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.36	0.55
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.87	0.55

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:54:LEU:HA	4:E:58:PRO:CG	2.36	0.54
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.89	0.54
1:K:63:HIS:HD2	1:K:65:PHE:H	1.55	0.54
1:K:121:GLU:HG2	1:K:123:MET:SD	2.47	0.54
2:M:375:SER:O	2:M:379:GLU:HB2	2.06	0.54
2:M:432:ARG:NH1	3:N:1053:PHE:CZ	2.75	0.54
2:M:730:SER:OG	2:M:731:GLU:N	2.39	0.54
2:M:1047:HIS:CG	3:N:754:PHE:CD2	2.95	0.54
3:N:132:TYR:CD2	3:N:154:THR:HG22	2.41	0.54
3:N:1102:THR:O	3:N:1102:THR:HG22	2.07	0.54
3:N:1209:LEU:CD2	4:O:16:LYS:HD2	2.37	0.54
3:N:1228:SER:C	3:N:1229:ILE:HG13	2.27	0.54
3:N:1269:LYS:HE2	3:N:1269:LYS:HA	1.89	0.54
1:A:152:PRO:HB2	1:A:155:LYS:HB2	1.90	0.54
1:B:25:LEU:HD22	1:B:195:LEU:HD23	1.88	0.54
2:C:573:ARG:O	2:C:574:ALA:O	2.25	0.54
3:D:457:GLY:CA	3:D:568:ARG:HH12	2.19	0.54
3:D:569:ASN:ND2	3:D:569:ASN:O	2.39	0.54
3:D:609:GLY:HA2	3:D:613:ARG:HD2	1.90	0.54
3:D:645:PRO:O	3:D:646:LYS:C	2.45	0.54
3:D:813:LEU:O	3:D:817:GLU:HB2	2.06	0.54
3:D:1290:LEU:HD23	3:D:1291:SER:N	2.22	0.54
5:F:214:GLN:HA	5:F:214:GLN:OE1	2.06	0.54
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.37	0.54
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.71	0.54
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.21	0.54
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.88	0.54
2:M:921:ALA:O	2:M:924:VAL:N	2.41	0.54
2:M:962:GLN:O	2:M:964:LYS:N	2.40	0.54
3:N:976:GLN:HA	3:N:979:GLU:CG	2.37	0.54
3:N:1495:ILE:HD12	4:O:88:GLU:HG3	1.90	0.54
5:P:76:SER:O	5:P:79:ASP:N	2.37	0.54
5:P:358:LEU:HD21	5:P:370:LYS:NZ	2.22	0.54
1:A:146:ARG:O	1:A:146:ARG:HD3	2.07	0.54
1:B:53:VAL:HG13	1:B:142:VAL:HB	1.90	0.54
2:C:290:LEU:HB3	2:C:302:VAL:CG2	2.37	0.54
2:C:424:GLY:O	2:C:427:VAL:N	2.40	0.54
2:C:682:TYR:HA	3:D:635:PRO:HG2	1.89	0.54
2:C:926:PHE:CD1	2:C:929:ARG:HG3	2.43	0.54
2:C:1067:TYR:O	2:C:1070:ILE:HB	2.06	0.54
3:D:85:VAL:O	3:D:89:ARG:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:229:ALA:O	3:D:236:TYR:HB2	2.08	0.54
3:D:422:ALA:HB3	3:D:427:VAL:HG13	1.88	0.54
3:D:752:SER:C	3:D:754:PHE:H	2.11	0.54
3:D:886:VAL:HG11	3:D:914:LEU:HD21	1.89	0.54
3:D:1426:LYS:O	3:D:1428:ALA:N	2.40	0.54
5:F:256:ARG:NH2	5:F:258:ILE:O	2.41	0.54
5:F:386:VAL:C	5:F:388:ALA:H	2.10	0.54
1:L:223:THR:C	1:L:225:PHE:H	2.10	0.54
2:M:116:GLY:HA3	2:M:378:LEU:HD23	1.88	0.54
2:M:184:MET:SD	2:M:191:PHE:CZ	3.00	0.54
2:M:616:GLU:OE1	2:M:616:GLU:HA	2.08	0.54
2:M:1044:GLY:N	3:N:762:GLN:NE2	2.56	0.54
3:N:583:ASP:OD1	3:N:604:THR:HG21	2.07	0.54
3:N:699:VAL:CG1	3:N:717:GLN:HG2	2.37	0.54
3:N:918:ALA:O	3:N:922:LEU:N	2.39	0.54
3:N:1155:VAL:HG13	3:N:1183:ILE:HD11	1.88	0.54
3:N:1156:LEU:HG	3:N:1182:GLU:OE2	2.07	0.54
3:N:1171:VAL:O	3:N:1171:VAL:HG12	2.08	0.54
2:C:728:HIS:HB3	2:C:729:LEU:CD2	2.38	0.54
2:C:842:ARG:NH2	2:C:887:GLU:CD	2.61	0.54
2:C:918:LEU:HD23	2:C:967:PHE:O	2.07	0.54
3:D:152:LEU:H	3:D:152:LEU:CD2	2.03	0.54
3:D:554:LEU:HD13	3:D:554:LEU:C	2.28	0.54
3:D:554:LEU:HD13	3:D:554:LEU:O	2.07	0.54
3:D:869:MET:CE	3:D:894:LYS:HE3	2.37	0.54
3:D:932:ASP:HA	3:D:935:LYS:HB3	1.88	0.54
3:D:1054:GLU:O	3:D:1056:PRO:HD3	2.07	0.54
1:L:153:ALA:HB2	1:L:168:ASP:N	2.22	0.54
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.72	0.54
2:M:283:ILE:HG22	2:M:284:ARG:HG3	1.89	0.54
2:M:398:THR:CG2	2:M:635:THR:HG21	2.37	0.54
2:M:535:SER:OG	2:M:536:PRO:CD	2.55	0.54
2:M:962:GLN:O	2:M:965:GLU:N	2.40	0.54
3:N:533:GLY:HA3	5:P:309:LYS:HB3	1.89	0.54
3:N:1396:GLU:O	3:N:1399:ASP:HB2	2.08	0.54
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.87	0.54
2:C:674:VAL:HG11	2:C:992:MET:HB2	1.90	0.54
3:D:9:ARG:HH12	3:D:11:ALA:HB2	1.72	0.54
3:D:160:GLU:HG3	3:D:165:LYS:HA	1.90	0.54
3:D:671:LYS:HE3	5:F:421:PHE:O	2.07	0.54
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:52:GLU:HA	4:E:52:GLU:OE2	2.07	0.54
1:L:64:GLU:O	1:L:76:VAL:HG22	2.07	0.54
2:M:405:ARG:CZ	2:M:566:THR:HG21	2.38	0.54
2:M:904:PRO:HD2	2:M:908:GLY:CA	2.37	0.54
3:N:1065:LEU:HA	3:N:1069:GLU:OE2	2.08	0.54
3:N:1159:ARG:CZ	3:N:1159:ARG:HB2	2.38	0.54
5:P:276:ARG:HG3	5:P:276:ARG:NH1	2.23	0.54
1:B:174:VAL:HG13	1:B:200:TRP:O	2.07	0.54
2:C:548:PRO:CG	2:C:842:ARG:CZ	2.86	0.54
2:C:884:GLN:HG2	2:C:885:ILE:CD1	2.37	0.54
2:C:1038:TRP:HH2	3:D:1096:ARG:HD3	1.73	0.54
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.28	0.54
3:D:218:LYS:HD3	3:D:370:ALA:C	2.27	0.54
3:D:377:VAL:CG1	3:D:383:GLY:H	2.21	0.54
3:D:377:VAL:HG22	3:D:382:GLU:OE2	2.08	0.54
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.42	0.54
3:D:1023:MET:HA	3:D:1028:ALA:HB3	1.89	0.54
2:M:397:GLU:O	2:M:631:SER:HB2	2.08	0.54
2:M:949:LYS:HZ3	3:N:828:LYS:NZ	2.06	0.54
2:M:1037:VAL:HG12	2:M:1041:GLU:CD	2.27	0.54
3:N:826:PRO:HD2	3:N:829:VAL:CG2	2.37	0.54
3:N:1057:VAL:HG13	3:N:1069:GLU:CG	2.38	0.54
3:N:1466:VAL:CG1	3:N:1467:ILE:N	2.70	0.54
4:O:62:THR:O	4:O:62:THR:HG22	2.07	0.54
5:P:105:LYS:HE3	5:P:179:GLU:CG	2.38	0.54
5:P:377:ASP:CG	5:P:378:GLY:H	2.10	0.54
1:A:55:SER:HB2	1:A:158:ILE:CG2	2.36	0.54
2:C:252:LYS:HD3	2:C:296:GLY:HA2	1.90	0.54
2:C:495:THR:CG2	2:C:517:ARG:HE	2.21	0.54
3:D:79:GLU:O	3:D:80:VAL:HB	2.08	0.54
3:D:480:GLU:O	3:D:484:PRO:HD2	2.08	0.54
3:D:568:ARG:HA	3:D:571:LYS:HZ3	1.68	0.54
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.90	0.54
3:D:976:GLN:C	3:D:978:TYR:H	2.11	0.54
3:D:1078:ARG:O	3:D:1080:GLY:N	2.41	0.54
3:D:1481:VAL:O	3:D:1483:PHE:N	2.39	0.54
5:F:88:ILE:HD13	5:F:193:ARG:CB	2.36	0.54
1:K:180:GLN:O	1:K:195:LEU:HA	2.08	0.54
1:L:44:LEU:HD11	1:L:199:ILE:CD1	2.37	0.54
1:L:121:GLU:HG2	1:L:122:ILE:N	2.23	0.54
2:M:74:GLY:O	2:M:76:PRO:HD3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:683:ASN:CB	2:M:687:ALA:O	2.49	0.54
3:N:190:GLU:CD	3:N:190:GLU:H	2.11	0.54
3:N:441:ARG:HG2	3:N:442:ASN:H	1.73	0.54
3:N:887:ALA:CB	3:N:893:GLU:HG3	2.22	0.54
1:A:85:LEU:HB2	1:A:127:LEU:HD21	1.90	0.54
1:B:49:PRO:HA	1:B:147:GLY:O	2.07	0.54
2:C:21:ILE:HG22	2:C:335:THR:HG22	1.89	0.54
2:C:205:GLU:HG3	2:C:206:THR:N	2.22	0.54
2:C:257:VAL:HG13	2:C:263:ASP:OD2	2.07	0.54
2:C:290:LEU:CD2	2:C:302:VAL:HG21	2.37	0.54
3:D:378:ILE:CD1	3:D:378:ILE:H	2.21	0.54
3:D:387:LEU:HD13	5:F:97:GLU:CB	2.38	0.54
3:D:648:MET:O	3:D:652:LEU:HB2	2.08	0.54
3:D:858:VAL:HG12	3:D:859:ASP:O	2.06	0.54
1:K:133:GLU:HG2	1:K:134:GLU:H	1.72	0.54
1:L:137:ARG:NH1	1:L:137:ARG:HG2	2.22	0.54
1:L:158:ILE:HG22	1:L:159:LYS:N	2.21	0.54
2:M:218:VAL:HG12	2:M:222:MET:HG3	1.90	0.54
2:M:427:VAL:C	2:M:429:ASP:H	2.11	0.54
2:M:1083:GLU:O	2:M:1087:VAL:CG2	2.50	0.54
3:N:32:ILE:HG22	3:N:33:ASN:N	2.22	0.54
3:N:218:LYS:HB3	3:N:373:PRO:CA	2.38	0.54
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.89	0.54
3:N:490:ALA:O	3:N:494:LYS:HG3	2.07	0.54
3:N:545:ARG:HB3	3:N:545:ARG:HH11	1.73	0.54
3:N:658:LEU:O	3:N:661:MET:HB2	2.08	0.54
3:N:1078:ARG:O	3:N:1079:LYS:C	2.45	0.54
3:N:1271:LYS:HE3	3:N:1334:GLN:OE1	2.08	0.54
1:A:153:ALA:O	1:A:155:LYS:N	2.41	0.54
1:B:151:VAL:CB	1:B:169:ALA:HB3	2.36	0.54
2:C:762:LYS:HB2	2:C:762:LYS:NZ	2.22	0.54
2:C:983:ILE:HG23	3:D:944:THR:HA	1.88	0.54
3:D:435:VAL:HA	3:D:445:ARG:O	2.08	0.54
3:D:560:GLN:O	5:F:184:ARG:NH2	2.41	0.54
3:D:890:VAL:HG23	3:D:890:VAL:O	2.07	0.54
3:D:897:TRP:CH2	3:D:902:LEU:HD11	2.43	0.54
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.08	0.54
3:D:1081:GLY:C	3:D:1083:ASP:H	2.12	0.54
3:D:1357:ARG:O	3:D:1359:GLN:N	2.40	0.54
5:F:244:ARG:O	5:F:248:ASN:ND2	2.41	0.54
5:F:414:ARG:O	5:F:416:ARG:N	2.40	0.54

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:122:LEU:CD2	5:F:159:ILE:HG23	2.39	0.53
2:M:495:THR:HG23	2:M:517:ARG:NE	2.24	0.53
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.91	0.53
2:M:988:VAL:O	2:M:989:VAL:CG1	2.57	0.53
3:N:96:ALA:HB2	3:N:551:ASN:ND2	2.24	0.53
3:N:452:ILE:HG23	3:N:452:ILE:O	2.09	0.53
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.42	0.53
3:N:1087:ARG:NE	3:N:1087:ARG:HA	2.24	0.53
3:N:1231:GLU:N	3:N:1232:PRO:CD	2.71	0.53
3:N:1256:LEU:O	3:N:1258:ARG:N	2.42	0.53
3:N:1268:PRO:CB	3:N:1329:ALA:HB3	2.39	0.53
1:A:43:ILE:HD12	1:B:32:PHE:CZ	2.43	0.53
1:A:198:ARG:O	1:A:200:TRP:CZ3	2.61	0.53
1:B:54:THR:O	1:B:167:VAL:HB	2.09	0.53
2:C:502:PRO:CB	2:C:509:ALA:HB3	2.38	0.53
2:C:602:GLU:HA	2:C:647:GLN:O	2.09	0.53
2:C:615:TYR:C	2:C:617:ASP:H	2.12	0.53
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.43	0.53
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.91	0.53
2:C:1009:SER:O	3:D:624:ASP:O	2.27	0.53
2:C:1058:ASP:HB2	3:D:621:LYS:NZ	2.23	0.53
3:D:217:LYS:NZ	3:D:217:LYS:CB	2.67	0.53
3:D:907:GLU:CG	3:D:908:LYS:H	2.21	0.53
2:M:12:VAL:HG13	2:M:13:ILE:HG12	1.90	0.53
2:M:124:ASP:HB2	2:M:407:LYS:NZ	2.23	0.53
2:M:470:PRO:CB	2:M:534:VAL:HG21	2.38	0.53
2:M:549:PHE:CE2	2:M:887:GLU:HA	2.40	0.53
2:M:627:ARG:HG3	2:M:628:PHE:H	1.73	0.53
2:M:674:VAL:HB	2:M:869:VAL:HG13	1.91	0.53
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.90	0.53
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.08	0.53
3:N:78:VAL:HG12	3:N:79:GLU:O	2.09	0.53
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.91	0.53
3:N:601:ARG:NE	3:N:605:ASP:HB2	2.24	0.53
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.38	0.53
3:N:1401:GLU:O	3:N:1405:GLU:HG3	2.09	0.53
4:O:53:GLY:HA2	4:O:55:PHE:HD2	1.73	0.53
5:P:318:GLU:HG3	5:P:318:GLU:O	2.07	0.53
5:P:416:ARG:HD3	5:P:419:ARG:CG	2.37	0.53
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.36	0.53
2:C:97:ARG:NH2	2:C:109:LYS:HD2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:O	2:C:559:LEU:HD11	2.09	0.53
2:C:517:ARG:HH21	2:C:524:VAL:CG2	2.22	0.53
2:C:776:SER:HA	2:C:780:GLU:CA	2.39	0.53
2:C:799:ILE:O	2:C:799:ILE:HG12	2.08	0.53
3:D:34:TYR:OH	5:F:264:MET:HG3	2.09	0.53
3:D:374:GLU:HG2	3:D:386:HIS:CA	2.31	0.53
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.38	0.53
1:K:150:TYR:HA	1:K:169:ALA:O	2.08	0.53
2:M:326:ASP:O	2:M:327:HIS:C	2.47	0.53
2:M:551:GLU:C	2:M:553:ASP:H	2.12	0.53
2:M:1033:GLY:HA2	3:N:620:GLY:HA2	1.90	0.53
2:M:1092:LEU:HD23	2:M:1099:VAL:HG13	1.91	0.53
3:N:197:SER:CB	3:N:203:ALA:HB3	2.39	0.53
3:N:382:GLU:HG2	3:N:383:GLY:N	2.24	0.53
3:N:563:PRO:HG2	5:P:188:ILE:HG21	1.90	0.53
3:N:568:ARG:O	3:N:571:LYS:N	2.42	0.53
3:N:609:GLY:HA3	3:N:613:ARG:HB3	1.89	0.53
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.32	0.53
3:N:717:GLN:NE2	3:N:760:ARG:NH2	2.57	0.53
3:N:780:LYS:HG3	3:N:780:LYS:O	2.08	0.53
3:N:908:LYS:O	3:N:912:LYS:N	2.27	0.53
3:N:911:LEU:O	3:N:914:LEU:N	2.42	0.53
3:N:1108:ARG:NH1	3:N:1198:TYR:O	2.42	0.53
5:P:130:VAL:C	5:P:132:ARG:H	2.11	0.53
1:B:212:ASN:HD22	1:B:212:ASN:N	2.06	0.53
1:B:219:ARG:HE	1:B:220:GLU:N	2.07	0.53
2:C:72:ARG:HH21	2:C:112:GLU:HG3	1.73	0.53
2:C:498:GLN:NE2	2:C:533:ASP:OD2	2.41	0.53
2:C:829:GLN:CG	2:C:831:ARG:HH11	2.22	0.53
2:C:936:VAL:HB	2:C:940:GLU:HB3	1.90	0.53
3:D:23:TYR:HE2	3:D:89:ARG:NH1	2.07	0.53
3:D:141:ILE:HG22	3:D:142:LEU:H	1.74	0.53
3:D:495:ARG:O	3:D:499:VAL:HG23	2.09	0.53
3:D:1074:SER:O	3:D:1075:HIS:C	2.45	0.53
2:M:432:ARG:HH22	3:N:1047:LYS:HZ2	1.54	0.53
3:N:86:ARG:NH1	3:N:522:PRO:HB2	2.24	0.53
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.23	0.53
3:N:558:LEU:O	3:N:559:ALA:C	2.48	0.53
3:N:699:VAL:HB	3:N:716:PHE:O	2.08	0.53
3:N:954:ALA:CA	3:N:1039:CYS:SG	2.95	0.53
3:N:1090:ASP:C	3:N:1092:GLY:N	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1107:VAL:HG23	3:N:1221:VAL:HG21	1.91	0.53
3:N:1144:LEU:CD2	3:N:1166:LEU:HD11	2.21	0.53
3:N:1150:ALA:N	3:N:1187:PRO:O	2.42	0.53
3:N:1376:MET:CE	3:N:1421:LEU:HB2	2.38	0.53
5:P:288:TYR:O	5:P:291:ILE:HG23	2.09	0.53
2:C:266:ARG:HD3	2:C:288:ARG:HH11	1.73	0.52
2:C:795:GLY:O	2:C:796:GLU:CG	2.57	0.52
2:C:919:ALA:N	2:C:968:LEU:HD21	2.22	0.52
3:D:91:GLY:O	3:D:519:VAL:N	2.42	0.52
3:D:537:THR:HG23	3:D:537:THR:O	2.08	0.52
3:D:733:CYS:SG	3:D:740:PHE:HZ	2.32	0.52
4:E:41:GLU:HB3	4:E:42:PRO:HD3	1.90	0.52
5:F:77:THR:C	5:F:80:PRO:HD2	2.29	0.52
1:K:197:LEU:HD23	1:K:197:LEU:H	1.74	0.52
2:M:41:ASN:ND2	2:M:41:ASN:H	2.07	0.52
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.44	0.52
2:M:692:GLU:O	2:M:692:GLU:HG2	2.08	0.52
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.09	0.52
3:N:49:ILE:HG22	3:N:50:PHE:N	2.24	0.52
3:N:97:THR:CG2	3:N:571:LYS:HD3	2.39	0.52
3:N:145:VAL:HG13	3:N:146:PRO:HD2	1.91	0.52
3:N:177:ALA:CB	3:N:199:LEU:HD13	2.39	0.52
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.49	0.52
3:N:1344:VAL:O	3:N:1344:VAL:HG12	2.07	0.52
3:N:1442:ASN:O	3:N:1443:THR:C	2.46	0.52
5:P:389:PHE:CE2	5:P:397:ILE:HD11	2.43	0.52
1:A:198:ARG:HD3	1:A:200:TRP:CH2	2.44	0.52
1:B:29:GLU:O	1:B:32:PHE:HB2	2.08	0.52
2:C:273:GLY:HA2	2:C:276:LYS:HZ3	1.74	0.52
2:C:575:GLN:H	2:C:667:ALA:HB1	1.75	0.52
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.74	0.52
3:D:141:ILE:CD1	3:D:449:SER:HA	2.39	0.52
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.90	0.52
3:D:994:GLN:O	3:D:998:GLU:HG3	2.08	0.52
3:D:1102:THR:O	3:D:1222:GLY:HA3	2.09	0.52
3:D:1331:ASP:HB3	3:D:1334:GLN:HG3	1.91	0.52
5:F:210:LEU:HD23	5:F:213:ILE:HD12	1.91	0.52
2:M:98:LEU:O	2:M:109:LYS:HG3	2.09	0.52
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.30	0.52
2:M:1054:THR:CG2	2:M:1059:ASP:HB2	2.39	0.52
2:M:1056:LYS:HE2	3:N:623:VAL:CG1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:162:ARG:HA	3:N:449:SER:HB3	1.91	0.52
3:N:388:HIS:CB	5:P:94:LEU:HD21	2.34	0.52
3:N:656:PHE:CZ	3:N:751:LEU:HD23	2.44	0.52
3:N:660:LYS:HG2	3:N:694:VAL:CG2	2.39	0.52
3:N:1008:PHE:O	3:N:1012:GLU:HB2	2.09	0.52
3:N:1330:ILE:HD12	3:N:1347:TYR:CD1	2.43	0.52
1:A:8:ALA:O	1:A:9:PRO:C	2.45	0.52
1:B:25:LEU:CD2	1:B:195:LEU:HD23	2.39	0.52
1:B:173:PRO:HB3	1:B:204:SER:HB3	1.90	0.52
2:C:474:VAL:HG22	2:C:476:GLY:O	2.09	0.52
3:D:119:SER:HB2	3:D:123:LEU:CB	2.37	0.52
3:D:119:SER:N	3:D:123:LEU:HB2	2.24	0.52
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.72	0.52
3:D:1026:SER:O	3:D:1028:ALA:N	2.42	0.52
3:D:1152:GLU:O	3:D:1153:VAL:HG23	2.10	0.52
3:D:1209:LEU:O	3:D:1210:SER:C	2.46	0.52
3:D:1370:ILE:HG22	3:D:1371:VAL:H	1.73	0.52
1:K:227:ASN:CG	1:K:227:ASN:O	2.48	0.52
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.90	0.52
2:M:401:LEU:HD12	2:M:401:LEU:O	2.09	0.52
3:N:84:ILE:C	3:N:86:ARG:H	2.10	0.52
3:N:525:ARG:O	3:N:526:PRO:O	2.28	0.52
3:N:871:LYS:HB3	3:N:873:LEU:HG	1.91	0.52
3:N:1479:ASP:HA	3:N:1482:ARG:CB	2.39	0.52
3:D:203:ALA:O	3:D:204:LEU:HD23	2.10	0.52
3:D:218:LYS:NZ	3:D:370:ALA:CA	2.65	0.52
3:D:223:LEU:H	3:D:365:ASP:HB2	1.74	0.52
3:D:572:ARG:NH2	5:F:79:ASP:OD1	2.42	0.52
3:D:579:ASP:O	3:D:581:LEU:N	2.43	0.52
3:D:864:VAL:HG12	3:D:865:THR:N	2.24	0.52
3:D:1129:THR:CG2	3:D:1130:ARG:H	1.98	0.52
1:L:2:LEU:O	1:L:6:LEU:HB3	2.10	0.52
1:L:206:THR:HG22	1:L:209:GLU:CB	2.39	0.52
2:M:195:LEU:O	2:M:199:VAL:HG23	2.10	0.52
2:M:276:LYS:HG2	2:M:280:LYS:HZ2	1.74	0.52
2:M:395:LYS:HE2	2:M:397:GLU:HB3	1.91	0.52
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.91	0.52
2:M:808:ARG:HH21	2:M:820:ARG:NH2	2.08	0.52
3:N:39:PRO:HG2	3:N:47:GLU:OE2	2.10	0.52
3:N:84:ILE:O	3:N:85:VAL:C	2.46	0.52
3:N:93:ILE:HG13	3:N:519:VAL:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:116:LEU:HB2	3:N:118:LEU:HD13	1.92	0.52
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.74	0.52
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.24	0.52
3:N:1330:ILE:HD12	3:N:1347:TYR:CE1	2.43	0.52
3:N:1382:THR:C	3:N:1384:PRO:HD3	2.29	0.52
5:P:196:VAL:HG13	5:P:209:PHE:CZ	2.43	0.52
5:P:354:LEU:HG	5:P:418:LEU:HD21	1.91	0.52
1:B:145:ASP:HB2	1:B:171:PHE:HZ	1.73	0.52
2:C:71:TYR:HA	2:C:96:ALA:CB	2.39	0.52
2:C:607:ASP:HB3	2:C:609:ASN:H	1.75	0.52
2:C:1102:LEU:HD13	3:D:9:ARG:CB	2.39	0.52
3:D:422:ALA:CB	3:D:427:VAL:HG22	2.32	0.52
3:D:1147:ARG:HH12	3:D:1190:SER:HB2	1.74	0.52
4:E:53:GLY:O	4:E:55:PHE:N	2.43	0.52
1:L:76:VAL:HG13	1:L:79:ILE:HD11	1.91	0.52
1:L:85:LEU:HA	1:L:127:LEU:HD22	1.91	0.52
2:M:1052:MET:SD	2:M:1056:LYS:NZ	2.81	0.52
3:N:27:GLU:CG	3:N:42:ASP:HB2	2.39	0.52
3:N:541:ASN:HD22	3:N:541:ASN:N	2.07	0.52
3:N:785:ILE:HD11	3:N:939:PHE:CZ	2.44	0.52
3:N:845:ASN:H	3:N:848:GLU:CG	2.11	0.52
3:N:1057:VAL:HG13	3:N:1069:GLU:HG2	1.91	0.52
5:P:134:LYS:HE3	5:P:134:LYS:HA	1.91	0.52
1:A:20:TYR:CD1	1:A:21:GLY:N	2.78	0.52
1:A:34:VAL:CB	1:B:42:ARG:NH2	2.72	0.52
1:A:94:LEU:HD11	1:A:119:ASP:CB	2.39	0.52
2:C:495:THR:HB	2:C:530:GLU:HG3	1.91	0.52
2:C:876:VAL:O	2:C:879:ARG:O	2.28	0.52
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.10	0.52
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.92	0.52
3:D:65:ARG:HB2	5:F:375:LEU:O	2.10	0.52
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.40	0.52
3:D:154:THR:HG22	3:D:155:ASP:N	2.24	0.52
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.91	0.52
1:L:123:MET:C	1:L:125:PRO:HD3	2.29	0.52
2:M:155:PRO:HG2	3:N:1246:VAL:HG12	1.92	0.52
2:M:579:VAL:HA	2:M:901:TYR:O	2.09	0.52
2:M:599:GLU:HA	2:M:651:LYS:HB2	1.91	0.52
2:M:700:TYR:HB2	2:M:833:LEU:HB2	1.91	0.52
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.45	0.52
3:N:535:PHE:O	5:P:314:PRO:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.92	0.52
1:A:44:LEU:O	1:A:48:ILE:HD12	2.10	0.52
1:A:209:GLU:O	1:A:213:GLN:HG3	2.10	0.52
2:C:69:LEU:HD21	2:C:99:GLN:OE1	2.10	0.52
2:C:410:ILE:HD12	2:C:455:LEU:HB3	1.91	0.52
3:D:83:SER:O	3:D:85:VAL:N	2.43	0.52
3:D:139:GLY:O	3:D:147:VAL:HG22	2.09	0.52
3:D:601:ARG:HB2	5:F:318:GLU:OE1	2.10	0.52
3:D:633:VAL:HG13	3:D:635:PRO:HD3	1.92	0.52
3:D:796:ARG:HD3	3:D:862:ASP:OD1	2.10	0.52
1:L:176:ARG:H	1:L:200:TRP:HB2	1.74	0.52
2:M:129:ILE:N	2:M:129:ILE:CD1	2.73	0.52
2:M:736:ASP:HB3	2:M:743:VAL:HG23	1.92	0.52
2:M:1031:ARG:HA	3:N:621:LYS:O	2.09	0.52
3:N:62:LYS:HE2	3:N:75:ARG:HD3	1.92	0.52
3:N:423:ASP:N	5:P:178:ARG:HH12	2.06	0.52
3:N:574:LEU:O	3:N:578:VAL:HG23	2.10	0.52
3:N:691:LEU:HD21	3:N:720:LEU:HD21	1.91	0.52
5:P:322:GLY:O	5:P:324:GLU:N	2.41	0.52
1:A:198:ARG:O	1:A:200:TRP:HZ3	1.92	0.52
1:B:12:THR:OG1	1:B:24:VAL:HB	2.08	0.52
2:C:194:VAL:HG21	2:C:221:LEU:O	2.10	0.52
2:C:243:ARG:O	2:C:243:ARG:HD2	2.10	0.52
2:C:548:PRO:CG	2:C:842:ARG:NH2	2.73	0.52
2:C:709:GLU:HG2	2:C:710:ILE:N	2.24	0.52
2:C:944:LEU:O	2:C:947:ALA:HB3	2.09	0.52
3:D:72:VAL:HG22	3:D:73:CYS:H	1.75	0.52
3:D:474:GLU:OE1	3:D:500:ARG:HD3	2.10	0.52
3:D:853:VAL:HA	3:D:858:VAL:O	2.10	0.52
3:D:1008:PHE:O	3:D:1011:PHE:N	2.43	0.52
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.27	0.52
3:D:1368:ILE:O	3:D:1372:VAL:HG23	2.09	0.52
5:F:269:ASN:CB	5:F:273:ARG:HH21	2.08	0.52
1:K:122:ILE:HG22	1:K:124:ASN:H	1.74	0.52
2:M:418:LEU:HD22	2:M:418:LEU:N	2.25	0.52
2:M:545:ASN:HA	2:M:905:ILE:HG21	1.90	0.52
2:M:890:LEU:HD11	2:M:901:TYR:CD2	2.45	0.52
3:N:455:ARG:HG2	3:N:455:ARG:HH11	1.73	0.52
3:N:502:PHE:HZ	3:N:1452:ILE:HG13	1.72	0.52
3:N:545:ARG:O	3:N:549:ASN:HB2	2.09	0.52
3:N:556:LYS:NZ	5:P:218:GLN:NE2	2.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.09	0.52
3:N:1282:ARG:HB3	3:N:1282:ARG:CZ	2.38	0.52
3:N:1311:LEU:HA	3:N:1326:THR:HA	1.91	0.52
4:O:51:LEU:CG	4:O:52:GLU:H	2.16	0.52
1:B:24:VAL:HG12	1:B:25:LEU:N	2.25	0.52
2:C:841:ASN:ND2	2:C:841:ASN:O	2.25	0.52
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.44	0.52
3:D:604:THR:HA	3:D:607:LEU:HG	1.91	0.52
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.39	0.52
3:D:915:VAL:O	3:D:918:ALA:N	2.42	0.52
5:F:136:LEU:HD12	5:F:137:GLY:N	2.25	0.52
1:L:94:LEU:HD11	1:L:119:ASP:CB	2.40	0.52
2:M:196:LEU:HA	2:M:199:VAL:HG23	1.91	0.52
2:M:578:VAL:HG23	2:M:579:VAL:CG1	2.30	0.52
3:N:396:VAL:HG12	3:N:397:LYS:N	2.24	0.52
3:N:760:ARG:HD3	4:O:61:GLU:OE1	2.10	0.52
3:N:763:MET:O	3:N:764:LEU:O	2.28	0.52
1:A:51:THR:HG22	1:A:146:ARG:CA	2.39	0.52
1:B:73:GLU:HB2	1:B:78:ILE:HG12	1.92	0.52
1:B:138:LEU:HD23	1:B:138:LEU:O	2.10	0.52
1:B:150:TYR:HA	1:B:169:ALA:O	2.10	0.52
2:C:281:LEU:HD23	2:C:281:LEU:N	2.24	0.52
2:C:841:ASN:HD22	2:C:843:HIS:H	1.58	0.52
3:D:1099:VAL:HG22	3:D:1226:ALA:HB1	1.91	0.52
3:D:1103:HIS:CD2	3:D:1462:LEU:H	2.27	0.52
3:D:1304:LYS:O	3:D:1306:PRO:HD3	2.10	0.52
3:D:1361:VAL:O	3:D:1362:LYS:HD3	2.09	0.52
5:F:140:ARG:HG3	5:F:141:VAL:N	2.25	0.52
1:L:87:VAL:HG21	1:L:144:VAL:CG1	2.40	0.52
2:M:192:PRO:O	2:M:195:LEU:HB3	2.10	0.52
2:M:265:ARG:NE	2:M:267:TYR:HA	2.16	0.52
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.74	0.52
2:M:374:ASN:O	2:M:377:PRO:HD2	2.10	0.52
2:M:1043:TYR:C	2:M:1045:ALA:N	2.64	0.52
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.45	0.52
3:N:28:LYS:HB3	3:N:30:GLU:HG2	1.92	0.52
3:N:423:ASP:N	5:P:178:ARG:NH1	2.58	0.52
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.90	0.52
3:N:646:LYS:HD3	3:N:722:GLU:OE2	2.10	0.52
3:N:1096:ARG:HH11	3:N:1096:ARG:CG	2.23	0.52
5:P:169:GLU:O	5:P:172:ARG:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:ALA:C	1:A:212:ASN:H	2.12	0.51
1:B:58:ILE:HB	1:B:61:VAL:HB	1.93	0.51
1:B:108:GLU:CG	1:B:131:THR:HG22	2.36	0.51
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.10	0.51
2:C:979:THR:C	2:C:981:GLU:N	2.63	0.51
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.92	0.51
3:D:653:PHE:CG	3:D:695:ILE:HD11	2.44	0.51
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.91	0.51
3:D:940:THR:O	3:D:941:PHE:C	2.47	0.51
3:D:1442:ASN:HD22	3:D:1446:VAL:CG2	2.23	0.51
3:D:1465:ASN:ND2	3:D:1470:ARG:NH1	2.58	0.51
3:D:1475:GLY:C	3:D:1477:GLY:N	2.61	0.51
2:M:138:SER:HA	2:M:339:LEU:HD11	1.92	0.51
2:M:495:THR:CG2	2:M:517:ARG:HE	2.21	0.51
3:N:47:GLU:OE1	3:N:52:PRO:HA	2.10	0.51
3:N:504:ASP:O	3:N:506:GLY:N	2.43	0.51
3:N:668:PRO:HD2	3:N:672:ALA:HB1	1.91	0.51
3:N:759:ALA:HA	3:N:763:MET:HB2	1.91	0.51
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.75	0.51
3:N:1116:ASN:N	3:N:1116:ASN:ND2	2.53	0.51
3:N:1271:LYS:HD3	3:N:1271:LYS:C	2.31	0.51
5:P:102:LEU:O	5:P:103:ALA:C	2.47	0.51
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.92	0.51
3:D:659:LYS:C	3:D:659:LYS:HD3	2.30	0.51
3:D:1088:THR:O	3:D:1089:ALA:C	2.47	0.51
1:L:2:LEU:HA	1:L:6:LEU:HB2	1.92	0.51
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.10	0.51
2:M:580:MET:HE3	2:M:902:ILE:HD11	1.91	0.51
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.74	0.51
2:M:1109:VAL:HG11	3:N:3:LYS:O	2.11	0.51
3:N:162:ARG:HA	3:N:449:SER:CB	2.40	0.51
3:N:217:LYS:NZ	3:N:219:GLU:HB3	2.25	0.51
3:N:560:GLN:HE21	3:N:560:GLN:CA	2.18	0.51
3:N:711:LEU:O	3:N:712:GLY:C	2.48	0.51
3:N:1066:THR:HG23	3:N:1069:GLU:CG	2.39	0.51
3:N:1344:VAL:HG11	3:N:1421:LEU:HD22	1.92	0.51
3:N:1465:ASN:OD1	3:N:1465:ASN:O	2.28	0.51
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.92	0.51
2:C:7:GLY:HA3	2:C:907:ASP:O	2.11	0.51
2:C:26:TYR:HA	2:C:29:ALA:CB	2.40	0.51
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1044:GLY:O	3:D:1475:GLY:HA3	2.11	0.51
3:D:547:LEU:O	3:D:548:ILE:C	2.48	0.51
3:D:584:ASN:OD1	3:D:590:PRO:CD	2.54	0.51
3:D:1404:ASN:CG	3:D:1408:ILE:HD12	2.31	0.51
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.11	0.51
4:E:44:GLU:O	4:E:45:ARG:HD3	2.10	0.51
5:F:152:ASP:CB	5:F:153:PRO:HD3	2.40	0.51
1:K:18:ARG:O	1:K:207:PRO:HD3	2.11	0.51
2:M:279:GLU:OE2	2:M:280:LYS:HE3	2.10	0.51
2:M:335:THR:O	2:M:339:LEU:HG	2.11	0.51
2:M:517:ARG:HG3	2:M:517:ARG:HH11	1.76	0.51
2:M:535:SER:OG	2:M:537:LYS:HD3	2.09	0.51
2:M:544:THR:HG22	2:M:550:LEU:HD21	1.93	0.51
2:M:1101:THR:O	2:M:1102:LEU:HD12	2.10	0.51
3:N:103:TRP:NE1	3:N:583:ASP:OD2	2.42	0.51
3:N:401:TYR:N	3:N:402:PRO:HD3	2.26	0.51
3:N:950:GLY:O	3:N:953:ASP:N	2.43	0.51
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.92	0.51
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.09	0.51
3:N:1478:SER:C	3:N:1480:PHE:N	2.63	0.51
5:P:95:THR:HG22	5:P:96:LEU:HG	1.92	0.51
5:P:214:GLN:O	5:P:217:ASN:N	2.44	0.51
5:P:396:ARG:CA	5:P:399:GLN:HB2	2.40	0.51
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.40	0.51
2:C:759:THR:HB	2:C:785:VAL:HG21	1.91	0.51
2:C:983:ILE:O	2:C:985:GLY:N	2.43	0.51
2:C:1047:HIS:ND1	3:D:1471:LEU:HD13	2.25	0.51
3:D:135:LEU:CD1	3:D:452:ILE:HD11	2.39	0.51
3:D:137:PRO:HD2	3:D:453:ASP:HB3	1.91	0.51
3:D:159:ARG:HG3	3:D:159:ARG:NH1	2.24	0.51
3:D:895:VAL:C	3:D:897:TRP:H	2.14	0.51
3:D:935:LYS:O	3:D:935:LYS:HG2	2.10	0.51
1:K:5:LYS:HA	1:K:5:LYS:HE3	1.93	0.51
1:K:23:PHE:O	1:K:196:THR:HA	2.10	0.51
1:L:137:ARG:HH22	1:L:139:ASN:HD22	1.58	0.51
2:M:561:GLY:C	2:M:563:ASN:N	2.63	0.51
2:M:881:ASN:ND2	2:M:881:ASN:N	2.56	0.51
2:M:1000:MET:CE	2:M:1001:VAL:HG22	2.39	0.51
3:N:188:GLY:HA2	3:N:210:ARG:NH1	2.26	0.51
3:N:477:LEU:HD22	3:N:492:ALA:O	2.10	0.51
3:N:900:ILE:C	3:N:901:GLN:HG2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1425:THR:HG22	3:N:1426:LYS:N	2.24	0.51
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.10	0.51
5:P:300:ASP:CG	5:P:301:ALA:N	2.63	0.51
5:P:325:LYS:HB3	5:P:326:ASP:OD1	2.10	0.51
5:P:365:GLU:HA	5:P:368:VAL:HB	1.91	0.51
1:A:132:LEU:N	1:A:132:LEU:HD12	2.25	0.51
1:A:210:ALA:C	1:A:212:ASN:N	2.64	0.51
1:B:59:GLU:OE1	1:B:137:ARG:HG2	2.11	0.51
2:C:266:ARG:HG2	2:C:273:GLY:HA3	1.93	0.51
2:C:549:PHE:CE2	2:C:887:GLU:N	2.76	0.51
2:C:896:PHE:CZ	2:C:925:TYR:HB2	2.46	0.51
3:D:65:ARG:CG	3:D:66:GLN:H	2.24	0.51
3:D:91:GLY:O	3:D:519:VAL:HB	2.11	0.51
3:D:568:ARG:O	3:D:571:LYS:N	2.44	0.51
3:D:1000:THR:HG23	3:D:1041:LEU:HD21	1.92	0.51
4:E:40:LEU:HD13	4:E:45:ARG:HD2	1.92	0.51
1:L:132:LEU:HD21	1:L:138:LEU:HB2	1.92	0.51
2:M:244:PRO:CD	2:M:245:GLY:N	2.74	0.51
2:M:288:ARG:O	2:M:288:ARG:HD3	2.11	0.51
2:M:393:GLN:OE1	2:M:393:GLN:N	2.40	0.51
2:M:580:MET:HB2	2:M:902:ILE:HG12	1.92	0.51
2:M:599:GLU:HA	2:M:651:LYS:CB	2.40	0.51
3:N:427:VAL:O	3:N:433:GLY:O	2.28	0.51
3:N:987:GLU:O	3:N:991:GLN:HB2	2.10	0.51
5:P:261:PRO:O	5:P:265:VAL:HG23	2.11	0.51
2:C:18:LEU:H	2:C:18:LEU:HD12	1.75	0.51
2:C:221:LEU:O	2:C:221:LEU:HG	2.10	0.51
2:C:486:MET:HE2	2:C:496:ILE:HD11	1.93	0.51
2:C:559:LEU:O	2:C:562:SER:N	2.44	0.51
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.25	0.51
3:D:396:VAL:HG12	3:D:397:LYS:N	2.24	0.51
3:D:541:ASN:O	3:D:545:ARG:HG3	2.11	0.51
3:D:596:SER:C	3:D:598:ARG:H	2.13	0.51
3:D:625:TYR:CE1	3:D:751:LEU:HD11	2.45	0.51
3:D:679:ARG:NH2	3:D:681:ARG:HE	2.06	0.51
3:D:681:ARG:HG3	3:D:682:ASP:N	2.26	0.51
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.92	0.51
3:D:1138:ALA:O	3:D:1140:ILE:N	2.43	0.51
1:K:13:VAL:HG12	1:K:14:ARG:H	1.74	0.51
1:L:132:LEU:HD12	1:L:132:LEU:N	2.25	0.51
2:M:397:GLU:HG2	2:M:632:ASN:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.92	0.51
2:M:494:TYR:CD1	2:M:531:PHE:CE1	2.99	0.51
2:M:745:ILE:HG22	2:M:746:GLY:H	1.75	0.51
2:M:1059:ASP:OD2	2:M:1080:SER:HB2	2.11	0.51
3:N:40:GLU:CG	3:N:41:ARG:H	2.19	0.51
3:N:172:PRO:CB	3:N:178:LEU:HD22	2.41	0.51
3:N:560:GLN:HG2	5:P:221:ILE:HG21	1.93	0.51
3:N:660:LYS:O	3:N:664:LYS:HB2	2.10	0.51
3:N:1135:ARG:CB	3:N:1135:ARG:HH11	2.22	0.51
3:N:1135:ARG:C	3:N:1136:LYS:O	2.45	0.51
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	2.07	0.51
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.10	0.51
3:N:1478:SER:O	3:N:1480:PHE:N	2.44	0.51
4:O:40:LEU:HB2	4:O:45:ARG:NE	2.25	0.51
5:P:170:HIS:O	5:P:173:TYR:HB2	2.11	0.51
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.31	0.51
2:C:704:HIS:CD2	2:C:831:ARG:HH22	2.28	0.51
2:C:717:LEU:HD21	2:C:764:GLU:O	2.11	0.51
3:D:493:ARG:HE	3:D:1389:LEU:CD2	2.23	0.51
3:D:783:ARG:HE	3:D:1029:ARG:CZ	2.24	0.51
3:D:1368:ILE:O	3:D:1368:ILE:HG22	2.11	0.51
4:E:40:LEU:HB2	4:E:45:ARG:NE	2.25	0.51
5:F:120:THR:CG2	5:F:122:LEU:HD13	2.20	0.51
1:K:189:ARG:NH1	1:L:155:LYS:CE	2.74	0.51
3:N:35:ARG:HH11	3:N:35:ARG:CB	2.23	0.51
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.92	0.51
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	1.92	0.51
3:N:1313:VAL:HG23	3:N:1314:LYS:NZ	2.25	0.51
1:A:20:TYR:OH	1:A:198:ARG:NH2	2.44	0.51
1:A:101:LEU:HD12	1:A:102:LYS:N	2.26	0.51
2:C:1:MET:SD	2:C:900:ARG:NH1	2.84	0.51
2:C:607:ASP:HB2	2:C:610:ARG:CG	2.41	0.51
2:C:724:ARG:C	2:C:725:ASP:OD2	2.49	0.51
2:C:734:LEU:CD1	2:C:737:LEU:HD22	2.41	0.51
2:C:1050:GLN:HG3	3:D:1469:GLY:O	2.11	0.51
2:C:1117:SER:O	3:D:23:TYR:OH	2.19	0.51
3:D:186:VAL:HG13	3:D:187:LYS:N	2.26	0.51
3:D:1105:ILE:HD11	3:D:1374:GLN:CD	2.30	0.51
5:F:101:GLU:O	5:F:105:LYS:HG3	2.11	0.51
1:K:109:VAL:CG2	1:K:132:LEU:HD13	2.39	0.51
1:K:110:LYS:N	1:K:113:ASP:OD2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:682:TYR:CG	3:N:635:PRO:HG2	2.45	0.51
2:M:686:ASP:O	3:N:740:PHE:HB2	2.11	0.51
2:M:766:GLU:OE1	3:N:54:LYS:HG2	2.11	0.51
2:M:1018:GLN:CG	2:M:1060:ILE:HD11	2.30	0.51
3:N:23:TYR:O	3:N:24:GLY:O	2.29	0.51
3:N:208:PRO:HB2	3:N:395:VAL:CG1	2.41	0.51
3:N:553:ARG:NE	5:P:214:GLN:HB3	2.25	0.51
4:O:14:ASP:OD1	4:O:18:ARG:NH1	2.44	0.51
5:P:132:ARG:HB3	5:P:136:LEU:HD21	1.91	0.51
5:P:360:LYS:O	5:P:361:LEU:HD23	2.10	0.51
1:A:124:ASN:OD1	1:A:127:LEU:HB3	2.10	0.51
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.11	0.51
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.93	0.51
3:D:877:PRO:O	3:D:880:ILE:HG22	2.10	0.51
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.09	0.51
3:D:1147:ARG:HB2	3:D:1188:VAL:HG21	1.93	0.51
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.46	0.51
5:F:368:VAL:HG11	5:F:389:PHE:HA	1.93	0.51
2:M:99:GLN:HG3	2:M:99:GLN:O	2.10	0.51
2:M:226:VAL:O	2:M:230:ARG:HD3	2.11	0.51
2:M:585:GLU:HG2	2:M:665:PHE:HE2	1.76	0.51
2:M:910:LYS:CB	2:M:913:GLU:HG3	2.39	0.51
3:N:386:HIS:C	3:N:387:LEU:HD13	2.31	0.51
3:N:426:LYS:HA	3:N:434:ARG:HD2	1.92	0.51
3:N:553:ARG:O	3:N:554:LEU:C	2.49	0.51
3:N:679:ARG:HH11	3:N:682:ASP:CG	2.14	0.51
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.11	0.51
3:N:1083:ASP:OD1	3:N:1238:MET:HB3	2.11	0.51
3:N:1200:VAL:HG22	3:N:1373:ARG:NH1	2.26	0.51
5:P:105:LYS:HB3	5:P:105:LYS:HZ2	1.73	0.51
5:P:152:ASP:CB	5:P:153:PRO:HD3	2.35	0.51
5:P:321:ILE:HG13	5:P:329:TYR:HA	1.93	0.51
1:B:86:VAL:H	1:B:124:ASN:HB2	1.75	0.51
2:C:774:LEU:HD13	2:C:775:ARG:N	2.26	0.51
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.41	0.51
2:C:889:HIS:CE1	2:C:970:GLY:HA3	2.46	0.51
2:C:946:ARG:CD	2:C:984:GLU:HB2	2.40	0.51
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.40	0.51
3:D:247:GLU:H	3:D:248:PRO:CD	2.22	0.51
3:D:703:ASN:ND2	3:D:704:ARG:N	2.59	0.51
3:D:1202:GLN:HG2	3:D:1215:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1227:GLN:O	3:D:1230:GLY:N	2.44	0.51
3:D:1313:VAL:HG22	3:D:1314:LYS:N	2.19	0.51
3:D:1404:ASN:OD1	3:D:1408:ILE:HD12	2.11	0.51
2:M:1032:PHE:HB2	3:N:623:VAL:CG2	2.41	0.51
3:N:140:ALA:N	3:N:147:VAL:HG22	2.26	0.51
3:N:637:LEU:HD23	3:N:729:HIS:N	2.25	0.51
3:N:675:ARG:HH11	3:N:675:ARG:CB	2.24	0.51
3:N:1295:GLU:HB3	3:N:1300:SER:CA	2.35	0.51
5:P:214:GLN:O	5:P:215:GLU:C	2.48	0.51
2:C:154:ARG:NH1	2:C:154:ARG:HB2	2.26	0.50
2:C:226:VAL:HG13	2:C:227:PHE:N	2.22	0.50
2:C:256:TYR:O	2:C:259:GLY:N	2.44	0.50
2:C:1021:LEU:HD22	5:F:331:ASP:O	2.11	0.50
3:D:166:GLN:NE2	3:D:168:THR:OG1	2.43	0.50
3:D:378:ILE:H	3:D:378:ILE:HD13	1.76	0.50
3:D:581:LEU:HG	3:D:582:LEU:N	2.26	0.50
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.92	0.50
3:D:884:ARG:HA	3:D:887:ALA:HB3	1.92	0.50
3:D:1312:LEU:HD11	3:D:1327:ARG:HG3	1.93	0.50
3:D:1368:ILE:O	3:D:1372:VAL:CG2	2.58	0.50
1:K:178:ALA:HB2	2:M:864:GLY:H	1.76	0.50
1:L:152:PRO:HG3	3:N:857:ILE:HD12	1.93	0.50
2:M:21:ILE:HD12	2:M:21:ILE:N	2.21	0.50
2:M:196:LEU:O	2:M:199:VAL:HB	2.11	0.50
2:M:404:LEU:O	2:M:408:ARG:HG2	2.10	0.50
2:M:575:GLN:O	2:M:667:ALA:CB	2.59	0.50
2:M:777:ILE:HG22	2:M:778:PHE:HD1	1.76	0.50
3:N:65:ARG:HG3	3:N:66:GLN:N	2.27	0.50
3:N:142:LEU:HD12	3:N:142:LEU:O	2.11	0.50
3:N:187:LYS:HZ3	3:N:213:VAL:HB	1.75	0.50
3:N:639:LEU:HD22	3:N:765:SER:OG	2.11	0.50
3:N:692:GLU:O	3:N:695:ILE:HG22	2.11	0.50
3:N:930:LEU:HD11	3:N:934:LEU:CD1	2.41	0.50
3:N:1243:THR:O	3:N:1269:LYS:HD3	2.11	0.50
3:N:1461:GLY:O	3:N:1473:PRO:HG2	2.11	0.50
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.06	0.50
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.93	0.50
1:B:25:LEU:CD2	1:B:28:LEU:HD11	2.41	0.50
1:B:179:PHE:HA	1:B:196:THR:O	2.11	0.50
2:C:333:ILE:HD13	2:C:467:ILE:HD11	1.93	0.50
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:859:PRO:O	2:C:867:VAL:HG22	2.12	0.50
2:C:1010:THR:CG2	2:C:1011:GLY:N	2.74	0.50
3:D:221:ALA:HB3	3:D:367:ILE:HB	1.93	0.50
3:D:1074:SER:O	3:D:1077:ALA:CB	2.59	0.50
3:D:1278:ASP:OD1	3:D:1278:ASP:N	2.43	0.50
3:D:1487:VAL:HG12	3:D:1488:ASP:O	2.11	0.50
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.46	0.50
1:L:226:SER:O	1:L:228:PRO:HD3	2.11	0.50
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.37	0.50
2:M:705:ILE:HG22	2:M:705:ILE:O	2.10	0.50
2:M:949:LYS:NZ	3:N:796:ARG:NH2	2.59	0.50
3:N:387:LEU:HG	5:P:97:GLU:HB2	1.93	0.50
3:N:685:ASP:O	3:N:687:VAL:N	2.44	0.50
3:N:959:GLU:O	3:N:963:TYR:HD1	1.94	0.50
4:O:53:GLY:C	4:O:55:PHE:H	2.14	0.50
5:P:152:ASP:HB2	5:P:153:PRO:CD	2.36	0.50
5:P:256:ARG:HG2	5:P:256:ARG:HH11	1.76	0.50
1:B:156:HIS:H	1:B:156:HIS:CD2	2.29	0.50
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.36	0.50
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.79	0.50
3:D:484:PRO:O	3:D:489:ARG:HD2	2.11	0.50
3:D:818:ARG:O	3:D:821:VAL:HB	2.11	0.50
3:D:1033:GLN:NE2	3:D:1036:ARG:NH1	2.59	0.50
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.12	0.50
3:D:1331:ASP:CG	3:D:1334:GLN:HG3	2.32	0.50
5:F:148:LYS:O	5:F:148:LYS:HE3	2.11	0.50
1:K:11:PHE:O	1:K:12:THR:C	2.50	0.50
1:K:146:ARG:NH2	1:K:148:VAL:HG13	2.26	0.50
1:L:133:GLU:CG	1:L:134:GLU:N	2.75	0.50
2:M:157:ARG:NE	2:M:314:THR:HA	2.26	0.50
2:M:432:ARG:HH12	3:N:1047:LYS:HZ3	1.58	0.50
2:M:545:ASN:OD1	2:M:905:ILE:HG21	2.11	0.50
2:M:586:ARG:O	2:M:589:ARG:N	2.36	0.50
2:M:607:ASP:HB2	2:M:610:ARG:H	1.75	0.50
3:N:119:SER:H	3:N:123:LEU:HD12	1.76	0.50
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.92	0.50
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.93	0.50
3:N:493:ARG:NE	3:N:1389:LEU:HD21	2.26	0.50
3:N:1034:GLN:O	3:N:1038:LEU:HD13	2.12	0.50
3:N:1176:LYS:HA	3:N:1179:GLU:CD	2.31	0.50
3:N:1234:THR:C	3:N:1236:LEU:H	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.76	0.50
1:A:138:LEU:HG	1:A:138:LEU:O	2.11	0.50
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.94	0.50
2:C:71:TYR:CD2	2:C:71:TYR:N	2.79	0.50
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.93	0.50
2:C:805:ARG:O	2:C:806:LEU:HD23	2.11	0.50
3:D:9:ARG:HH22	3:D:11:ALA:CB	2.24	0.50
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.94	0.50
3:D:382:GLU:HG2	3:D:383:GLY:N	2.18	0.50
3:D:598:ARG:HH12	5:F:320:PRO:HD3	1.77	0.50
3:D:651:GLU:OE1	3:D:654:LYS:HE3	2.11	0.50
3:D:972:LEU:HD23	3:D:973:GLN:N	2.25	0.50
3:D:1373:ARG:CG	3:D:1374:GLN:HE21	2.24	0.50
1:L:2:LEU:HD12	1:L:3:ASP:H	1.77	0.50
1:L:18:ARG:C	1:L:19:GLU:OE1	2.49	0.50
2:M:15:LEU:HD12	2:M:15:LEU:N	2.25	0.50
2:M:350:ARG:CB	2:M:377:PRO:HB3	2.38	0.50
2:M:367:LEU:O	2:M:371:LYS:HB3	2.10	0.50
2:M:398:THR:HG22	2:M:635:THR:HG21	1.91	0.50
2:M:465:GLY:O	2:M:466:PHE:HD1	1.95	0.50
3:N:1498:ALA:O	3:N:1501:GLU:HB2	2.12	0.50
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.93	0.50
1:A:200:TRP:O	1:A:201:THR:OG1	2.26	0.50
2:C:445:GLU:HG3	2:C:446:GLY:H	1.77	0.50
2:C:495:THR:HG23	2:C:517:ARG:HE	1.76	0.50
2:C:515:ALA:O	2:C:522:VAL:O	2.29	0.50
2:C:627:ARG:O	2:C:638:ASP:HA	2.11	0.50
2:C:1038:TRP:O	3:D:1223:ILE:HG21	2.12	0.50
3:D:493:ARG:NE	3:D:1389:LEU:HD21	2.26	0.50
3:D:659:LYS:HE2	3:D:663:GLU:OE1	2.12	0.50
3:D:724:GLN:O	3:D:724:GLN:CG	2.58	0.50
3:D:752:SER:C	3:D:754:PHE:N	2.65	0.50
3:D:843:PHE:HZ	3:D:858:VAL:HG21	1.76	0.50
5:F:155:THR:O	5:F:159:ILE:HG13	2.12	0.50
2:M:72:ARG:HH11	2:M:72:ARG:HG3	1.77	0.50
2:M:82:GLU:O	2:M:86:LYS:HB2	2.11	0.50
2:M:196:LEU:HA	2:M:199:VAL:CG2	2.42	0.50
2:M:397:GLU:N	2:M:633:GLN:OE1	2.45	0.50
2:M:839:LEU:HD12	2:M:994:ILE:HG21	1.93	0.50
2:M:1052:MET:HG3	3:N:623:VAL:HG21	1.93	0.50
2:M:1059:ASP:OD1	2:M:1062:GLY:N	2.38	0.50

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1076:GLY:C	3:D:1079:LYS:HG2	2.33	0.50
3:D:1118:ILE:HD11	3:D:1346:ARG:CZ	2.42	0.50
3:D:1487:VAL:CG1	3:D:1488:ASP:N	2.75	0.50
5:F:370:LYS:O	5:F:374:GLY:HA3	2.11	0.50
1:K:11:PHE:HE1	1:L:225:PHE:HD2	1.60	0.50
1:K:181:VAL:HG12	2:M:938:LYS:HD2	1.94	0.50
2:M:52:PHE:O	2:M:54:ILE:N	2.45	0.50
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.47	0.50
2:M:491:GLU:HB2	2:M:496:ILE:CD1	2.32	0.50
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.93	0.50
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.41	0.50
2:M:888:THR:O	2:M:892:LEU:N	2.39	0.50
3:N:462:GLN:HG3	3:N:466:LYS:HE3	1.94	0.50
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.12	0.50
3:N:585:GLY:C	3:N:587:ARG:H	2.15	0.50
3:N:1466:VAL:O	3:N:1467:ILE:C	2.50	0.50
5:P:101:GLU:O	5:P:104:ARG:HB3	2.11	0.50
5:P:135:ILE:CD1	5:P:178:ARG:HD2	2.42	0.50
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.93	0.49
1:B:87:VAL:CG1	1:B:122:ILE:HG12	2.42	0.49
2:C:129:ILE:HG22	2:C:130:ASN:N	2.27	0.49
2:C:129:ILE:HD12	2:C:129:ILE:N	2.27	0.49
2:C:758:ARG:NH2	2:C:788:THR:O	2.45	0.49
2:C:774:LEU:HD13	2:C:774:LEU:C	2.32	0.49
2:C:897:LEU:CD1	2:C:921:ALA:HB2	2.30	0.49
3:D:77:GLY:O	3:D:78:VAL:HG23	2.12	0.49
3:D:225:LEU:HB3	3:D:226:PRO:CD	2.42	0.49
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.12	0.49
3:D:714:GLN:NE2	3:D:735:ALA:HB1	2.26	0.49
3:D:899:LEU:H	3:D:899:LEU:CD1	2.23	0.49
3:D:951:ILE:HD12	3:D:1062:ARG:HE	1.77	0.49
3:D:1093:TYR:CD1	3:D:1093:TYR:C	2.85	0.49
3:D:1441:GLN:CA	3:D:1441:GLN:HE21	2.25	0.49
5:F:287:THR:HG23	5:F:289:GLU:N	2.20	0.49
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.11	0.49
1:K:146:ARG:HH21	1:K:147:GLY:HA2	1.76	0.49
1:K:147:GLY:O	1:K:148:VAL:HG13	2.12	0.49
1:L:92:PRO:C	1:L:94:LEU:H	2.15	0.49
2:M:313:LEU:HD13	2:M:321:GLU:O	2.12	0.49
2:M:533:ASP:HB3	2:M:538:GLN:NE2	2.26	0.49
2:M:1013:TYR:HE2	5:P:341:PRO:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:119:SER:HB2	3:N:123:LEU:H	1.77	0.49
3:N:486:ARG:NH2	3:N:489:ARG:NE	2.59	0.49
3:N:601:ARG:NH1	3:N:605:ASP:O	2.45	0.49
3:N:658:LEU:HD22	3:N:673:ALA:HB3	1.94	0.49
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.41	0.49
3:N:765:SER:C	3:N:767:HIS:H	2.15	0.49
3:N:1102:THR:HG22	3:N:1222:GLY:HA3	1.94	0.49
3:N:1470:ARG:HG2	3:N:1471:LEU:N	2.27	0.49
1:A:143:ARG:HH21	1:A:158:ILE:HG13	1.76	0.49
1:A:228:PRO:HA	1:B:11:PHE:O	2.11	0.49
2:C:631:SER:OG	2:C:635:THR:N	2.44	0.49
2:C:796:GLU:HA	2:C:796:GLU:OE2	2.12	0.49
2:C:919:ALA:CA	2:C:968:LEU:HD21	2.42	0.49
2:C:1024:LYS:HB2	2:C:1024:LYS:HZ2	1.78	0.49
3:D:660:LYS:HA	3:D:663:GLU:HG3	1.93	0.49
3:D:710:ARG:HG3	3:D:711:LEU:H	1.75	0.49
3:D:951:ILE:HG23	3:D:1062:ARG:NH2	2.26	0.49
3:D:988:ARG:NH2	3:D:1054:GLU:OE2	2.45	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.42	0.49
3:D:1334:GLN:O	3:D:1335:LEU:C	2.51	0.49
5:F:385:GLU:O	5:F:388:ALA:HB3	2.12	0.49
1:K:225:PHE:CD2	1:L:215:VAL:HG11	2.47	0.49
1:L:66:SER:O	1:L:75:VAL:HG23	2.11	0.49
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.60	0.49
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.94	0.49
2:M:348:LEU:O	2:M:351:LEU:HB3	2.12	0.49
2:M:382:ILE:O	2:M:385:PHE:HB3	2.11	0.49
2:M:470:PRO:HB2	2:M:534:VAL:CG2	2.42	0.49
2:M:814:GLU:HG3	2:M:814:GLU:O	2.12	0.49
2:M:944:LEU:HD21	2:M:963:LEU:CD2	2.41	0.49
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.47	0.49
3:N:212:ARG:HB3	3:N:394:LEU:HD22	1.94	0.49
3:N:664:LYS:HB3	3:N:666:ILE:HG13	1.94	0.49
3:N:806:PHE:O	3:N:808:THR:N	2.45	0.49
5:P:284:ARG:O	5:P:286:PRO:HD3	2.11	0.49
1:B:42:ARG:NH1	2:C:981:GLU:HG2	2.27	0.49
2:C:67:ASP:HB2	2:C:99:GLN:CG	2.42	0.49
2:C:385:PHE:HD2	2:C:386:PHE:CD1	2.30	0.49
2:C:771:GLU:O	2:C:771:GLU:CG	2.58	0.49
3:D:679:ARG:CZ	3:D:681:ARG:HG2	2.42	0.49
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1130:ARG:HG2	3:D:1130:ARG:HH11	1.76	0.49
3:D:1145:TYR:C	3:D:1145:TYR:CD2	2.84	0.49
1:L:2:LEU:HA	1:L:6:LEU:CB	2.42	0.49
2:M:265:ARG:HE	2:M:267:TYR:CA	2.14	0.49
2:M:474:VAL:HG13	2:M:474:VAL:O	2.13	0.49
2:M:603:VAL:HG23	2:M:647:GLN:O	2.11	0.49
2:M:677:MET:O	2:M:873:PRO:HD3	2.13	0.49
2:M:704:HIS:CE1	2:M:706:GLU:OE1	2.66	0.49
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.12	0.49
3:N:215:TYR:HH	5:P:101:GLU:HB2	1.77	0.49
3:N:539:ASP:HB2	5:P:318:GLU:OE1	2.12	0.49
3:N:600:LEU:HD23	3:N:600:LEU:N	2.27	0.49
3:N:828:LYS:HB3	3:N:862:ASP:OD2	2.13	0.49
3:N:1304:LYS:O	3:N:1305:LEU:HG	2.12	0.49
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.93	0.49
3:N:1372:VAL:HA	3:N:1375:MET:SD	2.52	0.49
5:P:350:LEU:CA	5:P:422:LEU:HD13	2.33	0.49
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.42	0.49
2:C:338:GLU:HA	2:C:341:THR:HG22	1.93	0.49
2:C:762:LYS:HB2	2:C:762:LYS:HZ1	1.75	0.49
3:D:85:VAL:CG1	3:D:89:ARG:NE	2.76	0.49
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.94	0.49
3:D:564:GLU:C	3:D:566:ILE:H	2.16	0.49
3:D:785:ILE:O	3:D:789:LEU:HG	2.11	0.49
3:D:1153:VAL:HG12	3:D:1155:VAL:HG22	1.94	0.49
5:F:99:GLU:O	5:F:103:ALA:HB2	2.11	0.49
5:F:242:TRP:O	5:F:245:GLN:HB2	2.12	0.49
1:K:44:LEU:HD23	1:K:48:ILE:HD11	1.94	0.49
2:M:91:GLN:HE21	2:M:119:PRO:HG3	1.77	0.49
2:M:417:GLY:O	2:M:418:LEU:HD13	2.12	0.49
3:N:9:ARG:O	3:N:9:ARG:HG2	2.12	0.49
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.95	0.49
3:N:661:MET:CE	3:N:673:ALA:HB1	2.43	0.49
3:N:729:HIS:CG	3:N:730:PRO:HD2	2.47	0.49
3:N:1343:ALA:O	3:N:1346:ARG:N	2.45	0.49
1:B:15:THR:HG23	1:B:15:THR:O	2.11	0.49
2:C:19:THR:CG2	2:C:23:VAL:HG23	2.42	0.49
2:C:693:GLU:OE1	2:C:696:LYS:CD	2.60	0.49
2:C:729:LEU:HD11	5:F:419:ARG:HH21	1.76	0.49
3:D:65:ARG:HG3	3:D:66:GLN:N	2.27	0.49
3:D:172:PRO:HB3	3:D:178:LEU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:559:ALA:C	3:D:561:GLY:N	2.63	0.49
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.38	0.49
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.93	0.49
2:M:260:LEU:HD12	2:M:260:LEU:O	2.12	0.49
2:M:449:ILE:O	2:M:449:ILE:CG2	2.61	0.49
2:M:713:ARG:NH1	3:N:531:ASP:HB3	2.27	0.49
2:M:946:ARG:HD2	2:M:984:GLU:HB2	1.93	0.49
3:N:15:PRO:O	3:N:19:ARG:HG3	2.13	0.49
3:N:638:LYS:O	3:N:639:LEU:C	2.50	0.49
3:N:909:ASN:HA	3:N:912:LYS:HB3	1.94	0.49
3:N:1343:ALA:C	3:N:1345:GLU:H	2.16	0.49
1:A:85:LEU:HD11	1:A:122:ILE:HG23	1.94	0.49
1:A:162:ILE:HG13	1:A:163:ASN:N	2.28	0.49
2:C:432:ARG:HD3	2:C:432:ARG:N	2.28	0.49
2:C:630:ARG:HH21	2:C:707:ARG:N	2.10	0.49
2:C:721:ARG:HE	2:C:783:ARG:NH2	2.10	0.49
2:C:861:LEU:O	2:C:863:ASP:N	2.45	0.49
2:C:1045:ALA:CB	3:D:758:GLU:OE2	2.61	0.49
3:D:222:GLY:HA2	3:D:366:LYS:HA	1.94	0.49
3:D:828:LYS:HD3	3:D:828:LYS:H	1.77	0.49
3:D:838:ARG:HG2	3:D:865:THR:OG1	2.12	0.49
5:F:276:ARG:HG3	5:F:276:ARG:NH1	2.26	0.49
1:L:206:THR:CG2	1:L:209:GLU:CD	2.81	0.49
2:M:348:LEU:H	2:M:348:LEU:HD12	1.77	0.49
2:M:952:LEU:HG	2:M:986:PRO:HG2	1.93	0.49
2:M:971:LYS:CD	2:M:986:PRO:HB2	2.42	0.49
2:M:1072:LYS:O	3:N:659:LYS:NZ	2.40	0.49
2:M:1082:PRO:HG2	3:N:1469:GLY:CA	2.39	0.49
3:N:613:ARG:HG3	3:N:613:ARG:NH1	2.28	0.49
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.12	0.49
3:N:1395:LEU:HD13	3:N:1399:ASP:OD2	2.13	0.49
1:A:101:LEU:HD13	1:A:113:ASP:HB3	1.95	0.49
2:C:300:ASP:C	2:C:302:VAL:N	2.65	0.49
2:C:857:ASP:O	2:C:978:ARG:HG2	2.12	0.49
2:C:1092:LEU:HG	3:D:607:LEU:CD1	2.42	0.49
3:D:218:LYS:CD	3:D:370:ALA:HB1	2.43	0.49
3:D:582:LEU:O	3:D:603:LEU:HB2	2.13	0.49
3:D:951:ILE:HD12	3:D:1062:ARG:NE	2.27	0.49
2:M:73:LEU:HD21	2:M:118:ILE:HD11	1.95	0.49
2:M:601:GLY:O	2:M:648:ARG:HA	2.11	0.49
2:M:695:LEU:CD1	2:M:852:ILE:HG21	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:927:GLY:O	2:M:930:LYS:HB2	2.13	0.49
2:M:1016:ILE:H	2:M:1016:ILE:CD1	1.94	0.49
2:M:1038:TRP:CD1	3:N:1223:ILE:HD11	2.48	0.49
2:M:1094:ALA:HB2	3:N:520:LEU:HD13	1.95	0.49
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.42	0.49
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.43	0.49
3:N:912:LYS:HB3	3:N:912:LYS:NZ	2.28	0.49
3:N:1027:GLY:O	3:N:1028:ALA:C	2.50	0.49
3:N:1078:ARG:O	3:N:1079:LYS:O	2.31	0.49
5:P:141:VAL:O	5:P:145:PRO:CD	2.50	0.49
5:P:406:ARG:O	5:P:410:TYR:HB2	2.13	0.49
2:C:26:TYR:CE1	2:C:340:MET:HG3	2.47	0.49
2:C:285:LEU:HD21	2:C:289:THR:HA	1.94	0.49
2:C:443:THR:CG2	2:C:450:GLY:H	2.07	0.49
2:C:674:VAL:HG23	2:C:869:VAL:CG1	2.42	0.49
3:D:171:LEU:CB	3:D:390:PRO:HA	2.42	0.49
3:D:205:TYR:HA	3:D:393:ILE:CD1	2.42	0.49
3:D:231:VAL:HA	3:D:378:ILE:CG1	2.43	0.49
3:D:1152:GLU:O	3:D:1153:VAL:CG2	2.61	0.49
4:E:41:GLU:O	4:E:42:PRO:C	2.50	0.49
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.95	0.49
5:F:207:LEU:O	5:F:212:LEU:HD12	2.13	0.49
1:K:203:GLY:O	1:K:205:VAL:O	2.30	0.49
1:L:223:THR:O	1:L:225:PHE:N	2.46	0.49
2:M:432:ARG:NH1	3:N:1047:LYS:HG2	2.27	0.49
2:M:580:MET:CE	2:M:902:ILE:HD11	2.42	0.49
2:M:855:VAL:C	2:M:857:ASP:H	2.16	0.49
3:N:136:ASP:CB	3:N:137:PRO:CD	2.86	0.49
3:N:380:GLU:O	3:N:382:GLU:OE2	2.29	0.49
3:N:528:VAL:HG12	3:N:529:GLN:N	2.27	0.49
3:N:704:ARG:HG2	3:N:745:MET:HG3	1.93	0.49
3:N:798:GLU:OE1	3:N:828:LYS:HE2	2.13	0.49
3:N:965:GLU:HA	3:N:968:ASP:CB	2.34	0.49
3:N:1437:ALA:C	3:N:1446:VAL:HG11	2.33	0.49
4:O:39:VAL:O	4:O:72:ARG:NE	2.46	0.49
5:P:88:ILE:O	5:P:92:PRO:CD	2.61	0.49
1:A:76:VAL:HG12	1:A:76:VAL:O	2.13	0.49
1:B:220:GLU:O	1:B:220:GLU:HG2	2.11	0.49
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.48	0.49
2:C:469:THR:CG2	2:C:471:TYR:HE1	2.25	0.49
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.95	0.49

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG22	1:L:209:GLU:HB2	1.93	0.49
1:L:211:LEU:O	1:L:215:VAL:HG13	2.13	0.49
2:M:398:THR:N	2:M:633:GLN:OE1	2.46	0.49
2:M:755:LEU:C	2:M:756:VAL:HG23	2.33	0.49
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.95	0.49
2:M:795:GLY:O	2:M:796:GLU:CG	2.58	0.49
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.47	0.49
2:M:1051:GLU:OE1	3:N:751:LEU:N	2.46	0.49
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.42	0.49
3:N:35:ARG:HB3	3:N:35:ARG:NH1	2.25	0.49
3:N:387:LEU:CG	5:P:97:GLU:HB2	2.43	0.49
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.28	0.49
3:N:591:VAL:CA	3:N:600:LEU:HD21	2.43	0.49
3:N:1087:ARG:NH1	3:N:1238:MET:HG3	2.27	0.49
1:B:1:MET:HG3	1:B:6:LEU:HD13	1.94	0.48
1:B:58:ILE:HG22	1:B:59:GLU:N	2.28	0.48
3:D:9:ARG:NH2	3:D:11:ALA:HB2	2.28	0.48
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.46	0.48
3:D:152:LEU:HD23	3:D:152:LEU:N	2.08	0.48
3:D:389:GLU:CD	3:D:389:GLU:N	2.66	0.48
3:D:642:CYS:O	3:D:642:CYS:SG	2.71	0.48
3:D:660:LYS:HD2	3:D:663:GLU:HG3	1.95	0.48
3:D:1104:GLU:OE1	3:D:1377:LYS:HE3	2.13	0.48
3:D:1376:MET:HG2	3:D:1421:LEU:HD12	1.95	0.48
3:D:1378:TYR:CD1	3:D:1422:MET:HE2	2.48	0.48
2:M:86:LYS:C	2:M:88:LEU:H	2.15	0.48
2:M:188:LYS:C	2:M:188:LYS:HE2	2.34	0.48
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.52	0.48
2:M:1096:ALA:O	3:N:13:ALA:HB2	2.13	0.48
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.93	0.48
3:N:1304:LYS:O	3:N:1305:LEU:HD23	2.13	0.48
3:N:1466:VAL:HG23	3:N:1472:ILE:CD1	2.36	0.48
5:P:288:TYR:CE2	5:P:305:GLU:HG3	2.48	0.48
5:P:415:THR:O	5:P:417:LYS:HG3	2.12	0.48
1:A:88:ARG:HH12	1:A:90:LEU:HD23	1.77	0.48
1:B:66:SER:O	1:B:74:ASP:OD1	2.31	0.48
2:C:540:PHE:CE1	2:C:550:LEU:HD23	2.47	0.48
2:C:874:LEU:HD13	3:D:783:ARG:HB3	1.94	0.48
2:C:987:ILE:HA	3:D:948:THR:HG21	1.95	0.48
3:D:179:VAL:HG11	3:D:217:LYS:CE	2.43	0.48
3:D:563:PRO:HG3	5:F:188:ILE:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:907:GLU:HG2	3:D:908:LYS:N	2.26	0.48
3:D:951:ILE:HD12	3:D:1062:ARG:NH2	2.28	0.48
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.12	0.48
1:K:189:ARG:HH11	1:L:155:LYS:NZ	2.05	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.13	0.48
2:M:256:TYR:OH	2:M:293:PHE:HB2	2.13	0.48
2:M:347:GLY:O	2:M:350:ARG:HD2	2.14	0.48
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.94	0.48
2:M:1018:GLN:HG3	2:M:1060:ILE:CG1	2.43	0.48
3:N:3:LYS:HD3	3:N:3:LYS:N	2.28	0.48
3:N:223:LEU:HA	3:N:365:ASP:HB3	1.94	0.48
3:N:477:LEU:O	3:N:481:MET:HB2	2.12	0.48
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.44	0.48
3:N:570:GLU:C	3:N:572:ARG:N	2.63	0.48
3:N:654:LYS:O	3:N:655:PRO:C	2.52	0.48
3:N:939:PHE:O	3:N:942:SER:HB3	2.13	0.48
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.77	0.48
3:N:1476:THR:HG22	3:N:1476:THR:O	2.13	0.48
3:N:1493:LYS:O	3:N:1496:GLU:HB3	2.13	0.48
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.94	0.48
1:A:43:ILE:HD11	1:B:35:THR:HG21	1.95	0.48
2:C:408:ARG:HH11	2:C:542:VAL:HG23	1.78	0.48
2:C:710:ILE:HD13	2:C:790:LEU:HB2	1.94	0.48
2:C:1059:ASP:HB3	2:C:1062:GLY:HA3	1.95	0.48
3:D:475:LYS:O	3:D:478:LEU:HB2	2.12	0.48
3:D:588:GLY:O	3:D:590:PRO:HD3	2.12	0.48
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.95	0.48
5:F:93:LEU:CD1	5:F:102:LEU:HD12	2.44	0.48
5:F:169:GLU:O	5:F:172:ARG:HB3	2.13	0.48
5:F:174:LEU:HD22	5:F:178:ARG:HG2	1.94	0.48
1:K:33:GLY:N	1:K:193:ASP:OD2	2.44	0.48
2:M:762:LYS:NZ	2:M:784:ASP:O	2.47	0.48
2:M:1047:HIS:N	3:N:758:GLU:CD	2.67	0.48
3:N:481:MET:HG3	3:N:493:ARG:HB2	1.96	0.48
3:N:564:GLU:H	3:N:564:GLU:CD	2.17	0.48
3:N:736:PHE:O	3:N:738:ALA:N	2.47	0.48
3:N:949:ILE:HD11	3:N:1023:MET:HE1	1.94	0.48
3:N:1115:THR:CB	3:N:1151:ARG:NH2	2.71	0.48
3:N:1393:GLN:O	3:N:1394:VAL:C	2.51	0.48
1:A:14:ARG:HH12	1:A:24:VAL:HG23	1.78	0.48
1:A:79:ILE:C	1:A:79:ILE:HD12	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:584:GLU:O	2:C:588:VAL:HG13	2.13	0.48
2:C:729:LEU:CD1	5:F:419:ARG:HH21	2.26	0.48
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.48	0.48
3:D:34:TYR:O	3:D:36:THR:N	2.46	0.48
3:D:444:VAL:O	3:D:444:VAL:HG13	2.13	0.48
3:D:486:ARG:HE	3:D:489:ARG:HD3	1.78	0.48
3:D:601:ARG:HH22	3:D:611:GLN:H	1.59	0.48
3:D:783:ARG:NE	3:D:1029:ARG:NE	2.59	0.48
3:D:810:GLU:C	3:D:812:ALA:H	2.16	0.48
3:D:951:ILE:HD12	3:D:1062:ARG:HH21	1.78	0.48
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.95	0.48
1:K:124:ASN:N	1:K:125:PRO:HD3	2.28	0.48
1:L:23:PHE:CZ	1:L:208:LEU:HA	2.48	0.48
2:M:49:ARG:HG2	2:M:68:PHE:CE2	2.47	0.48
2:M:123:GLU:OE2	2:M:592:LEU:CD1	2.62	0.48
2:M:328:LEU:H	2:M:433:THR:CG2	2.22	0.48
2:M:728:HIS:O	2:M:729:LEU:HD22	2.14	0.48
2:M:858:MET:HE2	2:M:867:VAL:HG23	1.96	0.48
2:M:910:LYS:H	2:M:913:GLU:CB	2.26	0.48
3:N:411:THR:HG22	3:N:412:GLY:N	2.28	0.48
3:N:433:GLY:HA3	3:N:449:SER:O	2.13	0.48
3:N:496:LEU:HD21	3:N:500:ARG:NE	2.27	0.48
3:N:676:MET:HE1	3:N:684:LYS:H	1.79	0.48
3:N:1155:VAL:HG21	3:N:1174:LEU:CD2	2.43	0.48
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.13	0.48
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.29	0.48
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.94	0.48
1:B:206:THR:O	1:B:209:GLU:HB2	2.13	0.48
2:C:113:VAL:O	2:C:115:LEU:HD23	2.13	0.48
2:C:438:ILE:CD1	2:C:453:THR:HG21	2.33	0.48
2:C:535:SER:O	2:C:537:LYS:N	2.46	0.48
2:C:680:ASP:OD1	3:D:636:GLN:NE2	2.47	0.48
2:C:1034:GLU:OE1	3:D:1096:ARG:CD	2.62	0.48
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.95	0.48
3:D:553:ARG:NH1	5:F:214:GLN:HB2	2.28	0.48
3:D:646:LYS:HA	3:D:720:LEU:CD2	2.44	0.48
3:D:782:SER:O	3:D:786:ILE:HD12	2.13	0.48
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.43	0.48
3:D:1292:VAL:HG11	3:D:1325:LEU:CD2	2.39	0.48
4:E:54:LEU:CD2	4:E:63:TRP:HE1	2.26	0.48
1:K:33:GLY:O	1:K:195:LEU:HD13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:106:PRO:HA	1:K:132:LEU:O	2.14	0.48
2:M:115:LEU:HA	2:M:375:SER:OG	2.13	0.48
2:M:684:PHE:HB2	3:N:633:VAL:HG21	1.94	0.48
2:M:724:ARG:HG2	2:M:734:LEU:HD12	1.95	0.48
2:M:946:ARG:HH11	2:M:984:GLU:HB2	1.77	0.48
2:M:1008:ARG:C	3:N:651:GLU:OE2	2.52	0.48
3:N:455:ARG:HE	3:N:463:GLN:HE22	1.57	0.48
3:N:473:LEU:CD1	3:N:476:GLU:OE1	2.61	0.48
3:N:923:GLY:O	3:N:924:MET:C	2.51	0.48
3:N:984:THR:O	3:N:985:ASP:C	2.52	0.48
3:N:1189:ARG:HB3	3:N:1189:ARG:HH11	1.79	0.48
3:N:1253:THR:HG23	3:N:1258:ARG:HD2	1.95	0.48
3:N:1277:ILE:CG2	3:N:1278:ASP:H	2.26	0.48
3:N:1305:LEU:HB3	3:N:1309:ALA:CB	2.44	0.48
3:N:1372:VAL:HA	3:N:1375:MET:HG3	1.94	0.48
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.96	0.48
1:A:213:GLN:O	1:A:217:ILE:HG13	2.13	0.48
2:C:327:HIS:HA	2:C:431:HIS:CD2	2.49	0.48
2:C:910:LYS:O	2:C:911:GLU:C	2.52	0.48
3:D:172:PRO:HG3	3:D:178:LEU:HD22	1.96	0.48
3:D:578:VAL:O	3:D:582:LEU:HG	2.13	0.48
3:D:1062:ARG:C	3:D:1062:ARG:HD3	2.34	0.48
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.78	0.48
3:D:1465:ASN:HD21	3:D:1470:ARG:HH12	1.59	0.48
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.95	0.48
5:F:287:THR:C	5:F:289:GLU:H	2.15	0.48
1:L:27:PRO:O	1:L:28:LEU:HG	2.14	0.48
1:L:170:VAL:HG23	1:L:170:VAL:O	2.13	0.48
2:M:122:THR:HG22	2:M:123:GLU:N	2.28	0.48
2:M:146:VAL:HG12	2:M:162:ILE:HG12	1.94	0.48
2:M:551:GLU:O	2:M:553:ASP:N	2.46	0.48
2:M:580:MET:N	2:M:901:TYR:O	2.47	0.48
2:M:669:GLY:C	2:M:670:GLN:HG3	2.33	0.48
2:M:854:PRO:O	2:M:857:ASP:OD2	2.31	0.48
2:M:910:LYS:N	2:M:910:LYS:HD2	2.28	0.48
2:M:1009:SER:HB2	3:N:651:GLU:CD	2.33	0.48
3:N:86:ARG:NH1	3:N:522:PRO:CB	2.77	0.48
3:N:169:TYR:CG	3:N:169:TYR:O	2.66	0.48
3:N:571:LYS:HB2	3:N:571:LYS:HZ2	1.77	0.48
3:N:890:VAL:O	3:N:892:ASP:N	2.47	0.48
3:N:1271:LYS:CE	3:N:1334:GLN:NE2	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.35	0.48
1:A:73:GLU:HB2	1:A:78:ILE:HG13	1.95	0.48
2:C:572:ILE:HG23	2:C:701:THR:O	2.14	0.48
2:C:768:THR:HG22	2:C:769:PRO:HD2	1.96	0.48
2:C:850:ALA:CB	3:D:633:VAL:HG12	2.43	0.48
2:C:945:ARG:C	2:C:947:ALA:H	2.16	0.48
2:C:1016:ILE:HG12	2:C:1017:THR:H	1.79	0.48
2:C:1020:PRO:CD	2:C:1057:SER:HA	2.43	0.48
3:D:36:THR:CG2	3:D:38:LYS:HG3	2.43	0.48
3:D:553:ARG:HD2	3:D:570:GLU:OE1	2.14	0.48
3:D:1071:PHE:C	3:D:1071:PHE:CD1	2.87	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB2	2.42	0.48
3:D:1156:LEU:HD11	3:D:1177:ALA:CA	2.43	0.48
3:D:1442:ASN:HD22	3:D:1446:VAL:HG21	1.78	0.48
2:M:554:ASP:CB	2:M:880:MET:HB2	2.39	0.48
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.41	0.48
2:M:736:ASP:O	2:M:743:VAL:HG23	2.14	0.48
3:N:37:LEU:HD11	3:N:529:GLN:HG3	1.95	0.48
3:N:195:VAL:CG2	3:N:205:TYR:HB2	2.43	0.48
3:N:374:GLU:HG2	3:N:386:HIS:CA	2.37	0.48
3:N:930:LEU:HD11	3:N:934:LEU:HD11	1.96	0.48
5:P:326:ASP:OD1	5:P:326:ASP:N	2.46	0.48
1:A:80:LEU:HD21	2:C:698:ASP:HB2	1.96	0.48
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.14	0.48
1:A:153:ALA:C	1:A:155:LYS:N	2.64	0.48
1:B:91:ASN:HB2	1:B:92:PRO:HD2	1.94	0.48
2:C:30:LEU:O	2:C:32:ALA:N	2.47	0.48
2:C:197:LEU:CD1	2:C:207:LEU:HD11	2.44	0.48
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.49	0.48
2:C:355:VAL:HG13	2:C:356:ARG:N	2.28	0.48
2:C:516:ARG:CD	2:C:521:PRO:HA	2.43	0.48
2:C:843:HIS:NE2	2:C:887:GLU:OE2	2.47	0.48
2:C:1085:PHE:O	2:C:1088:LEU:CB	2.62	0.48
3:D:102:ILE:HD12	3:D:579:ASP:CB	2.40	0.48
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.48	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.96	0.48
3:D:1219:GLU:O	3:D:1220:ALA:C	2.52	0.48
3:D:1377:LYS:HG3	3:D:1377:LYS:O	2.14	0.48
3:D:1398:TRP:CH2	3:D:1415:VAL:HG11	2.49	0.48
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.95	0.48
2:M:757:GLY:HA2	2:M:789:SER:OG	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1052:MET:SD	3:N:623:VAL:HG11	2.54	0.48
2:M:1063:ARG:HG3	2:M:1064:ASN:H	1.79	0.48
3:N:191:LEU:CD1	3:N:211:VAL:HG21	2.43	0.48
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.96	0.48
3:N:919:PHE:HZ	3:N:1211:MET:HB3	1.79	0.48
3:N:1225:ALA:C	3:N:1229:ILE:HD12	2.34	0.48
3:N:1450:ALA:O	3:N:1454:GLY:N	2.45	0.48
3:N:1478:SER:C	3:N:1480:PHE:H	2.17	0.48
5:P:406:ARG:HG2	5:P:409:LYS:HE2	1.96	0.48
1:A:24:VAL:HG12	1:A:25:LEU:N	2.29	0.48
1:A:185:ARG:O	1:A:185:ARG:NE	2.47	0.48
1:B:211:LEU:O	1:B:214:ALA:HB3	2.13	0.48
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.95	0.48
2:C:572:ILE:HG13	2:C:573:ARG:N	2.27	0.48
2:C:690:ILE:HD11	2:C:839:LEU:HD11	1.95	0.48
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.96	0.48
3:D:78:VAL:C	3:D:79:GLU:O	2.48	0.48
3:D:625:TYR:O	3:D:749:VAL:HG23	2.13	0.48
3:D:812:ALA:O	3:D:816:HIS:HB2	2.14	0.48
3:D:1331:ASP:HB3	3:D:1334:GLN:CG	2.44	0.48
3:D:1336:LEU:HD22	3:D:1421:LEU:CB	2.44	0.48
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.95	0.48
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.36	0.48
2:M:244:PRO:HD2	2:M:245:GLY:N	2.28	0.48
2:M:404:LEU:HB2	2:M:591:SER:HB2	1.96	0.48
2:M:630:ARG:NH2	2:M:707:ARG:H	2.03	0.48
2:M:838:LYS:HD3	2:M:846:LYS:CE	2.43	0.48
2:M:1095:LEU:CD2	3:N:603:LEU:HD13	2.44	0.48
3:N:637:LEU:HD23	3:N:729:HIS:CA	2.44	0.48
3:N:779:ALA:HB1	3:N:931:LEU:HD13	1.95	0.48
3:N:916:TYR:CZ	3:N:920:LEU:HD22	2.48	0.48
3:N:1047:LYS:HA	3:N:1053:PHE:HE1	1.75	0.48
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	1.95	0.48
3:N:1219:GLU:C	3:N:1221:VAL:H	2.16	0.48
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.95	0.48
5:P:130:VAL:HG21	5:P:159:ILE:CD1	2.44	0.48
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.96	0.48
2:C:158:TYR:CD1	2:C:313:LEU:HG	2.48	0.48
2:C:439:CYS:SG	2:C:442:GLU:N	2.76	0.48
2:C:490:GLU:HG3	2:C:493:ARG:HH11	1.78	0.48
2:C:572:ILE:HD11	2:C:698:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:104:PHE:HD1	3:D:512:MET:SD	2.37	0.48
3:D:829:VAL:HG12	3:D:830:ALA:N	2.29	0.48
3:D:1087:ARG:NH2	3:D:1237:THR:HA	2.28	0.48
3:D:1162:GLU:HG2	3:D:1163:GLY:N	2.29	0.48
3:D:1303:TYR:HA	3:D:1304:LYS:HE2	1.95	0.48
5:F:196:VAL:HA	5:F:199:ALA:HB3	1.96	0.48
1:K:189:ARG:NH1	1:L:155:LYS:HE2	2.29	0.48
1:L:100:LEU:O	1:L:114:PHE:HA	2.14	0.48
2:M:10:ARG:O	2:M:12:VAL:N	2.47	0.48
2:M:162:ILE:CD1	2:M:306:THR:HG21	2.39	0.48
2:M:640:ARG:HB2	2:M:642:ARG:NH1	2.28	0.48
2:M:737:LEU:HD11	2:M:754:ILE:CG2	2.44	0.48
2:M:751:PRO:CG	2:M:796:GLU:HA	2.44	0.48
3:N:149:LYS:H	3:N:149:LYS:CD	2.20	0.48
3:N:593:ASN:O	3:N:595:GLY:N	2.47	0.48
3:N:699:VAL:N	3:N:756:GLN:HE21	2.09	0.48
3:N:1017:PHE:HA	3:N:1022:VAL:CG2	2.44	0.48
3:N:1271:LYS:HE3	3:N:1334:GLN:CD	2.34	0.48
3:N:1423:GLY:C	3:N:1425:THR:N	2.67	0.48
5:P:88:ILE:HD13	5:P:193:ARG:CD	2.40	0.48
5:P:138:SER:HB2	5:P:140:ARG:NE	2.29	0.48
1:A:13:VAL:CG1	1:A:14:ARG:N	2.76	0.47
1:A:151:VAL:HG13	1:A:155:LYS:HD3	1.95	0.47
1:A:173:PRO:O	1:A:174:VAL:C	2.52	0.47
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.78	0.47
3:D:218:LYS:HD2	3:D:372:ASP:O	2.14	0.47
3:D:729:HIS:O	3:D:732:VAL:HG22	2.14	0.47
3:D:1072:ILE:HG22	3:D:1073:SER:N	2.28	0.47
3:D:1346:ARG:HH12	3:D:1349:VAL:HG21	1.79	0.47
3:D:1353:GLN:HB3	3:D:1357:ARG:NH1	2.29	0.47
2:M:64:LEU:HD13	2:M:359:MET:SD	2.54	0.47
2:M:205:GLU:HA	2:M:209:ARG:HE	1.79	0.47
2:M:242:LEU:N	2:M:242:LEU:CD2	2.77	0.47
2:M:497:ALA:HB2	2:M:529:VAL:HG13	1.96	0.47
2:M:557:ARG:HD3	2:M:879:ARG:CG	2.44	0.47
2:M:578:VAL:O	2:M:900:ARG:HA	2.14	0.47
2:M:1109:VAL:HG22	3:N:3:LYS:CB	2.40	0.47
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.47	0.47
3:N:426:LYS:HA	3:N:434:ARG:HD3	1.95	0.47
3:N:691:LEU:HD23	3:N:720:LEU:HD11	1.95	0.47
3:N:786:ILE:CG2	3:N:1028:ALA:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.95	0.47
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.96	0.47
1:A:121:GLU:HG2	1:A:123:MET:SD	2.53	0.47
1:A:219:ARG:C	1:A:219:ARG:HD3	2.35	0.47
1:B:10:VAL:HG12	1:B:12:THR:HG22	1.96	0.47
1:B:55:SER:O	1:B:142:VAL:HA	2.15	0.47
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.29	0.47
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.96	0.47
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.29	0.47
2:C:486:MET:HE1	2:C:496:ILE:HD11	1.96	0.47
3:D:93:ILE:HD12	3:D:547:LEU:HD23	1.96	0.47
3:D:169:TYR:CG	3:D:169:TYR:O	2.67	0.47
3:D:583:ASP:HA	3:D:602:SER:HB2	1.96	0.47
3:D:619:LEU:O	3:D:619:LEU:CG	2.60	0.47
3:D:659:LYS:O	3:D:662:GLU:HB3	2.13	0.47
3:D:1108:ARG:O	3:D:1109:GLU:HB3	2.14	0.47
3:D:1192:LEU:CD2	3:D:1345:GLU:HB3	2.42	0.47
3:D:1207:TYR:N	3:D:1366:LYS:NZ	2.57	0.47
3:D:1207:TYR:CZ	3:D:1212:ALA:O	2.67	0.47
3:D:1254:GLN:OE1	3:D:1355:VAL:HG22	2.14	0.47
3:D:1403:LEU:HD22	3:D:1407:LEU:CD2	2.44	0.47
1:K:146:ARG:HE	1:K:147:GLY:N	2.12	0.47
1:K:184:THR:O	1:K:184:THR:HG23	2.14	0.47
2:M:52:PHE:CZ	2:M:98:LEU:HD21	2.49	0.47
2:M:496:ILE:O	2:M:515:ALA:HB1	2.13	0.47
2:M:499:ALA:C	2:M:501:THR:H	2.17	0.47
2:M:877:PRO:HG2	3:N:1023:MET:CE	2.44	0.47
2:M:1063:ARG:CG	2:M:1064:ASN:N	2.77	0.47
3:N:129:PHE:CE2	3:N:575:GLN:HG3	2.48	0.47
3:N:478:LEU:HD23	3:N:1388:ARG:NH1	2.27	0.47
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.15	0.47
3:N:757:ALA:CB	4:O:24:ALA:HB2	2.44	0.47
3:N:984:THR:HG23	3:N:987:GLU:N	2.23	0.47
3:N:1149:LEU:HD11	3:N:1160:LEU:HB3	1.96	0.47
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	2.14	0.47
5:P:260:ILE:CD1	5:P:264:MET:HB3	2.44	0.47
1:A:92:PRO:O	1:A:94:LEU:N	2.48	0.47
1:B:50:GLY:O	1:B:146:ARG:HA	2.15	0.47
2:C:95:TYR:HB3	2:C:114:PHE:N	2.28	0.47
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.97	0.47
2:C:785:VAL:HG22	2:C:786:LYS:N	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:803:THR:HG22	2:C:825:VAL:HG13	1.95	0.47
2:C:945:ARG:C	2:C:947:ALA:N	2.67	0.47
2:C:1095:LEU:HD23	3:D:582:LEU:HB3	1.96	0.47
3:D:124:GLU:HB3	3:D:128:TYR:CE1	2.49	0.47
3:D:137:PRO:HD2	3:D:453:ASP:CG	2.35	0.47
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.13	0.47
3:D:679:ARG:NH2	3:D:681:ARG:CD	2.76	0.47
3:D:869:MET:HE1	3:D:894:LYS:HE3	1.96	0.47
3:D:916:TYR:HE2	3:D:920:LEU:CD2	2.19	0.47
3:D:994:GLN:NE2	3:D:998:GLU:OE2	2.47	0.47
3:D:1109:GLU:OE1	3:D:1110:ALA:O	2.31	0.47
3:D:1481:VAL:C	3:D:1483:PHE:N	2.67	0.47
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.43	0.47
1:K:86:VAL:HG12	1:K:124:ASN:HB2	1.96	0.47
1:K:168:ASP:OD2	2:M:832:LYS:NZ	2.46	0.47
1:L:25:LEU:HD22	1:L:28:LEU:HD11	1.96	0.47
2:M:72:ARG:HG3	2:M:72:ARG:O	2.14	0.47
2:M:102:HIS:HB2	2:M:105:THR:O	2.15	0.47
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.95	0.47
2:M:442:GLU:HG2	2:M:454:SER:CB	2.45	0.47
2:M:567:GLN:O	2:M:997:LEU:HD23	2.15	0.47
2:M:1054:THR:HB	2:M:1055:LEU:HD23	1.96	0.47
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.43	0.47
3:N:207:PHE:HB3	3:N:395:VAL:HG21	1.97	0.47
3:N:221:ALA:C	3:N:367:ILE:HD12	2.34	0.47
3:N:702:LEU:CD1	3:N:747:VAL:HB	2.45	0.47
3:N:895:VAL:O	3:N:898:GLU:HB2	2.14	0.47
3:N:976:GLN:C	3:N:979:GLU:HB2	2.33	0.47
3:N:1107:VAL:HG22	3:N:1200:VAL:O	2.14	0.47
3:N:1155:VAL:CG2	3:N:1183:ILE:HD11	2.43	0.47
3:N:1342:GLU:H	3:N:1342:GLU:CD	2.16	0.47
2:C:99:GLN:HE21	2:C:101:ILE:HD11	1.78	0.47
2:C:391:LEU:HG	2:C:391:LEU:O	2.14	0.47
2:C:613:VAL:HG11	2:C:655:LEU:CD1	2.44	0.47
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.15	0.47
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.95	0.47
3:D:104:PHE:CE1	3:D:1452:ILE:HD11	2.50	0.47
3:D:168:THR:C	3:D:170:PRO:HD3	2.35	0.47
3:D:601:ARG:HH12	3:D:611:GLN:HB3	1.79	0.47
2:M:100:LEU:HD12	2:M:100:LEU:O	2.14	0.47
2:M:498:GLN:CD	2:M:516:ARG:HE	2.17	0.47

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.28	0.47
2:M:568:ALA:HB3	2:M:668:LEU:HD22	1.97	0.47
2:M:660:ALA:HB1	2:M:667:ALA:O	2.14	0.47
2:M:684:PHE:CG	2:M:685:GLU:N	2.83	0.47
2:M:918:LEU:HD23	2:M:968:LEU:O	2.15	0.47
3:N:70:GLY:O	3:N:71:LYS:HD2	2.14	0.47
3:N:374:GLU:HB3	3:N:385:VAL:O	2.15	0.47
3:N:629:SER:OG	3:N:726:ILE:HG13	2.13	0.47
3:N:685:ASP:O	3:N:686:GLU:C	2.53	0.47
3:N:824:ASN:HB3	3:N:825:ALA:H	1.47	0.47
5:P:202:TYR:O	5:P:203:THR:O	2.31	0.47
5:P:340:SER:O	5:P:341:PRO:C	2.53	0.47
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.96	0.47
2:C:56:GLU:OE2	2:C:356:ARG:NE	2.48	0.47
2:C:127:PHE:O	2:C:133:ASP:HA	2.14	0.47
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.95	0.47
2:C:266:ARG:O	2:C:288:ARG:HD2	2.15	0.47
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.45	0.47
2:C:762:LYS:NZ	2:C:762:LYS:CB	2.77	0.47
2:C:860:HIS:HA	2:C:866:PRO:HA	1.97	0.47
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.95	0.47
3:D:119:SER:HB2	3:D:123:LEU:CA	2.44	0.47
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.96	0.47
3:D:187:LYS:HE2	3:D:213:VAL:CG1	2.44	0.47
3:D:375:GLU:O	3:D:385:VAL:HG12	2.14	0.47
3:D:493:ARG:O	3:D:497:GLU:HG3	2.15	0.47
3:D:546:ARG:HH21	3:D:550:ARG:HH12	1.63	0.47
3:D:628:ARG:O	3:D:629:SER:CB	2.62	0.47
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.44	0.47
3:D:653:PHE:CD2	3:D:695:ILE:HD11	2.50	0.47
3:D:688:TRP:HA	3:D:688:TRP:HE3	1.78	0.47
3:D:729:HIS:CE1	3:D:731:LEU:CB	2.98	0.47
3:D:792:ILE:HG23	3:D:793:THR:N	2.30	0.47
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.40	0.47
3:D:899:LEU:HD13	3:D:899:LEU:N	2.30	0.47
3:D:911:LEU:HD12	3:D:911:LEU:N	2.30	0.47
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.24	0.47
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.30	0.47
3:D:1424:VAL:CG1	3:D:1425:THR:H	2.28	0.47
5:F:402:ASN:O	5:F:406:ARG:HB2	2.14	0.47
1:K:63:HIS:HD2	1:K:65:PHE:N	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:18:LEU:HB2	2:M:590:ASP:OD2	2.15	0.47
2:M:42:VAL:HG12	2:M:43:GLY:N	2.26	0.47
2:M:249:LYS:HE3	2:M:249:LYS:HB2	1.69	0.47
2:M:405:ARG:NH2	2:M:409:ARG:NH2	2.52	0.47
2:M:682:TYR:CD1	2:M:851:LYS:HD2	2.50	0.47
2:M:737:LEU:HD22	2:M:741:GLY:O	2.15	0.47
2:M:1071:ILE:HD12	3:N:670:VAL:CG1	2.43	0.47
3:N:119:SER:HB2	3:N:123:LEU:N	2.29	0.47
3:N:499:VAL:O	3:N:503:LEU:HB2	2.15	0.47
3:N:646:LYS:HD3	3:N:722:GLU:HA	1.97	0.47
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.44	0.47
3:N:850:LEU:HD12	3:N:850:LEU:N	2.30	0.47
3:N:1109:GLU:HB2	3:N:1110:ALA:H	1.35	0.47
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.15	0.47
3:N:1147:ARG:H	3:N:1166:LEU:HD23	1.79	0.47
3:N:1273:VAL:HG23	3:N:1273:VAL:O	2.14	0.47
3:N:1463:LYS:O	3:N:1467:ILE:HG13	2.15	0.47
4:O:61:GLU:OE1	4:O:65:MET:HE2	2.15	0.47
5:P:170:HIS:HA	5:P:173:TYR:HD1	1.80	0.47
1:B:6:LEU:HG	1:B:6:LEU:O	2.14	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.48	0.47
2:C:76:PRO:HA	2:C:77:PRO:HD3	1.78	0.47
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.97	0.47
2:C:480:THR:CG2	2:C:481:ASP:N	2.78	0.47
2:C:755:LEU:CD1	2:C:792:VAL:HG22	2.45	0.47
2:C:1045:ALA:HA	3:D:758:GLU:CD	2.34	0.47
3:D:130:SER:O	3:D:568:ARG:CZ	2.63	0.47
3:D:988:ARG:HD3	3:D:992:ILE:HD11	1.97	0.47
3:D:1047:LYS:O	3:D:1050:GLY:N	2.48	0.47
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.29	0.47
3:D:1284:GLU:HB2	3:D:1291:SER:OG	2.15	0.47
3:D:1314:LYS:O	3:D:1316:GLY:N	2.48	0.47
5:F:175:HIS:O	5:F:179:GLU:HG3	2.15	0.47
5:F:188:ILE:CD1	5:F:221:ILE:HG23	2.45	0.47
1:L:46:SER:O	1:L:148:VAL:HB	2.14	0.47
1:L:206:THR:CG2	1:L:209:GLU:H	2.28	0.47
1:L:223:THR:C	1:L:225:PHE:N	2.68	0.47
2:M:122:THR:HG22	2:M:123:GLU:H	1.80	0.47
2:M:244:PRO:CD	2:M:245:GLY:H	2.28	0.47
2:M:256:TYR:CZ	2:M:293:PHE:HB2	2.49	0.47
2:M:275:TYR:CG	2:M:276:LYS:N	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:355:VAL:HG13	2:M:356:ARG:N	2.30	0.47
2:M:594:ALA:HB1	2:M:656:ALA:O	2.14	0.47
2:M:672:VAL:HG22	2:M:868:ASP:HB2	1.96	0.47
2:M:1047:HIS:CD2	3:N:754:PHE:CE2	3.03	0.47
2:M:1052:MET:CE	2:M:1056:LYS:HZ3	2.27	0.47
3:N:130:SER:O	3:N:568:ARG:NH2	2.43	0.47
3:N:165:LYS:O	3:N:165:LYS:HD3	2.15	0.47
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.69	0.47
3:N:195:VAL:HB	3:N:205:TYR:CB	2.40	0.47
3:N:483:HIS:O	3:N:484:PRO:O	2.33	0.47
3:N:885:ILE:HD13	3:N:937:TYR:CB	2.44	0.47
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.63	0.47
3:N:1141:GLU:OE2	3:N:1168:MET:HE2	2.15	0.47
4:O:9:LEU:C	4:O:11:GLY:H	2.17	0.47
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.79	0.47
1:A:7:LYS:HZ3	1:A:188:GLN:NE2	2.13	0.47
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.45	0.47
2:C:622:GLU:C	2:C:624:PRO:HD3	2.35	0.47
2:C:1081:VAL:CB	2:C:1086:ARG:HH21	2.26	0.47
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.97	0.47
3:D:218:LYS:CG	3:D:370:ALA:HB1	2.45	0.47
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.95	0.47
3:D:824:ASN:O	3:D:826:PRO:HD3	2.14	0.47
3:D:936:TYR:O	3:D:937:TYR:C	2.53	0.47
3:D:1031:ASN:ND2	3:D:1033:GLN:HB3	2.29	0.47
3:D:1481:VAL:C	3:D:1483:PHE:H	2.18	0.47
1:K:37:GLY:O	1:K:38:ASN:C	2.53	0.47
1:L:106:PRO:HG2	1:L:134:GLU:OE1	2.15	0.47
2:M:667:ALA:O	2:M:668:LEU:HD23	2.15	0.47
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.79	0.47
3:N:186:VAL:HG13	3:N:187:LYS:N	2.30	0.47
3:N:547:LEU:O	3:N:548:ILE:C	2.53	0.47
3:N:1001:GLU:OE1	3:N:1001:GLU:HA	2.12	0.47
5:P:162:LYS:O	5:P:166:LEU:HG	2.14	0.47
5:P:287:THR:HG22	5:P:290:GLU:OE1	2.14	0.47
5:P:396:ARG:C	5:P:399:GLN:HB2	2.34	0.47
2:C:24:GLU:OE2	2:C:24:GLU:HA	2.14	0.47
2:C:147:TYR:HE2	2:C:330:ASN:HB3	1.80	0.47
2:C:682:TYR:CD2	2:C:851:LYS:HG2	2.50	0.47
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	2.50	0.47
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1100:GLN:O	3:D:9:ARG:O	2.31	0.47
3:D:19:ARG:HE	3:D:94:GLU:CD	2.18	0.47
3:D:80:VAL:HG22	3:D:81:THR:N	2.30	0.47
3:D:528:VAL:O	3:D:536:ALA:N	2.43	0.47
3:D:684:LYS:C	3:D:686:GLU:N	2.68	0.47
3:D:767:HIS:HE1	4:E:6:ILE:HG12	1.79	0.47
3:D:827:ILE:HG23	3:D:837:GLY:CA	2.44	0.47
3:D:1129:THR:CG2	3:D:1130:ARG:N	2.67	0.47
3:D:1258:ARG:O	3:D:1259:VAL:C	2.53	0.47
3:D:1342:GLU:HA	3:D:1345:GLU:CD	2.33	0.47
4:E:38:THR:HA	4:E:67:GLU:OE2	2.15	0.47
5:F:406:ARG:O	5:F:409:LYS:HG2	2.13	0.47
1:L:18:ARG:NH1	1:L:203:GLY:O	2.48	0.47
2:M:410:ILE:HB	2:M:453:THR:O	2.14	0.47
2:M:432:ARG:HH22	3:N:1047:LYS:NZ	2.12	0.47
2:M:515:ALA:O	2:M:516:ARG:HD3	2.15	0.47
2:M:632:ASN:HB3	2:M:633:GLN:NE2	2.30	0.47
2:M:1092:LEU:CD2	2:M:1099:VAL:HG11	2.45	0.47
3:N:178:LEU:HD23	3:N:178:LEU:O	2.15	0.47
3:N:387:LEU:HB2	5:P:94:LEU:HD11	1.97	0.47
3:N:764:LEU:CG	3:N:765:SER:N	2.68	0.47
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.70	0.47
3:N:853:VAL:C	3:N:855:HIS:H	2.19	0.47
3:N:1045:MET:CG	3:N:1073:SER:HA	2.45	0.47
3:N:1101:VAL:HG13	3:N:1102:THR:OG1	2.15	0.47
3:N:1209:LEU:CD1	3:N:1216:SER:H	2.28	0.47
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.30	0.47
3:N:1268:PRO:HB3	3:N:1329:ALA:HB3	1.97	0.47
5:P:132:ARG:HG2	5:P:181:GLU:HG3	1.96	0.47
1:A:51:THR:HA	1:A:145:ASP:O	2.14	0.46
1:A:98:THR:C	1:A:99:LEU:HD12	2.34	0.46
1:A:221:HIS:CE1	1:A:224:TYR:HE2	2.33	0.46
2:C:66:LEU:CD1	2:C:100:LEU:HB3	2.44	0.46
2:C:582:GLY:N	2:C:584:GLU:OE2	2.47	0.46
2:C:672:VAL:HG21	2:C:868:ASP:HB2	1.93	0.46
2:C:923:GLU:O	2:C:927:GLY:CA	2.62	0.46
2:C:923:GLU:OE1	2:C:927:GLY:HA2	2.15	0.46
2:C:1095:LEU:O	2:C:1096:ALA:C	2.53	0.46
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.96	0.46
3:D:67:ARG:HA	3:D:67:ARG:NE	2.29	0.46
3:D:384:VAL:HG12	3:D:385:VAL:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:473:LEU:HD11	3:D:495:ARG:NH2	2.29	0.46
3:D:614:PHE:O	3:D:617:ASN:N	2.47	0.46
3:D:890:VAL:HG12	3:D:926:LYS:CG	2.44	0.46
3:D:1169:ASP:HA	3:D:1172:HIS:HB2	1.97	0.46
3:D:1256:LEU:N	3:D:1257:PRO:CD	2.78	0.46
3:D:1277:ILE:HG22	3:D:1278:ASP:N	2.30	0.46
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.44	0.46
3:D:1370:ILE:O	3:D:1372:VAL:N	2.48	0.46
3:D:1437:ALA:C	3:D:1446:VAL:HG11	2.34	0.46
1:L:33:GLY:HA2	1:L:195:LEU:HB2	1.97	0.46
2:M:218:VAL:O	2:M:221:LEU:HB3	2.15	0.46
2:M:841:ASN:CG	2:M:842:ARG:N	2.68	0.46
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.96	0.46
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.23	0.46
3:N:376:GLU:OE1	3:N:376:GLU:N	2.43	0.46
3:N:399:ARG:HD3	3:N:402:PRO:HG3	1.97	0.46
3:N:1129:THR:CG2	3:N:1130:ARG:H	2.20	0.46
3:N:1396:GLU:HA	3:N:1399:ASP:HB2	1.97	0.46
5:P:129:GLU:O	5:P:142:ARG:NH1	2.47	0.46
5:P:238:TYR:CZ	5:P:242:TRP:NE1	2.75	0.46
5:P:239:ALA:O	5:P:240:THR:C	2.53	0.46
5:P:406:ARG:HG2	5:P:409:LYS:CE	2.45	0.46
5:P:416:ARG:HD3	5:P:419:ARG:CB	2.45	0.46
1:A:203:GLY:O	1:A:205:VAL:N	2.49	0.46
1:A:228:PRO:HB3	1:B:13:VAL:CG2	2.46	0.46
1:B:27:PRO:CG	1:B:186:LEU:HD12	2.44	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.97	0.46
2:C:861:LEU:O	2:C:862:PRO:C	2.54	0.46
3:D:95:LEU:HA	3:D:551:ASN:HD21	1.80	0.46
3:D:128:TYR:O	3:D:568:ARG:NH2	2.48	0.46
3:D:233:LYS:NZ	3:D:237:LYS:HD2	2.30	0.46
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.97	0.46
3:D:401:TYR:CD2	3:D:415:VAL:HG13	2.51	0.46
3:D:700:VAL:HG13	3:D:718:PRO:CG	2.46	0.46
3:D:926:LYS:O	3:D:929:ARG:HB3	2.15	0.46
3:D:1000:THR:HA	3:D:1041:LEU:HD21	1.96	0.46
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.46	0.46
3:D:1264:GLU:O	3:D:1265:ALA:C	2.54	0.46
3:D:1441:GLN:CA	3:D:1441:GLN:NE2	2.77	0.46
5:F:215:GLU:O	5:F:246:ALA:HB1	2.15	0.46

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:574:LEU:O	3:N:577:ALA:HB3	2.15	0.46
3:N:908:LYS:HB2	3:N:908:LYS:HE3	1.60	0.46
3:N:916:TYR:CE2	3:N:920:LEU:HD22	2.51	0.46
1:A:44:LEU:HD23	1:A:48:ILE:CD1	2.45	0.46
1:B:122:ILE:HG22	1:B:124:ASN:H	1.80	0.46
2:C:442:GLU:HG3	2:C:442:GLU:O	2.15	0.46
2:C:915:LYS:NZ	3:D:952:ASP:CG	2.68	0.46
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.79	0.46
3:D:93:ILE:HD11	3:D:548:ILE:HD11	1.97	0.46
3:D:571:LYS:O	3:D:574:LEU:HB3	2.15	0.46
3:D:1391:GLU:O	3:D:1392:GLY:O	2.33	0.46
3:D:1396:GLU:O	3:D:1397:LYS:C	2.51	0.46
3:D:1478:SER:C	3:D:1482:ARG:HG3	2.36	0.46
3:D:1495:ILE:HG12	4:E:80:VAL:HG13	1.98	0.46
5:F:368:VAL:HG21	5:F:389:PHE:CD1	2.50	0.46
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.50	0.46
1:L:177:VAL:HG22	1:L:199:ILE:HG23	1.98	0.46
2:M:176:VAL:CG1	2:M:182:VAL:HG22	2.44	0.46
2:M:337:GLY:O	2:M:338:GLU:C	2.54	0.46
2:M:559:LEU:HD12	2:M:559:LEU:O	2.16	0.46
2:M:626:ARG:HG2	2:M:629:TYR:CE1	2.50	0.46
2:M:804:VAL:HB	2:M:824:ARG:HB2	1.97	0.46
2:M:840:ALA:O	2:M:995:MET:CE	2.64	0.46
2:M:1054:THR:CG2	2:M:1055:LEU:HD23	2.45	0.46
3:N:43:GLY:O	3:N:45:PHE:N	2.49	0.46
3:N:1274:ILE:HD12	3:N:1274:ILE:O	2.16	0.46
1:B:2:LEU:HD13	1:B:3:ASP:H	1.79	0.46
2:C:430:VAL:HG13	2:C:430:VAL:O	2.16	0.46
2:C:579:VAL:HG13	2:C:579:VAL:O	2.16	0.46
2:C:632:ASN:HB2	2:C:633:GLN:HE22	1.78	0.46
2:C:748:GLU:HB2	2:C:799:ILE:HG22	1.97	0.46
2:C:893:ALA:O	2:C:897:LEU:N	2.40	0.46
2:C:945:ARG:O	2:C:947:ALA:N	2.48	0.46
2:C:1031:ARG:HG3	3:D:620:GLY:HA3	1.96	0.46
2:C:1106:ASP:OD1	3:D:1456:LYS:HD3	2.16	0.46
2:C:1115:LEU:CD2	3:D:85:VAL:HG13	2.36	0.46
3:D:218:LYS:O	3:D:219:GLU:HB3	2.15	0.46
3:D:420:VAL:O	3:D:420:VAL:HG12	2.15	0.46
3:D:568:ARG:CA	3:D:571:LYS:NZ	2.72	0.46
3:D:703:ASN:O	3:D:745:MET:HG3	2.16	0.46
3:D:1084:THR:O	3:D:1088:THR:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1376:MET:C	3:D:1378:TYR:N	2.68	0.46
3:D:1451:ALA:O	3:D:1452:ILE:C	2.53	0.46
5:F:137:GLY:CA	5:F:140:ARG:NH2	2.78	0.46
1:K:35:THR:CG2	1:L:39:PRO:HB3	2.45	0.46
1:K:133:GLU:HG2	1:K:134:GLU:N	2.29	0.46
1:K:214:ALA:O	1:K:217:ILE:HB	2.16	0.46
1:L:176:ARG:HD2	1:L:200:TRP:CZ3	2.51	0.46
2:M:124:ASP:CB	2:M:407:LYS:HZ2	2.29	0.46
2:M:176:VAL:C	2:M:178:PRO:HD3	2.36	0.46
2:M:376:ARG:N	2:M:377:PRO:CD	2.79	0.46
2:M:605:LYS:HD2	2:M:610:ARG:HH12	1.79	0.46
2:M:668:LEU:O	2:M:995:MET:HB3	2.16	0.46
2:M:901:TYR:CE2	2:M:917:LEU:CD1	2.92	0.46
3:N:387:LEU:HD12	5:P:96:LEU:HB2	1.96	0.46
3:N:1189:ARG:NH1	3:N:1204:CYS:HA	2.30	0.46
3:N:1489:GLN:HA	3:N:1492:LEU:CB	2.46	0.46
5:P:166:LEU:HB3	5:P:170:HIS:CB	2.42	0.46
5:P:260:ILE:HG12	5:P:264:MET:HB3	1.97	0.46
5:P:333:ILE:HA	5:P:334:PRO:HD3	1.70	0.46
2:C:576:ALA:HB3	2:C:900:ARG:HH21	1.80	0.46
2:C:1057:SER:OG	3:D:621:LYS:HE3	2.14	0.46
3:D:500:ARG:NH1	3:D:500:ARG:HG3	2.30	0.46
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.31	0.46
3:D:674:ARG:CZ	5:F:342:VAL:HG11	2.46	0.46
3:D:1154:GLU:CG	3:D:1159:ARG:HH11	2.24	0.46
3:D:1200:VAL:HG22	3:D:1373:ARG:NH1	2.31	0.46
3:D:1211:MET:HG2	3:D:1213:ARG:NH1	2.31	0.46
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.15	0.46
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.30	0.46
4:E:39:VAL:HG23	4:E:40:LEU:HG	1.97	0.46
5:F:84:TYR:CE1	5:F:192:LEU:HD22	2.51	0.46
2:M:139:GLN:HA	2:M:411:SER:O	2.16	0.46
2:M:521:PRO:HG3	3:N:1068:LEU:CD2	2.46	0.46
3:N:14:SER:OG	3:N:511:TRP:NE1	2.31	0.46
3:N:853:VAL:C	3:N:855:HIS:N	2.68	0.46
3:N:1102:THR:O	3:N:1105:ILE:HG12	2.16	0.46
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	1.97	0.46
3:N:1108:ARG:O	3:N:1108:ARG:CG	2.64	0.46
3:N:1378:TYR:HB3	3:N:1420:LEU:CD2	2.44	0.46
3:N:1381:VAL:HG12	3:N:1382:THR:H	1.80	0.46
5:P:137:GLY:HA2	5:P:140:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:138:SER:O	5:P:140:ARG:N	2.49	0.46
5:P:269:ASN:O	5:P:272:SER:OG	2.26	0.46
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.97	0.46
2:C:73:LEU:HD12	2:C:73:LEU:N	2.29	0.46
2:C:835:VAL:HG22	3:D:632:VAL:HG21	1.96	0.46
2:C:1092:LEU:HG	3:D:607:LEU:HD13	1.98	0.46
3:D:154:THR:HB	3:D:157:GLU:HG3	1.96	0.46
3:D:166:GLN:NE2	3:D:167:GLU:H	2.14	0.46
3:D:400:VAL:HA	3:D:442:ASN:O	2.15	0.46
3:D:662:GLU:OE1	3:D:663:GLU:N	2.48	0.46
3:D:732:VAL:O	3:D:735:ALA:N	2.47	0.46
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.95	0.46
2:M:140:ILE:HD11	2:M:410:ILE:HG21	1.97	0.46
2:M:443:THR:HB	2:M:444:PRO:CD	2.46	0.46
2:M:446:GLY:O	2:M:447:ALA:C	2.54	0.46
2:M:546:LEU:HA	2:M:581:THR:OG1	2.15	0.46
2:M:567:GLN:HB3	2:M:997:LEU:HD22	1.97	0.46
2:M:1049:LEU:O	2:M:1049:LEU:HG	2.14	0.46
3:N:245:LEU:HD22	3:N:245:LEU:C	2.36	0.46
3:N:385:VAL:CG1	5:P:232:ARG:NH1	2.75	0.46
3:N:422:ALA:HB1	5:P:178:ARG:NH2	2.29	0.46
3:N:792:ILE:HD12	3:N:941:PHE:CD1	2.51	0.46
3:N:828:LYS:C	3:N:829:VAL:HG22	2.35	0.46
3:N:964:LEU:O	3:N:968:ASP:HB2	2.16	0.46
3:N:1009:LYS:HD3	3:N:1009:LYS:HA	1.60	0.46
1:A:62:LEU:HD12	1:A:62:LEU:N	2.30	0.46
2:C:106:GLY:C	2:C:107:LEU:HD23	2.36	0.46
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.27	0.46
2:C:560:MET:CE	2:C:846:LYS:HD2	2.45	0.46
2:C:678:PRO:HA	2:C:683:ASN:HD21	1.81	0.46
2:C:783:ARG:C	2:C:785:VAL:H	2.19	0.46
2:C:1056:LYS:HB3	3:D:624:ASP:N	2.31	0.46
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.98	0.46
3:D:34:TYR:CD1	3:D:35:ARG:N	2.83	0.46
3:D:224:ARG:HG2	3:D:225:LEU:N	2.30	0.46
3:D:887:ALA:HA	3:D:896:ALA:HB1	1.97	0.46
3:D:995:LEU:HA	3:D:998:GLU:OE1	2.16	0.46
3:D:996:TRP:CD1	3:D:1056:PRO:HG2	2.50	0.46
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.97	0.46
5:F:167:PRO:HD2	5:F:170:HIS:CD2	2.51	0.46
2:M:413:LEU:CD1	2:M:451:LEU:HB3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:585:GLU:O	2:M:588:VAL:HG22	2.16	0.46
2:M:737:LEU:CD2	2:M:741:GLY:O	2.64	0.46
2:M:1036:GLU:O	2:M:1039:ALA:CB	2.64	0.46
2:M:1052:MET:SD	2:M:1056:LYS:CE	3.04	0.46
3:N:49:ILE:HG22	3:N:50:PHE:CD2	2.51	0.46
3:N:103:TRP:CZ3	3:N:1447:LEU:HD23	2.50	0.46
3:N:123:LEU:CD2	3:N:152:LEU:HD22	2.45	0.46
3:N:217:LYS:O	3:N:373:PRO:HA	2.16	0.46
3:N:1258:ARG:HA	3:N:1261:GLU:HB3	1.98	0.46
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.16	0.46
4:O:30:LEU:O	4:O:35:PHE:CD1	2.68	0.46
4:O:57:ASP:N	4:O:58:PRO:HD3	2.30	0.46
5:P:203:THR:O	5:P:205:ARG:N	2.49	0.46
1:A:67:THR:HG23	1:A:67:THR:O	2.16	0.46
1:B:219:ARG:C	1:B:221:HIS:H	2.18	0.46
2:C:16:PRO:O	2:C:17:PRO:C	2.51	0.46
2:C:26:TYR:HE1	2:C:340:MET:HG3	1.79	0.46
2:C:559:LEU:O	2:C:560:MET:C	2.54	0.46
2:C:674:VAL:HA	2:C:869:VAL:CG1	2.46	0.46
2:C:723:THR:OG1	2:C:724:ARG:N	2.49	0.46
2:C:923:GLU:CD	2:C:927:GLY:CA	2.84	0.46
2:C:1045:ALA:HB1	2:C:1048:THR:CB	2.40	0.46
2:C:1059:ASP:CG	2:C:1080:SER:HB2	2.36	0.46
3:D:544:TYR:O	3:D:545:ARG:C	2.51	0.46
3:D:770:LEU:HD11	3:D:919:PHE:CD1	2.51	0.46
3:D:901:GLN:C	3:D:903:ASP:H	2.19	0.46
3:D:1021:TYR:CZ	3:D:1025:GLN:HG3	2.51	0.46
3:D:1491:THR:HG21	4:E:89:MET:SD	2.55	0.46
5:F:87:GLU:HA	5:F:90:GLN:HE21	1.81	0.46
1:L:56:VAL:HB	1:L:165:ILE:HG13	1.98	0.46
2:M:9:ILE:O	2:M:10:ARG:C	2.54	0.46
2:M:69:LEU:C	2:M:70:GLU:HG3	2.36	0.46
2:M:143:SER:CB	2:M:276:LYS:HZ3	2.28	0.46
2:M:495:THR:N	2:M:530:GLU:OE1	2.46	0.46
2:M:572:ILE:HG13	2:M:573:ARG:HG2	1.98	0.46
2:M:859:PRO:HB2	2:M:867:VAL:HG21	1.98	0.46
3:N:12:LEU:CB	3:N:507:ASN:ND2	2.74	0.46
3:N:137:PRO:CG	3:N:453:ASP:HB3	2.46	0.46
3:N:194:GLY:N	3:N:205:TYR:O	2.49	0.46
3:N:218:LYS:HB2	3:N:218:LYS:HZ2	1.78	0.46
3:N:411:THR:CG2	3:N:429:SER:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:583:ASP:OD1	3:N:604:THR:CG2	2.64	0.46
3:N:940:THR:O	3:N:943:THR:HG22	2.15	0.46
3:N:1282:ARG:HH12	3:N:1293:PHE:CB	2.28	0.46
3:N:1423:GLY:C	3:N:1425:THR:H	2.19	0.46
5:P:179:GLU:O	5:P:182:ALA:HB3	2.16	0.46
1:B:14:ARG:O	1:B:21:GLY:HA2	2.16	0.46
2:C:19:THR:HG22	2:C:19:THR:O	2.16	0.46
2:C:118:ILE:HG23	2:C:118:ILE:O	2.15	0.46
2:C:286:SER:HB2	2:C:299:LYS:HZ2	1.80	0.46
2:C:439:CYS:SG	2:C:442:GLU:HB2	2.56	0.46
2:C:850:ALA:HB1	3:D:633:VAL:HG12	1.98	0.46
3:D:382:GLU:CG	3:D:383:GLY:H	2.20	0.46
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.46	0.46
3:D:904:VAL:HB	3:D:905:PRO:CD	2.46	0.46
3:D:1209:LEU:HD12	3:D:1219:GLU:OE1	2.16	0.46
5:F:329:TYR:O	5:F:332:PHE:HB2	2.15	0.46
1:K:179:PHE:HA	1:K:197:LEU:HA	1.98	0.46
2:M:311:PHE:O	2:M:314:THR:OG1	2.26	0.46
2:M:734:LEU:HD13	2:M:737:LEU:CD1	2.46	0.46
2:M:865:THR:HA	2:M:866:PRO:HD3	1.64	0.46
2:M:1047:HIS:CE1	3:N:754:PHE:CG	3.04	0.46
2:M:1047:HIS:CG	3:N:754:PHE:CG	3.04	0.46
3:N:6:ARG:C	3:N:7:LYS:HG3	2.37	0.46
3:N:481:MET:HE1	3:N:1388:ARG:CG	2.45	0.46
3:N:1008:PHE:HZ	3:N:1032:PRO:HA	1.81	0.46
3:N:1372:VAL:CA	3:N:1375:MET:HG3	2.46	0.46
1:B:68:ILE:O	1:B:71:VAL:HB	2.15	0.45
2:C:458:TYR:O	2:C:470:PRO:HD3	2.15	0.45
2:C:807:ARG:HH21	2:C:808:ARG:CB	2.26	0.45
3:D:247:GLU:N	3:D:248:PRO:HD2	2.28	0.45
3:D:433:GLY:O	3:D:434:ARG:NH1	2.49	0.45
3:D:508:ARG:HH11	3:D:508:ARG:HG3	1.81	0.45
3:D:559:ALA:C	3:D:561:GLY:H	2.19	0.45
3:D:898:GLU:OE2	3:D:921:ARG:NH1	2.49	0.45
3:D:927:THR:O	3:D:930:LEU:N	2.48	0.45
3:D:1211:MET:HB3	3:D:1213:ARG:CZ	2.46	0.45
3:D:1440:PHE:N	3:D:1440:PHE:CD1	2.84	0.45
5:F:100:VAL:O	5:F:103:ALA:HB3	2.17	0.45
5:F:128:ARG:HD3	5:F:132:ARG:HH22	1.81	0.45
5:F:215:GLU:O	5:F:218:GLN:HB3	2.16	0.45
5:F:336:GLU:O	5:F:337:HIS:C	2.54	0.45

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:556:ASN:O	2:M:559:LEU:HB3	2.17	0.45
2:M:575:GLN:OE1	2:M:671:ASN:N	2.49	0.45
2:M:880:MET:CE	3:N:1034:GLN:HG2	2.46	0.45
2:M:883:GLY:O	2:M:885:ILE:N	2.49	0.45
2:M:967:PHE:HA	2:M:971:LYS:O	2.17	0.45
3:N:47:GLU:OE1	3:N:51:GLY:O	2.34	0.45
3:N:424:GLY:HA2	3:N:435:VAL:O	2.17	0.45
3:N:500:ARG:NH1	3:N:1386:ASP:O	2.50	0.45
3:N:562:ALA:O	3:N:567:ILE:HD11	2.17	0.45
3:N:902:LEU:CD1	3:N:902:LEU:O	2.64	0.45
3:N:1343:ALA:O	3:N:1345:GLU:N	2.49	0.45
3:N:1446:VAL:O	3:N:1446:VAL:HG12	2.16	0.45
5:P:105:LYS:NZ	5:P:105:LYS:CB	2.72	0.45
5:P:394:ARG:H	5:P:394:ARG:CD	2.28	0.45
2:C:134:ARG:NH1	2:C:392:SER:OG	2.49	0.45
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.74	0.45
2:C:470:PRO:O	2:C:538:GLN:OE1	2.35	0.45
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.98	0.45
2:C:1005:MET:HE1	3:D:645:PRO:HG2	1.97	0.45
2:C:1083:GLU:OE1	3:D:87:ARG:NH1	2.49	0.45
3:D:31:THR:HG22	3:D:32:ILE:HG13	1.99	0.45
3:D:843:PHE:CZ	3:D:858:VAL:HG21	2.50	0.45
3:D:1331:ASP:OD2	3:D:1331:ASP:C	2.54	0.45
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.16	0.45
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.44	0.45
5:F:192:LEU:HA	5:F:195:VAL:HG23	1.97	0.45
1:K:91:ASN:HD22	1:K:91:ASN:HA	1.59	0.45
1:K:111:ALA:O	1:K:114:PHE:HD1	1.99	0.45
2:M:243:ARG:HA	2:M:244:PRO:HD3	1.45	0.45
2:M:290:LEU:HD23	2:M:290:LEU:N	2.20	0.45
2:M:406:HIS:HD2	2:M:409:ARG:NH2	2.15	0.45
2:M:497:ALA:O	2:M:533:ASP:OD1	2.35	0.45
2:M:682:TYR:CE1	3:N:635:PRO:HD2	2.51	0.45
2:M:712:ALA:O	2:M:820:ARG:N	2.46	0.45
2:M:881:ASN:HD22	2:M:881:ASN:N	2.13	0.45
2:M:1054:THR:CG2	2:M:1059:ASP:OD2	2.63	0.45
3:N:103:TRP:HH2	3:N:1447:LEU:HD23	1.82	0.45
3:N:148:GLU:O	3:N:150:ARG:N	2.49	0.45
3:N:502:PHE:CE2	3:N:1452:ILE:HG23	2.52	0.45
3:N:817:GLU:O	3:N:821:VAL:HG23	2.16	0.45
3:N:1036:ARG:CB	3:N:1036:ARG:HH11	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1371:VAL:O	3:N:1371:VAL:HG12	2.16	0.45
3:N:1381:VAL:HG12	3:N:1382:THR:N	2.31	0.45
3:N:1383:ASP:O	3:N:1384:PRO:O	2.35	0.45
1:A:44:LEU:HD23	1:A:48:ILE:HD11	1.98	0.45
1:A:180:GLN:HE22	2:C:934:PHE:HB2	1.82	0.45
1:B:96:THR:HA	1:B:144:VAL:O	2.17	0.45
2:C:167:LYS:O	2:C:169:GLY:N	2.50	0.45
2:C:288:ARG:HA	2:C:288:ARG:HE	1.80	0.45
2:C:397:GLU:HG3	2:C:633:GLN:NE2	2.32	0.45
3:D:166:GLN:HG3	3:D:167:GLU:N	2.31	0.45
3:D:740:PHE:C	3:D:742:GLY:N	2.70	0.45
3:D:786:ILE:O	3:D:787:LEU:C	2.55	0.45
3:D:1001:GLU:C	3:D:1001:GLU:CD	2.75	0.45
1:L:26:GLU:HB2	1:L:194:LYS:HG3	1.97	0.45
1:L:91:ASN:H	1:L:94:LEU:CD1	2.24	0.45
2:M:344:PHE:CD2	2:M:382:ILE:HD11	2.51	0.45
2:M:443:THR:HG21	2:M:450:GLY:HA2	1.98	0.45
2:M:690:ILE:HD13	2:M:690:ILE:HA	1.85	0.45
3:N:631:ILE:HD11	3:N:743:ASP:HB2	1.97	0.45
3:N:636:GLN:O	3:N:637:LEU:O	2.34	0.45
3:N:885:ILE:HD13	3:N:937:TYR:CG	2.52	0.45
3:N:1388:ARG:O	3:N:1391:GLU:HG2	2.17	0.45
5:P:274:THR:O	5:P:278:LEU:HG	2.16	0.45
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.80	0.45
2:C:95:TYR:HB3	2:C:114:PHE:CA	2.46	0.45
2:C:332:ARG:HG3	2:C:465:GLY:O	2.17	0.45
2:C:1004:LYS:CE	2:C:1027:PHE:HE1	2.30	0.45
3:D:177:ALA:HA	3:D:199:LEU:HD13	1.99	0.45
3:D:441:ARG:O	3:D:443:VAL:N	2.50	0.45
3:D:601:ARG:CZ	3:D:611:GLN:HB2	2.47	0.45
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.52	0.45
3:D:1198:TYR:OH	3:D:1397:LYS:HE3	2.16	0.45
3:D:1426:LYS:HB2	3:D:1426:LYS:HZ3	1.82	0.45
5:F:210:LEU:HD23	5:F:213:ILE:CD1	2.47	0.45
1:K:10:VAL:H	1:K:26:GLU:HB2	1.82	0.45
1:K:124:ASN:O	1:K:126:ASP:N	2.49	0.45
1:L:150:TYR:CE1	1:L:170:VAL:HG12	2.51	0.45
2:M:31:GLN:NE2	2:M:40:GLU:O	2.50	0.45
2:M:157:ARG:CZ	2:M:314:THR:CA	2.95	0.45
2:M:304:LEU:HD23	2:M:304:LEU:C	2.37	0.45
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:537:LYS:N	2:M:905:ILE:HD11	2.32	0.45
2:M:643:VAL:HG23	2:M:655:LEU:O	2.16	0.45
2:M:732:ALA:O	2:M:735:ARG:HG3	2.16	0.45
2:M:949:LYS:NZ	3:N:828:LYS:NZ	2.64	0.45
2:M:1054:THR:HG23	2:M:1059:ASP:HB2	1.98	0.45
2:M:1088:LEU:O	2:M:1091:GLU:N	2.50	0.45
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.32	0.45
3:N:1040:GLY:O	3:N:1060:SER:CB	2.54	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:CB	2.46	0.45
5:P:131:VAL:O	5:P:131:VAL:HG12	2.16	0.45
5:P:369:LEU:HD23	5:P:369:LEU:HA	1.85	0.45
1:A:151:VAL:CG1	1:A:155:LYS:HB3	2.47	0.45
1:A:153:ALA:O	1:A:154:GLU:C	2.55	0.45
2:C:164:PRO:HB3	2:C:266:ARG:NH1	2.32	0.45
2:C:537:LYS:CB	2:C:545:ASN:HD21	2.30	0.45
2:C:575:GLN:HA	2:C:662:GLU:OE2	2.17	0.45
2:C:575:GLN:HA	2:C:662:GLU:HG3	1.99	0.45
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.52	0.45
2:C:918:LEU:CB	2:C:968:LEU:HD23	2.47	0.45
2:C:936:VAL:HA	2:C:940:GLU:OE2	2.17	0.45
2:C:1093:GLN:OE1	3:D:90:MET:SD	2.75	0.45
3:D:18:ILE:HG21	3:D:516:ALA:O	2.17	0.45
3:D:50:PHE:O	3:D:89:ARG:HD2	2.17	0.45
3:D:456:MET:HG2	3:D:568:ARG:NH1	2.32	0.45
3:D:510:GLU:O	3:D:513:ILE:HG13	2.17	0.45
3:D:527:MET:CE	3:D:535:PHE:HB3	2.46	0.45
3:D:1143:GLY:O	3:D:1144:LEU:HD23	2.16	0.45
1:K:143:ARG:NE	1:K:158:ILE:HG21	2.32	0.45
2:M:861:LEU:HB3	2:M:862:PRO:CD	2.47	0.45
2:M:910:LYS:H	2:M:913:GLU:HB2	1.82	0.45
3:N:795:VAL:HG23	3:N:879:ARG:NH2	2.32	0.45
3:N:1165:TYR:OH	3:N:1203:LYS:CA	2.64	0.45
5:P:181:GLU:OE1	5:P:185:GLN:NE2	2.42	0.45
1:A:13:VAL:O	1:A:14:ARG:HG3	2.17	0.45
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.68	0.45
1:A:194:LYS:HG2	1:A:194:LYS:O	2.17	0.45
1:B:86:VAL:HG13	1:B:86:VAL:O	2.16	0.45
1:B:176:ARG:HH22	3:D:884:ARG:NE	2.15	0.45
1:B:176:ARG:NH1	3:D:884:ARG:NH1	2.65	0.45
2:C:70:GLU:O	2:C:96:ALA:HB1	2.17	0.45
2:C:417:GLY:C	2:C:418:LEU:HD22	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:674:VAL:HA	2:C:869:VAL:HG12	1.99	0.45
2:C:708:TYR:HE2	2:C:793:PRO:HD3	1.82	0.45
2:C:918:LEU:O	2:C:921:ALA:N	2.50	0.45
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.78	0.45
3:D:232:GLU:O	3:D:234:GLU:N	2.49	0.45
3:D:695:ILE:O	3:D:695:ILE:CG2	2.64	0.45
3:D:755:ALA:O	3:D:759:ALA:HB2	2.17	0.45
3:D:899:LEU:HD22	3:D:900:ILE:HG23	1.98	0.45
3:D:1114:THR:HG23	3:D:1114:THR:O	2.16	0.45
3:D:1281:VAL:HB	3:D:1314:LYS:O	2.17	0.45
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.99	0.45
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.51	0.45
1:L:150:TYR:CD1	1:L:170:VAL:HG12	2.52	0.45
2:M:207:LEU:HD23	2:M:211:LEU:HD22	1.99	0.45
2:M:265:ARG:N	2:M:289:THR:HG21	2.32	0.45
2:M:512:ARG:CB	2:M:523:ILE:HD11	2.47	0.45
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.99	0.45
2:M:1114:GLY:C	2:M:1116:ALA:N	2.70	0.45
3:N:385:VAL:CG1	5:P:232:ARG:HH12	2.29	0.45
3:N:527:MET:CE	3:N:537:THR:HB	2.46	0.45
3:N:770:LEU:HD23	3:N:770:LEU:N	2.32	0.45
3:N:911:LEU:O	3:N:912:LYS:C	2.54	0.45
3:N:1049:SER:HB3	3:N:1050:GLY:H	1.60	0.45
3:N:1096:ARG:HG2	3:N:1096:ARG:HH11	1.79	0.45
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.17	0.45
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.47	0.45
1:A:182:GLU:O	1:A:194:LYS:HB3	2.16	0.45
1:B:39:PRO:O	1:B:43:ILE:HG12	2.17	0.45
1:B:108:GLU:HG2	1:B:128:HIS:HE1	1.81	0.45
2:C:385:PHE:CD1	2:C:389:SER:HB2	2.52	0.45
2:C:445:GLU:HG3	2:C:446:GLY:N	2.31	0.45
2:C:807:ARG:HA	2:C:821:GLU:HB3	1.99	0.45
3:D:554:LEU:C	3:D:554:LEU:CD1	2.85	0.45
3:D:1441:GLN:NE2	3:D:1441:GLN:HA	2.31	0.45
3:D:1442:ASN:O	3:D:1444:THR:N	2.50	0.45
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.32	0.45
5:F:125:ASP:OD2	5:F:126:LEU:HD12	2.17	0.45
1:K:219:ARG:CZ	1:K:220:GLU:N	2.81	0.45
1:L:18:ARG:O	1:L:207:PRO:HD3	2.17	0.45
1:L:121:GLU:HG2	1:L:122:ILE:H	1.81	0.45
2:M:537:LYS:HA	2:M:905:ILE:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:949:LYS:HD3	3:N:828:LYS:HZ1	1.82	0.45
3:N:233:LYS:HD2	3:N:237:LYS:NZ	2.32	0.45
3:N:541:ASN:N	3:N:541:ASN:ND2	2.65	0.45
3:N:583:ASP:OD2	3:N:604:THR:OG1	2.34	0.45
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.47	0.45
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.98	0.45
3:N:930:LEU:HG	3:N:934:LEU:HD13	1.99	0.45
3:N:1036:ARG:HB3	3:N:1036:ARG:HH11	1.78	0.45
3:N:1041:LEU:O	3:N:1041:LEU:HD23	2.16	0.45
3:N:1267:ARG:NH1	3:N:1334:GLN:OE1	2.50	0.45
3:N:1396:GLU:HA	3:N:1399:ASP:CG	2.37	0.45
5:P:140:ARG:HH11	5:P:140:ARG:HG3	1.82	0.45
5:P:343:ASP:O	5:P:346:THR:N	2.43	0.45
1:A:176:ARG:O	1:A:177:VAL:HG23	2.16	0.44
1:A:214:ALA:O	1:A:216:GLU:N	2.50	0.44
1:B:56:VAL:HA	1:B:141:GLU:O	2.16	0.44
1:B:56:VAL:HG23	1:B:167:VAL:HG21	1.99	0.44
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.17	0.44
2:C:464:LEU:O	2:C:466:PHE:CD2	2.70	0.44
2:C:483:VAL:HG12	2:C:484:VAL:N	2.32	0.44
2:C:722:ILE:HG21	2:C:821:GLU:OE2	2.18	0.44
2:C:1005:MET:HE3	3:D:645:PRO:HG2	1.99	0.44
2:C:1081:VAL:CG2	2:C:1086:ARG:HH21	2.29	0.44
3:D:179:VAL:CG1	3:D:217:LYS:HE3	2.47	0.44
3:D:179:VAL:HG21	3:D:217:LYS:HE3	1.98	0.44
3:D:237:LYS:CB	3:D:238:PRO:HD3	2.20	0.44
3:D:526:PRO:O	3:D:537:THR:HA	2.16	0.44
3:D:591:VAL:HG12	3:D:598:ARG:O	2.17	0.44
3:D:1087:ARG:NE	3:D:1238:MET:HB2	2.24	0.44
5:F:105:LYS:NZ	5:F:105:LYS:HB3	2.32	0.44
1:L:5:LYS:HA	1:L:5:LYS:CE	2.38	0.44
2:M:13:ILE:HD11	2:M:534:VAL:HG21	1.99	0.44
2:M:207:LEU:HD22	2:M:221:LEU:HD21	1.99	0.44
2:M:342:ASP:O	2:M:346:VAL:HG23	2.17	0.44
2:M:1085:PHE:O	2:M:1088:LEU:HB3	2.16	0.44
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.52	0.44
3:N:181:ASP:CG	3:N:198:ARG:HB2	2.38	0.44
3:N:806:PHE:O	3:N:809:PRO:HD2	2.17	0.44
3:N:949:ILE:HG23	3:N:1020:LEU:HD13	1.99	0.44
3:N:1099:VAL:O	3:N:1100:ASP:C	2.56	0.44
3:N:1148:VAL:HG22	3:N:1163:GLY:C	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1209:LEU:HD12	3:N:1209:LEU:HA	1.79	0.44
3:N:1376:MET:CE	3:N:1421:LEU:HD13	2.47	0.44
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.84	0.44
5:P:398:ARG:HG2	5:P:398:ARG:NH1	2.32	0.44
1:A:217:ILE:O	1:A:220:GLU:HB3	2.16	0.44
1:A:221:HIS:C	1:A:223:THR:H	2.19	0.44
1:B:229:GLN:HE21	1:B:229:GLN:HB2	1.47	0.44
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.46	0.44
2:C:97:ARG:NH2	2:C:109:LYS:NZ	2.65	0.44
2:C:217:LEU:HB2	2:C:311:PHE:CZ	2.53	0.44
3:D:119:SER:H	3:D:123:LEU:CD1	2.29	0.44
3:D:127:LEU:HD12	3:D:127:LEU:O	2.18	0.44
3:D:191:LEU:HD12	3:D:211:VAL:CG1	2.47	0.44
3:D:530:VAL:HG22	3:D:536:ALA:HB2	1.98	0.44
3:D:540:LEU:CD1	3:D:606:ILE:HD11	2.44	0.44
3:D:736:PHE:CD1	3:D:736:PHE:N	2.85	0.44
3:D:1082:ALA:O	3:D:1086:LEU:HD13	2.18	0.44
3:D:1094:LEU:O	3:D:1097:LYS:N	2.50	0.44
3:D:1207:TYR:HB3	3:D:1208:ASP:H	1.57	0.44
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.98	0.44
4:E:23:VAL:HG21	4:E:65:MET:SD	2.57	0.44
5:F:180:GLY:O	5:F:181:GLU:C	2.55	0.44
5:F:262:VAL:O	5:F:265:VAL:HB	2.17	0.44
1:L:201:THR:O	1:L:203:GLY:N	2.49	0.44
2:M:144:PRO:O	2:M:276:LYS:NZ	2.50	0.44
2:M:244:PRO:HG2	2:M:245:GLY:H	1.82	0.44
2:M:252:LYS:HZ3	2:M:296:GLY:HA3	1.81	0.44
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.32	0.44
2:M:674:VAL:CG2	2:M:992:MET:HE1	2.42	0.44
2:M:839:LEU:CD2	2:M:849:VAL:HG22	2.46	0.44
2:M:971:LYS:NZ	3:N:950:GLY:HA3	2.31	0.44
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.98	0.44
3:N:97:THR:HG21	3:N:571:LYS:CD	2.46	0.44
3:N:756:GLN:O	3:N:760:ARG:HG2	2.17	0.44
3:N:950:GLY:O	3:N:951:ILE:C	2.55	0.44
3:N:975:GLU:OE2	3:N:988:ARG:NH2	2.49	0.44
3:N:1166:LEU:HB2	3:N:1170:ASP:HB2	1.99	0.44
3:N:1304:LYS:C	3:N:1305:LEU:HG	2.38	0.44
3:N:1311:LEU:HD23	3:N:1311:LEU:N	2.22	0.44
4:O:22:VAL:HG11	4:O:68:LEU:CD2	2.44	0.44
4:O:23:VAL:HG13	4:O:64:ALA:CB	2.48	0.44

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:167:PRO:HD2	5:P:170:HIS:HD2	1.82	0.44
1:A:42:ARG:HH22	2:C:857:ASP:HB3	1.82	0.44
1:A:190:THR:O	1:A:192:LEU:N	2.45	0.44
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.98	0.44
2:C:1031:ARG:HH11	3:D:619:LEU:C	2.20	0.44
2:C:1106:ASP:CG	3:D:1456:LYS:HD3	2.38	0.44
3:D:104:PHE:CD2	3:D:104:PHE:N	2.86	0.44
3:D:207:PHE:HB3	3:D:395:VAL:CG2	2.47	0.44
3:D:710:ARG:C	3:D:712:GLY:H	2.21	0.44
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.50	0.44
3:D:899:LEU:CD1	3:D:899:LEU:N	2.79	0.44
3:D:930:LEU:O	3:D:933:ALA:HB3	2.17	0.44
3:D:1152:GLU:C	3:D:1153:VAL:HG23	2.38	0.44
5:F:122:LEU:HD23	5:F:159:ILE:HG23	1.98	0.44
1:K:219:ARG:HH22	1:K:220:GLU:CG	2.28	0.44
2:M:139:GLN:HE22	2:M:414:GLY:CA	2.28	0.44
2:M:340:MET:SD	2:M:340:MET:O	2.76	0.44
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.44
2:M:469:THR:OG1	2:M:470:PRO:HD2	2.17	0.44
2:M:499:ALA:O	2:M:501:THR:N	2.50	0.44
2:M:515:ALA:HB3	2:M:524:VAL:CG1	2.48	0.44
2:M:959:PRO:O	2:M:960:GLU:O	2.35	0.44
2:M:1044:GLY:H	4:O:17:TYR:HE1	1.65	0.44
3:N:119:SER:O	3:N:121:THR:N	2.50	0.44
3:N:717:GLN:NE2	3:N:760:ARG:HH21	2.15	0.44
5:P:398:ARG:HA	5:P:401:GLU:HB3	1.99	0.44
1:A:152:PRO:CB	1:A:154:GLU:OE1	2.63	0.44
1:B:98:THR:HA	1:B:143:ARG:HA	1.99	0.44
1:B:176:ARG:HG2	1:B:200:TRP:HB2	1.99	0.44
2:C:281:LEU:HD12	2:C:305:PRO:O	2.17	0.44
2:C:317:VAL:C	2:C:319:GLY:N	2.69	0.44
2:C:345:ARG:CB	2:C:345:ARG:HH11	2.30	0.44
2:C:516:ARG:NH2	3:D:1068:LEU:CB	2.80	0.44
2:C:601:GLY:HA3	2:C:614:ARG:O	2.17	0.44
2:C:691:SER:O	2:C:692:GLU:C	2.56	0.44
2:C:937:ASP:HB3	2:C:939:ARG:H	1.83	0.44
2:C:945:ARG:O	2:C:948:GLU:HG2	2.17	0.44
3:D:12:LEU:HD23	3:D:12:LEU:HA	1.76	0.44
3:D:119:SER:H	3:D:123:LEU:HD12	1.81	0.44
3:D:172:PRO:CG	3:D:178:LEU:HD22	2.47	0.44
3:D:544:TYR:CE1	3:D:581:LEU:HD13	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:693:GLU:HG3	4:E:48:MET:CE	2.47	0.44
3:D:879:ARG:CD	3:D:902:LEU:O	2.64	0.44
3:D:932:ASP:C	3:D:934:LEU:N	2.71	0.44
3:D:974:ILE:HD13	3:D:992:ILE:HG12	2.00	0.44
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.17	0.44
3:D:1385:GLY:HA3	3:D:1413:THR:HG21	1.99	0.44
4:E:43:GLU:HG3	4:E:44:GLU:H	1.82	0.44
5:F:316:SER:HB3	5:F:319:THR:OG1	2.18	0.44
2:M:486:MET:HG2	2:M:490:GLU:HB3	2.00	0.44
2:M:841:ASN:ND2	2:M:842:ARG:N	2.65	0.44
3:N:245:LEU:HD11	3:N:249:TYR:HB2	1.99	0.44
3:N:558:LEU:HD13	5:P:145:PRO:C	2.38	0.44
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.99	0.44
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.99	0.44
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.74	0.44
1:A:42:ARG:NH2	2:C:857:ASP:HB3	2.32	0.44
1:A:153:ALA:HB2	1:A:168:ASP:N	2.31	0.44
2:C:694:LEU:O	2:C:699:PHE:HB2	2.18	0.44
2:C:777:ILE:HD13	5:F:408:LEU:HD21	1.99	0.44
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.31	0.44
2:C:1094:ALA:HB3	3:D:603:LEU:HD22	1.96	0.44
3:D:116:LEU:C	3:D:118:LEU:H	2.19	0.44
3:D:210:ARG:HD2	3:D:398:ALA:CB	2.30	0.44
3:D:219:GLU:O	3:D:369:ALA:O	2.36	0.44
3:D:897:TRP:HZ2	3:D:902:LEU:HD11	1.77	0.44
1:K:173:PRO:O	1:K:174:VAL:C	2.56	0.44
1:L:7:LYS:O	1:L:7:LYS:HG2	2.18	0.44
1:L:153:ALA:HB2	1:L:168:ASP:CA	2.47	0.44
1:L:157:GLY:O	1:L:159:LYS:HE3	2.18	0.44
1:L:180:GLN:HB3	1:L:196:THR:HG23	1.99	0.44
2:M:72:ARG:HG3	2:M:72:ARG:NH1	2.32	0.44
2:M:136:ILE:HA	2:M:391:LEU:O	2.17	0.44
2:M:184:MET:CE	2:M:186:VAL:HG13	2.47	0.44
2:M:285:LEU:HD21	2:M:289:THR:HA	2.00	0.44
2:M:427:VAL:O	2:M:429:ASP:N	2.50	0.44
2:M:544:THR:HG22	2:M:550:LEU:CD2	2.47	0.44
2:M:548:PRO:HA	2:M:581:THR:CG2	2.47	0.44
3:N:137:PRO:HG2	3:N:453:ASP:HB3	2.00	0.44
3:N:562:ALA:HA	3:N:563:PRO:HD3	1.91	0.44
3:N:644:LEU:HA	3:N:645:PRO:HD3	1.69	0.44
3:N:976:GLN:HA	3:N:979:GLU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1116:ASN:ND2	3:N:1116:ASN:O	2.51	0.44
3:N:1396:GLU:HG2	3:N:1399:ASP:OD2	2.18	0.44
5:P:102:LEU:HD22	5:P:183:ALA:HA	1.99	0.44
5:P:217:ASN:O	5:P:220:LEU:N	2.50	0.44
2:C:97:ARG:HH21	2:C:109:LYS:HZ2	1.66	0.44
2:C:129:ILE:N	2:C:129:ILE:CD1	2.80	0.44
2:C:211:LEU:HD11	2:C:308:ARG:HB2	2.00	0.44
2:C:222:MET:O	2:C:223:ASP:C	2.55	0.44
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.53	0.44
2:C:345:ARG:HB3	2:C:345:ARG:HH11	1.82	0.44
2:C:379:GLU:O	2:C:383:ARG:HB3	2.18	0.44
2:C:490:GLU:O	2:C:493:ARG:HB2	2.18	0.44
2:C:679:PHE:O	2:C:680:ASP:C	2.56	0.44
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.17	0.44
2:C:843:HIS:CD2	2:C:887:GLU:OE2	2.71	0.44
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.44
3:D:67:ARG:HA	3:D:67:ARG:HE	1.81	0.44
3:D:215:TYR:H	3:D:390:PRO:HD2	1.83	0.44
3:D:216:VAL:HG12	3:D:217:LYS:N	2.31	0.44
3:D:240:GLU:O	3:D:244:GLU:N	2.51	0.44
3:D:670:VAL:O	3:D:674:ARG:HG3	2.17	0.44
3:D:702:LEU:O	3:D:736:PHE:HE2	2.00	0.44
3:D:733:CYS:O	3:D:736:PHE:O	2.35	0.44
3:D:868:TYR:HB2	3:D:873:LEU:HD12	1.99	0.44
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.53	0.44
3:D:1258:ARG:O	3:D:1261:GLU:N	2.50	0.44
3:D:1258:ARG:C	3:D:1260:ILE:H	2.21	0.44
3:D:1263:PHE:HD2	3:D:1375:MET:HE2	1.82	0.44
1:L:77:GLU:CB	3:N:872:ARG:HH21	2.31	0.44
1:L:167:VAL:HG12	1:L:168:ASP:N	2.32	0.44
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.85	0.44
2:M:605:LYS:HD2	2:M:610:ARG:NH1	2.33	0.44
2:M:671:ASN:OD1	2:M:900:ARG:NH2	2.51	0.44
2:M:968:LEU:C	2:M:970:GLY:H	2.20	0.44
3:N:65:ARG:CG	3:N:66:GLN:N	2.80	0.44
3:N:212:ARG:HB3	3:N:394:LEU:CD1	2.41	0.44
3:N:569:ASN:HD22	3:N:569:ASN:HA	1.55	0.44
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.90	0.44
3:N:1147:ARG:HB2	3:N:1188:VAL:HG21	2.00	0.44
3:N:1242:HIS:C	3:N:1269:LYS:HZ2	2.17	0.44
3:N:1336:LEU:CA	3:N:1344:VAL:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:282:LEU:HD12	5:P:284:ARG:HD2	1.99	0.44
1:A:20:TYR:HH	1:A:198:ARG:NH2	2.16	0.44
1:A:41:ARG:O	1:A:45:LEU:HD12	2.17	0.44
2:C:196:LEU:HD23	2:C:197:LEU:N	2.32	0.44
2:C:405:ARG:HG2	2:C:405:ARG:O	2.17	0.44
2:C:468:ARG:CZ	2:C:487:THR:OG1	2.66	0.44
2:C:649:VAL:HG11	2:C:655:LEU:HD21	2.00	0.44
2:C:1013:TYR:OH	3:D:624:ASP:OD1	2.32	0.44
2:C:1036:GLU:CD	3:D:707:THR:HG1	2.20	0.44
3:D:97:THR:O	3:D:98:PRO:O	2.36	0.44
3:D:563:PRO:HD3	5:F:188:ILE:HG21	2.00	0.44
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.47	0.44
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	2.18	0.44
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.65	0.44
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.98	0.44
3:D:1422:MET:CE	3:D:1427:SER:HA	2.48	0.44
5:F:107:GLU:C	5:F:109:GLY:N	2.70	0.44
2:M:104:ASP:HB2	2:M:105:THR:H	1.64	0.44
2:M:135:VAL:HG12	2:M:136:ILE:N	2.32	0.44
2:M:625:LEU:O	2:M:627:ARG:N	2.50	0.44
2:M:707:ARG:CZ	2:M:824:ARG:HH12	2.31	0.44
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.98	0.44
2:M:901:TYR:CE2	2:M:917:LEU:HD12	2.48	0.44
2:M:1014:SER:HB3	2:M:1017:THR:HG23	2.00	0.44
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.52	0.44
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.68	0.44
3:N:79:GLU:HG2	3:N:80:VAL:N	2.33	0.44
3:N:387:LEU:HD23	3:N:388:HIS:N	2.33	0.44
3:N:656:PHE:HZ	3:N:751:LEU:HD23	1.83	0.44
3:N:1155:VAL:O	3:N:1182:GLU:HG2	2.18	0.44
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.83	0.44
3:N:1413:THR:O	3:N:1414:PRO:C	2.56	0.44
5:P:160:ASP:OD1	5:P:164:LYS:HE3	2.18	0.44
5:P:217:ASN:C	5:P:219:GLY:N	2.70	0.44
1:A:51:THR:HG21	1:A:89:PHE:CE2	2.53	0.44
1:A:203:GLY:O	1:A:204:SER:C	2.56	0.44
1:A:221:HIS:ND1	1:A:224:TYR:HE2	2.15	0.44
2:C:118:ILE:HD11	2:C:340:MET:CE	2.48	0.44
2:C:334:ARG:O	2:C:335:THR:O	2.36	0.44
2:C:600:ASP:OD1	2:C:651:LYS:N	2.43	0.44
2:C:630:ARG:HH21	2:C:707:ARG:H	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1102:LEU:HD12	2:C:1102:LEU:N	2.33	0.44
3:D:445:ARG:NH1	3:D:445:ARG:HG2	2.33	0.44
3:D:651:GLU:HA	3:D:654:LYS:HE3	1.99	0.44
3:D:832:ARG:HG2	3:D:832:ARG:HH11	1.83	0.44
3:D:910:SER:O	3:D:913:ASP:CB	2.63	0.44
3:D:919:PHE:C	3:D:919:PHE:HD2	2.19	0.44
3:D:1313:VAL:C	3:D:1314:LYS:HD3	2.38	0.44
3:D:1344:VAL:HG21	3:D:1421:LEU:HD13	2.00	0.44
1:K:189:ARG:CZ	1:L:155:LYS:HE2	2.47	0.44
1:L:111:ALA:O	1:L:114:PHE:HD1	2.00	0.44
1:L:114:PHE:O	1:L:115:LEU:C	2.56	0.44
2:M:123:GLU:OE2	2:M:592:LEU:HD11	2.17	0.44
2:M:190:LYS:HB2	2:M:190:LYS:NZ	2.33	0.44
2:M:193:LEU:HD12	2:M:197:LEU:HD11	1.99	0.44
2:M:276:LYS:HE3	2:M:276:LYS:HB2	1.86	0.44
2:M:313:LEU:C	2:M:315:ALA:H	2.20	0.44
2:M:432:ARG:NH2	3:N:1047:LYS:NZ	2.63	0.44
2:M:605:LYS:CD	2:M:610:ARG:HH22	2.30	0.44
2:M:1044:GLY:HA3	3:N:762:GLN:HE22	1.81	0.44
2:M:1090:LYS:HD3	2:M:1090:LYS:HA	1.75	0.44
3:N:47:GLU:HB2	3:N:78:VAL:HG22	1.99	0.44
3:N:1384:PRO:CG	3:N:1389:LEU:N	2.80	0.44
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.83	0.44
3:N:1495:ILE:HD13	4:O:88:GLU:HG3	2.00	0.44
1:A:40:LEU:O	1:A:42:ARG:N	2.51	0.43
1:A:110:LYS:N	1:A:113:ASP:OD2	2.40	0.43
1:A:180:GLN:NE2	2:C:934:PHE:CB	2.81	0.43
1:B:89:PHE:HZ	1:B:144:VAL:CG1	2.30	0.43
2:C:479:VAL:HB	2:C:506:ASN:HA	2.00	0.43
3:D:10:ILE:HD12	3:D:1434:TRP:CE2	2.52	0.43
3:D:217:LYS:HA	3:D:373:PRO:O	2.18	0.43
3:D:389:GLU:N	3:D:389:GLU:OE1	2.47	0.43
3:D:569:ASN:C	3:D:569:ASN:HD22	2.19	0.43
3:D:729:HIS:HE1	3:D:731:LEU:CG	2.29	0.43
3:D:1026:SER:O	3:D:1027:GLY:C	2.56	0.43
3:D:1200:VAL:HG12	3:D:1201:CYS:N	2.33	0.43
1:K:62:LEU:HD12	1:K:62:LEU:N	2.29	0.43
1:K:106:PRO:HG2	1:K:134:GLU:CD	2.37	0.43
1:L:56:VAL:HB	1:L:165:ILE:CG1	2.47	0.43
2:M:144:PRO:HA	2:M:163:ILE:HG23	1.98	0.43
2:M:420:ARG:HD2	2:M:420:ARG:N	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:724:ARG:HG2	2:M:724:ARG:O	2.17	0.43
3:N:409:VAL:O	3:N:411:THR:N	2.51	0.43
3:N:787:LEU:HG	3:N:787:LEU:O	2.16	0.43
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.99	0.43
3:N:960:LYS:C	3:N:962:GLN:H	2.21	0.43
3:N:1098:LEU:HD12	3:N:1098:LEU:N	2.33	0.43
3:N:1496:GLU:HG3	3:N:1500:LYS:HE3	1.99	0.43
4:O:41:GLU:H	4:O:42:PRO:CD	2.30	0.43
5:P:256:ARG:HD3	5:P:260:ILE:CG2	2.48	0.43
1:A:24:VAL:HG12	1:A:25:LEU:H	1.82	0.43
1:B:115:LEU:HA	1:B:116:PRO:HD3	1.84	0.43
2:C:243:ARG:HA	2:C:244:PRO:HD3	1.40	0.43
2:C:711:GLU:HG2	2:C:822:VAL:CG1	2.37	0.43
2:C:987:ILE:HG22	2:C:987:ILE:O	2.17	0.43
3:D:65:ARG:HG3	3:D:66:GLN:HG2	1.99	0.43
3:D:136:ASP:O	3:D:137:PRO:O	2.36	0.43
3:D:205:TYR:CD2	3:D:393:ILE:HG12	2.53	0.43
3:D:579:ASP:O	3:D:582:LEU:N	2.51	0.43
3:D:728:LEU:HG	3:D:729:HIS:H	1.82	0.43
3:D:932:ASP:OD1	3:D:935:LYS:CD	2.57	0.43
3:D:932:ASP:OD2	3:D:935:LYS:NZ	2.44	0.43
3:D:945:SER:OG	3:D:947:ILE:CG2	2.53	0.43
3:D:972:LEU:HD23	3:D:972:LEU:C	2.38	0.43
1:K:127:LEU:O	1:K:129:ILE:HD13	2.17	0.43
1:K:184:THR:O	1:K:192:LEU:HB2	2.19	0.43
1:K:218:LEU:HD23	1:L:222:LEU:HD21	2.00	0.43
1:L:78:ILE:HG23	1:L:129:ILE:HG22	2.00	0.43
2:M:21:ILE:O	2:M:21:ILE:HG22	2.18	0.43
2:M:30:LEU:HB3	2:M:44:ILE:HD13	1.99	0.43
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.80	0.43
2:M:276:LYS:CG	2:M:280:LYS:NZ	2.81	0.43
2:M:313:LEU:CD1	2:M:321:GLU:O	2.66	0.43
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.48	0.43
2:M:657:ASP:OD1	2:M:661:SER:OG	2.34	0.43
2:M:1048:THR:HG21	3:N:759:ALA:HB2	2.00	0.43
2:M:1090:LYS:HE3	3:N:88:TYR:O	2.18	0.43
3:N:116:LEU:CD2	3:N:468:LEU:HD21	2.48	0.43
3:N:127:LEU:HD12	3:N:127:LEU:C	2.38	0.43
3:N:158:TYR:O	3:N:161:LEU:HB2	2.19	0.43
3:N:187:LYS:NZ	3:N:213:VAL:CG1	2.81	0.43
3:N:616:GLN:OE1	5:P:326:ASP:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:728:LEU:HD13	3:N:745:MET:CE	2.48	0.43
3:N:840:LYS:CD	3:N:841:TYR:CZ	3.01	0.43
3:N:984:THR:CG2	3:N:987:GLU:HG3	2.36	0.43
3:N:1291:SER:HB3	3:N:1293:PHE:CE1	2.50	0.43
5:P:94:LEU:O	5:P:95:THR:C	2.57	0.43
5:P:102:LEU:C	5:P:104:ARG:N	2.68	0.43
5:P:158:GLU:O	5:P:161:GLN:HB2	2.17	0.43
1:A:183:ASP:HA	1:A:192:LEU:O	2.18	0.43
2:C:70:GLU:OE1	2:C:97:ARG:HD3	2.18	0.43
2:C:115:LEU:HA	2:C:375:SER:HG	1.80	0.43
2:C:140:ILE:HG12	2:C:333:ILE:HG13	2.00	0.43
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.43
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.98	0.43
2:C:1058:ASP:HB2	3:D:621:LYS:HE3	2.00	0.43
3:D:32:ILE:CD1	3:D:527:MET:HG2	2.27	0.43
3:D:124:GLU:HB3	3:D:128:TYR:CD1	2.53	0.43
3:D:179:VAL:HG22	3:D:389:GLU:HG3	2.00	0.43
3:D:569:ASN:ND2	3:D:569:ASN:C	2.71	0.43
3:D:696:HIS:CD2	4:E:48:MET:HG3	2.52	0.43
3:D:1042:ARG:HE	3:D:1042:ARG:HB2	1.56	0.43
3:D:1078:ARG:O	3:D:1079:LYS:C	2.54	0.43
3:D:1081:GLY:C	3:D:1083:ASP:N	2.72	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	2.00	0.43
3:D:1492:LEU:O	3:D:1492:LEU:HD13	2.19	0.43
3:D:1496:GLU:O	3:D:1499:ARG:N	2.51	0.43
4:E:24:ALA:O	4:E:27:ALA:HB3	2.17	0.43
5:F:235:PHE:O	5:F:236:SER:C	2.57	0.43
1:K:189:ARG:NH1	1:L:155:LYS:HZ3	2.11	0.43
1:L:94:LEU:O	1:L:146:ARG:HD2	2.18	0.43
1:L:103:ALA:HB1	1:L:107:LYS:HZ3	1.83	0.43
1:L:218:LEU:O	1:L:219:ARG:C	2.57	0.43
2:M:43:GLY:O	2:M:46:ALA:HB3	2.19	0.43
2:M:140:ILE:HG12	2:M:333:ILE:HG13	2.01	0.43
2:M:520:GLU:O	2:M:522:VAL:HG23	2.17	0.43
2:M:906:PHE:HZ	3:N:1070:TYR:CB	2.31	0.43
2:M:988:VAL:C	2:M:989:VAL:HG13	2.38	0.43
3:N:161:LEU:O	3:N:449:SER:HB2	2.17	0.43
3:N:826:PRO:HD2	3:N:829:VAL:HG11	1.99	0.43
3:N:868:TYR:O	3:N:870:GLY:N	2.51	0.43
3:N:1227:GLN:C	3:N:1229:ILE:H	2.15	0.43
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	2.00	0.43

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:577:PRO:HG3	2:C:993:PHE:CD1	2.54	0.43
2:C:744:ARG:O	2:C:744:ARG:HG3	2.17	0.43
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.68	0.43
3:D:175:VAL:O	3:D:179:VAL:HG21	2.18	0.43
3:D:567:ILE:HG22	3:D:571:LYS:HE3	2.00	0.43
3:D:575:GLN:O	3:D:576:GLU:C	2.56	0.43
3:D:581:LEU:HD12	3:D:603:LEU:HD11	2.01	0.43
3:D:705:ALA:CB	3:D:706:PRO:CD	2.80	0.43
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.18	0.43
3:D:1422:MET:HE3	3:D:1427:SER:HA	2.01	0.43
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.72	0.43
5:F:396:ARG:HA	5:F:399:GLN:CB	2.48	0.43
1:L:117:VAL:HG12	1:L:118:ALA:N	2.34	0.43
1:L:207:PRO:O	1:L:208:LEU:C	2.56	0.43
2:M:100:LEU:HD21	2:M:368:THR:OG1	2.19	0.43
2:M:720:GLU:HG2	2:M:760:SER:HB3	1.99	0.43
2:M:752:GLY:H	2:M:792:VAL:HB	1.84	0.43
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	2.00	0.43
3:N:65:ARG:HD3	3:N:66:GLN:H	1.83	0.43
3:N:388:HIS:HB2	5:P:94:LEU:CD2	2.41	0.43
3:N:699:VAL:O	3:N:699:VAL:HG23	2.18	0.43
3:N:711:LEU:O	3:N:713:ILE:N	2.51	0.43
3:N:1130:ARG:HG2	3:N:1130:ARG:HH11	1.83	0.43
3:N:1147:ARG:O	3:N:1166:LEU:CD2	2.66	0.43
3:N:1149:LEU:CD1	3:N:1160:LEU:HB3	2.49	0.43
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.33	0.43
3:N:1413:THR:O	3:N:1413:THR:HG22	2.18	0.43
5:P:88:ILE:O	5:P:92:PRO:HD3	2.18	0.43
1:A:227:ASN:ND2	1:A:227:ASN:O	2.52	0.43
1:B:16:GLN:N	1:B:20:TYR:O	2.49	0.43
2:C:21:ILE:H	2:C:21:ILE:CD1	2.19	0.43
2:C:134:ARG:HH12	2:C:393:GLN:N	2.15	0.43
2:C:188:LYS:HD3	2:C:189:ARG:N	2.34	0.43
2:C:273:GLY:H	2:C:288:ARG:NH1	2.16	0.43
2:C:468:ARG:NH2	2:C:487:THR:OG1	2.52	0.43
2:C:594:ALA:HB2	2:C:658:GLY:H	1.83	0.43
2:C:916:GLU:O	2:C:919:ALA:HB3	2.18	0.43
2:C:923:GLU:OE1	2:C:927:GLY:CA	2.67	0.43
3:D:23:TYR:O	3:D:24:GLY:O	2.37	0.43
3:D:108:VAL:HB	3:D:109:PRO:CD	2.28	0.43
3:D:245:LEU:HD12	3:D:366:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:898:GLU:HB3	3:D:921:ARG:NH2	2.34	0.43
3:D:1076:GLY:HA2	3:D:1079:LYS:CG	2.38	0.43
3:D:1118:ILE:HD11	3:D:1346:ARG:NE	2.34	0.43
3:D:1379:VAL:CG2	3:D:1395:LEU:HA	2.48	0.43
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.19	0.43
4:E:51:LEU:CG	4:E:52:GLU:N	2.74	0.43
1:L:40:LEU:O	1:L:44:LEU:HB2	2.18	0.43
1:L:213:GLN:O	1:L:214:ALA:C	2.57	0.43
2:M:64:LEU:C	2:M:65:VAL:HG22	2.38	0.43
2:M:78:PHE:CD1	2:M:88:LEU:HD13	2.52	0.43
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.34	0.43
2:M:110:GLU:OE2	2:M:369:PRO:HG3	2.18	0.43
2:M:143:SER:HB3	2:M:332:ARG:HB2	2.00	0.43
2:M:157:ARG:HH11	2:M:157:ARG:HG3	1.82	0.43
2:M:176:VAL:HG12	2:M:182:VAL:CG2	2.45	0.43
2:M:578:VAL:HG23	2:M:579:VAL:N	2.32	0.43
2:M:620:LEU:HD23	2:M:620:LEU:H	1.84	0.43
2:M:726:ILE:HA	2:M:727:PRO:HD3	1.83	0.43
2:M:743:VAL:HG13	2:M:743:VAL:O	2.18	0.43
2:M:798:GLY:H	2:M:827:VAL:CG1	2.32	0.43
3:N:28:LYS:HB3	3:N:41:ARG:HD2	2.01	0.43
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.99	0.43
3:N:167:GLU:CD	5:P:90:GLN:NE2	2.72	0.43
3:N:186:VAL:HG21	3:N:213:VAL:CG2	2.49	0.43
3:N:385:VAL:HB	3:N:387:LEU:CD1	2.44	0.43
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.48	0.43
3:N:626:SER:CA	3:N:652:LEU:HD11	2.48	0.43
3:N:786:ILE:HG21	3:N:1027:GLY:N	2.33	0.43
3:N:790:TYR:O	3:N:794:GLN:HB2	2.18	0.43
3:N:935:LYS:HE2	3:N:935:LYS:HB3	1.86	0.43
3:N:1050:GLY:O	3:N:1051:GLU:C	2.57	0.43
3:N:1114:THR:CG2	3:N:1195:GLN:HB2	2.48	0.43
3:N:1347:TYR:CE1	3:N:1351:GLU:OE2	2.71	0.43
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	2.00	0.43
5:P:238:TYR:O	5:P:239:ALA:C	2.56	0.43
1:A:21:GLY:O	1:A:198:ARG:HA	2.19	0.43
1:A:57:TYR:O	1:A:140:MET:HB2	2.19	0.43
1:B:67:THR:HB	1:B:74:ASP:OD1	2.19	0.43
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.19	0.43
2:C:212:GLY:C	2:C:215:GLY:H	2.20	0.43
2:C:334:ARG:HE	2:C:338:GLU:CD	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:371:LYS:C	2:C:372:LEU:HD12	2.39	0.43
2:C:433:THR:C	2:C:435:TYR:H	2.20	0.43
2:C:490:GLU:CG	2:C:493:ARG:HH11	2.32	0.43
2:C:650:ARG:O	2:C:651:LYS:C	2.56	0.43
3:D:191:LEU:HD12	3:D:211:VAL:HG11	2.01	0.43
3:D:376:GLU:HA	3:D:383:GLY:O	2.18	0.43
3:D:396:VAL:CG1	3:D:397:LYS:N	2.81	0.43
3:D:827:ILE:CG2	3:D:837:GLY:HA3	2.46	0.43
3:D:850:LEU:HD13	3:D:884:ARG:NH2	2.32	0.43
3:D:964:LEU:HD22	3:D:1058:ARG:HH11	1.83	0.43
3:D:1104:GLU:HG3	3:D:1105:ILE:HD13	2.01	0.43
1:L:24:VAL:HG12	1:L:25:LEU:N	2.34	0.43
2:M:27:ARG:O	2:M:28:ARG:C	2.56	0.43
2:M:193:LEU:O	2:M:197:LEU:HD12	2.19	0.43
2:M:564:MET:HG2	2:M:840:ALA:HB3	2.00	0.43
2:M:869:VAL:HG22	2:M:871:LEU:HD13	2.00	0.43
2:M:914:ILE:HD12	2:M:914:ILE:N	2.33	0.43
2:M:1056:LYS:NZ	3:N:749:VAL:O	2.46	0.43
3:N:122:GLU:HA	3:N:122:GLU:OE1	2.17	0.43
3:N:424:GLY:HA2	3:N:436:GLU:HA	2.00	0.43
3:N:491:LYS:O	3:N:491:LYS:HG2	2.19	0.43
3:N:563:PRO:HG3	5:P:185:GLN:OE1	2.19	0.43
3:N:593:ASN:ND2	5:P:206:GLY:O	2.49	0.43
3:N:661:MET:HG2	3:N:666:ILE:HD12	2.01	0.43
3:N:1341:PRO:HG2	3:N:1419:PRO:HG2	2.00	0.43
3:N:1496:GLU:O	3:N:1496:GLU:OE2	2.36	0.43
4:O:54:LEU:HG	4:O:58:PRO:CB	2.47	0.43
1:A:34:VAL:C	1:A:36:LEU:H	2.22	0.43
1:A:201:THR:CG2	1:A:202:ASP:N	2.81	0.43
2:C:226:VAL:HG22	2:C:230:ARG:NH2	2.34	0.43
2:C:665:PHE:N	2:C:665:PHE:CD2	2.85	0.43
2:C:750:LYS:HG3	2:C:751:PRO:HD2	2.01	0.43
2:C:789:SER:O	2:C:791:ARG:HG2	2.19	0.43
2:C:860:HIS:HE2	2:C:975:TYR:HB2	1.84	0.43
3:D:216:VAL:C	3:D:217:LYS:HD3	2.38	0.43
3:D:375:GLU:HB3	3:D:385:VAL:HG13	2.01	0.43
3:D:429:SER:HB2	3:D:432:TYR:O	2.19	0.43
3:D:486:ARG:HA	3:D:489:ARG:CD	2.45	0.43
3:D:528:VAL:HG12	3:D:529:GLN:N	2.33	0.43
5:F:93:LEU:HD11	5:F:102:LEU:CD1	2.48	0.43
2:M:409:ARG:HG2	2:M:410:ILE:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:722:ILE:O	2:M:722:ILE:HG23	2.18	0.43
2:M:759:THR:HG21	2:M:783:ARG:NH1	2.29	0.43
2:M:810:ASP:HB3	2:M:813:VAL:CG2	2.34	0.43
2:M:960:GLU:O	2:M:961:GLU:C	2.57	0.43
3:N:536:ALA:HA	5:P:315:VAL:O	2.18	0.43
3:N:1306:PRO:O	3:N:1307:LYS:C	2.57	0.43
5:P:88:ILE:O	5:P:91:VAL:N	2.52	0.43
1:A:89:PHE:CD1	1:A:120:VAL:HG22	2.53	0.43
2:C:673:LEU:HA	2:C:990:GLY:O	2.18	0.43
2:C:766:GLU:OE1	3:D:54:LYS:NZ	2.39	0.43
3:D:9:ARG:HH22	3:D:11:ALA:HB2	1.81	0.43
3:D:163:TYR:OH	3:D:394:LEU:HD21	2.19	0.43
3:D:218:LYS:NZ	3:D:219:GLU:H	2.17	0.43
3:D:549:ASN:CG	5:F:254:GLN:HE21	2.22	0.43
3:D:584:ASN:H	3:D:602:SER:CB	2.32	0.43
3:D:790:TYR:O	3:D:793:THR:N	2.51	0.43
3:D:958:GLU:C	3:D:960:LYS:H	2.21	0.43
3:D:984:THR:HG22	3:D:987:GLU:HG3	2.01	0.43
3:D:1101:VAL:HG12	3:D:1101:VAL:O	2.18	0.43
3:D:1225:ALA:C	3:D:1228:SER:OG	2.56	0.43
3:D:1357:ARG:C	3:D:1359:GLN:H	2.22	0.43
4:E:41:GLU:H	4:E:42:PRO:HD2	1.84	0.43
5:F:213:ILE:O	5:F:216:GLY:N	2.50	0.43
1:K:105:GLY:O	1:K:107:LYS:N	2.52	0.43
2:M:6:PHE:CE1	2:M:909:ALA:HB2	2.54	0.43
2:M:64:LEU:HB2	2:M:359:MET:SD	2.59	0.43
2:M:881:ASN:HD22	2:M:881:ASN:C	2.20	0.43
2:M:910:LYS:CA	2:M:913:GLU:HG3	2.48	0.43
2:M:1059:ASP:CG	2:M:1062:GLY:H	2.20	0.43
3:N:172:PRO:CG	3:N:178:LEU:HD22	2.48	0.43
3:N:978:TYR:CE1	3:N:985:ASP:HA	2.52	0.43
3:N:1282:ARG:HB3	3:N:1282:ARG:NH1	2.34	0.43
4:O:30:LEU:O	4:O:35:PHE:HA	2.18	0.43
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.60	0.43
5:P:215:GLU:O	5:P:218:GLN:HB3	2.18	0.43
1:A:184:THR:O	1:A:192:LEU:HD12	2.19	0.43
1:A:196:THR:HG23	1:A:196:THR:O	2.18	0.43
1:A:221:HIS:C	1:A:223:THR:N	2.72	0.43
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.49	0.43
1:B:66:SER:O	1:B:75:VAL:HG23	2.18	0.43
1:B:182:GLU:OE1	1:B:194:LYS:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ARG:C	1:B:221:HIS:N	2.72	0.43
2:C:183:SER:CB	2:C:190:LYS:HD3	2.41	0.43
2:C:238:LEU:O	2:C:241:LEU:N	2.52	0.43
2:C:436:GLY:O	2:C:459:ALA:HB2	2.18	0.43
2:C:516:ARG:HH11	2:C:521:PRO:CA	2.31	0.43
2:C:544:THR:C	2:C:546:LEU:H	2.22	0.43
2:C:734:LEU:O	2:C:735:ARG:C	2.58	0.43
2:C:766:GLU:CD	2:C:766:GLU:N	2.73	0.43
2:C:1014:SER:OG	2:C:1015:LEU:N	2.52	0.43
2:C:1057:SER:OG	3:D:621:LYS:CE	2.67	0.43
3:D:100:ALA:CB	3:D:128:TYR:HE2	2.32	0.43
3:D:118:LEU:O	3:D:119:SER:C	2.57	0.43
3:D:423:ASP:CG	5:F:175:HIS:ND1	2.73	0.43
3:D:859:ASP:HB2	3:D:862:ASP:OD1	2.19	0.43
3:D:1062:ARG:HH11	3:D:1062:ARG:HG3	1.83	0.43
3:D:1103:HIS:C	3:D:1105:ILE:H	2.21	0.43
5:F:123:ASP:O	5:F:126:LEU:N	2.52	0.43
2:M:139:GLN:HB2	2:M:391:LEU:HD21	2.01	0.43
2:M:670:GLN:HB3	2:M:699:PHE:CE2	2.53	0.43
2:M:988:VAL:O	2:M:989:VAL:HG12	2.19	0.43
2:M:999:HIS:CD2	2:M:1003:ASP:CG	2.93	0.43
2:M:1022:GLY:H	2:M:1028:GLY:HA3	1.84	0.43
2:M:1055:LEU:HD21	2:M:1079:PRO:CB	2.49	0.43
3:N:128:TYR:O	3:N:568:ARG:NH2	2.51	0.43
3:N:212:ARG:CB	3:N:394:LEU:HD22	2.48	0.43
3:N:601:ARG:NH2	3:N:611:GLN:HB2	2.34	0.43
3:N:1111:ASP:HB3	3:N:1203:LYS:NZ	2.33	0.43
3:N:1379:VAL:N	3:N:1420:LEU:HD23	2.33	0.43
3:N:1489:GLN:HA	3:N:1492:LEU:HB2	2.00	0.43
5:P:369:LEU:HD11	5:P:401:GLU:OE1	2.19	0.43
1:A:30:ARG:HH12	1:B:155:LYS:NZ	2.16	0.42
1:A:58:ILE:HG21	1:A:61:VAL:HG21	2.01	0.42
1:B:133:GLU:CG	1:B:134:GLU:H	2.25	0.42
2:C:776:SER:HA	2:C:780:GLU:N	2.34	0.42
2:C:914:ILE:C	2:C:916:GLU:H	2.23	0.42
2:C:957:LYS:HE3	2:C:957:LYS:HB2	1.85	0.42
2:C:1085:PHE:O	2:C:1088:LEU:HB3	2.18	0.42
3:D:78:VAL:O	3:D:79:GLU:O	2.36	0.42
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.84	0.42
3:D:434:ARG:HB3	3:D:447:VAL:HG13	1.99	0.42
3:D:654:LYS:O	3:D:657:LEU:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.54	0.42
3:D:1188:VAL:CG2	3:D:1189:ARG:N	2.82	0.42
4:E:54:LEU:HG	4:E:58:PRO:CD	2.48	0.42
1:K:49:PRO:CA	1:K:148:VAL:HG12	2.48	0.42
1:L:43:ILE:HG23	1:L:47:SER:HB2	2.00	0.42
2:M:487:THR:HG22	2:M:488:ALA:H	1.84	0.42
2:M:650:ARG:HG2	2:M:653:ASP:HB2	2.01	0.42
2:M:721:ARG:HB3	2:M:759:THR:OG1	2.19	0.42
2:M:971:LYS:HD2	2:M:986:PRO:CB	2.47	0.42
2:M:1076:VAL:HA	2:M:1077:PRO:HD3	1.86	0.42
2:M:1115:LEU:HB3	3:N:85:VAL:CG1	2.41	0.42
3:N:15:PRO:HB2	3:N:19:ARG:HH12	1.82	0.42
3:N:82:LYS:C	3:N:84:ILE:N	2.71	0.42
3:N:119:SER:CB	3:N:123:LEU:HB2	2.47	0.42
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.81	0.42
3:N:210:ARG:HG3	3:N:398:ALA:H	1.83	0.42
3:N:387:LEU:HD13	3:N:387:LEU:N	2.34	0.42
3:N:521:PRO:C	3:N:525:ARG:NH1	2.71	0.42
3:N:691:LEU:HD23	3:N:720:LEU:CD1	2.49	0.42
3:N:984:THR:O	3:N:986:ARG:N	2.52	0.42
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.73	0.42
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	2.01	0.42
3:N:1286:THR:HG22	3:N:1287:GLU:H	1.83	0.42
4:O:22:VAL:CG1	4:O:68:LEU:HD21	2.46	0.42
5:P:274:THR:HG21	5:P:295:MET:HE3	2.01	0.42
1:B:38:ASN:O	1:B:41:ARG:HB3	2.19	0.42
1:B:82:LEU:HD13	1:B:142:VAL:HG11	2.01	0.42
2:C:48:PHE:C	2:C:50:GLU:N	2.72	0.42
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.19	0.42
2:C:289:THR:CG2	2:C:290:LEU:HD23	2.36	0.42
2:C:471:TYR:CE2	2:C:496:ILE:HD13	2.54	0.42
2:C:483:VAL:HG12	2:C:484:VAL:H	1.85	0.42
2:C:551:GLU:HA	2:C:906:PHE:HE2	1.84	0.42
2:C:580:MET:HB3	2:C:584:GLU:CD	2.40	0.42
2:C:846:LYS:O	3:D:741:ASP:HB2	2.18	0.42
2:C:863:ASP:OD1	2:C:865:THR:HG23	2.19	0.42
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.49	0.42
3:D:135:LEU:O	3:D:136:ASP:O	2.37	0.42
3:D:231:VAL:HA	3:D:378:ILE:HD11	1.99	0.42
3:D:245:LEU:H	3:D:245:LEU:CD1	2.31	0.42
3:D:385:VAL:HG13	3:D:385:VAL:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:437:VAL:HG12	3:D:438:ASP:N	2.34	0.42
3:D:623:VAL:HG12	3:D:624:ASP:N	2.34	0.42
3:D:701:LEU:HD23	3:D:713:ILE:CG2	2.50	0.42
3:D:707:THR:HG21	3:D:713:ILE:HG13	2.00	0.42
3:D:804:LEU:HD12	3:D:831:GLY:CA	2.48	0.42
3:D:895:VAL:O	3:D:899:LEU:HD12	2.18	0.42
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	2.01	0.42
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.20	0.42
3:D:1331:ASP:CB	3:D:1334:GLN:HG3	2.49	0.42
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.48	0.42
5:F:185:GLN:O	5:F:189:GLU:HG3	2.19	0.42
5:F:269:ASN:O	5:F:273:ARG:N	2.47	0.42
1:K:18:ARG:HH22	1:K:88:ARG:HH21	1.63	0.42
1:K:127:LEU:O	1:K:127:LEU:HG	2.18	0.42
1:K:151:VAL:HG11	1:K:156:HIS:HB3	2.01	0.42
1:K:227:ASN:O	1:K:227:ASN:OD1	2.36	0.42
1:L:19:GLU:O	1:L:207:PRO:HG3	2.18	0.42
1:L:175:ARG:O	3:N:851:LEU:HD11	2.19	0.42
2:M:12:VAL:HG21	2:M:481:ASP:HA	2.01	0.42
2:M:83:CYS:SG	2:M:89:THR:C	2.97	0.42
2:M:105:THR:HG22	2:M:106:GLY:H	1.84	0.42
2:M:143:SER:O	2:M:276:LYS:NZ	2.46	0.42
2:M:598:GLU:O	2:M:651:LYS:HE3	2.18	0.42
2:M:650:ARG:HG2	2:M:653:ASP:CB	2.49	0.42
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.49	0.42
2:M:1019:GLN:HE22	3:N:621:LYS:CD	2.32	0.42
2:M:1048:THR:N	3:N:758:GLU:OE2	2.50	0.42
3:N:2:LYS:C	3:N:3:LYS:HD3	2.39	0.42
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.35	0.42
3:N:881:LEU:HD21	3:N:941:PHE:HZ	1.76	0.42
3:N:958:GLU:OE2	3:N:961:LYS:CE	2.66	0.42
3:N:996:TRP:O	3:N:1000:THR:OG1	2.28	0.42
3:N:1083:ASP:O	3:N:1087:ARG:HG2	2.19	0.42
3:N:1098:LEU:HD21	3:N:1263:PHE:CE1	2.54	0.42
4:O:45:ARG:NH1	4:O:72:ARG:NH2	2.55	0.42
5:P:184:ARG:HG2	5:P:184:ARG:HH11	1.83	0.42
5:P:362:SER:O	5:P:366:ALA:CB	2.65	0.42
5:P:408:LEU:HD23	5:P:409:LYS:N	2.34	0.42
1:A:218:LEU:O	1:A:222:LEU:CD2	2.64	0.42
1:B:31:GLY:HA3	2:C:856:GLU:OE1	2.18	0.42
1:B:41:ARG:HG3	1:B:41:ARG:HH11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:26:TYR:HA	2:C:29:ALA:HB2	2.00	0.42
2:C:856:GLU:HG3	2:C:857:ASP:N	2.34	0.42
2:C:936:VAL:HG23	2:C:936:VAL:O	2.19	0.42
2:C:983:ILE:O	2:C:984:GLU:C	2.58	0.42
2:C:1057:SER:CB	3:D:621:LYS:HB3	2.49	0.42
2:C:1097:LEU:HD23	3:D:101:HIS:CE1	2.51	0.42
3:D:46:ASP:OD1	3:D:47:GLU:N	2.50	0.42
3:D:225:LEU:HD12	3:D:440:VAL:CG2	2.46	0.42
3:D:398:ALA:HB1	3:D:443:VAL:HG13	2.01	0.42
3:D:462:GLN:HG3	3:D:513:ILE:CD1	2.49	0.42
3:D:565:ILE:HG13	5:F:87:GLU:OE2	2.19	0.42
3:D:834:THR:HG22	3:D:838:ARG:NE	2.35	0.42
3:D:994:GLN:NE2	3:D:998:GLU:CD	2.70	0.42
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.40	0.42
4:E:40:LEU:HD12	4:E:40:LEU:O	2.19	0.42
5:F:191:ASN:N	5:F:191:ASN:ND2	2.66	0.42
5:F:209:PHE:CD2	5:F:213:ILE:HD11	2.54	0.42
1:K:30:ARG:HB2	1:K:191:ASP:OD2	2.19	0.42
1:K:53:VAL:HG21	1:K:82:LEU:O	2.20	0.42
1:L:59:GLU:OE1	1:L:138:LEU:CA	2.67	0.42
1:L:83:LYS:HE3	1:L:168:ASP:HB2	2.01	0.42
1:L:101:LEU:HD11	1:L:113:ASP:HB2	2.01	0.42
2:M:15:LEU:HD12	2:M:15:LEU:H	1.84	0.42
2:M:350:ARG:HD2	2:M:350:ARG:H	1.84	0.42
2:M:400:PRO:HD2	2:M:660:ALA:HB3	2.00	0.42
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.34	0.42
2:M:698:ASP:OD1	2:M:832:LYS:HE3	2.20	0.42
2:M:799:ILE:HG12	2:M:828:ALA:O	2.20	0.42
2:M:881:ASN:ND2	2:M:881:ASN:O	2.52	0.42
2:M:923:GLU:HA	2:M:923:GLU:OE2	2.19	0.42
2:M:1022:GLY:HA3	2:M:1028:GLY:N	2.33	0.42
3:N:481:MET:CE	3:N:1388:ARG:NE	2.82	0.42
3:N:534:ARG:HG2	5:P:315:VAL:HG23	2.00	0.42
3:N:626:SER:C	3:N:652:LEU:HD11	2.39	0.42
4:O:25:LYS:HA	4:O:28:GLN:HB2	2.00	0.42
5:P:100:VAL:O	5:P:101:GLU:C	2.58	0.42
5:P:163:LEU:HD13	5:P:174:LEU:HG	2.01	0.42
1:A:77:GLU:OE2	2:C:640:ARG:CZ	2.67	0.42
1:B:176:ARG:NH2	3:D:884:ARG:CZ	2.83	0.42
2:C:11:GLU:CG	2:C:537:LYS:HZ2	2.33	0.42
2:C:503:LEU:HD22	2:C:503:LEU:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ARG:HH12	2:C:521:PRO:HB3	1.74	0.42
2:C:543:ASN:ND2	2:C:562:SER:O	2.52	0.42
2:C:583:LEU:C	2:C:585:GLU:N	2.73	0.42
2:C:749:VAL:N	2:C:798:GLY:O	2.52	0.42
2:C:1057:SER:OG	3:D:621:LYS:HB3	2.19	0.42
3:D:481:MET:O	3:D:489:ARG:HB2	2.19	0.42
3:D:537:THR:O	3:D:537:THR:CG2	2.68	0.42
3:D:679:ARG:NH2	3:D:681:ARG:CG	2.79	0.42
3:D:694:VAL:O	3:D:694:VAL:CG1	2.66	0.42
3:D:694:VAL:O	3:D:698:LYS:HD2	2.19	0.42
3:D:710:ARG:O	3:D:712:GLY:N	2.51	0.42
3:D:1011:PHE:CD2	3:D:1021:TYR:HB2	2.54	0.42
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	2.02	0.42
3:D:1071:PHE:O	3:D:1071:PHE:CD1	2.71	0.42
5:F:110:MET:O	5:F:111:GLU:C	2.57	0.42
5:F:198:ILE:O	5:F:200:LYS:N	2.52	0.42
1:L:79:ILE:HG13	1:L:80:LEU:N	2.35	0.42
2:M:29:ALA:O	2:M:43:GLY:HA3	2.19	0.42
2:M:44:ILE:H	2:M:44:ILE:HD12	1.84	0.42
2:M:438:ILE:HA	2:M:455:LEU:HA	2.01	0.42
2:M:458:TYR:HE1	2:M:537:LYS:HE2	1.85	0.42
2:M:586:ARG:HA	2:M:589:ARG:HB3	2.02	0.42
2:M:663:ASN:C	2:M:665:PHE:N	2.73	0.42
2:M:695:LEU:CD2	2:M:833:LEU:HB3	2.48	0.42
2:M:799:ILE:N	2:M:828:ALA:O	2.52	0.42
2:M:944:LEU:HG	2:M:963:LEU:HD21	2.00	0.42
2:M:958:THR:O	2:M:962:GLN:HB2	2.19	0.42
2:M:984:GLU:HG3	3:N:945:SER:HA	2.00	0.42
3:N:23:TYR:H	3:N:91:GLY:HA2	1.83	0.42
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.27	0.42
3:N:575:GLN:O	3:N:576:GLU:C	2.58	0.42
3:N:947:ILE:O	3:N:947:ILE:CG1	2.67	0.42
3:N:1209:LEU:HD13	3:N:1216:SER:H	1.84	0.42
3:N:1336:LEU:HD12	3:N:1341:PRO:HA	1.99	0.42
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.43	0.42
1:A:14:ARG:HE	1:A:22:GLU:HB2	1.85	0.42
1:A:73:GLU:HB2	1:A:78:ILE:CG1	2.50	0.42
1:A:214:ALA:C	1:A:216:GLU:H	2.22	0.42
1:B:62:LEU:H	1:B:62:LEU:HD12	1.84	0.42
1:B:99:LEU:HD21	1:B:122:ILE:HD11	2.02	0.42
2:C:57:GLU:HG2	2:C:58:ASP:OD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:175:GLU:O	2:C:183:SER:OG	2.32	0.42
2:C:536:PRO:HB3	2:C:906:PHE:CD1	2.48	0.42
2:C:752:GLY:O	3:D:679:ARG:HG2	2.18	0.42
3:D:228:ALA:HB1	3:D:231:VAL:HG22	2.02	0.42
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.49	0.42
3:D:789:LEU:HD11	3:D:934:LEU:HD22	2.01	0.42
3:D:792:ILE:CD1	3:D:881:LEU:HD23	2.50	0.42
3:D:1155:VAL:HG13	3:D:1183:ILE:CD1	2.45	0.42
3:D:1207:TYR:CE1	3:D:1212:ALA:O	2.73	0.42
5:F:205:ARG:HE	5:F:251:ILE:CD1	2.31	0.42
5:F:322:GLY:O	5:F:324:GLU:N	2.53	0.42
1:K:38:ASN:OD1	2:M:980:GLY:N	2.53	0.42
1:K:54:THR:C	1:K:167:VAL:HG22	2.40	0.42
1:K:219:ARG:CZ	1:K:220:GLU:HA	2.49	0.42
1:K:219:ARG:O	1:K:221:HIS:N	2.52	0.42
1:L:153:ALA:HB2	1:L:168:ASP:HA	2.00	0.42
2:M:267:TYR:HE1	2:M:338:GLU:OE1	2.02	0.42
2:M:473:ARG:NE	2:M:531:PHE:CZ	2.81	0.42
2:M:523:ILE:HG23	2:M:523:ILE:O	2.19	0.42
2:M:697:ARG:C	2:M:699:PHE:N	2.65	0.42
2:M:824:ARG:NH1	2:M:824:ARG:HG2	2.35	0.42
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.84	0.42
3:N:9:ARG:CB	3:N:1456:LYS:HA	2.42	0.42
3:N:166:GLN:HB2	3:N:207:PHE:CD2	2.54	0.42
3:N:477:LEU:HD11	3:N:495:ARG:HG2	2.01	0.42
3:N:603:LEU:O	3:N:606:ILE:CB	2.60	0.42
3:N:634:GLY:O	3:N:637:LEU:HD22	2.19	0.42
3:N:925:GLU:OE1	4:O:7:ASP:OD2	2.36	0.42
3:N:1434:TRP:O	3:N:1438:ALA:HB2	2.19	0.42
4:O:39:VAL:HB	4:O:72:ARG:HD2	2.02	0.42
5:P:88:ILE:O	5:P:92:PRO:CG	2.67	0.42
5:P:142:ARG:O	5:P:146:GLY:O	2.37	0.42
5:P:286:PRO:HB3	5:P:290:GLU:CB	2.50	0.42
1:A:3:ASP:O	1:A:5:LYS:N	2.50	0.42
1:A:23:PHE:CD2	1:A:23:PHE:N	2.87	0.42
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.84	0.42
2:C:630:ARG:HG3	2:C:631:SER:O	2.19	0.42
2:C:854:PRO:HB2	2:C:856:GLU:CD	2.40	0.42
3:D:25:GLU:OE1	3:D:27:GLU:CB	2.64	0.42
3:D:139:GLY:O	3:D:140:ALA:C	2.58	0.42
3:D:173:PRO:HG2	3:D:200:ASP:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:202:VAL:O	3:D:203:ALA:C	2.57	0.42
3:D:601:ARG:HH22	3:D:611:GLN:N	2.18	0.42
3:D:956:ILE:HA	3:D:957:PRO:HD3	1.92	0.42
3:D:1331:ASP:O	3:D:1332:PRO:C	2.58	0.42
5:F:364:ARG:O	5:F:367:MET:N	2.52	0.42
5:F:416:ARG:HD2	5:F:419:ARG:HB2	2.02	0.42
1:K:44:LEU:HA	1:K:48:ILE:HD11	2.02	0.42
1:K:196:THR:O	1:K:196:THR:OG1	2.37	0.42
1:K:206:THR:HG23	1:K:207:PRO:HD2	2.02	0.42
1:L:176:ARG:HD2	1:L:200:TRP:CE3	2.55	0.42
2:M:80:GLN:O	2:M:82:GLU:N	2.53	0.42
2:M:383:ARG:C	2:M:385:PHE:H	2.22	0.42
2:M:586:ARG:HB3	2:M:586:ARG:HH11	1.83	0.42
2:M:807:ARG:HB2	2:M:808:ARG:H	1.67	0.42
2:M:840:ALA:HB2	2:M:846:LYS:HG3	2.00	0.42
3:N:55:ASP:OD2	3:N:82:LYS:HE2	2.17	0.42
3:N:87:ARG:HB3	3:N:523:ASP:OD2	2.19	0.42
3:N:658:LEU:CD1	3:N:674:ARG:HH11	2.29	0.42
3:N:805:GLU:HA	3:N:831:GLY:HA2	2.02	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.54	0.42
3:N:970:LYS:HD2	3:N:995:LEU:CD1	2.50	0.42
3:N:1215:VAL:HG22	3:N:1216:SER:H	1.85	0.42
3:N:1393:GLN:O	3:N:1394:VAL:O	2.38	0.42
4:O:79:LEU:HB3	4:O:80:VAL:H	1.69	0.42
1:A:99:LEU:N	1:A:99:LEU:CD1	2.83	0.42
1:A:221:HIS:ND1	1:A:224:TYR:CE2	2.88	0.42
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.54	0.42
1:B:26:GLU:HG2	1:B:27:PRO:N	2.34	0.42
1:B:137:ARG:HG2	1:B:137:ARG:HH11	1.85	0.42
1:B:206:THR:HG22	1:B:208:LEU:H	1.85	0.42
2:C:126:SER:HB2	2:C:395:LYS:HD2	2.01	0.42
2:C:735:ARG:HG2	2:C:735:ARG:HH11	1.83	0.42
2:C:807:ARG:NE	2:C:808:ARG:O	2.52	0.42
2:C:842:ARG:H	2:C:842:ARG:HG3	1.51	0.42
2:C:917:LEU:O	2:C:920:GLN:HB3	2.20	0.42
2:C:1014:SER:HB2	5:F:331:ASP:OD1	2.20	0.42
3:D:17:LYS:O	3:D:20:SER:N	2.53	0.42
3:D:19:ARG:NH2	3:D:94:GLU:OE2	2.48	0.42
3:D:421:LEU:HD23	3:D:421:LEU:N	2.34	0.42
3:D:462:GLN:HA	3:D:513:ILE:HD13	2.00	0.42
3:D:568:ARG:CA	3:D:571:LYS:HZ2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:572:ARG:O	3:D:575:GLN:N	2.53	0.42
3:D:704:ARG:O	3:D:705:ALA:O	2.38	0.42
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.55	0.42
3:D:1126:ASP:CG	3:D:1129:THR:HA	2.39	0.42
3:D:1232:PRO:C	3:D:1234:THR:H	2.23	0.42
3:D:1300:SER:O	3:D:1301:LYS:HB2	2.19	0.42
3:D:1409:ALA:O	3:D:1410:GLU:O	2.38	0.42
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.35	0.42
4:E:24:ALA:O	4:E:27:ALA:N	2.52	0.42
1:K:33:GLY:CA	1:K:195:LEU:HB2	2.42	0.42
1:K:63:HIS:CD2	1:K:65:PHE:N	2.87	0.42
2:M:405:ARG:HH22	2:M:409:ARG:HH21	1.61	0.42
2:M:680:ASP:C	2:M:682:TYR:N	2.71	0.42
2:M:720:GLU:OE2	2:M:758:ARG:NH1	2.53	0.42
2:M:816:LYS:O	2:M:819:VAL:HG23	2.19	0.42
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.37	0.42
3:N:486:ARG:CA	3:N:489:ARG:HD2	2.49	0.42
3:N:899:LEU:HD13	3:N:899:LEU:H	1.84	0.42
3:N:948:THR:O	3:N:1019:PRO:CB	2.68	0.42
3:N:1197:ARG:NH1	3:N:1377:LYS:HE3	2.34	0.42
3:N:1219:GLU:CG	3:N:1221:VAL:HG22	2.37	0.42
3:N:1450:ALA:CA	3:N:1455:LYS:HG3	2.44	0.42
5:P:94:LEU:HB2	5:P:98:GLU:HG3	2.02	0.42
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.84	0.42
5:P:271:LEU:HD21	5:P:299:TRP:CH2	2.55	0.42
1:A:74:ASP:OD1	1:A:74:ASP:N	2.52	0.42
1:A:228:PRO:HB3	1:B:13:VAL:HB	2.01	0.42
2:C:52:PHE:CB	2:C:53:PRO:HD3	2.50	0.42
2:C:148:PHE:CB	2:C:313:LEU:HD22	2.48	0.42
2:C:365:ASP:O	2:C:367:LEU:HD23	2.20	0.42
2:C:493:ARG:C	2:C:494:TYR:CG	2.93	0.42
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.86	0.42
2:C:583:LEU:O	2:C:585:GLU:N	2.53	0.42
2:C:1057:SER:HB3	3:D:621:LYS:HE2	2.01	0.42
3:D:64:LYS:HE2	3:D:64:LYS:HB3	1.82	0.42
3:D:81:THR:O	3:D:82:LYS:C	2.57	0.42
3:D:846:PRO:O	3:D:849:ALA:HB3	2.19	0.42
3:D:858:VAL:CG1	3:D:877:PRO:HG2	2.50	0.42
3:D:907:GLU:HG3	3:D:1026:SER:CA	2.50	0.42
3:D:1011:PHE:CE1	3:D:1018:ASN:ND2	2.87	0.42
3:D:1491:THR:HG21	4:E:89:MET:HE1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:26:GLU:CB	1:K:27:PRO:CD	2.92	0.42
1:K:46:SER:OG	2:M:856:GLU:CD	2.58	0.42
1:L:54:THR:OG1	1:L:156:HIS:CE1	2.73	0.42
2:M:588:VAL:HG21	2:M:664:GLY:O	2.20	0.42
2:M:901:TYR:N	2:M:901:TYR:CD1	2.87	0.42
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	2.01	0.42
3:N:245:LEU:HB3	3:N:366:LYS:NZ	2.35	0.42
3:N:373:PRO:O	3:N:374:GLU:HG3	2.20	0.42
3:N:397:LYS:HE2	3:N:399:ARG:NE	2.24	0.42
3:N:535:PHE:N	3:N:535:PHE:CD1	2.88	0.42
3:N:569:ASN:HD21	3:N:572:ARG:NH1	2.18	0.42
3:N:575:GLN:O	3:N:577:ALA:N	2.53	0.42
3:N:1099:VAL:HG13	3:N:1223:ILE:HD12	2.01	0.42
3:N:1258:ARG:C	3:N:1260:ILE:N	2.73	0.42
3:N:1259:VAL:O	3:N:1259:VAL:HG12	2.20	0.42
3:N:1346:ARG:HG3	3:N:1346:ARG:NH1	2.35	0.42
3:N:1412:LYS:HG3	3:N:1412:LYS:O	2.19	0.42
1:B:36:LEU:C	1:B:39:PRO:HD2	2.40	0.42
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.35	0.42
1:B:87:VAL:HG12	1:B:122:ILE:HA	2.02	0.42
2:C:71:TYR:N	2:C:71:TYR:HD2	2.17	0.42
2:C:157:ARG:HB3	2:C:158:TYR:H	1.72	0.42
2:C:561:GLY:C	2:C:563:ASN:H	2.22	0.42
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.54	0.42
3:D:130:SER:OG	3:D:132:TYR:HE1	2.00	0.42
3:D:552:ASN:O	3:D:553:ARG:C	2.56	0.42
3:D:1302:GLU:OE2	3:D:1304:LYS:HD3	2.20	0.42
3:D:1435:LEU:HG	3:D:1467:ILE:HD12	2.02	0.42
4:E:41:GLU:HB3	4:E:42:PRO:CD	2.50	0.42
5:F:336:GLU:O	5:F:338:LEU:N	2.53	0.42
5:F:386:VAL:CG1	5:F:387:GLY:H	2.26	0.42
1:K:44:LEU:O	1:K:48:ILE:HD12	2.20	0.42
1:L:25:LEU:HD23	1:L:25:LEU:O	2.20	0.42
2:M:143:SER:O	2:M:147:TYR:OH	2.31	0.42
2:M:464:LEU:HD12	2:M:464:LEU:HA	1.87	0.42
2:M:486:MET:HE2	2:M:491:GLU:HB3	2.02	0.42
2:M:712:ALA:HB3	2:M:821:GLU:H	1.85	0.42
2:M:1036:GLU:O	2:M:1039:ALA:N	2.52	0.42
3:N:224:ARG:NH1	3:N:229:ALA:N	2.68	0.42
3:N:560:GLN:OE1	5:P:221:ILE:HG22	2.20	0.42
3:N:661:MET:HB3	3:N:667:ALA:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:741:ASP:C	3:N:741:ASP:OD1	2.58	0.42
3:N:785:ILE:HG13	3:N:939:PHE:CD2	2.54	0.42
3:N:791:TYR:CD2	3:N:945:SER:OG	2.62	0.42
3:N:804:LEU:C	3:N:804:LEU:HD12	2.40	0.42
3:N:1078:ARG:HH11	3:N:1078:ARG:CG	2.24	0.42
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.50	0.42
3:N:1258:ARG:O	3:N:1258:ARG:HG2	2.19	0.42
3:N:1302:GLU:HG2	3:N:1303:TYR:N	2.35	0.42
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	2.01	0.42
4:O:45:ARG:HB3	4:O:46:PRO:HD2	2.02	0.42
4:O:88:GLU:O	4:O:92:ILE:HG12	2.20	0.42
5:P:190:ALA:C	5:P:191:ASN:ND2	2.73	0.42
5:P:389:PHE:HD2	5:P:397:ILE:CD1	2.29	0.42
5:P:393:THR:HG22	5:P:394:ARG:N	2.35	0.42
1:A:64:GLU:O	1:A:64:GLU:HG2	2.20	0.42
1:A:88:ARG:HG2	1:A:88:ARG:HH11	1.84	0.42
1:B:18:ARG:O	1:B:207:PRO:HD3	2.20	0.42
1:B:100:LEU:O	1:B:114:PHE:HA	2.20	0.42
1:B:165:ILE:HG13	1:B:165:ILE:O	2.20	0.42
2:C:73:LEU:H	2:C:73:LEU:CD1	2.31	0.42
2:C:237:ARG:O	2:C:241:LEU:HG	2.20	0.42
2:C:260:LEU:HG	2:C:261:ILE:N	2.35	0.42
2:C:327:HIS:HA	2:C:431:HIS:HD2	1.83	0.42
2:C:365:ASP:HA	2:C:367:LEU:HD22	2.00	0.42
2:C:497:ALA:HB2	2:C:515:ALA:HB2	2.02	0.42
2:C:768:THR:O	2:C:772:ARG:HB2	2.18	0.42
2:C:872:ASN:HA	2:C:873:PRO:HD3	1.80	0.42
2:C:897:LEU:HD13	2:C:921:ALA:CB	2.32	0.42
2:C:1048:THR:O	2:C:1052:MET:HB2	2.20	0.42
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.35	0.42
3:D:9:ARG:CZ	3:D:11:ALA:HB2	2.50	0.42
3:D:84:ILE:HG13	3:D:85:VAL:N	2.35	0.42
3:D:521:PRO:C	3:D:525:ARG:NH1	2.74	0.42
3:D:618:LEU:HD23	3:D:618:LEU:HA	1.75	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.88	0.42
3:D:778:LEU:HD12	3:D:778:LEU:HA	1.78	0.42
3:D:786:ILE:HD13	3:D:908:LYS:CB	2.50	0.42
3:D:826:PRO:HB2	3:D:829:VAL:CG2	2.46	0.42
4:E:54:LEU:HA	4:E:58:PRO:CD	2.49	0.42
2:M:396:ASP:OD1	2:M:398:THR:OG1	2.37	0.42
2:M:432:ARG:NH2	3:N:1047:LYS:CG	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:503:LEU:HD22	2:M:508:ILE:HA	2.02	0.42
2:M:774:LEU:C	2:M:774:LEU:HD13	2.40	0.42
2:M:846:LYS:HE2	2:M:997:LEU:HD12	2.02	0.42
2:M:910:LYS:O	2:M:913:GLU:HB2	2.19	0.42
2:M:958:THR:HG23	2:M:961:GLU:H	1.84	0.42
2:M:1039:ALA:O	2:M:1043:TYR:CE1	2.73	0.42
3:N:455:ARG:CD	3:N:463:GLN:HE21	2.33	0.42
3:N:572:ARG:O	3:N:575:GLN:HB3	2.20	0.42
3:N:1042:ARG:HH12	3:N:1045:MET:HE2	1.82	0.42
3:N:1286:THR:CG2	3:N:1287:GLU:N	2.83	0.42
3:N:1336:LEU:CD1	3:N:1341:PRO:CA	2.98	0.42
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.66	0.42
1:A:88:ARG:NH1	1:A:90:LEU:HD21	2.33	0.41
1:A:220:GLU:HG2	1:A:220:GLU:O	2.20	0.41
2:C:135:VAL:HG12	2:C:136:ILE:N	2.34	0.41
2:C:144:PRO:HB2	2:C:276:LYS:NZ	2.35	0.41
2:C:302:VAL:C	2:C:305:PRO:HD2	2.40	0.41
2:C:473:ARG:NH2	2:C:484:VAL:HG21	2.35	0.41
2:C:497:ALA:N	2:C:531:PHE:O	2.46	0.41
2:C:728:HIS:O	2:C:729:LEU:HD22	2.19	0.41
2:C:837:ASP:OD2	2:C:838:LYS:N	2.52	0.41
2:C:984:GLU:HG2	3:D:944:THR:O	2.20	0.41
2:C:1034:GLU:OE1	3:D:1096:ARG:HD2	2.19	0.41
2:C:1067:TYR:OH	2:C:1071:ILE:HD11	2.18	0.41
2:C:1081:VAL:CG1	2:C:1086:ARG:HE	2.32	0.41
3:D:65:ARG:CG	3:D:66:GLN:N	2.82	0.41
3:D:117:ASP:OD1	3:D:495:ARG:CZ	2.68	0.41
3:D:545:ARG:O	3:D:546:ARG:C	2.58	0.41
3:D:714:GLN:HE22	3:D:735:ALA:HB3	1.78	0.41
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.34	0.41
3:D:951:ILE:O	3:D:951:ILE:CD1	2.68	0.41
3:D:1403:LEU:HD22	3:D:1407:LEU:HD22	2.02	0.41
3:D:1494:ALA:CB	4:E:92:ILE:HD11	2.50	0.41
5:F:287:THR:C	5:F:289:GLU:N	2.74	0.41
2:M:20:GLU:HG3	2:M:460:ARG:HH21	1.84	0.41
2:M:484:VAL:O	2:M:486:MET:N	2.53	0.41
2:M:1019:GLN:HE21	2:M:1019:GLN:HB3	1.60	0.41
2:M:1047:HIS:ND1	3:N:754:PHE:CB	2.83	0.41
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.50	0.41
3:N:374:GLU:OE2	3:N:386:HIS:ND1	2.53	0.41
3:N:486:ARG:N	3:N:489:ARG:HD2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:575:GLN:O	3:N:578:VAL:N	2.53	0.41
3:N:767:HIS:HA	3:N:924:MET:SD	2.60	0.41
3:N:1225:ALA:O	3:N:1227:GLN:N	2.53	0.41
3:N:1290:LEU:HD22	3:N:1311:LEU:HD22	2.01	0.41
3:N:1304:LYS:O	3:N:1305:LEU:CG	2.67	0.41
4:O:62:THR:O	4:O:66:LYS:HB2	2.19	0.41
5:P:166:LEU:HA	5:P:167:PRO:HD3	1.83	0.41
5:P:196:VAL:HA	5:P:199:ALA:HB3	2.01	0.41
5:P:302:LYS:HG3	5:P:303:ARG:N	2.35	0.41
1:A:20:TYR:CE1	1:A:22:GLU:HG3	2.54	0.41
1:A:86:VAL:N	1:A:124:ASN:HD22	2.18	0.41
2:C:274:ARG:HB2	2:C:288:ARG:HH22	1.84	0.41
2:C:435:TYR:CD1	3:D:1071:PHE:CD2	3.06	0.41
2:C:475:VAL:O	2:C:476:GLY:C	2.58	0.41
2:C:533:ASP:HB3	2:C:538:GLN:HE21	1.85	0.41
2:C:572:ILE:CG1	2:C:701:THR:HB	2.50	0.41
2:C:848:VAL:HG21	3:D:742:GLY:CA	2.50	0.41
2:C:889:HIS:O	2:C:891:GLY:N	2.53	0.41
3:D:215:TYR:HE2	3:D:375:GLU:HG2	1.84	0.41
3:D:378:ILE:CD1	3:D:378:ILE:N	2.81	0.41
3:D:416:ALA:N	3:D:417:PRO:CD	2.72	0.41
3:D:887:ALA:HA	3:D:896:ALA:CB	2.50	0.41
3:D:988:ARG:HD2	3:D:988:ARG:O	2.19	0.41
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.35	0.41
3:D:1342:GLU:CD	3:D:1342:GLU:H	2.24	0.41
3:D:1348:LEU:O	3:D:1352:ILE:HG13	2.20	0.41
4:E:29:GLN:HA	4:E:32:ARG:HB3	2.02	0.41
5:F:80:PRO:O	5:F:84:TYR:CE2	2.73	0.41
5:F:330:GLY:O	5:F:333:ILE:HD12	2.19	0.41
2:M:515:ALA:HB3	2:M:524:VAL:HG12	2.02	0.41
2:M:578:VAL:HG11	2:M:991:GLN:CB	2.50	0.41
2:M:1043:TYR:HB3	3:N:762:GLN:CD	2.41	0.41
2:M:1102:LEU:HD23	2:M:1106:ASP:HA	2.01	0.41
2:M:1114:GLY:O	2:M:1116:ALA:N	2.52	0.41
3:N:36:THR:CG2	3:N:38:LYS:HG3	2.40	0.41
3:N:71:LYS:HD2	3:N:71:LYS:N	2.35	0.41
3:N:96:ALA:CB	3:N:554:LEU:HD12	2.47	0.41
3:N:142:LEU:HD12	3:N:142:LEU:C	2.39	0.41
3:N:167:GLU:OE2	5:P:91:VAL:HG22	2.20	0.41
3:N:247:GLU:O	3:N:247:GLU:HG2	2.20	0.41
3:N:785:ILE:HG12	3:N:935:LYS:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:785:ILE:CG1	3:N:939:PHE:CE2	3.04	0.41
3:N:795:VAL:HG23	3:N:879:ARG:CZ	2.50	0.41
3:N:868:TYR:HD1	3:N:869:MET:H	1.62	0.41
3:N:1153:VAL:O	3:N:1155:VAL:HG23	2.21	0.41
3:N:1233:GLY:HA2	3:N:1236:LEU:HD12	2.01	0.41
3:N:1313:VAL:HG23	3:N:1314:LYS:HZ1	1.85	0.41
3:N:1366:LYS:O	3:N:1369:GLU:N	2.53	0.41
5:P:207:LEU:HD12	5:P:212:LEU:CD2	2.50	0.41
5:P:384:GLU:HG2	5:P:384:GLU:O	2.20	0.41
1:A:140:MET:O	1:A:140:MET:HG3	2.21	0.41
1:B:34:VAL:O	1:B:34:VAL:HG12	2.19	0.41
2:C:223:ASP:O	2:C:225:SER:N	2.53	0.41
2:C:278:GLU:HG3	2:C:283:ILE:O	2.20	0.41
2:C:516:ARG:CZ	3:D:1068:LEU:CD2	2.79	0.41
2:C:536:PRO:HB2	2:C:905:ILE:CG2	2.50	0.41
2:C:708:TYR:CD1	2:C:708:TYR:N	2.88	0.41
2:C:857:ASP:HA	2:C:977:GLY:O	2.19	0.41
2:C:987:ILE:HA	3:D:948:THR:CG2	2.49	0.41
2:C:1083:GLU:O	2:C:1087:VAL:CG2	2.58	0.41
3:D:218:LYS:HG3	3:D:370:ALA:HB1	2.01	0.41
3:D:650:LEU:HD12	3:D:657:LEU:CD2	2.50	0.41
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.55	0.41
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	2.02	0.41
3:D:1021:TYR:O	3:D:1024:ALA:HB3	2.20	0.41
3:D:1459:LEU:HD13	3:D:1468:LEU:HD12	2.03	0.41
5:F:386:VAL:CG1	5:F:387:GLY:N	2.82	0.41
1:K:2:LEU:O	1:K:6:LEU:HD23	2.20	0.41
1:K:110:LYS:O	1:K:112:ARG:N	2.53	0.41
1:K:146:ARG:HE	1:K:146:ARG:C	2.23	0.41
1:L:177:VAL:HG13	1:L:197:LEU:HD11	2.02	0.41
2:M:198:ARG:HH22	2:M:203:ASP:CB	2.31	0.41
2:M:475:VAL:O	2:M:476:GLY:C	2.58	0.41
2:M:1053:LEU:HD13	2:M:1053:LEU:HA	1.77	0.41
3:N:100:ALA:HB2	3:N:128:TYR:OH	2.20	0.41
3:N:195:VAL:O	3:N:205:TYR:HD1	2.03	0.41
3:N:237:LYS:H	3:N:238:PRO:HD3	1.86	0.41
3:N:984:THR:HG23	3:N:986:ARG:HB3	2.01	0.41
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.50	0.41
3:N:1356:TYR:CG	3:N:1363:LEU:HD21	2.55	0.41
3:N:1395:LEU:O	3:N:1395:LEU:HD22	2.20	0.41
5:P:413:SER:OG	5:P:419:ARG:NH2	2.43	0.41

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:367:MET:O	5:P:371:LEU:N	2.53	0.41
1:A:51:THR:HG21	1:A:89:PHE:CD2	2.55	0.41
1:B:76:VAL:HG12	1:B:76:VAL:O	2.21	0.41
2:C:66:LEU:HD13	2:C:100:LEU:HD23	2.02	0.41
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.92	0.41
2:C:411:SER:HB2	2:C:452:ILE:HG23	2.02	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.81	0.41
3:D:208:PRO:HB2	3:D:395:VAL:CG1	2.47	0.41
3:D:401:TYR:N	3:D:402:PRO:HD3	2.36	0.41
3:D:423:ASP:OD2	5:F:174:LEU:HD13	2.19	0.41
3:D:513:ILE:HG13	3:D:513:ILE:H	1.51	0.41
3:D:614:PHE:O	3:D:617:ASN:HB3	2.21	0.41
3:D:678:GLU:CG	3:D:679:ARG:HG3	2.50	0.41
3:D:932:ASP:C	3:D:935:LYS:H	2.24	0.41
3:D:1014:ASN:O	3:D:1015:TYR:CD1	2.74	0.41
3:D:1492:LEU:HD13	3:D:1492:LEU:C	2.41	0.41
5:F:97:GLU:O	5:F:100:VAL:HB	2.21	0.41
5:F:202:TYR:HE2	5:F:248:ASN:OD1	2.04	0.41
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.56	0.41
2:M:44:ILE:HD12	2:M:44:ILE:N	2.36	0.41
2:M:56:GLU:OE2	2:M:356:ARG:HD3	2.20	0.41
2:M:112:GLU:O	2:M:113:VAL:HG23	2.20	0.41
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.31	0.41
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.20	0.41
2:M:660:ALA:O	2:M:667:ALA:N	2.52	0.41
2:M:824:ARG:HG2	2:M:824:ARG:HH11	1.85	0.41
3:N:605:ASP:OD1	3:N:605:ASP:N	2.53	0.41
3:N:670:VAL:O	3:N:673:ALA:N	2.54	0.41
3:N:1118:ILE:HD13	3:N:1118:ILE:HA	1.90	0.41
1:A:40:LEU:HD12	1:A:197:LEU:HD11	2.03	0.41
1:A:122:ILE:HG22	1:A:124:ASN:H	1.85	0.41
1:B:15:THR:HA	1:B:21:GLY:HA2	2.02	0.41
1:B:30:ARG:NE	1:B:191:ASP:HB2	2.35	0.41
2:C:230:ARG:HA	2:C:231:PRO:HD3	1.88	0.41
2:C:350:ARG:HG2	2:C:350:ARG:HH11	1.85	0.41
2:C:586:ARG:HD3	2:C:590:ASP:OD2	2.20	0.41
2:C:691:SER:O	2:C:693:GLU:N	2.53	0.41
2:C:1058:ASP:HB2	3:D:621:LYS:CE	2.50	0.41
2:C:1115:LEU:HD13	3:D:88:TYR:HD1	1.84	0.41
3:D:623:VAL:CG1	3:D:624:ASP:N	2.83	0.41
3:D:633:VAL:O	3:D:633:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:926:LYS:HE3	3:D:926:LYS:HB2	1.88	0.41
3:D:999:THR:O	3:D:1002:LYS:HB2	2.20	0.41
3:D:1106:VAL:CG2	3:D:1474:ALA:HB2	2.49	0.41
3:D:1307:LYS:HG3	3:D:1308:GLU:H	1.85	0.41
3:D:1312:LEU:HD21	3:D:1327:ARG:NH2	2.35	0.41
3:D:1319:VAL:O	3:D:1319:VAL:HG23	2.21	0.41
3:D:1336:LEU:CD2	3:D:1421:LEU:HB2	2.47	0.41
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.20	0.41
3:D:1442:ASN:O	3:D:1443:THR:C	2.59	0.41
5:F:275:ALA:HA	5:F:278:LEU:HD12	2.03	0.41
1:K:151:VAL:HB	1:K:169:ALA:HB3	2.02	0.41
1:L:182:GLU:OE1	1:L:194:LYS:HD3	2.21	0.41
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.49	0.41
2:M:133:ASP:HB2	2:M:395:LYS:HB3	2.03	0.41
2:M:143:SER:OG	2:M:276:LYS:NZ	2.52	0.41
2:M:319:GLY:O	2:M:321:GLU:CD	2.58	0.41
2:M:349:ALA:O	2:M:352:ALA:N	2.50	0.41
2:M:383:ARG:C	2:M:385:PHE:N	2.74	0.41
2:M:400:PRO:HB3	2:M:593:ALA:HB2	2.03	0.41
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.47	0.41
2:M:855:VAL:HG21	2:M:866:PRO:HG2	2.03	0.41
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.47	0.41
3:N:84:ILE:O	3:N:87:ARG:HG2	2.21	0.41
3:N:135:LEU:HD21	3:N:452:ILE:CD1	2.47	0.41
3:N:575:GLN:OE1	3:N:575:GLN:HA	2.19	0.41
3:N:624:ASP:HB3	3:N:625:TYR:H	1.60	0.41
3:N:1042:ARG:HD3	3:N:1065:LEU:HD11	2.02	0.41
3:N:1078:ARG:O	3:N:1082:ALA:HB3	2.21	0.41
3:N:1137:ARG:CD	3:N:1137:ARG:N	2.83	0.41
3:N:1447:LEU:HD12	3:N:1447:LEU:HA	1.84	0.41
5:P:323:ASP:O	5:P:324:GLU:C	2.59	0.41
1:A:124:ASN:N	1:A:125:PRO:CD	2.83	0.41
1:B:29:GLU:O	1:B:30:ARG:C	2.57	0.41
1:B:91:ASN:HB2	1:B:92:PRO:CD	2.51	0.41
2:C:31:GLN:CD	2:C:40:GLU:HB2	2.41	0.41
2:C:185:LYS:HE3	2:C:185:LYS:HB2	1.90	0.41
2:C:337:GLY:O	2:C:339:LEU:N	2.54	0.41
2:C:407:LYS:HE2	2:C:407:LYS:HB2	1.83	0.41
2:C:516:ARG:NH2	3:D:1068:LEU:HB2	2.36	0.41
2:C:983:ILE:O	2:C:983:ILE:HG22	2.19	0.41
3:D:93:ILE:CD1	3:D:548:ILE:CD1	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:112:ILE:O	3:D:112:ILE:HD12	2.21	0.41
3:D:526:PRO:HD2	5:F:317:LEU:HD13	2.03	0.41
3:D:646:LYS:O	3:D:649:ALA:N	2.53	0.41
3:D:864:VAL:CG1	3:D:865:THR:N	2.83	0.41
3:D:891:GLU:O	3:D:893:GLU:N	2.53	0.41
3:D:1072:ILE:HD13	3:D:1072:ILE:HA	1.79	0.41
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.34	0.41
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.41
4:E:41:GLU:CA	4:E:45:ARG:HG3	2.51	0.41
5:F:163:LEU:HB3	5:F:174:LEU:HD12	2.03	0.41
5:F:234:LYS:HD2	5:F:236:SER:CB	2.51	0.41
5:F:336:GLU:C	5:F:338:LEU:N	2.74	0.41
1:K:104:GLU:O	1:K:105:GLY:O	2.39	0.41
1:K:133:GLU:CG	1:K:134:GLU:H	2.34	0.41
2:M:101:ILE:HG22	2:M:102:HIS:N	2.36	0.41
2:M:124:ASP:OD1	2:M:125:GLY:N	2.53	0.41
2:M:239:PHE:CE1	2:M:254:VAL:HG21	2.56	0.41
2:M:442:GLU:HG2	2:M:454:SER:OG	2.21	0.41
2:M:1063:ARG:CG	2:M:1064:ASN:H	2.32	0.41
3:N:520:LEU:HD11	3:N:524:LEU:HD12	2.03	0.41
3:N:554:LEU:HD22	3:N:554:LEU:HA	1.91	0.41
3:N:637:LEU:C	3:N:638:LYS:HG3	2.40	0.41
3:N:779:ALA:HB3	3:N:931:LEU:CD1	2.50	0.41
3:N:845:ASN:CB	3:N:848:GLU:HG2	2.51	0.41
3:N:957:PRO:HG3	3:N:1007:VAL:HA	2.03	0.41
3:N:1066:THR:OG1	3:N:1067:VAL:N	2.53	0.41
3:N:1101:VAL:HG13	3:N:1102:THR:N	2.35	0.41
3:N:1101:VAL:HG22	3:N:1374:GLN:HB3	2.02	0.41
3:N:1353:GLN:O	3:N:1354:LYS:C	2.59	0.41
3:N:1466:VAL:O	3:N:1469:GLY:N	2.50	0.41
5:P:214:GLN:HA	5:P:214:GLN:HE21	1.85	0.41
1:A:58:ILE:HG21	1:A:61:VAL:CG2	2.51	0.41
1:A:165:ILE:HA	1:A:166:PRO:HD3	1.83	0.41
1:B:68:ILE:HA	1:B:69:PRO:HD3	1.87	0.41
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.85	0.41
2:C:443:THR:O	2:C:559:LEU:CD1	2.69	0.41
2:C:577:PRO:HG3	2:C:993:PHE:CG	2.56	0.41
2:C:613:VAL:O	2:C:620:LEU:HA	2.21	0.41
2:C:680:ASP:OD2	3:D:939:PHE:HB3	2.20	0.41
2:C:801:VAL:HG23	2:C:802:ARG:N	2.35	0.41
2:C:873:PRO:O	2:C:877:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1113:GLU:O	2:C:1115:LEU:HD12	2.21	0.41
3:D:130:SER:HB3	3:D:132:TYR:CD1	2.55	0.41
3:D:133:ILE:HG21	3:D:454:ALA:CB	2.34	0.41
3:D:160:GLU:CG	3:D:165:LYS:HD3	2.51	0.41
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.50	0.41
3:D:806:PHE:C	3:D:808:THR:H	2.24	0.41
3:D:1130:ARG:O	3:D:1131:SER:HB3	2.21	0.41
3:D:1243:THR:CB	3:D:1253:THR:HB	2.51	0.41
3:D:1438:ALA:C	3:D:1440:PHE:H	2.22	0.41
5:F:114:LYS:O	5:F:117:SER:OG	2.39	0.41
5:F:316:SER:OG	5:F:318:GLU:O	2.22	0.41
5:F:398:ARG:O	5:F:401:GLU:HB3	2.21	0.41
1:L:208:LEU:O	1:L:211:LEU:N	2.53	0.41
2:M:604:ALA:HB3	2:M:612:VAL:O	2.20	0.41
2:M:610:ARG:HH11	2:M:610:ARG:CG	2.33	0.41
2:M:853:LEU:HA	2:M:854:PRO:HD3	1.81	0.41
3:N:93:ILE:HG13	3:N:519:VAL:HG21	2.02	0.41
3:N:168:THR:C	3:N:170:PRO:HD3	2.41	0.41
3:N:568:ARG:O	3:N:569:ASN:C	2.59	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.84	0.41
3:N:736:PHE:O	3:N:738:ALA:CB	2.68	0.41
3:N:796:ARG:HE	3:N:828:LYS:NZ	2.17	0.41
3:N:831:GLY:O	3:N:832:ARG:C	2.58	0.41
3:N:884:ARG:O	3:N:888:GLU:N	2.53	0.41
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.85	0.41
3:N:1127:GLU:C	3:N:1129:THR:H	2.24	0.41
3:N:1128:VAL:O	3:N:1130:ARG:N	2.53	0.41
3:N:1135:ARG:CZ	3:N:1139:ASP:HB3	2.51	0.41
3:N:1144:LEU:HB3	3:N:1171:VAL:HG22	2.03	0.41
3:N:1148:VAL:HG12	3:N:1189:ARG:CG	2.50	0.41
3:N:1188:VAL:O	3:N:1188:VAL:HG13	2.19	0.41
3:N:1243:THR:OG1	3:N:1253:THR:CB	2.69	0.41
3:N:1243:THR:HG21	3:N:1253:THR:OG1	2.20	0.41
5:P:225:GLU:HG2	5:P:226:LYS:HZ2	1.85	0.41
1:B:10:VAL:HG12	1:B:10:VAL:O	2.21	0.41
1:B:151:VAL:HA	1:B:152:PRO:HD3	1.97	0.41
2:C:73:LEU:HG	2:C:94:LEU:HD13	2.03	0.41
2:C:85:GLU:C	2:C:86:LYS:O	2.59	0.41
2:C:188:LYS:HB3	2:C:189:ARG:H	1.75	0.41
2:C:291:ALA:O	2:C:292:ARG:HB2	2.21	0.41
2:C:341:THR:HG23	2:C:345:ARG:NH2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:365:ASP:C	2:C:367:LEU:H	2.24	0.41
2:C:516:ARG:HE	3:D:1068:LEU:HD13	1.86	0.41
2:C:576:ALA:HB3	2:C:900:ARG:NH2	2.36	0.41
2:C:633:GLN:H	2:C:633:GLN:HE21	1.69	0.41
2:C:792:VAL:HA	2:C:793:PRO:HD3	1.92	0.41
2:C:835:VAL:HG22	2:C:836:GLY:N	2.36	0.41
2:C:886:LEU:HD23	2:C:886:LEU:HA	1.89	0.41
2:C:896:PHE:CZ	2:C:925:TYR:CG	3.08	0.41
2:C:1010:THR:CG2	2:C:1011:GLY:H	2.29	0.41
3:D:37:LEU:N	3:D:37:LEU:HD23	2.36	0.41
3:D:183:GLU:HA	3:D:186:VAL:HG12	2.03	0.41
3:D:444:VAL:O	3:D:446:VAL:HG23	2.21	0.41
3:D:500:ARG:HG3	3:D:500:ARG:HH11	1.86	0.41
3:D:760:ARG:O	4:E:3:GLU:OE1	2.38	0.41
3:D:834:THR:HG22	3:D:838:ARG:HD2	2.02	0.41
3:D:866:VAL:O	3:D:873:LEU:HB2	2.20	0.41
3:D:927:THR:O	3:D:928:ALA:C	2.59	0.41
3:D:988:ARG:HD2	3:D:988:ARG:C	2.41	0.41
3:D:1113:GLY:O	3:D:1114:THR:C	2.59	0.41
3:D:1202:GLN:HA	3:D:1215:VAL:CG1	2.51	0.41
3:D:1331:ASP:O	3:D:1334:GLN:HB2	2.20	0.41
4:E:51:LEU:HD23	4:E:51:LEU:N	2.36	0.41
4:E:59:ASN:HB3	4:E:62:THR:OG1	2.20	0.41
5:F:153:PRO:HB2	5:F:154:LYS:H	1.51	0.41
5:F:188:ILE:HD13	5:F:221:ILE:HG23	2.03	0.41
5:F:266:GLU:C	5:F:268:ILE:N	2.74	0.41
5:F:323:ASP:O	5:F:324:GLU:C	2.59	0.41
5:F:343:ASP:O	5:F:347:GLN:NE2	2.53	0.41
5:F:364:ARG:O	5:F:365:GLU:C	2.59	0.41
1:K:33:GLY:HA3	1:K:193:ASP:OD2	2.21	0.41
1:K:206:THR:HB	1:K:209:GLU:HB2	2.03	0.41
1:L:11:PHE:CE2	1:L:13:VAL:HG22	2.56	0.41
1:L:76:VAL:O	1:L:80:LEU:HB2	2.20	0.41
1:L:77:GLU:CG	3:N:872:ARG:NH2	2.70	0.41
1:L:103:ALA:CB	1:L:107:LYS:NZ	2.84	0.41
2:M:266:ARG:HH11	2:M:266:ARG:HG3	1.86	0.41
2:M:276:LYS:HA	2:M:279:GLU:HG2	2.02	0.41
2:M:394:PHE:CD1	2:M:632:ASN:OD1	2.74	0.41
2:M:413:LEU:N	2:M:413:LEU:CD1	2.83	0.41
2:M:432:ARG:NH1	3:N:1047:LYS:HZ3	2.18	0.41
2:M:464:LEU:O	2:M:464:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:682:TYR:CD1	3:N:635:PRO:HG2	2.55	0.41
2:M:744:ARG:HH21	2:M:747:ALA:HA	1.84	0.41
2:M:775:ARG:HH11	2:M:782:ALA:HB1	1.86	0.41
2:M:776:SER:HA	2:M:780:GLU:HB2	2.02	0.41
2:M:874:LEU:O	2:M:877:PRO:HD2	2.21	0.41
2:M:956:GLY:O	2:M:957:LYS:O	2.39	0.41
2:M:1028:GLY:O	2:M:1029:GLY:O	2.39	0.41
2:M:1102:LEU:HD13	3:N:7:LYS:O	2.20	0.41
3:N:171:LEU:HD23	3:N:390:PRO:HG3	2.01	0.41
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.51	0.41
3:N:195:VAL:HB	3:N:205:TYR:CG	2.55	0.41
3:N:227:LEU:HD22	3:N:227:LEU:H	1.86	0.41
3:N:404:GLU:OE2	3:N:414:ARG:NH2	2.54	0.41
3:N:444:VAL:O	3:N:444:VAL:HG22	2.19	0.41
3:N:496:LEU:HD23	3:N:496:LEU:O	2.21	0.41
3:N:541:ASN:O	3:N:542:ASP:C	2.59	0.41
3:N:639:LEU:O	3:N:641:GLN:N	2.54	0.41
3:N:641:GLN:HA	3:N:716:PHE:HB3	2.03	0.41
3:N:711:LEU:C	3:N:713:ILE:N	2.73	0.41
3:N:730:PRO:O	3:N:731:LEU:C	2.59	0.41
3:N:761:ILE:HG22	3:N:762:GLN:N	2.36	0.41
3:N:847:ASP:O	3:N:851:LEU:HG	2.21	0.41
3:N:908:LYS:HG3	3:N:909:ASN:N	2.36	0.41
3:N:984:THR:C	3:N:986:ARG:N	2.74	0.41
3:N:1094:LEU:C	3:N:1096:ARG:H	2.23	0.41
3:N:1114:THR:HB	3:N:1195:GLN:OE1	2.20	0.41
3:N:1148:VAL:HG12	3:N:1189:ARG:CB	2.48	0.41
3:N:1183:ILE:CG2	3:N:1184:GLN:H	2.27	0.41
3:N:1232:PRO:CB	3:N:1361:VAL:HG11	2.51	0.41
3:N:1394:VAL:O	3:N:1397:LYS:HB2	2.20	0.41
5:P:105:LYS:CE	5:P:179:GLU:HG2	2.44	0.41
5:P:125:ASP:O	5:P:129:GLU:HG2	2.20	0.41
5:P:394:ARG:H	5:P:394:ARG:HD3	1.86	0.41
1:A:20:TYR:CG	1:A:21:GLY:N	2.89	0.41
1:A:99:LEU:O	1:A:142:VAL:HG22	2.20	0.41
1:B:96:THR:O	1:B:96:THR:HG23	2.20	0.41
2:C:79:PRO:CG	2:C:82:GLU:HB2	2.45	0.41
2:C:398:THR:O	2:C:570:PRO:HD3	2.20	0.41
2:C:490:GLU:O	2:C:494:TYR:CE1	2.73	0.41
2:C:650:ARG:H	2:C:650:ARG:CD	2.20	0.41
2:C:857:ASP:CB	2:C:978:ARG:HG2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:987:ILE:CB	3:D:948:THR:HG21	2.51	0.41
2:C:1115:LEU:HD23	3:D:85:VAL:CG1	2.40	0.41
3:D:85:VAL:HG12	3:D:85:VAL:O	2.21	0.41
3:D:87:ARG:HG3	3:D:88:TYR:CE2	2.56	0.41
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.03	0.41
3:D:628:ARG:O	3:D:648:MET:HE1	2.20	0.41
3:D:703:ASN:HD22	3:D:704:ARG:N	2.18	0.41
3:D:804:LEU:HB3	3:D:816:HIS:CE1	2.56	0.41
3:D:881:LEU:O	3:D:882:PHE:C	2.58	0.41
3:D:1205:TYR:O	3:D:1366:LYS:HE2	2.20	0.41
3:D:1215:VAL:HG22	3:D:1216:SER:N	2.36	0.41
3:D:1265:ALA:O	3:D:1266:ARG:HG3	2.21	0.41
3:D:1485:GLN:NE2	4:E:80:VAL:O	2.55	0.41
4:E:53:GLY:C	4:E:55:PHE:N	2.75	0.41
5:F:321:ILE:HD13	5:F:322:GLY:N	2.35	0.41
1:K:71:VAL:HG11	1:K:78:ILE:HD11	2.03	0.41
1:L:91:ASN:OD1	1:L:94:LEU:CD1	2.68	0.41
1:L:149:GLY:O	1:L:171:PHE:HB2	2.21	0.41
1:L:206:THR:OG1	1:L:207:PRO:HD2	2.20	0.41
2:M:163:ILE:HA	2:M:164:PRO:HD3	1.69	0.41
2:M:498:GLN:O	2:M:532:MET:HG3	2.21	0.41
2:M:775:ARG:NH2	2:M:784:ASP:HA	2.35	0.41
2:M:861:LEU:HB2	2:M:865:THR:HG23	2.03	0.41
2:M:1048:THR:OG1	3:N:755:ALA:O	2.37	0.41
2:M:1081:VAL:HA	2:M:1082:PRO:HD3	1.85	0.41
3:N:367:ILE:H	3:N:367:ILE:CD1	2.31	0.41
3:N:521:PRO:O	3:N:525:ARG:HG3	2.21	0.41
3:N:1090:ASP:O	3:N:1093:TYR:N	2.32	0.41
5:P:190:ALA:O	5:P:191:ASN:ND2	2.54	0.41
5:P:220:LEU:HD12	5:P:239:ALA:HB1	2.02	0.41
5:P:271:LEU:HD12	5:P:307:THR:HG21	2.02	0.41
1:B:30:ARG:HD3	1:B:191:ASP:HB2	2.02	0.40
2:C:367:LEU:H	2:C:367:LEU:CD2	2.34	0.40
2:C:949:LYS:HD3	3:D:796:ARG:NH1	2.35	0.40
3:D:30:GLU:HG3	3:D:41:ARG:HG2	2.04	0.40
3:D:889:ALA:HB1	3:D:930:LEU:HB2	2.03	0.40
3:D:1398:TRP:CZ2	3:D:1415:VAL:HG11	2.56	0.40
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.94	0.40
4:E:23:VAL:O	4:E:27:ALA:N	2.55	0.40
4:E:36:LYS:HD3	4:E:36:LYS:HA	1.92	0.40
5:F:131:VAL:O	5:F:135:ILE:HG12	2.22	0.40

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:41:ASN:ND2	2:M:41:ASN:N	2.67	0.40
2:M:44:ILE:HD11	2:M:340:MET:HE2	2.02	0.40
2:M:793:PRO:HA	2:M:794:PRO:HD3	1.93	0.40
3:N:219:GLU:HG3	3:N:220:ARG:HG3	2.03	0.40
3:N:703:ASN:HD22	3:N:704:ARG:H	1.67	0.40
3:N:794:GLN:NE2	3:N:794:GLN:CA	2.83	0.40
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.51	0.40
3:N:1231:GLU:N	3:N:1232:PRO:HD3	2.36	0.40
3:N:1434:TRP:CG	3:N:1435:LEU:N	2.89	0.40
1:A:201:THR:HG22	1:A:202:ASP:OD2	2.22	0.40
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.81	0.40
1:B:112:ARG:HB3	1:B:112:ARG:HH11	1.82	0.40
2:C:200:LEU:HD22	2:C:299:LYS:O	2.22	0.40
2:C:202:TYR:CE2	2:C:304:LEU:HD13	2.56	0.40
2:C:212:GLY:O	2:C:218:VAL:HB	2.21	0.40
2:C:235:LEU:O	2:C:235:LEU:HD23	2.21	0.40
2:C:244:PRO:CG	2:C:245:GLY:H	2.35	0.40
2:C:555:ALA:O	2:C:556:ASN:C	2.57	0.40
2:C:607:ASP:HB2	2:C:610:ARG:HG2	2.04	0.40
2:C:608:GLY:C	2:C:609:ASN:HD22	2.24	0.40
2:C:613:VAL:HG11	2:C:655:LEU:HD11	2.03	0.40
2:C:846:LYS:O	3:D:741:ASP:CB	2.70	0.40
2:C:1018:GLN:HB3	2:C:1063:ARG:HH22	1.86	0.40
2:C:1091:GLU:CD	3:D:606:ILE:CG2	2.89	0.40
3:D:142:LEU:HD12	3:D:142:LEU:C	2.42	0.40
3:D:474:GLU:HG3	3:D:496:LEU:CD1	2.46	0.40
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.55	0.40
3:D:646:LYS:CG	3:D:647:ARG:N	2.77	0.40
3:D:913:ASP:O	3:D:914:LEU:C	2.59	0.40
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.75	0.40
3:D:1283:ILE:O	3:D:1284:GLU:OE1	2.39	0.40
3:D:1314:LYS:HZ1	3:D:1317:ASP:CB	2.27	0.40
3:D:1428:ALA:C	3:D:1430:SER:H	2.24	0.40
4:E:30:LEU:O	4:E:35:PHE:CD1	2.74	0.40
1:K:6:LEU:C	1:K:8:ALA:H	2.24	0.40
1:K:176:ARG:O	1:K:200:TRP:HE3	2.05	0.40
1:K:180:GLN:O	1:K:195:LEU:HD12	2.20	0.40
1:L:66:SER:HB3	1:L:67:THR:H	1.75	0.40
2:M:172:ILE:HA	2:M:185:LYS:O	2.21	0.40
2:M:244:PRO:HG2	2:M:246:ASP:HB2	2.03	0.40
2:M:244:PRO:CG	2:M:245:GLY:N	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:269:LEU:C	2:M:288:ARG:HE	2.24	0.40
2:M:304:LEU:H	2:M:305:PRO:CD	2.34	0.40
2:M:409:ARG:HD3	2:M:452:ILE:CG2	2.52	0.40
2:M:564:MET:O	2:M:567:GLN:N	2.55	0.40
2:M:593:ALA:O	2:M:658:GLY:HA3	2.21	0.40
2:M:1006:HIS:HA	2:M:1027:PHE:CE2	2.55	0.40
2:M:1008:ARG:CD	2:M:1029:GLY:H	2.35	0.40
2:M:1037:VAL:O	2:M:1041:GLU:HG3	2.22	0.40
3:N:13:ALA:O	3:N:511:TRP:HB3	2.21	0.40
3:N:376:GLU:HB2	3:N:383:GLY:O	2.21	0.40
3:N:557:LEU:O	3:N:562:ALA:HB2	2.21	0.40
3:N:798:GLU:HB3	3:N:826:PRO:HG2	2.02	0.40
3:N:853:VAL:O	3:N:855:HIS:N	2.54	0.40
3:N:897:TRP:CZ2	3:N:902:LEU:HD21	2.52	0.40
3:N:1033:GLN:HA	3:N:1036:ARG:HH12	1.85	0.40
3:N:1093:TYR:CE2	3:N:1097:LYS:NZ	2.89	0.40
3:N:1263:PHE:O	3:N:1424:VAL:HB	2.22	0.40
4:O:40:LEU:CD1	4:O:45:ARG:HD2	2.50	0.40
5:P:260:ILE:HG12	5:P:264:MET:CB	2.51	0.40
1:A:14:ARG:NE	1:A:22:GLU:HB2	2.37	0.40
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.32	0.40
1:B:32:PHE:HA	1:B:35:THR:HB	2.03	0.40
2:C:157:ARG:HA	2:C:157:ARG:HD3	1.86	0.40
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.22	0.40
2:C:881:ASN:C	2:C:883:GLY:H	2.25	0.40
2:C:1012:PRO:C	2:C:1013:TYR:CD2	2.95	0.40
2:C:1019:GLN:HE21	2:C:1019:GLN:HB3	1.60	0.40
3:D:29:PRO:HG3	3:D:548:ILE:HG22	2.03	0.40
3:D:106:LYS:HE2	3:D:125:GLN:OE1	2.21	0.40
3:D:141:ILE:HD11	3:D:449:SER:C	2.42	0.40
3:D:217:LYS:N	3:D:217:LYS:HD3	2.36	0.40
3:D:367:ILE:HD13	3:D:368:VAL:N	2.31	0.40
3:D:367:ILE:CG2	3:D:368:VAL:N	2.84	0.40
3:D:525:ARG:HE	3:D:541:ASN:CG	2.25	0.40
3:D:806:PHE:CD1	3:D:812:ALA:O	2.74	0.40
3:D:813:LEU:HG	3:D:814:ALA:H	1.85	0.40
3:D:882:PHE:O	3:D:884:ARG:N	2.55	0.40
3:D:1254:GLN:CD	3:D:1255:GLY:H	2.23	0.40
3:D:1413:THR:N	3:D:1414:PRO:HD3	2.37	0.40
5:F:120:THR:C	5:F:122:LEU:H	2.23	0.40
5:F:341:PRO:C	5:F:343:ASP:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:366:ALA:O	5:F:370:LYS:HB2	2.21	0.40
2:M:73:LEU:HA	2:M:93:PRO:O	2.21	0.40
2:M:270:GLY:N	2:M:288:ARG:NE	2.69	0.40
2:M:395:LYS:O	2:M:397:GLU:N	2.54	0.40
2:M:516:ARG:CD	3:N:1068:LEU:HD22	2.51	0.40
2:M:554:ASP:OD1	2:M:554:ASP:C	2.60	0.40
2:M:585:GLU:O	2:M:588:VAL:CG2	2.70	0.40
2:M:611:ILE:O	2:M:623:TYR:HB2	2.21	0.40
2:M:711:GLU:HA	2:M:822:VAL:HG12	2.03	0.40
2:M:840:ALA:O	2:M:995:MET:HE2	2.22	0.40
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.87	0.40
2:M:940:GLU:HG3	2:M:975:TYR:OH	2.21	0.40
2:M:1023:GLY:C	2:M:1024:LYS:HG3	2.41	0.40
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.57	0.40
2:M:1043:TYR:HB3	3:N:762:GLN:OE1	2.21	0.40
2:M:1043:TYR:CZ	3:N:763:MET:HG3	2.55	0.40
2:M:1098:ASP:OD1	2:M:1098:ASP:C	2.59	0.40
3:N:691:LEU:HG	3:N:720:LEU:HD11	2.03	0.40
3:N:1087:ARG:CZ	3:N:1087:ARG:HA	2.50	0.40
3:N:1111:ASP:HB3	3:N:1203:LYS:HZ1	1.86	0.40
3:N:1283:ILE:O	3:N:1284:GLU:OE1	2.39	0.40
3:N:1292:VAL:HG11	3:N:1325:LEU:CD2	2.51	0.40
3:N:1304:LYS:O	3:N:1305:LEU:CD2	2.69	0.40
3:N:1368:ILE:O	3:N:1371:VAL:N	2.45	0.40
4:O:44:GLU:O	4:O:45:ARG:HD3	2.22	0.40
5:P:144:ILE:CB	5:P:145:PRO:HD3	2.43	0.40
5:P:163:LEU:HD13	5:P:174:LEU:HD11	2.03	0.40
5:P:295:MET:HE2	5:P:295:MET:HA	2.04	0.40
5:P:386:VAL:O	5:P:388:ALA:N	2.53	0.40
1:A:89:PHE:CZ	1:A:144:VAL:HG12	2.57	0.40
1:B:213:GLN:O	1:B:216:GLU:HB3	2.21	0.40
2:C:101:ILE:CG2	2:C:102:HIS:H	2.21	0.40
2:C:195:LEU:HD21	2:C:241:LEU:HD12	2.03	0.40
2:C:324:ASP:HB3	2:C:327:HIS:HB2	2.03	0.40
2:C:342:ASP:O	2:C:345:ARG:HG2	2.22	0.40
2:C:670:GLN:HG2	2:C:699:PHE:HD2	1.76	0.40
2:C:709:GLU:CG	2:C:710:ILE:N	2.83	0.40
2:C:814:GLU:C	2:C:815:LEU:O	2.60	0.40
2:C:915:LYS:NZ	3:D:952:ASP:OD2	2.55	0.40
2:C:1050:GLN:CG	2:C:1079:PRO:HG2	2.43	0.40
3:D:10:ILE:HG13	3:D:1434:TRP:CH2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:65:ARG:HD2	3:D:66:GLN:HG2	2.03	0.40
3:D:67:ARG:HG2	5:F:375:LEU:HD21	2.04	0.40
3:D:87:ARG:HB2	3:D:524:LEU:HG	2.02	0.40
3:D:119:SER:O	3:D:120:ALA:C	2.59	0.40
3:D:563:PRO:CB	5:F:189:GLU:HG2	2.51	0.40
3:D:858:VAL:HG12	3:D:877:PRO:HG2	2.02	0.40
3:D:1135:ARG:O	3:D:1136:LYS:O	2.39	0.40
3:D:1243:THR:HG21	3:D:1253:THR:HA	2.03	0.40
5:F:160:ASP:OD2	5:F:178:ARG:NH2	2.52	0.40
1:K:35:THR:HG22	1:L:39:PRO:HB3	2.04	0.40
1:L:22:GLU:O	1:L:23:PHE:CG	2.74	0.40
1:L:83:LYS:NZ	3:N:842:VAL:O	2.54	0.40
2:M:6:PHE:CD2	2:M:913:GLU:OE1	2.74	0.40
2:M:44:ILE:H	2:M:44:ILE:CD1	2.35	0.40
2:M:427:VAL:C	2:M:429:ASP:N	2.72	0.40
2:M:432:ARG:HD3	3:N:1048:PRO:CG	2.50	0.40
2:M:536:PRO:CB	2:M:906:PHE:HB2	2.51	0.40
2:M:691:SER:C	2:M:693:GLU:H	2.24	0.40
2:M:859:PRO:HD2	2:M:870:ILE:HD11	2.02	0.40
2:M:1011:GLY:O	2:M:1012:PRO:O	2.39	0.40
2:M:1093:GLN:C	2:M:1095:LEU:N	2.74	0.40
3:N:55:ASP:CA	3:N:82:LYS:HG2	2.52	0.40
3:N:78:VAL:C	3:N:79:GLU:O	2.56	0.40
3:N:103:TRP:CD1	3:N:583:ASP:OD2	2.74	0.40
3:N:141:ILE:CD1	3:N:450:TYR:H	2.33	0.40
3:N:171:LEU:HB3	3:N:390:PRO:CA	2.48	0.40
3:N:217:LYS:HD2	3:N:218:LYS:N	2.24	0.40
3:N:221:ALA:O	3:N:367:ILE:HG21	2.21	0.40
3:N:456:MET:HG2	3:N:456:MET:O	2.21	0.40
3:N:496:LEU:O	3:N:500:ARG:HG3	2.22	0.40
3:N:740:PHE:H	3:N:740:PHE:HD1	1.69	0.40
3:N:766:ALA:HA	3:N:769:LEU:HD11	2.03	0.40
3:N:820:GLU:C	3:N:822:ALA:N	2.74	0.40
3:N:999:THR:O	3:N:1002:LYS:N	2.54	0.40
3:N:1101:VAL:HG11	3:N:1424:VAL:CG2	2.51	0.40
5:P:274:THR:HG21	5:P:295:MET:CE	2.52	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	167 (74%)	39 (17%)	21 (9%)	0	4
1	B	227/315 (72%)	177 (78%)	37 (16%)	13 (6%)	1	11
1	K	227/315 (72%)	161 (71%)	39 (17%)	27 (12%)	0	2
1	L	227/315 (72%)	166 (73%)	44 (19%)	17 (8%)	1	7
2	C	1117/1119 (100%)	781 (70%)	226 (20%)	110 (10%)	0	3
2	M	1117/1119 (100%)	769 (69%)	215 (19%)	133 (12%)	0	2
3	D	1388/1524 (91%)	941 (68%)	293 (21%)	154 (11%)	0	2
3	N	1388/1524 (91%)	907 (65%)	332 (24%)	149 (11%)	0	3
4	E	93/99 (94%)	67 (72%)	17 (18%)	9 (10%)	0	3
4	O	93/99 (94%)	59 (63%)	20 (22%)	14 (15%)	0	1
5	F	341/423 (81%)	241 (71%)	67 (20%)	33 (10%)	0	3
5	P	341/423 (81%)	249 (73%)	57 (17%)	35 (10%)	0	3
All	All	6786/7590 (89%)	4685 (69%)	1386 (20%)	715 (10%)	0	3

All (715) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 5.3.2 Protein sidechains [i](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	63	HIS

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

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

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

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

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

### 5.7 Other polymers [i](#)

There are no such residues in this entry.

### 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å <sup>2</sup> )	Q < 0.9
1	A	229/315 (72%)	-0.13	1 (0%) 92 93	41, 64, 87, 113	0
1	B	229/315 (72%)	0.09	16 (6%) 16 16	47, 121, 143, 143	0
1	K	229/315 (72%)	-0.06	3 (1%) 77 77	28, 63, 88, 111	0
1	L	229/315 (72%)	-0.03	7 (3%) 49 48	41, 79, 99, 116	0
2	C	1119/1119 (100%)	-0.07	25 (2%) 62 60	12, 67, 133, 143	0
2	M	1119/1119 (100%)	-0.06	31 (2%) 53 51	6, 71, 122, 133	0
3	D	1392/1524 (91%)	-0.00	37 (2%) 54 52	7, 60, 125, 143	0
3	N	1392/1524 (91%)	0.05	53 (3%) 40 37	5, 65, 134, 143	0
4	E	95/99 (95%)	-0.03	2 (2%) 63 62	54, 84, 100, 106	0
4	O	95/99 (95%)	0.04	4 (4%) 36 34	46, 86, 117, 121	0
5	F	345/423 (81%)	-0.06	9 (2%) 56 53	48, 81, 113, 121	0
5	P	345/423 (81%)	-0.08	8 (2%) 60 59	47, 73, 110, 123	0
All	All	6818/7590 (89%)	-0.02	196 (2%) 51 50	5, 70, 129, 143	0

All (196) RSRZ outliers are listed below:

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

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

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

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

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

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

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

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

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

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

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

## 6.5 Other polymers [i](#)

There are no such residues in this entry.