



# Full wwPDB X-ray Structure Validation Report ⓘ

Aug 16, 2023 – 03:26 PM EDT

PDB ID : 2A6E  
Title : Crystal structure of the T. Thermophilus RNA polymerase holoenzyme  
Authors : Artsimovitch, I.; Vassilyeva, M.N.; Svetlov, D.; Svetlov, V.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Tahirov, T.H.; Vassilyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)  
Deposited on : 2005-07-02  
Resolution : 2.80 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 : 2.35  
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) : 2.35

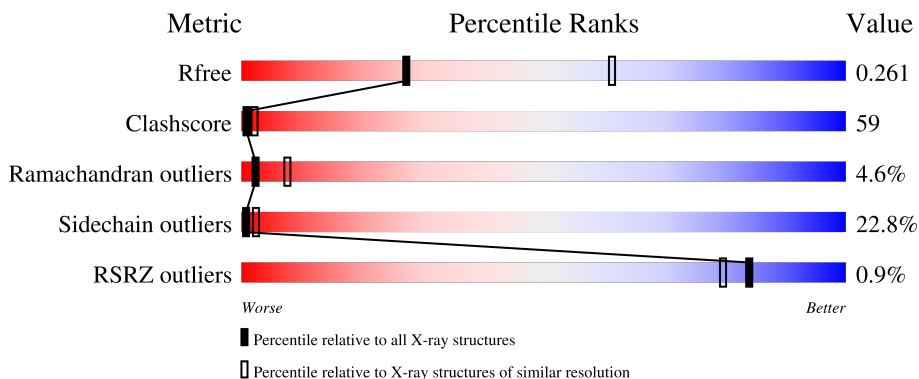
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	3140 (2.80-2.80)
Clashscore	141614	3569 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 17%; height: 10px; background-color: green;"></div> <div style="width: 40%; height: 10px; background-color: yellow;"></div> <div style="width: 16%; height: 10px; background-color: orange;"></div> <div style="width: 27%; height: 10px; background-color: grey;"></div> </div>
1	B	315	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 3%; height: 10px; background-color: red;"></div> <div style="width: 17%; height: 10px; background-color: green;"></div> <div style="width: 45%; height: 10px; background-color: yellow;"></div> <div style="width: 11%; height: 10px; background-color: orange;"></div> <div style="width: 27%; height: 10px; background-color: grey;"></div> </div>
1	K	315	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 14%; height: 10px; background-color: green;"></div> <div style="width: 47%; height: 10px; background-color: yellow;"></div> <div style="width: 11%; height: 10px; background-color: orange;"></div> <div style="width: 27%; height: 10px; background-color: grey;"></div> </div>
1	L	315	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 0%; height: 10px; background-color: red;"></div> <div style="width: 18%; height: 10px; background-color: green;"></div> <div style="width: 44%; height: 10px; background-color: yellow;"></div> <div style="width: 10%; height: 10px; background-color: orange;"></div> <div style="width: 27%; height: 10px; background-color: grey;"></div> </div>
2	C	1119	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 0%; height: 10px; background-color: red;"></div> <div style="width: 22%; height: 10px; background-color: green;"></div> <div style="width: 60%; height: 10px; background-color: yellow;"></div> <div style="width: 17%; height: 10px; background-color: orange;"></div> <div style="width: 0%; height: 10px; background-color: grey;"></div> </div>

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Mol	Chain	Length	Quality of chain
2	M	1119	<p>%</p> <p>25% 57% 17%</p>
3	D	1524	<p>%</p> <p>23% 51% 17% 9%</p>
3	N	1524	<p>%</p> <p>24% 51% 15% 9%</p>
4	E	99	<p>%</p> <p>22% 52% 20%</p>
4	O	99	<p>%</p> <p>28% 48% 19%</p>
5	F	423	<p>%</p> <p>19% 47% 14% 18%</p>
5	P	423	<p>%</p> <p>22% 49% 10% 18%</p>

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 58679 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 10797	C 6819	N 1925	O 2020	S 33	0	0	0
3	N	1392	Total 10797	C 6819	N 1925	O 2020	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
5	F	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			
5	P	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			

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

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

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

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

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	191	Total	O	0	0
			191	191		
8	B	181	Total	O	0	0
			181	181		
8	C	767	Total	O	0	0
			767	767		
8	D	1100	Total	O	0	0
			1100	1100		
8	E	93	Total	O	0	0
			93	93		
8	F	333	Total	O	0	0
			333	333		
8	K	151	Total	O	0	0
			151	151		
8	L	179	Total	O	0	0
			179	179		
8	M	739	Total	O	0	0
			739	739		

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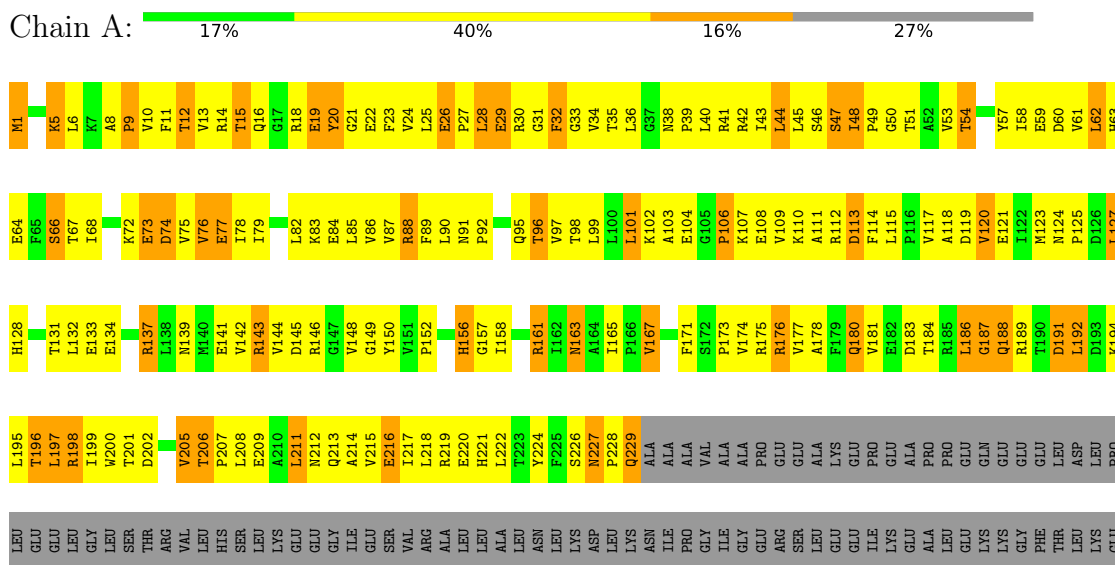
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>ZeroOcc</b>	<b>AltConf</b>
8	N	1038	Total 1038	O 1038	0	0
8	O	78	Total 78	O 78	0	0
8	P	267	Total 267	O 267	0	0

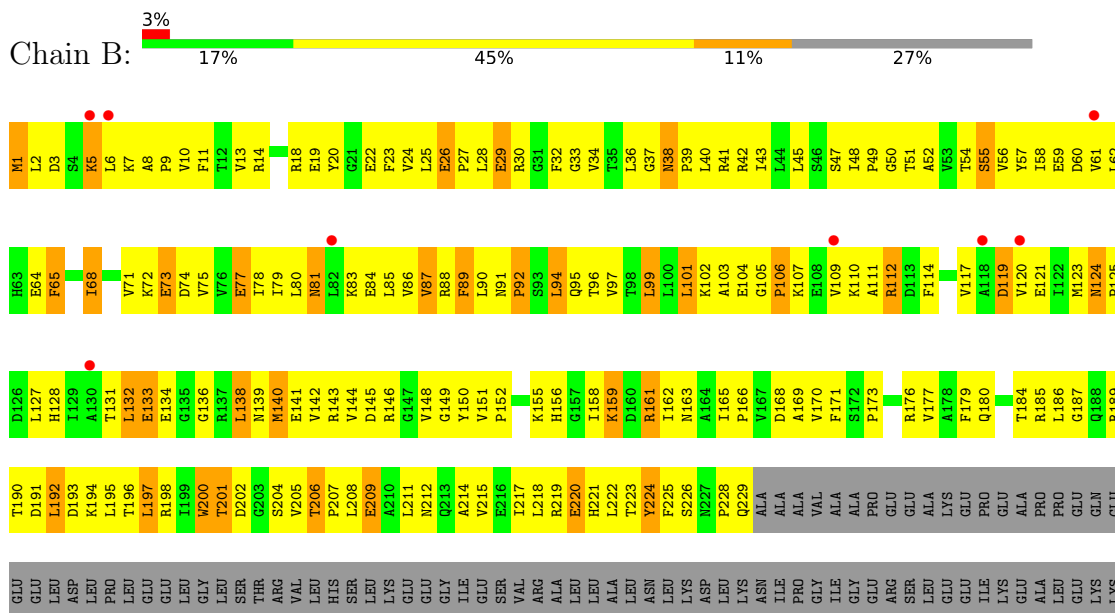
### 3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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



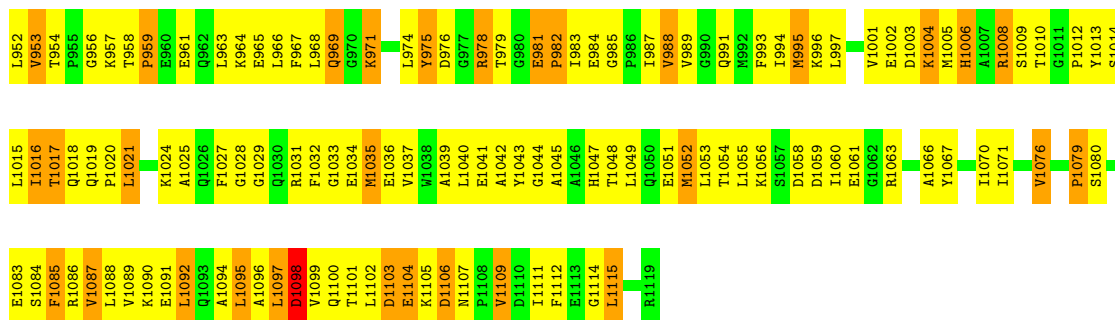
- Molecule 1: DNA-directed RNA polymerase alpha chain



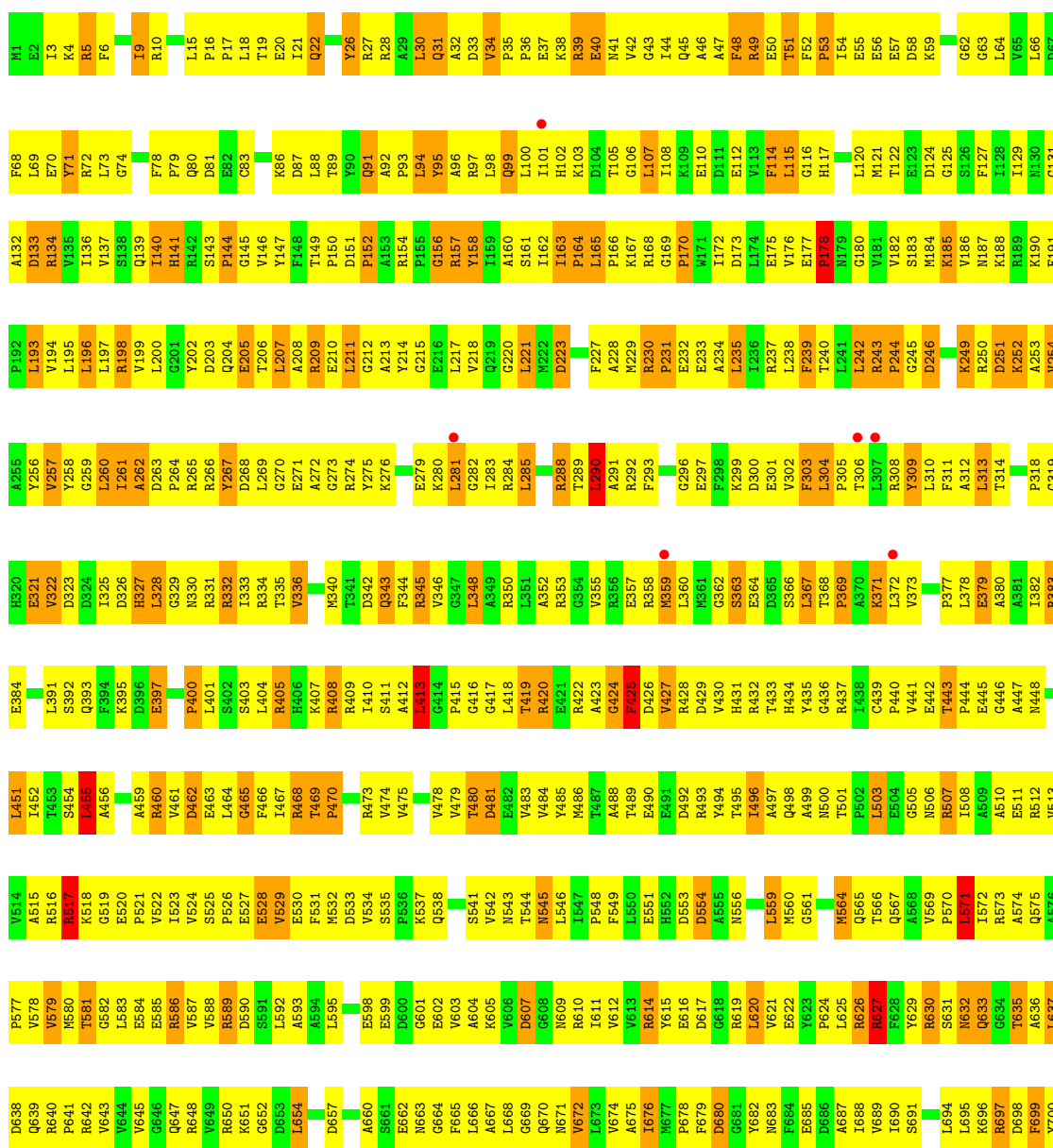


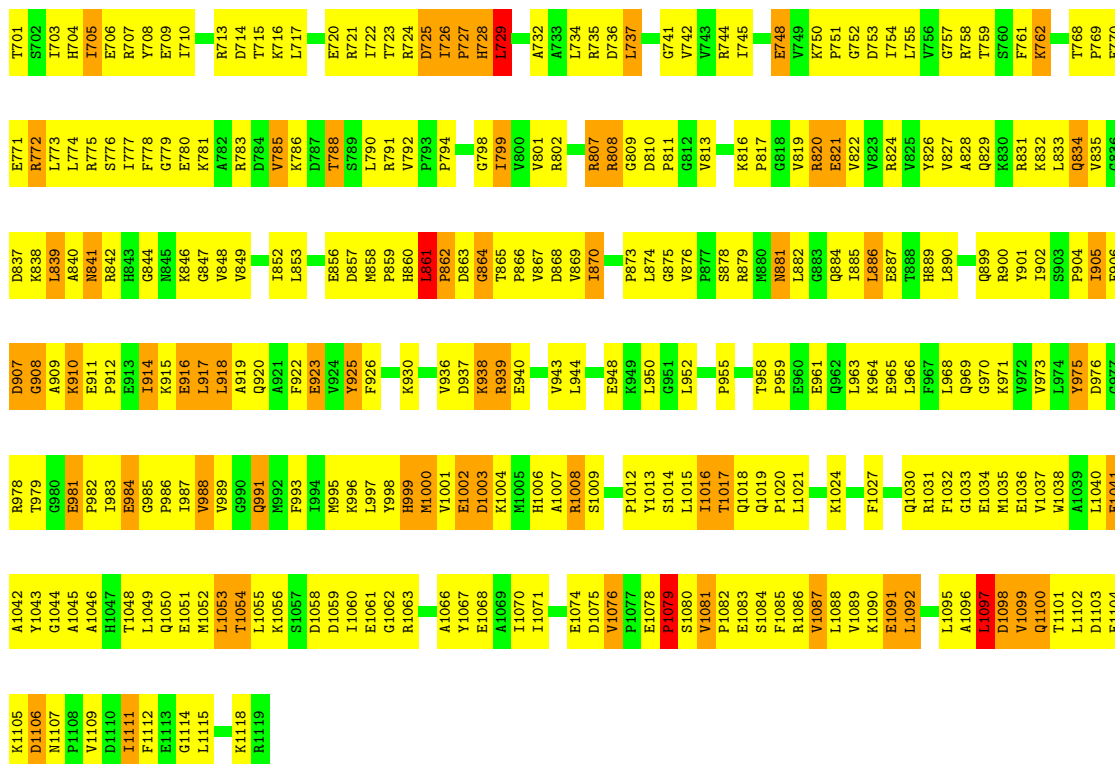


M1	E2	I3	K4	R5	F6	G7	R8	I9	R10	E11	V12	I13	F14	L15	P16	P17	L18	T19	E20	I21	Q22	V23	E24	S25	Y26	R27	R28	A29	L30	Q31	A32	D33	V34	P35	P36	E37	K38	R39	E40	N41	V42	Q43	G44	I44	Q45	T51	F52	P53	I54	E55	E56	E57	D58	K59								
G63	L64	V65	L66	D67	F68	L69	E70	Y71	R72	L73	G74	E75	F76	L77	F78	R79	Q80	D81	E82	C83	R84	L88	T89	Y90	Q91	A92	P93	L94	Y95	A96	R97	L98	P99	S100	L101	H102	K103	D104	T105	G106	L107	I108	K109	E110	D111	F112	V113	F114	L115	G116	H117	I118	P119	E120	M121	F122	E123	L124				
S126	S127	F128	I129	D133	R134	V135	L136	V137	S138	E139	I140	H141	R142	S143	P144	G145	V146	F148	T149	P150	L151	P152	Y153	R154	P155	G156	R157	Y158	I159	A160	S161	I162	I163	P164	L165	F166	G167	R168	G169	P170	W171	I172	D173	L174	E175	T236	V176	E177	F178	H179	G180	L241	V181	L242	V182	S183	K184	E185	V186			
M187	K188	R189	K190	L193	V194	L196	L197	R198	V199	L200	G201	Y202	D203	Y204	R205	T206	L207	R209	E210	L211	G212	A213	Y214	R215	E216	L217	V218	Q219	G220	L221	M222	D223	E224	S225	V226	F227	A228	N229	R230	P231	E232	E233	A234	L235	T236	L304	P305	L306	L307	R308	Y309	L310	F311	L312	A313	D246						
R250	D251	K252	A253	V254	A255	Y256	Y257	Y258	G259	L260	L261	A262	D263	Y264	R265	R266	D268	L269	E271	A272	G273	R274	Y275	K276	E279	R280	L281	G282	L283	L284	R285	S286	G287	R288	L289	L290	A291	R292	F293	K299	D300	E301	V302	F303	L304	P305	L306	L307	R308	Y309	L310	F311	L312	A313	D314							
V317	P318	R319	H320	E321	I325	D326	H327	L328	G329	R332	I333	R334	T335	V336	G337	E338	L339	M340	T341	A272	G273	R274	Y275	F344	R345	V346	G347	L348	A349	R350	L351	A352	V355	R356	E357	R358	M359	L360	M361	G362	S363	E364	D365	S366	L367	T368	P369	A370	K371	L372	Y373	N374	R375	S376	P377	L378	E379					
A380	A381	R382	R383	E384	F385	F386	R388	L391	S392	Q393	F394	K395	D396	E397	V398	N399	P400	L401	S402	F403	A272	G273	R274	Y275	R407	R408	G409	R410	L411	S411	A412	L413	G414	P415	T480	D481	G417	L418	T419	R420	E421	R422	F423	R428	T489	E490	D491	A492	H493	Y494	T495	L496	A497	Y498	Q499	R437	P440	V441	E442	L443		
P444	E445	G446	A447	N448	I449	G450	L451	T453	V454	A455	L456	A457	Y458	E459	R460	V461	D462	E463	S465	E466	E467	R468	T469	P470	Y471	R472	R473	R474	V474	V475	V478	G479	T480	D481	E482	V483	Y484	A485	M486	T487	A488	T489	E490	D491	A492	H493	Y494	T495	L496	A497	Y498	Q499	R437	P440	V441	E442	L443					
G505	N506	R507	I508	A509	A510	E511	V512	V513	V514	A515	R516	R517	K518	G519	E520	P521	R522	E523	V524	S525	P526	E527	E528	V529	E530	F531	M532	D533	V534	S535	P536	Q538	V542	T480	D481	E482	V483	Y484	A485	M486	T487	A488	T489	E490	D491	A492	H493	Y494	T495	L496	A497	Y498	Q499	R437	P440	V441	E442	L443				
A568	V569	P570	L571	D572	R573	A574	Q575	A576	P577	V578	V579	M580	L583	E584	E585	R586	V587	V588	R589	D590	S591	L592	L595	L596	Y597	E598	E599	S601	V602	A604	Q604	K605	V606	D607	G608	M609	R610	I611	V612	V613	R614	Y615	L620	V621	E622	Y623	P624	L625	R626	R627	F628	E629	R630	S631	N632	G633	Q634					
G634	T635	A636	L637	D638	Q639	R640	P641	R642	V643	V644	V645	G646	Q647	R648	V649	T710	E711	A712	R713	L714	L715	K716	L717	G718	F719	E720	R721	I722	E723	N663	G664	P665	L666	A667	H668	G669	Q670	M671	V672	A673	L734	R735	A675	D736	L737	D738	E739	E740	G741	V742	V743	R744	L745	D686	A687	E688	V749	K750	F751	N632	E692	E693
L684	L685	K686	R687	D688	F689	Y700	T701	S702	I703	H704	I705	E706	R707	Y708	E709	T710	E711	A712	R713	L714	L715	K716	L717	G718	F719	E720	R721	I722	E723	N663	G664	P665	L666	A667	H668	G669	Q670	M671	V672	A673	L734	R735	A675	D736	L737	D738	E739	E740	G741	V742	V743	R744	L745	D686	A687	E688	V749	K750	F751	N632	E692	E693
L754	L755	R756	T759	S760	F761	T768	F769	E770	E771	E772	R773	L774	R775	S776	I777	F778	G779	E780	K781	D784	V785	K786	D787	T788	S789	E790	L791	R792	F793	P794	G798	D799	R800	T803	H804	R805	L808	S809	P810	P811	C812	V813	E814	L815	R816	R817	L818	C818	N819	L820	L821	L822	L823	L824								
V825	Y826	R827	A828	R831	K832	L833	Q834	R835	G836	R900	Y901	D837	K838	L839	R840	N841	R842	H843	G844	R845	K846	G847	V848	V849	L853	R854	V855	E856	D857	R858	R859	R860	L861	P862	D863	E864	T865	P866	D868	R869	I870	L871	N872	R873	L874	G875	R876	P877	S878	R879	M880	N881	L882	G883	Q884	R885	L886	L887	E887			
L890	G891	L892	V895	F896	L897	G898	R899	R900	Y901	D902	K903	L898	R840	N841	R842	H843	G844	R845	K846	G847	V848	V849	L853	R854	V855	E856	D857	R858	R859	R860	L861	P862	D863	E864	T865	P866	D868	R869	I870	L871	N872	R873	L874	G875	R876	P877	S878	R879	M880	N881	L882	G883	Q884	R885	L886	L887	E887					
R930	G931	E932	G933	F934	D937	R938	R939	E940	I941	E942	V943	L944	R945	R946	E947	R948	R949	L950	E951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991			

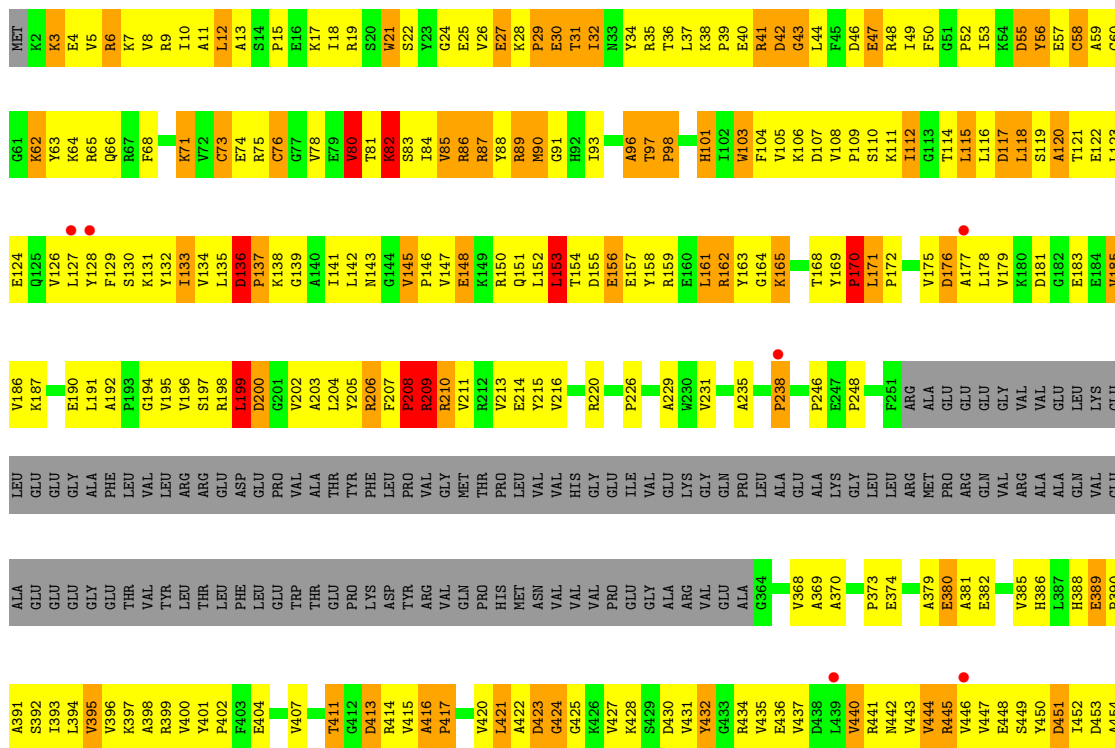


• Molecule 2: DNA-directed RNA polymerase beta chain





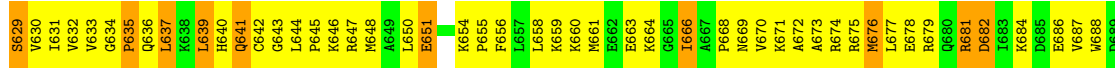
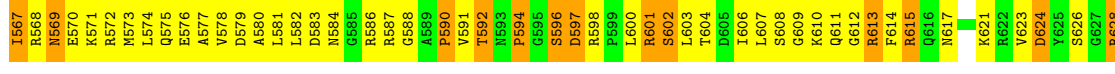
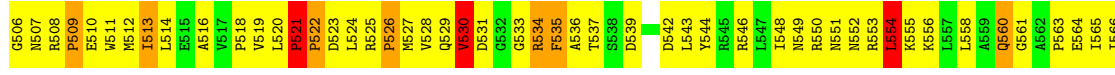
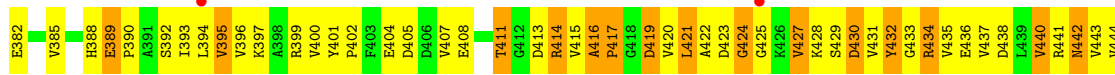
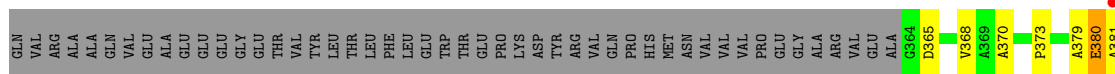
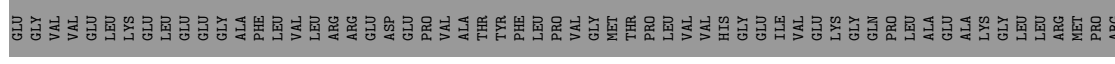
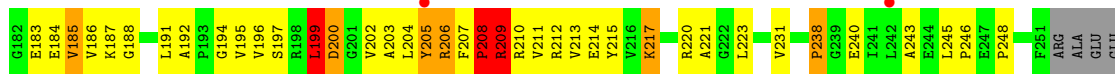
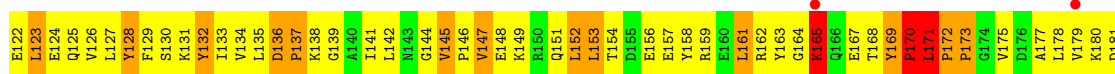
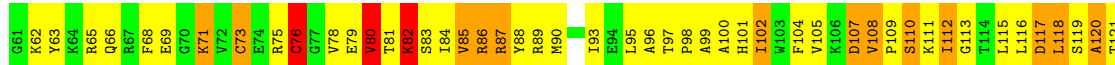
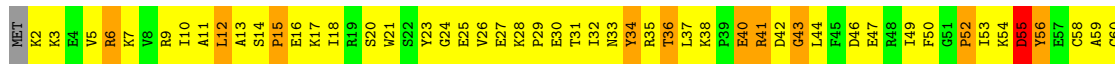
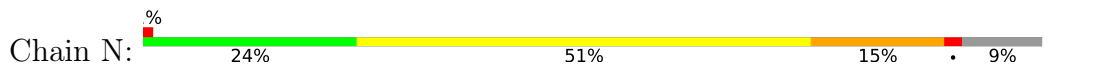
• Molecule 3: DNA-directed RNA polymerase beta' chain



E1351	E1352	K1289	L1156	L1094	Q1033	L964	I900	G831	N768	N703	E576	Q641	E577	A516	R455
K1352	L1157	T1095	G1156	T1096	Q1034	E965	Q901	R832	L769	R704	A577	C642	A578	V517	M456
K1353	L1158	K1097	L1035	K1098	I1036	E966	I902	E833	L770	A705	P518	G643	P519	P519	E459
L1224	R1159	R1099	R1036	L1160	Q1037	A967	D903	T834	S771	P706	L581	L644	L520	A460	A460
L1293	E1161	V1099	L1160	L1098	Q1038	D968	P904	S835	A772	T707	L582	G646	L582	P521	I461
L1294	E1162	D1100	C1039	V1099	C1039	K970	Q906	G837	S774	L708	D583	R647	Q462	P522	Q462
L1295	G1163	V1101	G1040	V1102	G1040	L971	E907	R838	G775	R710	M584	M648	Q463	D523	Q463
F1299	R1164	T1102	L1041	L1098	L1042	L972	R908	R839	E776	L711	P590	P655	L464	V590	L471
L1300	Y1165	H1103	R1042	H1103	G1043	Q973	N909	R340	P777	G712	M593	P656	A472	D531	E472
K1301	L1166	H1104	L1043	H1104	G1043	Q974	R910	R341	L778	I713	C532	L657	L473	C532	L473
K1302	S1167	L1105	L1044	L1105	E975	E975	R911	V842	A779	Q714	R587	L652	L474	G533	L474
K1303	M1168	V1106	M1045	V1106	Q976	Q976	K912	F843	K780	A715	R591	F653	E474	R534	E474
L1304	D1169	V1107	Q1046	V1107	A977	A977	D913	A844	K780	F716	Q529	K654	K475	R585	K475
L1305	D1170	R1108	K1047	R1108	Y978	Y978	R914	D847	R783	Q717	T592	P655	E476	V592	E476
L1306	V1171	E1109	P1048	E1109	E979	E979	V915	E847	D784	F718	T592	P656	L477	D531	L477
L1307	L1174	A1110	S1049	A1110	M980	M980	Y916	E848	I785	V719	C532	L657	L478	G533	L478
L1308	L1175	D1111	G1050	D1111	G1050	G1050	Q917	A849	I786	L720	R601	L658	E479	R534	E479
L1309	I1176	K1112	E1051	K1112	E1051	E1051	A918	L850	L787	V721	B597	K659	K475	R534	E479
L1310	K1177	G1113	T1052	G1113	R986	R986	F919	L851	G788	E722	R598	K660	K476	R585	K476
L1311	A1178	T1114	F1053	T1114	R988	R988	L920	A852	G788	G723	P599	M661	K477	T537	L477
L1312	L1179	G1115	E1054	G1115	R921	R921	L922	V853	Y791	Q724	L600	E662	L478	S538	L478
L1313	E1182	T1116	V1055	T1116	V1055	V1055	R922	R852	Y791	S725	R602	E663	E479	D539	E479
L1314	I1183	Y1117	P1056	Y1117	P1056	P1056	G923	I857	I792	I726	S603	L666	E480	L540	E480
L1315	Q1184	S1119	Q994	S1119	Q994	Q994	E925	D859	Q794	L728	T604	A667	E481	M541	E481
L1316	E1185	L1120	S1059	L1120	S1059	S1059	R926	L860	V795	H729	D605	P668	E482	D542	E482
L1317	V1186	P1121	S1060	P1121	S1060	S1060	R927	L861	R796	R730	T606	M669	E483	L543	E483
L1318	L1187	F1122	F1061	L1187	F1061	F1061	A928	D862	K797	L731	L607	V670	E484	V544	E484
L1319	V1188	F1123	R1062	V1188	R1062	R1062	R929	V863	E788	R662	S608	K671	E485	R545	E485
L1320	L1189	Q1124	E1063	L1189	Q1124	Q1124	T999	V864	K799	E734	S609	A672	E486	R546	E486
L1321	R1189	P1125	G1064	R1189	P1125	P1125	L931	T865	K800	A735	R610	A673	E487	L547	E487
L1322	S1190	E1001	L1065	S1190	L1065	L1065	E936	V866	F736	Q611	Q611	A674	E488	L548	E488
L1323	P1191	T1066	T1066	T1066	T1066	T1066	Y936	R867	G803	R675	M549	R675	E489	M549	E489
L1324	L1192	K1002	V1067	L1192	K1002	K1002	Y937	V868	L804	A738	R613	R613	E490	R613	E490
L1325	Q1195	V1003	V1003	V1003	V1003	V1003	F937	M869	E805	F614	N551	F614	E491	N551	E491
L1326	R1196	A1006	E1069	R1196	A1006	A1006	F939	E874	F806	F740	R615	E678	E492	N552	E492
L1327	L1197	V1007	Y1070	L1197	V1007	V1007	T940	T875	A807	D741	Q616	R679	E493	R553	E493
L1328	Y1198	F1008	F1071	Y1198	F1008	F1008	F941	T876	T808	Q744	M617	Q650	E494	L554	E494
L1329	L1199	K1009	S942	L1199	K1009	K1009	S942	S876	P809	Q745	L618	L554	E495	K555	E495
L1330	G1199	M1010	S1073	G1199	M1010	M1010	T943	P877	E810	M745	L619	K556	E496	K556	E496
L1331	V1200	F1011	S1073	V1200	F1011	F1011	T944	C878	E811	V745	L619	L557	E497	L557	E497
L1332	C1201	E1012	S1074	C1201	E1012	E1012	S945	R879	A812	V749	R622	D684	E498	L558	E498
L1333	Q1202	E1013	H1075	Q1202	E1013	E1013	G946	T880	L813	D685	V499	D685	E499	A559	E499
L1334	K1203	M1014	A1077	K1203	M1014	M1014	Y947	A883	L814	S752	Q660	E686	E500	Q660	E500
L1335	C1204	Y1015	K1079	C1204	Y1015	Y1015	T948	R884	E817	F754	Y625	V687	E501	G561	E501
L1336	Y1205	P1019	L1020	Y1205	P1019	P1019	T948	R884	E817	F754	Y625	V687	E502	G561	E502
L1337	G1206	L1020	A1085	G1206	L1020	L1020	Y951	E888	R818	A755	R628	D689	E503	P563	E503
L1338	Y1207	L1021	D1083	Y1207	L1021	L1021	D952	A889	G819	Q756	E564	A690	E504	E564	E504
L1339	D1208	Y1145	T1084	D1208	Y1145	Y1145	Y955	V890	E820	A757	I565	I691	E505	I565	E505
L1340	M1210	G1145	L1084	M1210	G1145	G1145	Y955	V890	E820	E758	I566	I691	E506	I566	E506
L1341	M1211	Y1145	T1084	M1211	Y1145	Y1145	Y955	V890	E820	E758	I566	I691	E507	I566	E507
L1342	M1211	G1146	A1085	M1211	G1146	G1146	Y955	V890	E820	E758	I566	I691	E508	I566	E508
L1343	A1212	R1147	L1086	A1212	R1147	R1147	Y956	V890	E820	E758	I566	I691	E509	I566	E509
L1344	R1213	V1148	L1087	R1213	V1148	V1148	Y957	V890	E820	E758	I566	I691	E510	I566	E510
L1345	L1214	L1088	L1088	L1214	L1088	L1088	Y958	V890	E820	E758	I566	I691	E511	I566	E511
L1346	Y1215	R1151	A1089	Y1215	R1151	R1151	Y959	V890	E820	E758	I566	I691	E512	I566	E512
L1347	S1216	E1152	D1090	L1347	S1216	L1347	Y960	V890	E820	E758	I566	I691	E513	I566	E513
L1348	I1217	V1153	G1091	L1348	I1217	L1348	Y961	V890	E820	E758	I566	I691	E514	I566	E514
L1349	G1218	V1153	S1092	L1349	G1218	L1349	Y962	V890	E820	E758	I566	I691	E515	I566	E515
L1350	E1219	V1155	Y1093	L1350	E1219	L1350	Y963	V890	E820	E758	I566	I691	E516	I566	E516



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











## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.80 24.96 – 2.80	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.80) 92.0 (24.96-2.80)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.16 (at 2.80Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.231 , 0.268 0.227 , 0.261	Depositor DCC
$R_{free}$ test set	21166 reflections (5.78%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	58.9	Xtrriage
Anisotropy	0.079	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 79.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.24$	Xtrriage
Estimated twinning fraction	0.499 for -h,-k,l 0.068 for h,-h-k,-l 0.068 for -k,-h,-l	Xtrriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	58679	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 1.92% 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 i

### 5.1 Standard geometry i

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 5$	RMSZ	# $ Z  > 5$
1	A	0.80	1/1838 (0.1%)	0.88	1/2498 (0.0%)
1	B	0.75	0/1838	0.82	2/2498 (0.1%)
1	K	0.75	0/1838	0.86	2/2498 (0.1%)
1	L	0.72	0/1838	0.78	1/2498 (0.0%)
2	C	0.84	0/8997	0.90	8/12164 (0.1%)
2	M	0.82	0/8997	0.89	7/12164 (0.1%)
3	D	0.84	0/10975	0.94	20/14836 (0.1%)
3	N	0.83	0/10975	0.93	18/14836 (0.1%)
4	E	0.84	0/783	0.97	0/1054
4	O	0.88	0/783	1.00	1/1054 (0.1%)
5	F	0.75	0/2812	0.82	3/3781 (0.1%)
5	P	0.75	0/2812	0.80	1/3781 (0.0%)
All	All	0.82	1/54486 (0.0%)	0.90	64/73662 (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	N	0	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	48	ILE	C-N	5.57	1.44	1.34

All (64) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	199	LEU	CA-CB-CG	-8.69	95.30	115.30
1	B	138	LEU	CA-CB-CG	8.01	133.72	115.30
3	N	1389	LEU	CA-CB-CG	7.77	133.18	115.30
5	P	136	LEU	CA-CB-CG	7.49	132.51	115.30
3	N	76	CYS	CA-CB-SG	6.73	126.11	114.00
3	D	80	VAL	C-N-CA	6.66	138.36	121.70
3	N	199	LEU	CA-CB-CG	-6.61	100.09	115.30
1	K	211	LEU	CA-CB-CG	6.60	130.48	115.30
2	M	207	LEU	CA-CB-CG	6.53	130.32	115.30
3	D	73	CYS	CA-CB-SG	6.43	125.57	114.00
3	D	813	LEU	CA-CB-CG	6.40	130.02	115.30
3	D	708	LEU	CA-CB-CG	-6.38	100.62	115.30
1	A	192	LEU	CA-CB-CG	6.14	129.43	115.30
3	N	80	VAL	C-N-CA	6.05	136.82	121.70
2	C	98	LEU	CA-CB-CG	6.02	129.15	115.30
5	F	136	LEU	CA-CB-CG	5.96	129.01	115.30
5	F	354	LEU	CA-CB-CG	5.96	129.00	115.30
3	D	238	PRO	N-CA-CB	5.94	110.43	103.30
1	K	45	LEU	CA-CB-CG	-5.94	101.65	115.30
3	D	1209	LEU	N-CA-C	-5.90	95.06	111.00
3	N	380	GLU	N-CA-C	-5.90	95.07	111.00
3	D	1395	LEU	CA-CB-CG	5.89	128.84	115.30
3	N	1209	LEU	N-CA-C	-5.88	95.13	111.00
2	M	571	LEU	CA-CB-CG	5.86	128.78	115.30
3	N	705	ALA	C-N-CD	5.82	140.62	128.40
2	M	165	LEU	C-N-CD	-5.82	107.80	120.60
4	O	54	LEU	CA-CB-CG	5.74	128.51	115.30
3	N	238	PRO	N-CA-CB	5.74	110.19	103.30
3	D	208	PRO	CA-N-CD	-5.65	103.59	111.50
3	N	972	LEU	CA-CB-CG	5.59	128.16	115.30
2	C	243	ARG	C-N-CD	-5.53	108.43	120.60
2	C	858	MET	CA-CB-CG	5.53	122.70	113.30
3	D	380	GLU	N-CA-C	-5.51	96.11	111.00
2	C	1098	ASP	CB-CG-OD1	5.51	123.26	118.30
3	N	171	LEU	CA-CB-CG	5.51	127.97	115.30
2	C	882	LEU	CA-CB-CG	-5.50	102.65	115.30
3	D	1389	LEU	CA-CB-CG	5.46	127.87	115.30
3	D	839	LEU	CA-CB-CG	5.46	127.85	115.30
3	N	73	CYS	CA-CB-SG	5.46	123.82	114.00
3	D	248	PRO	N-CA-CB	5.45	109.84	103.30
3	N	1290	LEU	CA-CB-CG	5.45	127.84	115.30
3	D	80	VAL	CA-C-N	-5.45	105.22	117.20
2	C	620	LEU	CA-CB-CG	5.43	127.80	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	60	CYS	CA-CB-SG	5.39	123.71	114.00
1	B	132	LEU	CA-CB-CG	5.39	127.70	115.30
3	N	209	ARG	N-CA-C	5.36	125.48	111.00
3	N	554	LEU	CA-CB-CG	5.35	127.61	115.30
3	N	637	LEU	CA-CB-CG	5.34	127.58	115.30
3	N	248	PRO	N-CA-CB	5.30	109.66	103.30
3	N	208	PRO	CA-N-CD	-5.24	104.17	111.50
3	D	209	ARG	N-CA-C	5.21	125.06	111.00
2	M	729	LEU	N-CA-C	5.17	124.97	111.00
2	M	243	ARG	C-N-CD	-5.17	109.22	120.60
2	M	726	ILE	CG1-CB-CG2	-5.10	100.18	111.40
3	D	226	PRO	N-CA-CB	5.09	109.41	103.30
1	L	132	LEU	CA-CB-CG	5.09	127.00	115.30
2	C	58	ASP	C-N-CA	5.08	134.40	121.70
3	D	153	LEU	CA-CB-CG	5.07	126.95	115.30
3	N	434	ARG	NE-CZ-NH1	5.06	122.83	120.30
3	D	21	TRP	CA-CB-CG	5.05	123.29	113.70
5	F	361	LEU	CA-CB-CG	5.04	126.90	115.30
2	C	729	LEU	N-CA-C	5.03	124.58	111.00
3	D	423	ASP	N-CA-C	5.02	124.55	111.00
2	M	861	LEU	CA-CB-CG	5.01	126.82	115.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
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	216	0
1	B	1806	0	1861	199	0
1	K	1806	0	1861	208	0
1	L	1806	0	1861	206	0
2	C	8829	0	8933	1184	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	M	8829	0	8933	1106	0
3	D	10797	0	10873	1450	0
3	N	10797	0	10873	1345	0
4	E	769	0	775	97	0
4	O	769	0	775	108	0
5	F	2771	0	2844	336	0
5	P	2771	0	2844	342	0
6	D	2	0	0	0	0
6	N	2	0	0	0	0
7	D	1	0	0	0	0
7	N	1	0	0	0	0
8	A	191	0	0	37	0
8	B	181	0	0	34	0
8	C	767	0	0	174	0
8	D	1100	0	0	234	0
8	E	93	0	0	14	0
8	F	333	0	0	58	0
8	K	151	0	0	30	0
8	L	179	0	0	49	0
8	M	739	0	0	195	0
8	N	1038	0	0	225	0
8	O	78	0	0	24	0
8	P	267	0	0	61	0
All	All	58679	0	54294	6401	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 59.

All (6401) 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)
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.28	1.11
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.12	1.08
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.36	1.04
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.14	1.04
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.20	1.04
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.16	1.02
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.42	1.02
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.41	1.02
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.42	1.01
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.26	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:THR:HG23	2:C:981:GLU:H	1.26	1.00
2:C:328:LEU:HD13	2:C:433:THR:HB	1.41	0.99
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.40	0.99
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.41	0.99
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.41	0.98
2:M:409:ARG:HA	2:M:454:SER:HA	1.44	0.98
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.45	0.98
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.44	0.98
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.46	0.98
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.27	0.97
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.47	0.97
2:C:281:LEU:HD11	2:C:306:THR:HA	1.47	0.97
3:D:141:ILE:HG12	3:D:449:SER:HA	1.46	0.97
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.30	0.96
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.46	0.96
5:P:347:GLN:HA	5:P:350:LEU:HD22	1.47	0.96
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.45	0.96
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.46	0.96
1:K:89:PHE:HB2	1:K:94:LEU:HD13	1.48	0.96
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.27	0.95
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.29	0.95
2:M:405:ARG:HG2	2:M:409:ARG:HH21	1.29	0.95
2:C:719:PRO:HB3	2:C:820:ARG:HE	1.29	0.95
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.47	0.95
2:C:332:ARG:HH11	2:C:332:ARG:HB3	1.32	0.95
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.45	0.95
5:P:164:LYS:HA	5:P:171:LYS:HE2	1.49	0.94
2:C:1090:LYS:HZ2	3:D:90:MET:HG3	1.31	0.93
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.48	0.93
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.50	0.93
1:A:95:GLN:HG2	1:A:146:ARG:HH22	1.33	0.93
2:C:517:ARG:HH11	2:C:522:VAL:HG11	1.33	0.93
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.46	0.93
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.33	0.93
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.50	0.93
2:M:564:MET:HG3	2:M:997:LEU:HD21	1.50	0.93
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.51	0.93
3:D:493:ARG:HH21	3:D:1388:ARG:HB3	1.30	0.93
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.51	0.92
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.52	0.92
3:N:500:ARG:HH12	3:N:1388:ARG:HH11	1.13	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:698:LYS:HA	3:D:756:GLN:HE22	1.32	0.92
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.51	0.92
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.32	0.92
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.52	0.92
1:K:19:GLU:HB3	1:K:175:ARG:HH22	1.34	0.92
1:B:179:PHE:HB3	1:B:197:LEU:HD12	1.51	0.91
4:O:47:LYS:HA	8:O:4983:HOH:O	1.68	0.91
3:D:1066:THR:HG23	3:D:1069:GLU:H	1.34	0.91
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.51	0.91
3:D:400:VAL:HG21	3:D:441:ARG:HH11	1.35	0.91
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.51	0.91
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.51	0.91
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.34	0.91
1:K:227:ASN:HD22	1:K:227:ASN:H	1.15	0.91
5:P:266:GLU:HA	5:P:269:ASN:HD22	1.35	0.91
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.51	0.91
2:C:282:GLY:HA2	2:C:308:ARG:HH22	1.32	0.90
3:D:143:ASN:HD21	3:D:145:VAL:HG12	1.35	0.90
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.53	0.90
2:C:724:ARG:HG3	2:C:741:GLY:H	1.36	0.90
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.54	0.90
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.53	0.90
2:M:1111:ILE:HD12	2:M:1112:PHE:H	1.36	0.90
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.53	0.90
2:C:274:ARG:HD2	2:C:285:LEU:HB3	1.53	0.90
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.53	0.90
2:C:860:HIS:HB2	8:C:1175:HOH:O	1.72	0.89
5:F:392:VAL:HG11	5:F:396:ARG:HD2	1.55	0.89
3:N:9:ARG:HH12	3:N:506:GLY:HA2	1.37	0.89
3:N:131:LYS:HG3	3:N:568:ARG:HG2	1.53	0.89
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.55	0.89
2:C:905:ILE:HD12	2:C:905:ILE:H	1.37	0.89
3:D:493:ARG:NH2	3:D:1388:ARG:HB3	1.87	0.89
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.53	0.89
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.54	0.89
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.37	0.89
3:D:119:SER:HB2	3:D:123:LEU:H	1.38	0.88
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.53	0.88
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.55	0.88
2:M:979:THR:HG23	2:M:981:GLU:H	1.38	0.88
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.54	0.88
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.56	0.88
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.56	0.88
3:N:699:VAL:H	3:N:756:GLN:NE2	1.72	0.88
1:L:126:ASP:HA	8:L:4849:HOH:O	1.72	0.88
3:N:565:ILE:H	3:N:565:ILE:HD12	1.39	0.88
3:N:141:ILE:HG12	3:N:449:SER:HA	1.54	0.88
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.54	0.87
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.56	0.87
5:F:76:SER:O	5:F:80:PRO:HD2	1.73	0.87
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.56	0.87
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.55	0.87
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.57	0.87
2:C:1095:LEU:HD11	3:D:607:LEU:HD11	1.54	0.87
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.54	0.87
2:M:689:VAL:HB	2:M:870:ILE:HG13	1.56	0.87
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.40	0.87
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.57	0.86
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.58	0.86
3:D:1087:ARG:HG2	3:D:1234:THR:HA	1.54	0.86
3:N:536:ALA:HA	5:P:315:VAL:H	1.40	0.86
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.55	0.86
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.57	0.86
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.39	0.86
2:M:614:ARG:HD2	2:M:620:LEU:HD12	1.54	0.86
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.58	0.86
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.57	0.85
2:C:376:ARG:HH22	5:F:285:GLU:HB3	1.40	0.85
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.58	0.85
3:N:1314:LYS:HZ3	3:N:1317:ASP:H	1.22	0.85
3:N:838:ARG:HA	8:N:9349:HOH:O	1.76	0.85
2:C:145:GLY:H	2:C:163:ILE:HG23	1.41	0.85
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.57	0.85
1:A:54:THR:HG23	1:A:158:ILE:HG13	1.59	0.85
3:D:1330:ILE:HA	8:D:9063:HOH:O	1.75	0.85
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.59	0.85
3:D:667:ALA:HB2	3:D:676:MET:HE2	1.58	0.85
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.39	0.85
2:M:772:ARG:HD2	5:P:373:LYS:HD2	1.59	0.85
2:C:701:THR:HG23	2:C:832:LYS:HG3	1.59	0.85
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.22	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.55	0.85
8:C:1350:HOH:O	3:D:532:GLY:HA2	1.76	0.85
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.58	0.85
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.60	0.84
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.57	0.84
1:A:145:ASP:HB3	8:A:330:HOH:O	1.76	0.84
3:D:615:ARG:HH21	3:D:619:LEU:HD12	1.40	0.84
3:N:971:LEU:HA	3:N:974:ILE:HD12	1.59	0.84
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.58	0.84
1:B:103:ALA:HB1	1:B:107:LYS:HE3	1.57	0.84
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.59	0.84
2:C:768:THR:HB	2:C:771:GLU:HB3	1.60	0.84
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.58	0.84
1:A:206:THR:HG22	1:A:209:GLU:H	1.43	0.84
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.57	0.84
5:P:132:ARG:HH21	5:P:184:ARG:HH12	1.25	0.84
1:A:95:GLN:HA	1:A:146:ARG:NH1	1.92	0.84
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.77	0.84
1:L:180:GLN:HB2	1:L:198:ARG:HH22	1.43	0.84
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.59	0.84
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.60	0.83
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.61	0.83
2:C:724:ARG:HH12	2:C:734:LEU:HD23	1.42	0.83
3:D:397:LYS:HE2	3:D:399:ARG:HE	1.44	0.83
5:P:358:LEU:HD13	5:P:370:LYS:HG3	1.59	0.83
2:C:126:SER:HB3	2:C:407:LYS:HE3	1.60	0.83
1:K:24:VAL:HG22	1:K:196:THR:HB	1.58	0.83
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.60	0.83
2:M:710:ILE:HB	2:M:790:LEU:HD12	1.58	0.83
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.44	0.83
2:C:500:ASN:HD21	3:D:1067:VAL:HG23	1.42	0.83
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.60	0.83
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.60	0.83
1:K:78:ILE:HA	1:K:81:ASN:ND2	1.93	0.83
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.59	0.83
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.61	0.83
1:K:89:PHE:HZ	1:K:146:ARG:HB2	1.43	0.83
3:N:212:ARG:HD3	3:N:445:ARG:HH12	1.43	0.83
3:D:658:LEU:HA	3:D:661:MET:HE3	1.60	0.83
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.61	0.83
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:380:ALA:HA	2:M:383:ARG:HD2	1.61	0.83
3:N:704:ARG:HD2	3:N:705:ALA:H	1.43	0.83
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.60	0.82
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.61	0.82
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.44	0.82
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.78	0.82
3:N:139:GLY:HA3	3:N:452:ILE:HD12	1.62	0.82
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.59	0.82
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.62	0.82
2:M:534:VAL:H	2:M:538:GLN:HE22	1.27	0.82
3:N:422:ALA:H	3:N:427:VAL:HG11	1.44	0.82
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.61	0.82
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.58	0.82
2:M:1009:SER:HB2	3:N:651:GLU:O	1.80	0.82
3:N:907:GLU:HA	8:N:9094:HOH:O	1.78	0.82
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.60	0.82
2:C:25:SER:HB2	2:C:335:THR:HB	1.62	0.82
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.62	0.82
2:M:1051:GLU:HG2	2:M:1056:LYS:HE3	1.61	0.82
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.95	0.82
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.60	0.82
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.62	0.81
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.45	0.81
2:M:905:ILE:H	2:M:905:ILE:HD12	1.43	0.81
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.44	0.81
2:C:802:ARG:HG2	2:C:826:TYR:HB2	1.62	0.81
3:D:785:ILE:H	3:D:785:ILE:HD12	1.44	0.81
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.45	0.81
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.61	0.81
3:N:420:VAL:HA	5:P:164:LYS:HD3	1.61	0.81
3:D:1209:LEU:HD13	3:D:1211:MET:HE1	1.60	0.81
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.62	0.81
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.61	0.81
3:D:1310:ARG:H	3:D:1310:ARG:HD3	1.46	0.81
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.94	0.81
2:C:313:LEU:HA	2:C:321:GLU:HG3	1.63	0.81
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.62	0.81
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.61	0.81
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.80	0.81
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.62	0.81
2:M:328:LEU:HD22	2:M:433:THR:HG22	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.62	0.81
3:N:658:LEU:HA	3:N:661:MET:HE3	1.63	0.81
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.61	0.81
4:O:12:MET:HB3	8:O:3864:HOH:O	1.81	0.80
2:C:367:LEU:HD22	2:C:371:LYS:HG2	1.63	0.80
3:D:611:GLN:HA	3:D:615:ARG:HD2	1.62	0.80
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.64	0.80
3:N:865:THR:HG23	3:N:874:GLU:HG3	1.63	0.80
3:D:87:ARG:HA	8:D:9040:HOH:O	1.81	0.80
1:L:32:PHE:HB2	8:L:4886:HOH:O	1.81	0.80
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.63	0.80
3:N:500:ARG:NH1	3:N:1388:ARG:HH11	1.79	0.80
2:C:281:LEU:HD12	2:C:309:TYR:HB2	1.63	0.80
3:N:850:LEU:H	3:N:850:LEU:HD12	1.46	0.80
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.46	0.80
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.61	0.80
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.62	0.80
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.63	0.80
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.64	0.80
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.61	0.80
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.63	0.80
2:C:611:ILE:HD11	2:C:625:LEU:HD11	1.62	0.80
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.81	0.80
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.46	0.80
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.45	0.79
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.79
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.64	0.79
3:D:1350:GLU:HG3	3:D:1354:LYS:HE3	1.65	0.79
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.64	0.79
2:C:719:PRO:HB3	2:C:820:ARG:NE	1.96	0.79
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.65	0.79
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.65	0.79
3:D:546:ARG:O	3:D:550:ARG:HG2	1.81	0.79
2:C:772:ARG:HG2	5:F:378:GLY:HA2	1.64	0.79
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.65	0.79
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.64	0.79
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.62	0.79
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.63	0.79
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.65	0.79
2:M:244:PRO:HD2	2:M:245:GLY:H	1.48	0.79
3:N:53:ILE:HG23	3:N:54:LYS:H	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:470:LEU:HD23	3:N:470:LEU:H	1.46	0.79
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.64	0.79
1:L:219:ARG:HB3	1:L:219:ARG:HH11	1.48	0.79
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.64	0.78
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.48	0.78
3:N:615:ARG:HH11	3:N:615:ARG:HB2	1.46	0.78
2:C:1090:LYS:NZ	3:D:90:MET:HG3	1.97	0.78
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.64	0.78
2:M:242:LEU:HB3	8:M:1549:HOH:O	1.83	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78
1:B:13:VAL:HG23	8:B:493:HOH:O	1.82	0.78
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.63	0.78
2:M:670:GLN:O	2:M:672:VAL:HG12	1.83	0.78
2:M:752:GLY:H	2:M:792:VAL:HB	1.45	0.78
2:C:1009:SER:HA	8:D:9195:HOH:O	1.82	0.78
2:M:397:GLU:H	2:M:633:GLN:NE2	1.81	0.78
2:C:71:TYR:HB2	8:C:1125:HOH:O	1.82	0.78
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.18	0.78
2:M:413:LEU:H	2:M:413:LEU:HD12	1.48	0.78
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.64	0.78
2:C:413:LEU:H	2:C:413:LEU:HD12	1.46	0.78
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.49	0.78
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.66	0.78
3:D:86:ARG:O	3:D:522:PRO:HD2	1.83	0.78
3:D:152:LEU:HD23	3:D:152:LEU:H	1.48	0.78
3:D:422:ALA:H	3:D:427:VAL:HG11	1.48	0.78
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.64	0.78
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.64	0.78
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.66	0.78
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.66	0.78
2:C:876:VAL:HA	8:C:1494:HOH:O	1.84	0.78
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.83	0.78
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.84	0.78
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.65	0.78
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.65	0.78
4:O:51:LEU:HG	4:O:53:GLY:H	1.49	0.78
1:A:175:ARG:HH11	1:A:202:ASP:HA	1.49	0.77
1:K:25:LEU:HD23	1:K:28:LEU:HD11	1.64	0.77
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.66	0.77
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.66	0.77
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.66	0.77
2:M:1021:LEU:HD21	5:P:332:PHE:HA	1.66	0.77
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.66	0.77
2:C:468:ARG:HG2	8:C:1431:HOH:O	1.82	0.77
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.65	0.77
2:C:30:LEU:HB3	2:C:44:ILE:HD12	1.67	0.77
2:C:678:PRO:O	3:D:943:THR:HA	1.84	0.77
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.67	0.77
2:M:250:ARG:HG2	2:M:253:ALA:HB3	1.67	0.77
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.66	0.77
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.49	0.77
3:D:877:PRO:HA	8:D:9153:HOH:O	1.84	0.77
3:D:901:GLN:HB2	8:D:9514:HOH:O	1.84	0.77
3:N:119:SER:H	3:N:123:LEU:HD22	1.50	0.77
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.66	0.77
3:D:1312:LEU:HB2	8:D:9354:HOH:O	1.84	0.77
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.67	0.77
5:F:117:SER:HA	8:F:433:HOH:O	1.84	0.77
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.65	0.77
2:C:693:GLU:HA	2:C:696:LYS:HG3	1.65	0.77
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.67	0.77
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.67	0.77
3:D:131:LYS:HG2	3:D:568:ARG:HG2	1.66	0.76
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.84	0.76
1:K:18:ARG:HD3	1:K:123:MET:HE3	1.67	0.76
3:D:41:ARG:HD3	3:D:42:ASP:H	1.47	0.76
3:D:876:SER:HA	8:D:9288:HOH:O	1.86	0.76
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.67	0.76
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.67	0.76
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.11	0.76
3:N:107:ASP:HB2	8:N:9202:HOH:O	1.85	0.76
3:N:699:VAL:H	3:N:756:GLN:HE22	1.33	0.76
2:C:609:ASN:ND2	2:C:627:ARG:HH21	1.82	0.76
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	1.99	0.76
3:D:1223:ILE:H	3:D:1223:ILE:HD12	1.49	0.76
2:M:816:LYS:HE2	2:M:819:VAL:HG21	1.66	0.76
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.84	0.76
3:N:610:LYS:HG2	3:N:611:GLN:HE21	1.50	0.76
2:C:108:ILE:HB	2:C:368:THR:OG1	1.84	0.76
3:D:9:ARG:HE	3:D:11:ALA:HB2	1.51	0.76
2:M:709:GLU:HG3	2:M:824:ARG:HG3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.65	0.76
1:A:109:VAL:HG23	8:A:356:HOH:O	1.85	0.76
2:C:1067:TYR:HA	2:C:1070:ILE:HD12	1.67	0.76
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.67	0.76
3:N:12:LEU:HD23	3:N:13:ALA:H	1.50	0.76
2:C:630:ARG:NH2	2:C:705:ILE:HG22	2.01	0.76
3:D:698:LYS:HA	3:D:756:GLN:NE2	2.01	0.76
2:M:943:VAL:HG23	2:M:985:GLY:H	1.51	0.76
3:N:639:LEU:H	3:N:639:LEU:HD12	1.51	0.76
2:C:41:ASN:HD22	2:C:41:ASN:H	1.30	0.76
2:C:944:LEU:HD21	2:C:963:LEU:HD22	1.67	0.76
3:D:1236:LEU:HD12	3:D:1256:LEU:HD12	1.67	0.76
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.66	0.76
2:M:736:ASP:O	2:M:744:ARG:HG2	1.86	0.75
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.86	0.75
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	1.67	0.75
2:C:534:VAL:H	2:C:538:GLN:HE22	1.34	0.75
2:M:154:ARG:HH21	2:M:156:GLY:HA3	1.50	0.75
2:M:186:VAL:HG23	2:M:187:ASN:H	1.51	0.75
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.69	0.75
3:N:1066:THR:HG23	3:N:1068:LEU:H	1.51	0.75
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.67	0.75
3:D:842:VAL:HG23	8:D:9407:HOH:O	1.86	0.75
3:D:73:CYS:HB3	3:D:76:CYS:O	1.85	0.75
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.51	0.75
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.01	0.75
2:M:490:GLU:HB3	8:M:1436:HOH:O	1.86	0.75
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.68	0.75
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.51	0.75
1:A:28:LEU:HD13	1:A:32:PHE:HB3	1.69	0.75
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.69	0.75
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.69	0.75
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.86	0.75
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.01	0.75
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.68	0.75
1:L:206:THR:HG22	1:L:209:GLU:H	1.52	0.75
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.50	0.75
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.51	0.75
1:A:191:ASP:HB3	8:A:483:HOH:O	1.86	0.75
2:M:378:LEU:HG	2:M:382:ILE:HD11	1.69	0.75
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.68	0.75
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.67	0.75
3:N:948:THR:HG22	3:N:949:ILE:H	1.51	0.75
5:P:76:SER:O	5:P:80:PRO:HD2	1.87	0.75
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.67	0.75
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.69	0.75
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.69	0.75
2:C:557:ARG:NH2	2:C:879:ARG:HD3	2.00	0.75
3:D:65:ARG:HG3	3:D:66:GLN:H	1.52	0.75
3:D:971:LEU:HA	3:D:974:ILE:HD12	1.69	0.75
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.22	0.74
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	2.03	0.74
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.69	0.74
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.01	0.74
5:F:123:ASP:HB2	5:F:126:LEU:HD13	1.67	0.74
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.66	0.74
5:P:404:ALA:HB3	8:P:4587:HOH:O	1.87	0.74
1:A:189:ARG:HB3	8:A:366:HOH:O	1.86	0.74
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.68	0.74
3:D:194:GLY:H	3:D:206:ARG:HA	1.51	0.74
2:M:864:GLY:HA2	8:M:1164:HOH:O	1.87	0.74
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.68	0.74
2:M:598:GLU:O	2:M:651:LYS:HG3	1.87	0.74
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.67	0.74
3:N:1271:LYS:HG2	3:N:1272:ALA:H	1.51	0.74
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.69	0.74
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.52	0.74
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.68	0.74
3:D:1046:GLN:HG2	3:D:1052:THR:HG22	1.68	0.74
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.68	0.74
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.51	0.74
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.70	0.74
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.68	0.74
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.67	0.74
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.68	0.74
2:M:313:LEU:HD23	2:M:314:THR:HG23	1.68	0.74
2:C:115:LEU:HD13	2:C:351:LEU:HD21	1.70	0.74
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.88	0.74
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.67	0.74
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.69	0.74
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.18	0.74
2:M:671:ASN:HD21	2:M:993:PHE:HD2	1.32	0.74
3:N:486:ARG:HE	3:N:489:ARG:HD3	1.50	0.74
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.68	0.74
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.68	0.74
2:M:486:MET:HB3	8:M:1436:HOH:O	1.88	0.74
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	1.68	0.74
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.70	0.74
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.70	0.74
3:N:14:SER:H	3:N:17:LYS:HZ2	1.36	0.74
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.69	0.73
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.69	0.73
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	1.88	0.73
1:L:133:GLU:HG3	1:L:134:GLU:HG2	1.70	0.73
2:M:436:GLY:HA2	2:M:538:GLN:O	1.88	0.73
2:C:269:LEU:HD23	2:C:285:LEU:HD21	1.69	0.73
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.70	0.73
2:M:89:THR:O	2:M:91:GLN:HG3	1.88	0.73
2:C:676:ILE:HG23	3:D:948:THR:HB	1.68	0.73
3:D:1289:LYS:HE3	3:D:1307:LYS:HE2	1.69	0.73
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.70	0.73
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.68	0.73
3:N:661:MET:HG2	3:N:666:ILE:HD12	1.71	0.73
1:B:45:LEU:HA	8:B:343:HOH:O	1.88	0.73
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.70	0.73
2:C:818:GLY:HA3	8:C:1350:HOH:O	1.88	0.73
3:D:459:GLU:HB3	8:D:9187:HOH:O	1.89	0.73
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.70	0.73
1:L:63:HIS:HB2	8:L:3671:HOH:O	1.88	0.73
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.70	0.73
2:M:92:ALA:HB1	8:M:1276:HOH:O	1.89	0.73
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.23	0.73
8:M:1349:HOH:O	3:N:651:GLU:HG3	1.88	0.73
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.68	0.73
5:P:358:LEU:HD21	5:P:370:LYS:HE3	1.70	0.73
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.71	0.73
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.68	0.73
2:C:182:VAL:HG21	8:C:1366:HOH:O	1.89	0.73
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.70	0.73
1:B:131:THR:HG22	8:B:423:HOH:O	1.89	0.73
2:C:943:VAL:HG23	2:C:985:GLY:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.70	0.73
3:D:1045:MET:CG	3:D:1073:SER:HA	2.17	0.73
2:M:589:ARG:HH11	2:M:589:ARG:HB2	1.51	0.73
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.71	0.73
5:P:403:LYS:HA	5:P:403:LYS:NZ	2.03	0.73
1:A:98:THR:HG21	8:A:348:HOH:O	1.89	0.73
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.53	0.73
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.71	0.73
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.18	0.73
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.69	0.73
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.70	0.73
2:M:371:LYS:HA	8:M:1338:HOH:O	1.87	0.73
3:N:194:GLY:H	3:N:206:ARG:HA	1.53	0.73
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.03	0.73
2:C:366:SER:HA	8:C:1205:HOH:O	1.87	0.73
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.70	0.73
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.71	0.73
2:M:1080:SER:HB2	8:M:1849:HOH:O	1.87	0.73
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.00	0.73
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.71	0.72
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.71	0.72
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.51	0.72
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	1.88	0.72
1:A:14:ARG:NH2	1:A:22:GLU:HB3	2.03	0.72
2:C:704:HIS:HB2	2:C:831:ARG:HE	1.53	0.72
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	1.88	0.72
3:D:628:ARG:HD3	3:D:744:GLN:NE2	2.04	0.72
3:D:1209:LEU:HD22	3:D:1211:MET:HB3	1.71	0.72
2:C:166:PRO:HA	8:C:1305:HOH:O	1.88	0.72
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.70	0.72
2:M:54:ILE:HG21	8:M:1182:HOH:O	1.89	0.72
3:N:1210:SER:HA	8:N:9113:HOH:O	1.87	0.72
3:N:1429:LEU:HG	3:N:1441:GLN:HG3	1.70	0.72
2:C:54:ILE:HA	8:C:1491:HOH:O	1.89	0.72
3:N:669:ASN:HB3	8:N:9139:HOH:O	1.89	0.72
8:N:9109:HOH:O	5:P:319:THR:HA	1.88	0.72
2:M:573:ARG:HG3	2:M:698:ASP:O	1.90	0.72
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.23	0.72
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.71	0.72
1:B:36:LEU:O	1:B:39:PRO:HD2	1.89	0.72
3:D:1267:ARG:HH22	3:D:1333:HIS:HD2	1.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.70	0.72
1:K:133:GLU:HG2	1:K:134:GLU:N	2.05	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.54	0.72
5:P:151:LEU:HB3	8:P:3247:HOH:O	1.89	0.72
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.69	0.72
1:K:89:PHE:CZ	1:K:146:ARG:HB2	2.25	0.72
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.70	0.72
2:C:473:ARG:HE	2:C:531:PHE:HE1	1.35	0.72
3:D:153:LEU:HD12	3:D:154:THR:N	2.05	0.72
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.72	0.72
1:L:23:PHE:HA	8:L:3037:HOH:O	1.90	0.72
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.72	0.72
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.70	0.72
2:C:64:LEU:HB2	2:C:359:MET:SD	2.30	0.72
2:C:244:PRO:HD2	2:C:245:GLY:H	1.53	0.72
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.72	0.72
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.54	0.72
5:F:93:LEU:HG	5:F:190:ALA:CB	2.20	0.72
1:K:55:SER:OG	1:K:158:ILE:HB	1.90	0.72
4:O:51:LEU:HD12	4:O:52:GLU:H	1.55	0.72
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.86	0.72
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.20	0.71
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.55	0.71
3:D:907:GLU:O	3:D:911:LEU:HD22	1.89	0.71
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.71	0.71
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.71	0.71
3:D:996:TRP:HA	3:D:999:THR:HG22	1.72	0.71
5:F:128:ARG:HG2	8:F:754:HOH:O	1.88	0.71
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.73	0.71
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.89	0.71
5:P:404:ALA:HA	8:P:4644:HOH:O	1.90	0.71
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.05	0.71
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.73	0.71
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.06	0.71
4:E:45:ARG:HA	8:E:180:HOH:O	1.88	0.71
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.72	0.71
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.20	0.71
3:D:374:GLU:HA	8:D:9065:HOH:O	1.90	0.71
3:D:737:ASN:HA	8:D:9006:HOH:O	1.89	0.71
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.91	0.71
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:192:ALA:O	3:N:195:VAL:HG23	1.90	0.71
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.71	0.71
3:N:808:THR:HB	3:N:809:PRO:HD3	1.72	0.71
3:N:1415:VAL:HG23	8:N:9265:HOH:O	1.89	0.71
1:A:175:ARG:NH1	1:A:202:ASP:HA	2.06	0.71
2:C:52:PHE:HA	8:C:1788:HOH:O	1.91	0.71
3:D:513:ILE:HA	8:D:9491:HOH:O	1.91	0.71
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.21	0.71
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.73	0.71
3:N:215:TYR:O	3:N:389:GLU:HB3	1.89	0.71
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.72	0.71
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.90	0.71
2:M:786:LYS:HA	8:M:1174:HOH:O	1.88	0.71
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.72	0.71
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.71	0.71
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.91	0.71
3:N:139:GLY:O	3:N:147:VAL:HB	1.91	0.71
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.73	0.71
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.71	0.71
2:C:113:VAL:HG13	8:C:1336:HOH:O	1.91	0.71
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.71	0.71
3:D:172:PRO:HD2	3:D:389:GLU:O	1.91	0.71
3:D:661:MET:HA	3:D:666:ILE:HD12	1.72	0.71
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.73	0.71
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.73	0.71
1:A:18:ARG:HH12	1:A:88:ARG:HH21	1.37	0.71
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.72	0.71
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.72	0.71
2:M:1051:GLU:HG3	2:M:1055:LEU:HD12	1.71	0.71
3:N:1173:LEU:HD23	3:N:1174:LEU:HD23	1.72	0.71
2:C:460:ARG:HB3	2:C:460:ARG:HH11	1.55	0.70
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.54	0.70
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.73	0.70
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.73	0.70
3:N:1488:ASP:HA	8:O:4394:HOH:O	1.91	0.70
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.71	0.70
2:M:139:GLN:HG3	2:M:140:ILE:H	1.56	0.70
2:M:157:ARG:HE	2:M:158:TYR:H	1.36	0.70
2:M:535:SER:O	2:M:538:GLN:HG2	1.91	0.70
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.73	0.70
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:755:LEU:HB2	2:M:790:LEU:HD22	1.73	0.70
2:C:710:ILE:HD11	2:C:758:ARG:HH21	1.56	0.70
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.92	0.70
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.06	0.70
3:D:929:ARG:HB2	8:D:9499:HOH:O	1.90	0.70
3:D:1077:ALA:HB2	8:D:2073:HOH:O	1.91	0.70
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.74	0.70
2:C:511:GLU:O	2:C:526:PRO:HD3	1.91	0.70
5:F:77:THR:O	5:F:81:VAL:HG23	1.91	0.70
2:M:884:GLN:HG3	2:M:885:ILE:HD13	1.72	0.70
2:C:108:ILE:HG21	8:C:1205:HOH:O	1.92	0.70
2:C:127:PHE:HA	8:C:1442:HOH:O	1.90	0.70
2:C:284:ARG:HG2	2:C:285:LEU:H	1.57	0.70
3:D:570:GLU:HB2	5:F:214:GLN:NE2	2.07	0.70
4:O:41:GLU:O	4:O:45:ARG:HG2	1.91	0.70
1:A:141:GLU:HG3	8:A:346:HOH:O	1.92	0.70
1:L:143:ARG:NH1	1:L:158:ILE:HD12	2.07	0.70
3:N:52:PRO:HG3	3:N:78:VAL:HG22	1.72	0.70
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.73	0.70
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.73	0.70
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.26	0.70
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.73	0.70
5:F:396:ARG:HG2	8:F:468:HOH:O	1.92	0.70
2:C:299:LYS:HB2	8:C:1374:HOH:O	1.90	0.70
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.56	0.70
3:D:1395:LEU:HB3	8:D:9369:HOH:O	1.91	0.70
1:L:58:ILE:HB	1:L:61:VAL:HB	1.73	0.70
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.74	0.70
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.74	0.70
2:M:1115:LEU:HD11	8:M:1678:HOH:O	1.90	0.70
3:N:796:ARG:HD3	3:N:861:GLN:HB2	1.73	0.70
3:N:965:GLU:HG3	3:N:969:ARG:HH21	1.56	0.70
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.74	0.70
5:F:372:ARG:HB2	8:F:635:HOH:O	1.91	0.70
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.57	0.70
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.06	0.69
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.57	0.69
2:C:318:PRO:HB3	8:C:1564:HOH:O	1.90	0.69
2:C:455:LEU:HD12	2:C:459:ALA:HB3	1.72	0.69
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.05	0.69
2:C:958:THR:HG23	2:C:961:GLU:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:132:TYR:HA	8:D:9333:HOH:O	1.91	0.69
1:L:209:GLU:HB3	8:L:4878:HOH:O	1.92	0.69
2:M:343:GLN:HG3	8:M:1267:HOH:O	1.92	0.69
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.06	0.69
3:D:1352:ILE:HG21	3:D:1368:ILE:HG21	1.74	0.69
5:F:234:LYS:HD3	5:F:236:SER:HB3	1.72	0.69
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.57	0.69
3:D:210:ARG:HB3	3:D:210:ARG:HH11	1.57	0.69
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.73	0.69
4:E:51:LEU:HD12	4:E:52:GLU:H	1.57	0.69
2:C:92:ALA:HB1	8:C:1294:HOH:O	1.92	0.69
3:D:793:THR:HB	3:D:879:ARG:HD3	1.74	0.69
1:L:161:ARG:HA	8:L:3450:HOH:O	1.92	0.69
2:M:511:GLU:O	2:M:526:PRO:HD3	1.92	0.69
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.74	0.69
3:N:834:THR:HB	3:N:838:ARG:HB3	1.74	0.69
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.75	0.69
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.08	0.69
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.73	0.69
3:D:611:GLN:HG3	5:F:326:ASP:HB2	1.75	0.69
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.73	0.69
2:M:478:VAL:HA	2:M:506:ASN:O	1.92	0.69
3:N:468:LEU:HB3	8:N:9407:HOH:O	1.92	0.69
3:D:215:TYR:O	3:D:389:GLU:HB2	1.93	0.69
3:D:1462:LEU:HB3	3:D:1472:ILE:HD12	1.75	0.69
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.73	0.69
5:F:120:THR:HB	8:F:433:HOH:O	1.91	0.69
5:F:335:ASP:OD2	5:F:338:LEU:HB2	1.92	0.69
3:N:119:SER:HB2	3:N:123:LEU:H	1.57	0.69
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.57	0.69
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.75	0.69
2:C:670:GLN:O	2:C:672:VAL:HG12	1.93	0.69
3:D:811:GLU:HA	8:D:9196:HOH:O	1.93	0.69
3:D:929:ARG:HD3	8:D:9607:HOH:O	1.93	0.69
1:K:62:LEU:HD12	8:K:3844:HOH:O	1.91	0.69
2:M:516:ARG:HD2	2:M:521:PRO:HA	1.73	0.69
3:N:1033:GLN:HE21	3:N:1036:ARG:HD3	1.58	0.69
1:A:177:VAL:O	2:C:864:GLY:HA3	1.92	0.69
2:C:193:LEU:HD21	8:C:1760:HOH:O	1.93	0.69
2:C:971:LYS:HA	2:C:988:VAL:HA	1.74	0.69
3:D:663:GLU:HA	8:D:9541:HOH:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:756:GLN:O	3:D:760:ARG:HG2	1.91	0.69
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.28	0.69
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.75	0.69
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.75	0.69
2:C:958:THR:HG22	8:C:1364:HOH:O	1.92	0.69
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.28	0.69
3:D:178:LEU:HG	3:D:200:ASP:H	1.58	0.69
3:D:964:LEU:HD13	3:D:1058:ARG:NH1	2.08	0.69
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.75	0.69
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.32	0.69
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.23	0.69
3:D:62:LYS:HE2	3:D:75:ARG:HH12	1.58	0.69
3:D:393:ILE:H	3:D:393:ILE:HD12	1.58	0.69
3:D:537:THR:C	5:F:317:LEU:HB2	2.12	0.69
3:N:761:ILE:HG21	8:O:3197:HOH:O	1.93	0.69
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.22	0.69
5:P:100:VAL:CG1	5:P:104:ARG:HH21	2.06	0.69
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.74	0.68
1:A:226:SER:O	1:A:228:PRO:HD3	1.93	0.68
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.75	0.68
2:M:526:PRO:HG2	8:M:1259:HOH:O	1.92	0.68
3:N:430:ASP:HB3	8:N:9241:HOH:O	1.93	0.68
3:N:542:ASP:O	3:N:546:ARG:HG2	1.94	0.68
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.28	0.68
2:C:282:GLY:HA2	2:C:308:ARG:NH2	2.07	0.68
2:C:437:ARG:HA	2:C:467:ILE:HG21	1.73	0.68
2:C:567:GLN:HA	8:C:1666:HOH:O	1.93	0.68
2:C:609:ASN:HD21	2:C:627:ARG:HH21	1.40	0.68
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.08	0.68
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.74	0.68
2:M:311:PHE:HB3	8:M:1560:HOH:O	1.93	0.68
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.74	0.68
2:M:704:HIS:CB	2:M:831:ARG:HE	2.05	0.68
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.21	0.68
2:C:777:ILE:HG23	5:F:405:LEU:HD11	1.74	0.68
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.93	0.68
3:D:808:THR:HB	3:D:809:PRO:HD3	1.73	0.68
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.76	0.68
1:L:85:LEU:HD12	1:L:124:ASN:HB3	1.75	0.68
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.59	0.68
5:P:376:ILE:HG23	8:P:3758:HOH:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.93	0.68
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.76	0.68
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.08	0.68
3:D:572:ARG:HH12	5:F:79:ASP:CG	1.97	0.68
1:K:92:PRO:HD3	8:K:3642:HOH:O	1.92	0.68
1:L:58:ILE:HG23	8:L:4138:HOH:O	1.93	0.68
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.08	0.68
2:M:726:ILE:HG22	8:M:1255:HOH:O	1.92	0.68
3:N:760:ARG:HH21	4:O:3:GLU:CD	1.97	0.68
5:P:100:VAL:HG12	5:P:104:ARG:HH21	1.58	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.76	0.68
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.75	0.68
2:C:151:ASP:HB2	2:C:157:ARG:O	1.94	0.68
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.75	0.68
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.76	0.68
2:M:368:THR:HB	2:M:369:PRO:HD3	1.74	0.68
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.75	0.68
2:M:983:ILE:HA	8:M:1335:HOH:O	1.92	0.68
5:P:403:LYS:NZ	5:P:406:ARG:HD2	2.08	0.68
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.76	0.68
1:B:151:VAL:HG13	1:B:155:LYS:HE2	1.76	0.68
2:C:610:ARG:HB2	8:C:1501:HOH:O	1.93	0.68
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.93	0.68
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.76	0.68
4:E:30:LEU:O	4:E:35:PHE:HA	1.94	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.28	0.68
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.29	0.68
2:C:428:ARG:HG2	2:C:449:ILE:O	1.94	0.68
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.58	0.68
3:D:1406:ARG:NH2	3:D:1407:LEU:HG	2.09	0.68
1:L:208:LEU:HD23	8:L:3127:HOH:O	1.94	0.68
2:M:300:ASP:HB2	8:M:1252:HOH:O	1.93	0.68
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.76	0.68
1:A:74:ASP:OD1	1:A:77:GLU:HB2	1.93	0.68
3:D:539:ASP:OD2	5:F:318:GLU:HB2	1.93	0.68
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.93	0.68
2:C:64:LEU:HD13	2:C:359:MET:HG3	1.74	0.68
2:C:1109:VAL:HG23	3:D:3:LYS:HG2	1.75	0.68
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.09	0.68
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.75	0.68
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.75	0.68
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.76	0.68
3:N:535:PHE:O	5:P:315:VAL:N	2.26	0.68
3:N:1058:ARG:HG3	3:N:1058:ARG:HH11	1.59	0.68
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.09	0.67
3:D:401:TYR:HB2	8:D:9802:HOH:O	1.93	0.67
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.21	0.67
3:D:1459:LEU:HD22	3:D:1465:ASN:ND2	2.09	0.67
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.77	0.67
1:L:112:ARG:HD2	8:L:4849:HOH:O	1.93	0.67
3:N:86:ARG:O	3:N:522:PRO:HD2	1.93	0.67
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.74	0.67
3:N:961:LYS:HG2	8:N:9231:HOH:O	1.93	0.67
2:C:36:PRO:HB3	8:C:1554:HOH:O	1.94	0.67
2:C:186:VAL:HG23	2:C:187:ASN:H	1.58	0.67
2:C:478:VAL:HA	2:C:506:ASN:O	1.94	0.67
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.94	0.67
3:D:1235:GLN:C	3:D:1359:GLN:HE22	1.98	0.67
3:D:1318:TYR:HB3	8:D:9569:HOH:O	1.94	0.67
2:M:144:PRO:HA	2:M:163:ILE:HG12	1.76	0.67
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.09	0.67
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.67
5:P:87:GLU:O	5:P:91:VAL:HG23	1.94	0.67
2:C:227:PHE:HD2	2:C:230:ARG:HH21	1.42	0.67
2:C:598:GLU:O	2:C:651:LYS:HG3	1.94	0.67
3:D:547:LEU:HD11	3:D:578:VAL:HG22	1.74	0.67
4:E:60:ALA:O	4:E:63:TRP:HB2	1.94	0.67
4:E:86:GLN:HB2	8:E:158:HOH:O	1.94	0.67
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	0.67
2:M:165:LEU:O	2:M:265:ARG:HB2	1.93	0.67
3:N:75:ARG:HB3	8:N:9208:HOH:O	1.94	0.67
5:P:234:LYS:HG3	8:P:4168:HOH:O	1.94	0.67
1:A:24:VAL:HG22	1:A:196:THR:HB	1.75	0.67
3:D:175:VAL:HG12	3:D:176:ASP:OD1	1.94	0.67
3:D:707:THR:HA	8:D:9216:HOH:O	1.93	0.67
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.75	0.67
5:F:351:SER:O	5:F:355:GLU:HB2	1.93	0.67
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.77	0.67
3:N:400:VAL:HG12	3:N:401:TYR:HD1	1.59	0.67
1:B:38:ASN:OD1	2:C:979:THR:HA	1.95	0.67
3:D:93:ILE:HD11	3:D:548:ILE:HD13	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:523:ASP:N	8:D:9040:HOH:O	2.27	0.67
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.76	0.67
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.75	0.67
2:M:205:GLU:O	2:M:209:ARG:HD2	1.94	0.67
2:M:546:LEU:HA	2:M:581:THR:HG21	1.76	0.67
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.75	0.67
3:N:153:LEU:HD11	3:N:158:TYR:N	2.08	0.67
3:N:1420:LEU:HD12	3:N:1421:LEU:N	2.09	0.67
2:C:100:LEU:HB2	8:C:1196:HOH:O	1.93	0.67
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.77	0.67
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.60	0.67
3:N:730:PRO:HA	3:N:733:CYS:SG	2.35	0.67
3:N:1127:GLU:HG3	3:N:1133:ARG:HH12	1.60	0.67
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.77	0.67
3:D:1087:ARG:HB3	3:D:1234:THR:HG23	1.75	0.67
3:D:1389:LEU:HD13	8:D:9579:HOH:O	1.94	0.67
1:L:65:PHE:HB2	8:L:3211:HOH:O	1.94	0.67
2:M:630:ARG:HH21	2:M:707:ARG:N	1.93	0.67
3:N:1397:LYS:HG2	8:N:9561:HOH:O	1.93	0.67
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.43	0.67
1:A:20:TYR:HD2	1:A:21:GLY:N	1.93	0.67
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.59	0.67
3:D:793:THR:HG22	3:D:879:ARG:HA	1.77	0.67
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.57	0.67
3:N:654:LYS:HD3	3:N:674:ARG:HH22	1.59	0.67
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.59	0.67
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.30	0.67
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.10	0.67
3:N:124:GLU:HB2	8:N:9808:HOH:O	1.94	0.67
3:N:1314:LYS:H	3:N:1314:LYS:HD3	1.60	0.67
4:O:60:ALA:O	4:O:63:TRP:HB2	1.95	0.67
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.76	0.66
3:D:156:GLU:HB3	8:D:9191:HOH:O	1.95	0.66
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.25	0.66
3:D:821:VAL:HG21	8:D:9498:HOH:O	1.96	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.77	0.66
3:D:1271:LYS:HG2	3:D:1272:ALA:H	1.60	0.66
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.76	0.66
2:M:140:ILE:HA	2:M:332:ARG:O	1.94	0.66
2:M:911:GLU:O	2:M:915:LYS:HG2	1.94	0.66
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.10	0.66
1:K:227:ASN:HD22	1:K:227:ASN:N	1.91	0.66
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.78	0.66
2:M:1085:PHE:O	2:M:1089:VAL:HG23	1.95	0.66
3:N:120:ALA:HB1	8:N:9749:HOH:O	1.94	0.66
3:N:423:ASP:OD1	5:P:174:LEU:HD13	1.95	0.66
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.94	0.66
5:P:148:LYS:HG2	8:P:3932:HOH:O	1.95	0.66
5:P:208:SER:HB3	8:P:3885:HOH:O	1.95	0.66
1:A:161:ARG:NH1	1:A:161:ARG:HB2	2.10	0.66
1:B:52:ALA:HB1	8:B:430:HOH:O	1.94	0.66
2:C:290:LEU:HA	8:C:1381:HOH:O	1.96	0.66
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.31	0.66
2:M:660:ALA:HB1	2:M:667:ALA:O	1.96	0.66
3:N:1342:GLU:H	3:N:1342:GLU:CD	1.99	0.66
3:N:1376:MET:SD	3:N:1421:LEU:HD12	2.36	0.66
2:C:750:LYS:HB3	8:C:1606:HOH:O	1.93	0.66
2:C:930:LYS:HA	8:C:1252:HOH:O	1.96	0.66
3:D:1169:ASP:HB3	8:D:9030:HOH:O	1.95	0.66
1:L:131:THR:HA	8:L:2956:HOH:O	1.95	0.66
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.11	0.66
3:N:863:VAL:HG23	8:N:9129:HOH:O	1.94	0.66
3:N:1080:GLY:HA3	8:N:9701:HOH:O	1.95	0.66
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.29	0.66
2:C:480:THR:HG22	2:C:482:GLU:H	1.61	0.66
3:D:528:VAL:O	3:D:535:PHE:HA	1.95	0.66
3:D:1349:VAL:HG11	8:D:9752:HOH:O	1.94	0.66
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.77	0.66
4:E:26:ARG:O	4:E:29:GLN:HG3	1.95	0.66
1:L:95:GLN:HE21	1:L:95:GLN:H	1.43	0.66
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.77	0.66
3:N:209:ARG:HH22	3:N:397:LYS:HG3	1.60	0.66
1:A:198:ARG:NH2	2:C:932:GLU:HG2	2.11	0.66
2:C:155:PRO:HB2	8:C:1225:HOH:O	1.95	0.66
3:D:89:ARG:O	3:D:521:PRO:HG3	1.96	0.66
3:D:783:ARG:HE	3:D:1029:ARG:NE	1.91	0.66
3:D:1413:THR:HG21	8:D:9279:HOH:O	1.94	0.66
1:L:74:ASP:HA	8:L:3261:HOH:O	1.94	0.66
2:M:513:VAL:HB	8:M:1319:HOH:O	1.95	0.66
3:N:1004:THR:HG21	8:N:9281:HOH:O	1.93	0.66
3:N:1459:LEU:HA	3:N:1464:GLU:OE1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:325:LYS:HE2	8:P:2932:HOH:O	1.94	0.66
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.77	0.66
2:C:41:ASN:H	2:C:41:ASN:ND2	1.92	0.66
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.30	0.66
2:C:455:LEU:HD23	2:C:455:LEU:H	1.60	0.66
2:C:504:GLU:OE2	2:C:509:ALA:HB2	1.94	0.66
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.61	0.66
1:A:20:TYR:HD2	1:A:21:GLY:H	1.44	0.66
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.59	0.66
1:A:219:ARG:CZ	1:B:219:ARG:HG2	2.26	0.66
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.60	0.66
3:D:652:LEU:HA	8:D:9195:HOH:O	1.95	0.66
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.10	0.66
3:D:148:GLU:HG2	3:D:151:GLN:NE2	2.11	0.66
3:D:964:LEU:HD13	3:D:1058:ARG:HH11	1.61	0.66
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.11	0.66
1:K:86:VAL:HG23	8:K:3038:HOH:O	1.95	0.66
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.78	0.66
2:C:42:VAL:HG12	2:C:43:GLY:H	1.61	0.66
2:C:325:ILE:HG22	8:C:1411:HOH:O	1.96	0.66
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.77	0.66
2:C:710:ILE:HD11	2:C:758:ARG:NH2	2.11	0.66
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.78	0.66
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.25	0.66
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.78	0.66
1:L:19:GLU:HG3	1:L:201:THR:O	1.96	0.66
2:M:151:ASP:HB2	2:M:157:ARG:O	1.96	0.66
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.36	0.66
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	1.78	0.66
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.77	0.66
1:B:99:LEU:HD12	1:B:114:PHE:HB3	1.77	0.65
3:D:1087:ARG:HD2	3:D:1256:LEU:HD22	1.78	0.65
1:L:152:PRO:HD2	1:L:155:LYS:HD2	1.76	0.65
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.78	0.65
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.78	0.65
3:N:656:PHE:HE2	3:N:698:LYS:HE3	1.59	0.65
3:N:877:PRO:O	3:N:880:ILE:HG22	1.95	0.65
5:P:323:ASP:HB3	8:P:3957:HOH:O	1.94	0.65
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.78	0.65
3:D:850:LEU:HD12	3:D:850:LEU:H	1.60	0.65
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.61	0.65
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.78	0.65
2:M:211:LEU:HD12	2:M:308:ARG:HG3	1.76	0.65
3:N:35:ARG:HG3	3:N:36:THR:N	2.10	0.65
3:N:141:ILE:HD11	8:N:9550:HOH:O	1.95	0.65
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.77	0.65
3:N:844:ALA:O	3:N:867:ARG:HB3	1.95	0.65
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.76	0.65
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.78	0.65
3:D:396:VAL:HA	8:D:9468:HOH:O	1.96	0.65
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.78	0.65
1:L:106:PRO:HD3	8:L:3583:HOH:O	1.97	0.65
2:M:3:ILE:HG23	8:M:1340:HOH:O	1.94	0.65
2:M:73:LEU:HB3	2:M:94:LEU:HB2	1.79	0.65
2:M:773:LEU:O	2:M:777:ILE:HG13	1.95	0.65
2:M:859:PRO:O	2:M:867:VAL:HG22	1.96	0.65
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.78	0.65
2:C:265:ARG:HG2	2:C:267:TYR:H	1.61	0.65
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.11	0.65
3:D:1492:LEU:HA	8:D:2041:HOH:O	1.96	0.65
3:N:576:GLU:HB2	8:N:9391:HOH:O	1.95	0.65
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.79	0.65
3:N:1294:VAL:HB	8:N:9539:HOH:O	1.95	0.65
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.79	0.65
5:P:104:ARG:HB3	8:P:3870:HOH:O	1.97	0.65
5:P:175:HIS:O	5:P:179:GLU:HG3	1.97	0.65
5:P:352:GLU:O	5:P:356:LYS:HG3	1.96	0.65
2:C:185:LYS:HG2	2:C:190:LYS:HG2	1.79	0.65
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.78	0.65
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.77	0.65
3:D:704:ARG:NE	3:D:705:ALA:H	1.94	0.65
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.77	0.65
1:K:54:THR:HG21	8:K:3561:HOH:O	1.96	0.65
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.77	0.65
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.78	0.65
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.78	0.65
1:B:90:LEU:HD23	8:B:356:HOH:O	1.97	0.65
2:C:186:VAL:HG23	8:C:1357:HOH:O	1.95	0.65
2:C:926:PHE:O	2:C:930:LYS:HG3	1.96	0.65
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.78	0.65
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:166:LEU:O	5:F:171:LYS:HB2	1.96	0.65
2:M:45:GLN:HA	8:M:1223:HOH:O	1.95	0.65
8:N:9970:HOH:O	5:P:135:ILE:HD11	1.97	0.65
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.78	0.65
2:C:678:PRO:HB2	3:D:942:SER:OG	1.97	0.65
2:C:798:GLY:H	2:C:827:VAL:CG1	2.09	0.65
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.26	0.65
3:D:1154:GLU:HG3	3:D:1159:ARG:HG3	1.78	0.65
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.78	0.65
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.79	0.65
3:N:14:SER:H	3:N:17:LYS:NZ	1.94	0.65
3:N:119:SER:H	3:N:123:LEU:HB2	1.61	0.65
1:A:27:PRO:HD2	8:A:350:HOH:O	1.97	0.65
3:D:537:THR:HA	5:F:317:LEU:HD12	1.77	0.65
3:D:570:GLU:HB2	5:F:214:GLN:HE21	1.62	0.65
3:N:187:LYS:HA	8:N:9174:HOH:O	1.97	0.65
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.78	0.65
5:P:154:LYS:O	5:P:158:GLU:HG3	1.97	0.65
1:B:47:SER:O	1:B:49:PRO:N	2.29	0.65
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.78	0.65
2:C:405:ARG:HH12	2:C:563:ASN:ND2	1.94	0.65
2:C:580:MET:HB3	2:C:584:GLU:CD	2.16	0.65
3:D:398:ALA:HB2	3:D:445:ARG:HE	1.61	0.65
3:D:817:GLU:HG3	3:D:840:LYS:NZ	2.12	0.65
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.61	0.65
3:D:1264:GLU:OE1	3:D:1424:VAL:HG12	1.97	0.65
4:E:59:ASN:HB3	4:E:62:THR:OG1	1.97	0.65
2:M:416:GLY:HA3	8:M:1698:HOH:O	1.96	0.65
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.78	0.65
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.79	0.65
3:N:783:ARG:HH21	3:N:1029:ARG:CG	2.09	0.65
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.78	0.65
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.79	0.65
5:P:275:ALA:HA	5:P:278:LEU:HD12	1.79	0.65
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.79	0.64
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.79	0.64
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.79	0.64
2:M:157:ARG:HD2	2:M:314:THR:CG2	2.23	0.64
2:M:304:LEU:HD21	8:M:1371:HOH:O	1.96	0.64
3:N:147:VAL:HG21	8:N:9806:HOH:O	1.96	0.64
3:N:708:LEU:HA	8:N:9285:HOH:O	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.27	0.64
1:B:184:THR:HB	1:B:194:LYS:NZ	2.12	0.64
2:C:771:GLU:O	2:C:775:ARG:HG2	1.98	0.64
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.27	0.64
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.11	0.64
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.79	0.64
3:N:487:ALA:HB3	8:N:9323:HOH:O	1.97	0.64
3:N:890:VAL:HG13	3:N:926:LYS:HD3	1.79	0.64
1:B:58:ILE:HB	1:B:61:VAL:HB	1.77	0.64
2:C:12:VAL:HG13	2:C:13:ILE:HG23	1.78	0.64
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.79	0.64
3:D:1243:THR:HB	3:D:1253:THR:HG22	1.78	0.64
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.79	0.64
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.33	0.64
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.77	0.64
2:M:498:GLN:O	2:M:501:THR:HG23	1.97	0.64
2:M:669:GLY:O	2:M:670:GLN:HG3	1.97	0.64
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.79	0.64
3:N:911:LEU:O	3:N:915:VAL:HG23	1.98	0.64
3:N:1310:ARG:O	3:N:1327:ARG:HG3	1.97	0.64
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.12	0.64
2:C:342:ASP:O	2:C:346:VAL:HG23	1.96	0.64
2:C:660:ALA:HB1	2:C:667:ALA:O	1.98	0.64
2:C:685:GLU:HG3	3:D:783:ARG:HD2	1.78	0.64
3:D:85:VAL:HG21	8:D:9019:HOH:O	1.96	0.64
3:D:1075:HIS:HB3	8:D:9589:HOH:O	1.98	0.64
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.78	0.64
2:M:1084:SER:O	2:M:1087:VAL:HG12	1.97	0.64
1:A:101:LEU:HG	1:A:114:PHE:HA	1.79	0.64
2:C:881:ASN:H	2:C:881:ASN:HD22	1.42	0.64
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.77	0.64
3:D:810:GLU:O	3:D:813:LEU:HG	1.98	0.64
2:M:565:GLN:OE1	2:M:842:ARG:HG2	1.98	0.64
2:M:678:PRO:HD2	8:N:9142:HOH:O	1.96	0.64
3:D:448:GLU:HG3	8:D:9492:HOH:O	1.98	0.64
3:D:1306:PRO:HB3	3:D:1307:LYS:HE3	1.79	0.64
2:M:627:ARG:HA	8:M:1225:HOH:O	1.96	0.64
2:M:636:ALA:HB2	2:M:703:ILE:HG22	1.80	0.64
3:N:448:GLU:HG2	8:N:9338:HOH:O	1.98	0.64
3:N:560:GLN:NE2	5:P:221:ILE:HB	2.13	0.64
1:A:18:ARG:HH12	1:A:88:ARG:NH2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:ARG:NH1	1:A:191:ASP:HB2	2.13	0.64
1:B:37:GLY:HA2	1:B:40:LEU:HD12	1.79	0.64
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.33	0.64
3:D:544:TYR:O	3:D:548:ILE:HG12	1.97	0.64
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.32	0.64
3:D:1129:THR:O	3:D:1130:ARG:HD2	1.98	0.64
3:D:1501:GLU:HA	8:D:9088:HOH:O	1.95	0.64
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.79	0.64
3:N:400:VAL:HG21	3:N:441:ARG:HH11	1.61	0.64
3:N:443:VAL:HG11	3:N:445:ARG:HE	1.63	0.64
3:N:615:ARG:HB2	3:N:615:ARG:NH1	2.13	0.64
3:N:698:LYS:HA	8:N:9643:HOH:O	1.98	0.64
3:N:1137:ARG:HA	3:N:1140:ILE:HD12	1.79	0.64
1:A:30:ARG:HH11	1:A:191:ASP:HB2	1.62	0.64
2:C:56:GLU:HG3	2:C:64:LEU:HD23	1.80	0.64
2:C:172:ILE:H	2:C:172:ILE:HD12	1.62	0.64
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.80	0.64
3:D:139:GLY:H	3:D:147:VAL:HG21	1.62	0.64
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.80	0.64
3:D:836:VAL:HG12	8:D:9602:HOH:O	1.96	0.64
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	1.97	0.64
3:D:1384:PRO:HD3	8:D:9043:HOH:O	1.98	0.64
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.79	0.64
5:F:273:ARG:HB3	8:F:555:HOH:O	1.97	0.64
2:M:16:PRO:HG2	2:M:460:ARG:HH12	1.61	0.64
2:M:93:PRO:HA	8:M:1237:HOH:O	1.97	0.64
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.32	0.64
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.80	0.64
3:N:907:GLU:O	3:N:911:LEU:HD13	1.98	0.64
1:B:103:ALA:O	1:B:138:LEU:HD23	1.98	0.64
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.13	0.64
3:D:804:LEU:HB2	3:D:830:ALA:O	1.98	0.64
1:K:36:LEU:O	1:K:39:PRO:HD2	1.98	0.64
1:K:100:LEU:HG	8:K:3093:HOH:O	1.97	0.64
2:M:367:LEU:O	2:M:372:LEU:HD13	1.97	0.64
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.62	0.64
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.80	0.64
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.64
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.79	0.64
3:N:917:GLN:HA	8:N:9246:HOH:O	1.98	0.64
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.19	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:317:LEU:HD23	5:P:330:GLY:HA3	1.79	0.64
5:P:403:LYS:HZ1	5:P:406:ARG:HD2	1.61	0.64
1:B:59:GLU:HG2	1:B:139:ASN:O	1.98	0.64
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.79	0.64
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.80	0.64
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.27	0.64
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.80	0.64
3:D:590:PRO:HA	8:D:2066:HOH:O	1.98	0.64
3:D:1215:VAL:HG23	8:D:9465:HOH:O	1.97	0.64
3:D:1459:LEU:HB2	3:D:1470:ARG:HH12	1.63	0.64
5:F:225:GLU:HB3	8:F:496:HOH:O	1.96	0.64
2:M:188:LYS:HD3	8:M:1768:HOH:O	1.96	0.64
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.33	0.64
2:M:1000:MET:O	2:M:1003:ASP:HB3	1.97	0.64
3:N:6:ARG:NH1	3:N:6:ARG:HB3	2.13	0.64
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.27	0.64
3:N:188:GLY:HA3	8:N:9237:HOH:O	1.97	0.64
3:N:422:ALA:H	3:N:427:VAL:CG1	2.11	0.64
3:N:693:GLU:HG3	4:O:48:MET:SD	2.38	0.64
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.98	0.64
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.98	0.64
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.98	0.64
5:P:95:THR:HB	5:P:96:LEU:HD23	1.78	0.64
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.80	0.63
1:B:123:MET:C	1:B:125:PRO:HD3	2.19	0.63
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.62	0.63
4:O:30:LEU:O	4:O:35:PHE:HA	1.97	0.63
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.13	0.63
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.79	0.63
2:C:704:HIS:CB	2:C:831:ARG:HE	2.10	0.63
2:C:716:LYS:HE2	8:F:558:HOH:O	1.98	0.63
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.80	0.63
3:D:804:LEU:HD23	3:D:804:LEU:H	1.63	0.63
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.80	0.63
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.28	0.63
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.14	0.63
3:N:65:ARG:HG3	3:N:66:GLN:H	1.61	0.63
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.79	0.63
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.81	0.63
5:P:351:SER:O	5:P:355:GLU:HB2	1.97	0.63
1:B:27:PRO:O	1:B:28:LEU:HD23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:THR:HG22	1:B:209:GLU:H	1.63	0.63
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.33	0.63
2:C:663:ASN:HB2	8:C:1359:HOH:O	1.97	0.63
2:C:859:PRO:O	2:C:867:VAL:HG22	1.97	0.63
3:D:510:GLU:O	3:D:513:ILE:HD12	1.99	0.63
3:D:1481:VAL:HG13	4:E:18:ARG:HE	1.62	0.63
1:L:108:GLU:HG2	8:L:2956:HOH:O	1.98	0.63
2:M:431:HIS:CD2	2:M:433:THR:H	2.16	0.63
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.81	0.63
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.80	0.63
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.62	0.63
1:A:97:VAL:HG23	8:A:316:HOH:O	1.99	0.63
1:A:128:HIS:HB2	8:A:408:HOH:O	1.96	0.63
3:D:64:LYS:HD3	5:F:376:ILE:O	1.99	0.63
3:D:178:LEU:HD21	8:D:9071:HOH:O	1.97	0.63
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.99	0.63
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.78	0.63
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.79	0.63
2:M:571:LEU:HD21	2:M:700:TYR:HD2	1.62	0.63
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.80	0.63
3:N:11:ALA:HB1	3:N:507:ASN:OD1	1.98	0.63
3:N:496:LEU:HD23	3:N:1388:ARG:HG2	1.80	0.63
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.79	0.63
3:D:1311:LEU:HA	8:D:9045:HOH:O	1.99	0.63
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.98	0.63
1:K:157:GLY:HA3	8:K:5051:HOH:O	1.99	0.63
1:K:197:LEU:HD23	1:K:197:LEU:H	1.62	0.63
2:M:432:ARG:HD2	2:M:519:GLY:HA3	1.80	0.63
2:M:833:LEU:HD11	2:M:849:VAL:HG21	1.79	0.63
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.29	0.63
3:N:25:GLU:HB2	8:N:9156:HOH:O	1.98	0.63
3:N:178:LEU:HD21	8:N:9082:HOH:O	1.97	0.63
3:N:240:GLU:HA	8:N:9487:HOH:O	1.97	0.63
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.62	0.63
1:A:36:LEU:O	1:A:39:PRO:HD2	1.98	0.63
1:B:80:LEU:HD21	8:D:9557:HOH:O	1.99	0.63
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.28	0.63
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.63	0.63
3:D:1047:LYS:HD2	3:D:1051:GLU:OE1	1.99	0.63
2:M:157:ARG:NE	2:M:158:TYR:H	1.95	0.63
2:M:841:ASN:C	2:M:841:ASN:HD22	2.02	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:899:GLN:HA	8:M:1664:HOH:O	1.97	0.63
3:N:116:LEU:O	3:N:118:LEU:HG	1.98	0.63
3:N:417:PRO:HA	5:P:168:LYS:NZ	2.13	0.63
3:N:699:VAL:HG12	3:N:717:GLN:HG3	1.80	0.63
2:C:220:GLY:HA3	8:C:1329:HOH:O	1.98	0.63
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.34	0.63
1:L:13:VAL:HA	8:L:3037:HOH:O	1.98	0.63
2:M:958:THR:OG1	2:M:961:GLU:HG2	1.98	0.63
2:M:983:ILE:CG2	2:M:987:ILE:HD11	2.29	0.63
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.81	0.63
3:D:139:GLY:O	3:D:147:VAL:HB	1.99	0.63
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.79	0.63
3:D:616:GLN:OE1	3:D:619:LEU:HB3	1.98	0.63
3:D:1096:ARG:HH11	3:D:1096:ARG:CB	2.11	0.63
5:F:317:LEU:O	5:F:329:TYR:HB3	1.99	0.63
2:M:397:GLU:H	2:M:633:GLN:HE22	1.47	0.63
2:M:1081:VAL:HG11	2:M:1111:ILE:HG22	1.81	0.63
3:N:1310:ARG:HD2	3:N:1327:ARG:NH2	2.12	0.63
4:O:93:TYR:HB2	8:O:3948:HOH:O	1.99	0.63
1:B:170:VAL:HG22	8:B:430:HOH:O	1.97	0.63
2:C:113:VAL:HG22	8:C:1632:HOH:O	1.97	0.63
2:C:462:ASP:HA	8:C:1164:HOH:O	1.97	0.63
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.62	0.63
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.81	0.63
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.81	0.63
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.79	0.63
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.34	0.63
4:O:5:GLY:O	4:O:9:LEU:HG	1.99	0.63
5:P:278:LEU:HD22	5:P:290:GLU:HB3	1.79	0.63
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.79	0.62
5:F:283:GLY:HA3	8:F:696:HOH:O	1.98	0.62
2:M:31:GLN:HA	8:M:1127:HOH:O	1.98	0.62
2:M:71:TYR:H	2:M:71:TYR:HD2	1.47	0.62
3:N:536:ALA:HA	5:P:315:VAL:O	1.99	0.62
3:N:810:GLU:O	3:N:813:LEU:HG	1.98	0.62
3:N:975:GLU:O	3:N:979:GLU:HG3	1.99	0.62
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.64	0.62
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.63	0.62
1:A:91:ASN:HB2	8:A:426:HOH:O	1.98	0.62
2:C:162:ILE:O	2:C:164:PRO:HD3	1.99	0.62
2:C:910:LYS:HB2	2:C:913:GLU:OE1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:817:GLU:O	3:D:821:VAL:HG23	1.99	0.62
3:D:1406:ARG:HA	8:D:2023:HOH:O	1.98	0.62
2:M:379:GLU:O	2:M:383:ARG:HB3	1.99	0.62
3:N:610:LYS:HG2	3:N:611:GLN:NE2	2.14	0.62
3:N:928:ALA:CA	3:N:931:LEU:HD12	2.29	0.62
3:N:1026:SER:HA	8:N:9094:HOH:O	1.99	0.62
3:D:156:GLU:H	3:D:156:GLU:CD	2.00	0.62
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.13	0.62
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.65	0.62
1:L:78:ILE:HA	8:L:2800:HOH:O	1.99	0.62
2:M:846:LYS:HE3	8:M:1413:HOH:O	1.99	0.62
2:M:890:LEU:HA	2:M:914:ILE:HD13	1.81	0.62
3:N:102:ILE:HD11	8:N:9432:HOH:O	1.99	0.62
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.80	0.62
1:B:212:ASN:O	1:B:215:VAL:HG22	2.00	0.62
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.28	0.62
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.80	0.62
2:C:937:ASP:HB2	2:C:940:GLU:HG3	1.80	0.62
3:D:142:LEU:HA	8:D:9173:HOH:O	1.97	0.62
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.81	0.62
1:L:30:ARG:HH11	1:L:30:ARG:HB2	1.64	0.62
2:M:809:GLY:HA2	8:M:1515:HOH:O	1.98	0.62
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.34	0.62
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.81	0.62
1:A:41:ARG:O	1:A:45:LEU:HD12	1.98	0.62
3:D:119:SER:HB2	3:D:123:LEU:N	2.11	0.62
3:D:1337:GLU:HA	8:D:2052:HOH:O	1.98	0.62
3:D:1372:VAL:HA	3:D:1375:MET:SD	2.39	0.62
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.81	0.62
2:M:584:GLU:CD	2:M:584:GLU:H	2.02	0.62
2:M:971:LYS:HA	2:M:988:VAL:HA	1.80	0.62
3:N:728:LEU:HA	8:N:9469:HOH:O	1.99	0.62
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.63	0.62
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.80	0.62
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.64	0.62
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.64	0.62
2:C:338:GLU:HA	2:C:341:THR:HG22	1.81	0.62
2:C:640:ARG:NH1	2:C:642:ARG:HH22	1.96	0.62
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.35	0.62
1:K:91:ASN:O	1:K:94:LEU:HD12	1.98	0.62
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.80	0.62
2:M:48:PHE:HD2	8:M:1223:HOH:O	1.82	0.62
2:M:676:ILE:O	2:M:676:ILE:HG23	1.98	0.62
3:N:62:LYS:HE2	3:N:75:ARG:NH1	2.15	0.62
3:N:783:ARG:HH21	3:N:1029:ARG:HG2	1.64	0.62
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.81	0.62
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.14	0.62
2:C:72:ARG:NH1	2:C:72:ARG:HB2	2.15	0.62
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.82	0.62
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.81	0.62
3:D:1214:PRO:HB2	8:D:2011:HOH:O	1.98	0.62
3:N:41:ARG:HD3	3:N:42:ASP:H	1.65	0.62
3:N:478:LEU:HD21	3:N:500:ARG:HH21	1.65	0.62
3:N:488:ARG:NH1	3:N:488:ARG:HB3	2.15	0.62
5:P:396:ARG:HB2	8:P:2872:HOH:O	2.00	0.62
2:C:3:ILE:HG22	8:C:1178:HOH:O	1.99	0.62
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.30	0.62
2:C:704:HIS:CD2	2:C:831:ARG:HH21	2.18	0.62
3:D:537:THR:O	5:F:317:LEU:HB2	1.99	0.62
3:D:723:GLY:HA3	8:D:9008:HOH:O	1.99	0.62
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.99	0.62
1:K:94:LEU:HD21	1:K:119:ASP:HB3	1.81	0.62
2:M:777:ILE:HG22	8:M:1241:HOH:O	2.00	0.62
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.30	0.62
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.80	0.62
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.82	0.62
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.34	0.62
3:D:28:LYS:HD3	3:D:41:ARG:CZ	2.29	0.62
3:D:570:GLU:OE2	5:F:214:GLN:HG3	1.98	0.62
4:E:26:ARG:HA	4:E:29:GLN:OE1	2.00	0.62
1:L:212:ASN:O	1:L:215:VAL:HG22	2.00	0.62
2:M:254:VAL:HG11	8:M:1850:HOH:O	1.99	0.62
3:N:178:LEU:HB2	8:N:9874:HOH:O	1.99	0.62
3:N:441:ARG:O	3:N:443:VAL:HG23	1.99	0.62
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.65	0.62
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.81	0.62
3:D:625:TYR:O	3:D:749:VAL:HG23	1.98	0.62
3:D:696:HIS:CD2	4:E:59:ASN:HB2	2.35	0.62
3:D:844:ALA:O	3:D:867:ARG:HB3	1.98	0.62
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.00	0.62
3:D:1389:LEU:HD12	3:D:1390:LEU:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:361:LEU:CD2	5:F:362:SER:H	2.13	0.62
1:K:20:TYR:HD2	1:K:21:GLY:H	1.47	0.62
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.82	0.62
2:M:495:THR:HB	2:M:530:GLU:HG3	1.82	0.62
2:M:768:THR:HB	2:M:771:GLU:HB3	1.82	0.62
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.30	0.62
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.81	0.62
5:P:277:GLN:O	5:P:280:GLN:HB3	1.99	0.62
5:P:361:LEU:HD23	5:P:362:SER:H	1.65	0.62
1:B:184:THR:HB	1:B:194:LYS:HZ3	1.63	0.61
2:C:71:TYR:H	2:C:71:TYR:HD2	1.48	0.61
2:C:686:ASP:H	3:D:740:PHE:HD1	1.48	0.61
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.81	0.61
3:D:605:ASP:HB3	8:D:2071:HOH:O	2.00	0.61
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.82	0.61
2:M:775:ARG:HD3	8:M:1274:HOH:O	1.99	0.61
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.81	0.61
2:M:976:ASP:CB	2:M:979:THR:HG22	2.29	0.61
8:M:1274:HOH:O	5:P:421:PHE:HE2	1.83	0.61
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.81	0.61
3:N:529:GLN:HG2	3:N:535:PHE:HE2	1.65	0.61
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.14	0.61
5:P:142:ARG:HD2	8:P:2896:HOH:O	1.99	0.61
5:P:347:GLN:HA	5:P:350:LEU:CD2	2.27	0.61
1:B:206:THR:CG2	1:B:209:GLU:H	2.13	0.61
2:C:89:THR:HG21	2:C:383:ARG:HH21	1.65	0.61
2:C:243:ARG:HB3	8:C:1850:HOH:O	1.99	0.61
3:D:85:VAL:O	3:D:89:ARG:HD3	1.99	0.61
3:D:117:ASP:HA	8:D:9025:HOH:O	2.00	0.61
3:D:1169:ASP:HB2	8:D:9180:HOH:O	1.99	0.61
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.64	0.61
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.64	0.61
2:M:16:PRO:CG	2:M:460:ARG:HH12	2.13	0.61
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.82	0.61
2:M:261:ILE:HD13	8:M:1497:HOH:O	2.00	0.61
8:M:1241:HOH:O	5:P:409:LYS:HB2	1.99	0.61
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.82	0.61
3:D:153:LEU:HD11	3:D:158:TYR:N	2.15	0.61
1:L:80:LEU:HD23	3:N:867:ARG:HH12	1.65	0.61
2:M:158:TYR:HD1	2:M:313:LEU:HD21	1.65	0.61
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:543:LEU:HA	3:N:546:ARG:HG3	1.82	0.61
1:B:97:VAL:HG13	8:B:346:HOH:O	2.00	0.61
2:C:49:ARG:HB2	2:C:49:ARG:NH1	2.14	0.61
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.81	0.61
2:C:94:LEU:HD21	8:C:1125:HOH:O	1.99	0.61
2:C:409:ARG:HA	2:C:454:SER:HA	1.80	0.61
2:C:1018:GLN:HE21	2:C:1063:ARG:HH22	1.48	0.61
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.82	0.61
3:D:675:ARG:HH21	5:F:421:PHE:N	1.97	0.61
2:M:244:PRO:HB2	8:M:1637:HOH:O	2.00	0.61
2:M:492:ASP:HB3	2:M:518:LYS:HD2	1.81	0.61
2:M:545:ASN:O	2:M:581:THR:HG21	2.00	0.61
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.35	0.61
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.82	0.61
3:N:400:VAL:HG21	3:N:441:ARG:NH1	2.15	0.61
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.00	0.61
5:P:262:VAL:HG12	5:P:266:GLU:OE1	2.00	0.61
1:A:123:MET:O	1:A:125:PRO:HD3	2.01	0.61
2:C:208:ALA:O	2:C:218:VAL:HG21	2.01	0.61
2:C:651:LYS:HA	8:C:1288:HOH:O	2.01	0.61
3:D:4:GLU:HA	8:D:9462:HOH:O	2.01	0.61
3:D:778:LEU:O	3:D:778:LEU:HD23	2.00	0.61
3:D:998:GLU:HA	8:D:9447:HOH:O	1.99	0.61
3:D:1021:TYR:CE1	3:D:1025:GLN:HG3	2.35	0.61
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.16	0.61
3:D:1302:GLU:HB3	8:D:2003:HOH:O	1.99	0.61
2:M:332:ARG:HG2	2:M:332:ARG:NH1	2.15	0.61
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.16	0.61
2:M:605:LYS:HD3	2:M:610:ARG:NH1	2.15	0.61
3:N:9:ARG:HG3	3:N:1455:LYS:O	2.01	0.61
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.30	0.61
5:P:400:ILE:HA	8:P:3326:HOH:O	1.99	0.61
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.30	0.61
1:A:86:VAL:HG21	1:A:202:ASP:O	2.00	0.61
2:C:532:MET:HG3	2:C:533:ASP:N	2.16	0.61
3:D:7:LYS:HD3	3:D:1456:LYS:HZ2	1.66	0.61
3:D:965:GLU:O	3:D:968:ASP:HB2	2.00	0.61
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.01	0.61
5:F:361:LEU:HD22	5:F:362:SER:H	1.65	0.61
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.83	0.61
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.81	0.61
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.83	0.61
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.81	0.61
1:L:100:LEU:O	1:L:115:LEU:HG	2.01	0.61
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.28	0.61
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.65	0.61
3:N:100:ALA:HA	8:N:9084:HOH:O	1.99	0.61
3:N:116:LEU:HB3	3:N:118:LEU:HD21	1.82	0.61
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.82	0.61
5:P:337:HIS:CD2	5:P:337:HIS:H	2.19	0.61
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.82	0.61
3:D:598:ARG:HH22	5:F:318:GLU:C	2.04	0.61
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.65	0.61
3:D:1033:GLN:HE22	3:D:1036:ARG:NH1	1.97	0.61
4:E:25:LYS:O	4:E:29:GLN:HG2	2.01	0.61
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.83	0.61
1:L:188:GLN:HG3	8:N:9878:HOH:O	2.01	0.61
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.81	0.61
3:N:123:LEU:HD11	3:N:152:LEU:HD21	1.82	0.61
3:N:172:PRO:HD2	3:N:389:GLU:O	2.01	0.61
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.81	0.61
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.31	0.61
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.81	0.61
2:C:431:HIS:H	2:C:434:HIS:CE1	2.18	0.61
2:C:575:GLN:N	2:C:667:ALA:HB1	2.15	0.61
2:C:976:ASP:CB	2:C:979:THR:HG22	2.31	0.61
3:D:133:ILE:HG22	3:D:455:ARG:N	2.15	0.61
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.83	0.61
2:M:63:GLY:HA3	2:M:103:LYS:HE2	1.82	0.61
2:M:807:ARG:CZ	2:M:807:ARG:HB2	2.30	0.61
3:N:164:GLY:HA2	8:N:9338:HOH:O	2.00	0.61
3:N:817:GLU:O	3:N:821:VAL:HG23	2.00	0.61
3:N:984:THR:HG22	3:N:987:GLU:H	1.65	0.61
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.00	0.61
2:C:605:LYS:HG3	2:C:612:VAL:HB	1.81	0.61
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.83	0.61
1:K:216:GLU:O	1:K:220:GLU:HG3	2.00	0.61
1:L:84:GLU:HB2	8:N:9025:HOH:O	2.01	0.61
3:N:842:VAL:HG23	8:N:9576:HOH:O	2.01	0.61
3:N:1324:PRO:HA	8:N:9087:HOH:O	2.00	0.61
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:537:LYS:H	2:C:537:LYS:HD2	1.65	0.60
2:C:1018:GLN:HG3	2:C:1060:ILE:HD13	1.82	0.60
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.36	0.60
3:D:1299:PHE:HB2	8:D:9130:HOH:O	2.01	0.60
3:N:661:MET:CE	3:N:677:LEU:HD11	2.31	0.60
3:N:1493:LYS:HA	3:N:1493:LYS:NZ	2.16	0.60
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.36	0.60
2:C:682:TYR:HE2	8:D:9907:HOH:O	1.85	0.60
2:C:724:ARG:CD	2:C:740:GLU:HA	2.31	0.60
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.81	0.60
2:C:833:LEU:HD12	2:C:834:GLN:N	2.17	0.60
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.01	0.60
3:D:190:GLU:HB3	8:D:9257:HOH:O	2.01	0.60
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.82	0.60
1:K:102:LYS:HE2	1:K:139:ASN:ND2	2.15	0.60
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.66	0.60
2:M:567:GLN:HB2	2:M:997:LEU:HD23	1.83	0.60
3:N:119:SER:N	3:N:123:LEU:HB2	2.16	0.60
3:N:130:SER:O	3:N:568:ARG:NH2	2.34	0.60
3:N:1468:LEU:HD13	3:N:1470:ARG:HB2	1.83	0.60
4:O:70:THR:HG21	4:O:72:ARG:NH2	2.16	0.60
5:P:403:LYS:HA	5:P:403:LYS:HZ2	1.65	0.60
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.60
1:B:5:LYS:O	1:B:8:ALA:HB2	2.02	0.60
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.83	0.60
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.81	0.60
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.16	0.60
3:D:966:GLU:HA	3:D:969:ARG:HD2	1.83	0.60
3:D:1320:GLU:HB2	3:D:1323:GLN:HE21	1.65	0.60
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.36	0.60
4:E:48:MET:N	4:E:54:LEU:HB2	2.15	0.60
1:K:5:LYS:O	1:K:8:ALA:HB2	2.01	0.60
1:K:58:ILE:HB	1:K:61:VAL:HB	1.83	0.60
1:L:2:LEU:HD12	1:L:3:ASP:H	1.66	0.60
2:M:39:ARG:HA	2:M:39:ARG:NE	2.16	0.60
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.37	0.60
3:N:35:ARG:HG3	3:N:36:THR:H	1.66	0.60
3:N:767:HIS:CD2	4:O:6:ILE:HG12	2.35	0.60
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.17	0.60
1:B:132:LEU:HD21	1:B:136:GLY:O	2.01	0.60
1:B:158:ILE:HD13	8:B:396:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:327:HIS:CE1	2:C:489:THR:HA	2.35	0.60
3:D:162:ARG:CZ	3:D:162:ARG:HB2	2.31	0.60
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.65	0.60
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.01	0.60
3:D:1307:LYS:H	3:D:1307:LYS:CD	2.14	0.60
5:F:112:ALA:O	5:F:116:LEU:HG	2.01	0.60
2:M:395:LYS:HE3	2:M:403:SER:OG	2.01	0.60
2:M:515:ALA:O	2:M:516:ARG:HD3	2.01	0.60
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.83	0.60
3:N:9:ARG:NH1	3:N:506:GLY:HA2	2.14	0.60
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.84	0.60
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.16	0.60
3:N:831:GLY:HA3	8:N:9080:HOH:O	2.01	0.60
3:N:950:GLY:H	3:N:953:ASP:HB2	1.66	0.60
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.83	0.60
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.36	0.60
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.36	0.60
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.83	0.60
2:C:193:LEU:HB2	8:C:1179:HOH:O	2.01	0.60
2:C:625:LEU:HD22	2:C:639:GLN:HB2	1.84	0.60
3:D:3:LYS:HE2	8:D:9538:HOH:O	2.01	0.60
3:D:1267:ARG:HH22	3:D:1333:HIS:CD2	2.17	0.60
3:D:1406:ARG:HH21	3:D:1407:LEU:HG	1.67	0.60
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.83	0.60
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.83	0.60
5:F:363:GLU:HA	5:F:367:MET:CE	2.31	0.60
1:K:227:ASN:H	1:K:227:ASN:ND2	1.94	0.60
1:L:36:LEU:O	1:L:39:PRO:HD2	2.02	0.60
2:M:902:ILE:HG13	8:M:1340:HOH:O	2.00	0.60
3:N:1124:GLN:N	3:N:1133:ARG:O	2.34	0.60
1:A:43:ILE:HG13	8:A:322:HOH:O	2.01	0.60
2:C:433:THR:HG21	2:C:488:ALA:CB	2.32	0.60
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.84	0.60
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.02	0.60
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.83	0.60
4:E:45:ARG:O	4:E:47:LYS:HE3	2.02	0.60
2:M:31:GLN:HB2	8:M:1418:HOH:O	2.00	0.60
2:M:154:ARG:NH2	2:M:156:GLY:HA3	2.15	0.60
2:M:775:ARG:HA	8:M:1274:HOH:O	2.01	0.60
2:M:914:ILE:HD11	2:M:918:LEU:HD13	1.84	0.60
3:N:1301:LYS:HB3	8:N:9539:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.84	0.60
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.84	0.60
3:D:65:ARG:HG2	8:D:9136:HOH:O	2.00	0.60
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.02	0.60
8:D:2041:HOH:O	4:E:80:VAL:HG21	2.00	0.60
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.37	0.60
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.83	0.60
1:B:29:GLU:HG3	8:B:446:HOH:O	2.00	0.60
2:C:542:VAL:HG23	2:C:543:ASN:H	1.65	0.60
2:C:698:ASP:HA	8:C:1248:HOH:O	2.00	0.60
2:C:1115:LEU:HD12	2:C:1115:LEU:H	1.67	0.60
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.83	0.60
3:D:491:LYS:HD3	3:D:492:ALA:N	2.17	0.60
3:D:891:GLU:HG3	8:D:2090:HOH:O	2.01	0.60
1:L:123:MET:C	1:L:125:PRO:HD3	2.22	0.60
2:M:455:LEU:HD12	2:M:456:ALA:O	2.01	0.60
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.15	0.60
3:N:865:THR:CG2	3:N:874:GLU:HG3	2.32	0.60
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.16	0.60
5:P:416:ARG:CZ	5:P:419:ARG:HB2	2.31	0.60
2:C:19:THR:O	2:C:23:VAL:HG23	2.02	0.60
2:C:241:LEU:HB2	8:C:1346:HOH:O	2.02	0.60
2:C:493:ARG:HD2	8:C:1692:HOH:O	2.02	0.60
2:C:569:VAL:HG12	2:C:996:LYS:O	2.01	0.60
2:C:583:LEU:O	2:C:587:VAL:HG23	2.02	0.60
2:C:1014:SER:OG	5:F:331:ASP:HA	2.01	0.60
3:D:660:LYS:HA	3:D:660:LYS:HE3	1.84	0.60
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	1.84	0.60
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.32	0.60
1:L:98:THR:HB	8:L:4416:HOH:O	2.02	0.60
2:M:64:LEU:HA	8:M:1327:HOH:O	2.00	0.60
2:M:367:LEU:HD11	8:M:1686:HOH:O	2.01	0.60
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.83	0.60
2:M:1080:SER:HA	8:M:1763:HOH:O	2.02	0.60
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.83	0.60
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.82	0.60
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.83	0.60
3:N:1389:LEU:HD12	3:N:1390:LEU:N	2.16	0.60
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.02	0.60
1:A:198:ARG:HH21	2:C:932:GLU:HG2	1.66	0.60
2:C:408:ARG:NH1	2:C:455:LEU:HG	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.81	0.60
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.67	0.60
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.17	0.60
3:D:1459:LEU:HD13	3:D:1470:ARG:NH1	2.16	0.60
5:F:85:LEU:HD12	8:F:574:HOH:O	2.01	0.60
5:F:356:LYS:O	5:F:360:LYS:HG2	2.02	0.60
1:L:219:ARG:HB3	1:L:219:ARG:NH1	2.14	0.60
2:M:208:ALA:O	2:M:218:VAL:HG21	2.02	0.60
5:P:261:PRO:O	5:P:265:VAL:HG23	2.02	0.60
5:P:359:SER:HA	8:P:4306:HOH:O	2.02	0.60
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.67	0.59
2:C:211:LEU:HD11	2:C:308:ARG:HA	1.83	0.59
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.66	0.59
2:C:585:GLU:O	2:C:588:VAL:HG22	2.01	0.59
3:D:540:LEU:HA	3:D:543:LEU:HD12	1.84	0.59
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.17	0.59
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.84	0.59
3:D:1243:THR:OG1	3:D:1253:THR:HB	2.02	0.59
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.84	0.59
3:D:1463:LYS:O	3:D:1467:ILE:HD12	2.01	0.59
5:F:126:LEU:O	5:F:130:VAL:HG23	2.02	0.59
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.32	0.59
2:M:769:PRO:HB2	8:N:9172:HOH:O	2.02	0.59
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.85	0.59
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.18	0.59
2:M:1097:LEU:H	2:M:1097:LEU:HD22	1.67	0.59
2:C:398:THR:OG1	2:C:633:GLN:HG3	2.02	0.59
3:D:601:ARG:NH2	3:D:612:GLY:HA2	2.17	0.59
3:D:734:GLU:HB3	8:D:9079:HOH:O	2.03	0.59
2:M:41:ASN:O	2:M:46:ALA:HB2	2.02	0.59
2:M:89:THR:HA	2:M:129:ILE:O	2.03	0.59
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.66	0.59
2:M:626:ARG:H	2:M:639:GLN:NE2	2.00	0.59
3:N:471:GLU:O	3:N:475:LYS:HD2	2.02	0.59
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.84	0.59
5:P:404:ALA:O	5:P:408:LEU:HD23	2.02	0.59
2:C:116:GLY:HA3	2:C:378:LEU:HD23	1.84	0.59
2:C:181:VAL:HB	8:C:1316:HOH:O	2.02	0.59
2:C:317:VAL:HG12	8:C:1247:HOH:O	2.02	0.59
2:C:530:GLU:HA	8:C:1268:HOH:O	2.03	0.59
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:168:THR:HA	8:D:9120:HOH:O	2.02	0.59
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.67	0.59
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.32	0.59
1:K:156:HIS:HD2	1:K:157:GLY:H	1.49	0.59
1:L:175:ARG:O	3:N:851:LEU:HD21	2.03	0.59
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.32	0.59
2:M:1002:GLU:HG2	8:P:3095:HOH:O	2.02	0.59
3:N:397:LYS:HD3	8:N:9216:HOH:O	2.01	0.59
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.84	0.59
2:C:602:GLU:HA	2:C:647:GLN:O	2.03	0.59
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.32	0.59
3:D:1385:GLY:HA2	8:D:9279:HOH:O	2.01	0.59
1:L:180:GLN:HG2	8:N:9258:HOH:O	2.02	0.59
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.84	0.59
2:M:342:ASP:O	2:M:346:VAL:HG23	2.02	0.59
2:M:904:PRO:HA	8:M:1161:HOH:O	2.01	0.59
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.84	0.59
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.68	0.59
3:N:847:ASP:HA	3:N:850:LEU:HD13	1.84	0.59
3:N:907:GLU:HG2	3:N:908:LYS:N	2.18	0.59
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.32	0.59
2:C:22:GLN:O	2:C:121:MET:HE1	2.02	0.59
2:C:25:SER:CB	2:C:335:THR:HB	2.32	0.59
2:C:895:TYR:HD1	2:C:991:GLN:HE21	1.51	0.59
3:D:1061:PHE:HA	8:D:9283:HOH:O	2.01	0.59
3:D:1157:GLY:HA2	8:D:9700:HOH:O	2.02	0.59
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.31	0.59
1:K:141:GLU:HA	8:K:3093:HOH:O	2.00	0.59
1:L:180:GLN:HA	8:N:9258:HOH:O	2.02	0.59
3:N:152:LEU:HD23	3:N:152:LEU:N	2.15	0.59
3:N:462:GLN:HG3	3:N:513:ILE:HD13	1.83	0.59
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.84	0.59
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.02	0.59
3:N:1267:ARG:HB2	3:N:1267:ARG:HH11	1.67	0.59
2:C:709:GLU:CD	2:C:824:ARG:HH12	2.05	0.59
2:C:720:GLU:HA	2:C:759:THR:O	2.03	0.59
2:C:983:ILE:HG23	3:D:944:THR:O	2.02	0.59
3:D:491:LYS:HB2	8:D:9725:HOH:O	2.02	0.59
3:D:764:LEU:HB3	8:D:9083:HOH:O	2.02	0.59
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.83	0.59
3:D:1354:LYS:HD2	8:D:9706:HOH:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.85	0.59
1:K:14:ARG:HG3	1:K:22:GLU:HB2	1.85	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.83	0.59
2:M:332:ARG:HG2	2:M:332:ARG:HH11	1.67	0.59
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.33	0.59
2:M:798:GLY:H	2:M:827:VAL:CG1	2.15	0.59
2:M:1014:SER:HB3	2:M:1017:THR:O	2.02	0.59
3:N:705:ALA:HB2	8:N:9482:HOH:O	2.02	0.59
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.67	0.59
2:C:51:THR:HB	2:C:348:LEU:HD23	1.85	0.59
2:C:135:VAL:O	2:C:392:SER:HA	2.03	0.59
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.85	0.59
3:D:1304:LYS:HA	8:D:9240:HOH:O	2.02	0.59
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.85	0.59
2:M:938:LYS:HB3	2:M:939:ARG:HH21	1.67	0.59
3:N:149:LYS:HD3	8:N:9307:HOH:O	2.02	0.59
5:P:166:LEU:O	5:P:171:LYS:HB2	2.02	0.59
1:A:133:GLU:HG2	1:A:134:GLU:N	2.16	0.59
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.33	0.59
2:C:905:ILE:H	2:C:905:ILE:CD1	2.07	0.59
3:D:1050:GLY:HA2	8:D:9344:HOH:O	2.02	0.59
8:K:3080:HOH:O	1:L:36:LEU:HD12	2.02	0.59
1:L:64:GLU:HG3	8:L:3767:HOH:O	2.01	0.59
1:L:80:LEU:HD23	3:N:867:ARG:NH1	2.18	0.59
1:L:117:VAL:HG13	8:L:3779:HOH:O	2.02	0.59
2:M:173:ASP:O	2:M:184:MET:HA	2.03	0.59
2:M:274:ARG:NH2	2:M:284:ARG:HG2	2.17	0.59
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.85	0.59
2:M:1015:LEU:HB2	5:P:334:PRO:O	2.02	0.59
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.31	0.59
3:N:169:TYR:H	3:N:169:TYR:HD1	1.49	0.59
3:N:588:GLY:HA2	8:N:9699:HOH:O	2.03	0.59
3:N:679:ARG:HB2	3:N:682:ASP:OD1	2.02	0.59
3:N:920:LEU:HB2	8:N:9246:HOH:O	2.01	0.59
2:C:70:GLU:HA	8:C:1554:HOH:O	2.03	0.59
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.84	0.59
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.83	0.59
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.85	0.59
2:C:778:PHE:CZ	5:F:409:LYS:HB2	2.38	0.59
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:380:GLU:O	3:D:382:GLU:N	2.35	0.59
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.84	0.59
3:D:817:GLU:HG3	3:D:840:LYS:HZ2	1.68	0.59
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.01	0.59
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.84	0.59
5:F:102:LEU:O	5:F:106:VAL:HG23	2.03	0.59
3:N:984:THR:HB	3:N:987:GLU:OE1	2.01	0.59
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.07	0.59
3:N:1091:SER:HA	8:N:9056:HOH:O	2.02	0.59
5:P:245:GLN:HB3	8:P:4764:HOH:O	2.02	0.59
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.85	0.59
1:B:101:LEU:HG	1:B:114:PHE:HA	1.84	0.59
2:C:313:LEU:HD13	2:C:321:GLU:O	2.02	0.59
2:C:798:GLY:HA3	2:C:828:ALA:O	2.03	0.59
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.85	0.59
3:D:500:ARG:HG3	3:D:500:ARG:HH11	1.68	0.59
4:E:88:GLU:OE1	4:E:91:ARG:HD2	2.03	0.59
5:F:416:ARG:HB3	8:F:511:HOH:O	2.02	0.59
5:F:420:ASP:O	5:F:422:LEU:HD23	2.03	0.59
2:M:691:SER:HB2	2:M:858:MET:SD	2.42	0.59
2:M:714:ASP:HB2	8:M:1654:HOH:O	2.03	0.59
3:N:125:GLN:HE22	3:N:587:ARG:HH21	1.51	0.59
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.33	0.59
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.38	0.58
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.38	0.58
3:D:424:GLY:HA2	3:D:435:VAL:O	2.02	0.58
1:L:62:LEU:HD12	1:L:62:LEU:H	1.67	0.58
2:M:1090:LYS:HE3	3:N:88:TYR:O	2.03	0.58
3:N:629:SER:O	3:N:744:GLN:HG2	2.03	0.58
3:N:984:THR:H	3:N:987:GLU:CD	2.07	0.58
5:P:85:LEU:HD22	5:P:193:ARG:HD3	1.84	0.58
1:A:216:GLU:HG2	8:A:475:HOH:O	2.02	0.58
2:C:49:ARG:HG3	2:C:266:ARG:HH22	1.68	0.58
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.18	0.58
1:K:126:ASP:HB3	8:K:4974:HOH:O	2.03	0.58
2:M:604:ALA:HB3	2:M:612:VAL:O	2.03	0.58
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.04	0.58
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.84	0.58
2:C:578:VAL:HG13	2:C:671:ASN:HB3	1.86	0.58
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.68	0.58
3:D:420:VAL:HG23	8:D:9627:HOH:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:637:LEU:HD11	3:D:641:GLN:HB2	1.84	0.58
3:D:1412:LYS:HG3	8:D:9515:HOH:O	2.03	0.58
5:F:168:LYS:HG3	8:F:516:HOH:O	2.03	0.58
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.83	0.58
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.84	0.58
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.84	0.58
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.02	0.58
2:M:580:MET:HB3	2:M:584:GLU:CD	2.23	0.58
3:N:1124:GLN:HG2	3:N:1133:ARG:HG2	1.85	0.58
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.02	0.58
3:D:907:GLU:HG2	3:D:1027:GLY:N	2.17	0.58
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.85	0.58
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.68	0.58
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.02	0.58
2:M:162:ILE:O	2:M:164:PRO:HD3	2.02	0.58
2:M:357:GLU:O	2:M:360:LEU:HG	2.04	0.58
2:M:575:GLN:H	2:M:667:ALA:HB1	1.68	0.58
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.84	0.58
2:M:722:ILE:HG13	2:M:757:GLY:O	2.02	0.58
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.67	0.58
3:N:947:ILE:O	3:N:947:ILE:HD12	2.03	0.58
3:N:1304:LYS:HA	8:N:2011:HOH:O	2.03	0.58
5:P:152:ASP:HA	8:P:2840:HOH:O	2.03	0.58
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.84	0.58
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.33	0.58
5:P:393:THR:HG22	5:P:394:ARG:H	1.66	0.58
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.17	0.58
2:C:139:GLN:HA	2:C:411:SER:O	2.03	0.58
2:C:487:THR:HA	8:C:1431:HOH:O	2.02	0.58
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.83	0.58
5:F:129:GLU:HB3	5:F:142:ARG:HH21	1.67	0.58
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.85	0.58
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.32	0.58
5:P:358:LEU:HD11	5:P:370:LYS:NZ	2.19	0.58
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.68	0.58
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.86	0.58
2:C:166:PRO:HD3	2:C:265:ARG:HE	1.68	0.58
2:C:437:ARG:O	2:C:467:ILE:HD13	2.04	0.58
2:C:690:ILE:HD13	2:C:833:LEU:HD21	1.84	0.58
2:C:881:ASN:HD22	2:C:881:ASN:N	1.99	0.58
2:C:1032:PHE:CE1	2:C:1052:MET:HG2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.86	0.58
3:D:28:LYS:HB2	8:D:9050:HOH:O	2.03	0.58
3:D:523:ASP:O	3:D:526:PRO:HG3	2.04	0.58
3:D:704:ARG:HE	3:D:705:ALA:H	1.50	0.58
3:D:877:PRO:O	3:D:880:ILE:HG22	2.03	0.58
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.86	0.58
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.33	0.58
5:F:278:LEU:O	5:F:282:LEU:HG	2.03	0.58
5:F:282:LEU:HD12	5:F:284:ARG:O	2.03	0.58
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.86	0.58
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.84	0.58
3:N:1122:LEU:O	3:N:1134:LEU:HD23	2.04	0.58
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.04	0.58
4:O:47:LYS:HE2	4:O:47:LYS:N	2.19	0.58
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.33	0.58
2:C:110:GLU:HB2	2:C:368:THR:HB	1.86	0.58
3:D:41:ARG:HD2	8:D:9050:HOH:O	2.03	0.58
2:M:210:GLU:HA	8:M:1749:HOH:O	2.03	0.58
3:N:756:GLN:O	3:N:760:ARG:HG2	2.04	0.58
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.34	0.58
1:B:10:VAL:HA	8:B:381:HOH:O	2.02	0.58
1:B:80:LEU:HD11	8:D:9557:HOH:O	2.04	0.58
2:C:44:ILE:HB	8:C:1185:HOH:O	2.04	0.58
2:C:897:LEU:HG	2:C:920:GLN:NE2	2.19	0.58
3:D:865:THR:HG23	3:D:874:GLU:HG2	1.84	0.58
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.68	0.58
2:M:460:ARG:HD2	2:M:485:TYR:CE2	2.38	0.58
3:N:131:LYS:HA	3:N:456:MET:HG3	1.86	0.58
5:P:392:VAL:HG12	8:P:2872:HOH:O	2.04	0.58
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.04	0.58
2:C:159:ILE:HG22	8:C:1786:HOH:O	2.03	0.58
2:C:758:ARG:HB3	2:C:788:THR:O	2.04	0.58
2:C:946:ARG:HB2	8:C:1715:HOH:O	2.03	0.58
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.33	0.58
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.33	0.58
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.39	0.58
5:F:291:ILE:O	5:F:295:MET:HB2	2.03	0.58
1:L:23:PHE:HD1	8:L:3037:HOH:O	1.86	0.58
2:M:342:ASP:O	2:M:345:ARG:HG3	2.04	0.58
2:M:807:ARG:HB2	2:M:807:ARG:NH1	2.18	0.58
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:998:GLU:HG3	8:N:9582:HOH:O	2.04	0.58
5:P:93:LEU:HD12	5:P:191:ASN:HD21	1.68	0.58
5:P:232:ARG:HB3	8:P:3790:HOH:O	2.03	0.58
1:A:36:LEU:O	1:A:40:LEU:HG	2.03	0.58
1:A:57:TYR:CE2	1:A:59:GLU:HA	2.39	0.58
2:C:276:LYS:O	2:C:280:LYS:HB2	2.04	0.58
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.84	0.58
2:C:695:LEU:HD22	2:C:832:LYS:HG2	1.86	0.58
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.84	0.58
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.04	0.58
3:D:28:LYS:HG2	8:D:9642:HOH:O	2.04	0.58
3:D:178:LEU:HD21	3:D:199:LEU:H	1.69	0.58
3:D:470:LEU:HD11	3:D:509:PRO:HG3	1.86	0.58
3:D:619:LEU:HB2	8:D:9069:HOH:O	2.04	0.58
3:D:1341:PRO:O	3:D:1344:VAL:HG23	2.04	0.58
3:D:1491:THR:O	3:D:1495:ILE:HD13	2.04	0.58
5:F:218:GLN:HE21	5:F:221:ILE:HD12	1.67	0.58
5:F:220:LEU:O	5:F:224:VAL:HG23	2.03	0.58
1:K:39:PRO:O	1:K:43:ILE:HG12	2.04	0.58
1:K:152:PRO:HD2	1:K:155:LYS:HG3	1.85	0.58
2:M:166:PRO:HD3	2:M:265:ARG:HG3	1.85	0.58
2:M:276:LYS:O	2:M:280:LYS:HB2	2.02	0.58
2:M:1111:ILE:CD1	2:M:1112:PHE:H	2.14	0.58
3:N:184:GLU:HA	8:N:9224:HOH:O	2.04	0.58
3:N:1356:TYR:CD2	3:N:1363:LEU:HD23	2.39	0.58
5:P:154:LYS:HB3	8:P:3247:HOH:O	2.03	0.58
5:P:220:LEU:O	5:P:224:VAL:HG23	2.04	0.58
1:A:103:ALA:HB2	8:A:343:HOH:O	2.03	0.57
1:A:211:LEU:O	1:A:215:VAL:HG13	2.04	0.57
2:C:29:ALA:HB2	2:C:337:GLY:HA2	1.86	0.57
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.86	0.57
2:C:433:THR:HA	8:C:1154:HOH:O	2.02	0.57
2:C:847:GLY:HA3	8:C:1126:HOH:O	2.04	0.57
3:D:675:ARG:O	3:D:678:GLU:HG2	2.04	0.57
3:D:920:LEU:HD21	8:D:9121:HOH:O	2.03	0.57
3:D:957:PRO:HB3	3:D:959:GLU:OE1	2.04	0.57
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.38	0.57
3:D:1164:ARG:HH11	3:D:1164:ARG:HG3	1.68	0.57
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.67	0.57
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.86	0.57
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:119:SER:OG	3:N:123:LEU:HD13	2.03	0.57
3:N:810:GLU:HA	3:N:813:LEU:HD23	1.84	0.57
5:P:187:LEU:HD23	5:P:191:ASN:ND2	2.18	0.57
1:A:178:ALA:CB	2:C:864:GLY:H	2.18	0.57
1:A:191:ASP:O	1:A:192:LEU:HD23	2.04	0.57
1:B:150:TYR:CD2	3:D:857:ILE:HG13	2.38	0.57
2:C:200:LEU:HB2	8:C:1211:HOH:O	2.04	0.57
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.19	0.57
2:C:752:GLY:H	2:C:792:VAL:HB	1.70	0.57
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.68	0.57
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.86	0.57
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.33	0.57
2:M:503:LEU:HB3	8:M:1190:HOH:O	2.04	0.57
2:M:678:PRO:HG2	3:N:947:ILE:HD11	1.85	0.57
2:M:759:THR:HB	2:M:785:VAL:HG21	1.87	0.57
5:P:362:SER:O	5:P:367:MET:HE2	2.04	0.57
2:C:320:HIS:HB2	8:C:1663:HOH:O	2.04	0.57
3:D:153:LEU:HD12	3:D:154:THR:H	1.69	0.57
3:D:1232:PRO:HA	3:D:1235:GLN:OE1	2.04	0.57
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.34	0.57
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.85	0.57
2:M:328:LEU:H	2:M:433:THR:HG21	1.69	0.57
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.87	0.57
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.35	0.57
5:P:81:VAL:HG12	5:P:85:LEU:HG	1.86	0.57
1:A:46:SER:HB3	2:C:856:GLU:HG3	1.86	0.57
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.05	0.57
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.26	0.57
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.86	0.57
3:D:1209:LEU:HD11	4:E:16:LYS:HD3	1.87	0.57
3:D:1285:GLU:CD	3:D:1285:GLU:H	2.08	0.57
1:L:143:ARG:HH12	1:L:158:ILE:HD12	1.68	0.57
2:M:27:ARG:HD2	8:M:1403:HOH:O	2.04	0.57
2:M:874:LEU:CD1	3:N:783:ARG:HB2	2.35	0.57
3:N:823:LEU:HD11	8:N:9446:HOH:O	2.03	0.57
3:N:1127:GLU:HG3	3:N:1133:ARG:NH1	2.18	0.57
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.85	0.57
3:N:1433:SER:HB2	3:N:1457:ASP:OD1	2.04	0.57
5:P:93:LEU:HG	5:P:190:ALA:CB	2.34	0.57
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.86	0.57
2:C:157:ARG:HA	8:C:1144:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:177:GLU:HB3	8:C:1316:HOH:O	2.02	0.57
2:C:750:LYS:HB2	3:D:681:ARG:NH2	2.19	0.57
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.03	0.57
3:D:105:VAL:HG13	3:D:124:GLU:OE1	2.05	0.57
3:D:159:ARG:HB2	3:D:159:ARG:HH11	1.69	0.57
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.39	0.57
5:F:120:THR:HA	8:F:562:HOH:O	2.04	0.57
1:K:162:ILE:HG13	1:K:163:ASN:OD1	2.04	0.57
2:M:318:PRO:HD3	8:M:1200:HOH:O	2.05	0.57
3:N:399:ARG:HG2	8:N:9313:HOH:O	2.04	0.57
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.05	0.57
2:C:157:ARG:CZ	2:C:314:THR:HA	2.34	0.57
2:C:575:GLN:H	2:C:667:ALA:HB1	1.68	0.57
2:C:626:ARG:H	2:C:639:GLN:HE21	1.51	0.57
2:C:769:PRO:O	2:C:772:ARG:HB3	2.05	0.57
2:C:885:ILE:HG23	3:D:949:ILE:O	2.05	0.57
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.86	0.57
3:D:42:ASP:O	3:D:46:ASP:HB2	2.04	0.57
3:D:159:ARG:HB2	3:D:159:ARG:NH1	2.20	0.57
3:D:478:LEU:HD23	3:D:496:LEU:HD21	1.86	0.57
3:D:840:LYS:HD2	8:D:9835:HOH:O	2.05	0.57
2:M:473:ARG:HD2	2:M:475:VAL:HG22	1.85	0.57
2:M:534:VAL:N	2:M:538:GLN:HE22	2.01	0.57
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.86	0.57
3:N:524:LEU:HD23	8:N:9282:HOH:O	2.04	0.57
3:N:899:LEU:HB3	3:N:921:ARG:NH1	2.19	0.57
4:O:54:LEU:O	4:O:54:LEU:HD23	2.04	0.57
5:P:385:GLU:O	5:P:397:ILE:HD13	2.04	0.57
1:A:127:LEU:HD12	1:A:128:HIS:N	2.18	0.57
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.20	0.57
2:C:724:ARG:NE	2:C:737:LEU:O	2.38	0.57
3:D:30:GLU:HA	8:D:9510:HOH:O	2.05	0.57
3:D:56:TYR:CE2	3:D:66:GLN:HA	2.39	0.57
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.38	0.57
3:D:1377:LYS:HE2	3:D:1394:VAL:HG22	1.87	0.57
3:D:1389:LEU:HD12	3:D:1390:LEU:H	1.68	0.57
8:D:2049:HOH:O	5:F:168:LYS:HE3	2.03	0.57
1:L:143:ARG:HH11	1:L:158:ILE:CG2	2.17	0.57
2:M:10:ARG:CZ	2:M:10:ARG:HA	2.34	0.57
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.86	0.57
2:M:139:GLN:NE2	2:M:418:LEU:HD22	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.33	0.57
2:M:516:ARG:NE	3:N:1068:LEU:HD22	2.20	0.57
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.86	0.57
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.39	0.57
3:N:1128:VAL:HB	8:N:9347:HOH:O	2.05	0.57
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.85	0.57
2:C:300:ASP:HB2	8:C:1289:HOH:O	2.04	0.57
3:D:235:ALA:HB3	8:D:2026:HOH:O	2.04	0.57
3:D:397:LYS:HG3	8:D:9912:HOH:O	2.05	0.57
3:D:637:LEU:CD1	3:D:641:GLN:HB2	2.33	0.57
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.87	0.57
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.04	0.57
4:E:54:LEU:HD23	4:E:54:LEU:O	2.05	0.57
5:F:385:GLU:O	5:F:397:ILE:HD13	2.05	0.57
2:M:145:GLY:O	2:M:163:ILE:HG23	2.04	0.57
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.31	0.57
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.20	0.57
2:M:820:ARG:HD3	2:M:821:GLU:HB3	1.86	0.57
2:M:1006:HIS:O	3:N:648:MET:HE2	2.04	0.57
2:M:1106:ASP:OD1	3:N:7:LYS:HD2	2.05	0.57
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.57
3:N:1231:GLU:OE1	3:N:1232:PRO:HG3	2.04	0.57
4:O:17:TYR:CD2	4:O:17:TYR:N	2.72	0.57
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.87	0.57
1:A:137:ARG:HD2	1:A:137:ARG:H	1.68	0.57
1:B:196:THR:HG23	8:B:382:HOH:O	2.05	0.57
2:C:41:ASN:O	2:C:46:ALA:HB2	2.05	0.57
2:C:882:LEU:HD22	3:D:951:ILE:HD13	1.85	0.57
3:D:519:VAL:HA	3:D:544:TYR:OH	2.05	0.57
3:D:1491:THR:HG23	8:D:9315:HOH:O	2.03	0.57
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.86	0.57
1:K:68:ILE:HD13	1:K:138:LEU:HD11	1.86	0.57
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.40	0.57
3:N:119:SER:N	3:N:123:LEU:HD22	2.18	0.57
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.86	0.57
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.85	0.57
2:C:498:GLN:OE1	3:D:1067:VAL:HB	2.05	0.57
2:C:945:ARG:NH1	2:C:945:ARG:HB3	2.20	0.57
3:D:210:ARG:HB3	3:D:210:ARG:NH1	2.20	0.57
3:D:427:VAL:HB	3:D:435:VAL:HB	1.87	0.57
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:43:GLU:HG2	4:E:44:GLU:H	1.69	0.57
5:F:139:ALA:HB2	8:F:644:HOH:O	2.04	0.57
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.40	0.57
1:L:27:PRO:O	1:L:28:LEU:HD23	2.03	0.57
2:M:680:ASP:HB2	2:M:682:TYR:CD2	2.40	0.57
3:N:53:ILE:HG23	3:N:54:LYS:N	2.19	0.57
3:N:679:ARG:HD2	8:N:9182:HOH:O	2.03	0.57
3:N:899:LEU:HB3	3:N:921:ARG:HH12	1.70	0.57
3:N:988:ARG:HD2	3:N:989:TYR:N	2.20	0.57
3:N:1406:ARG:HD2	3:N:1412:LYS:HD2	1.86	0.57
1:B:228:PRO:O	1:B:229:GLN:HG3	2.05	0.56
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.87	0.56
2:C:604:ALA:HB3	2:C:612:VAL:O	2.04	0.56
2:C:674:VAL:HG23	2:C:869:VAL:O	2.05	0.56
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.35	0.56
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.69	0.56
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.35	0.56
2:M:26:TYR:HD2	2:M:121:MET:HB2	1.70	0.56
2:M:206:THR:HA	8:M:1787:HOH:O	2.05	0.56
3:N:799:LYS:H	3:N:826:PRO:HG2	1.70	0.56
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.86	0.56
2:C:630:ARG:NH1	2:C:630:ARG:HG2	2.20	0.56
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.87	0.56
3:D:133:ILE:HG23	3:D:456:MET:SD	2.46	0.56
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.70	0.56
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.05	0.56
1:L:14:ARG:HG2	8:L:3275:HOH:O	2.04	0.56
2:M:569:VAL:HG12	2:M:996:LYS:O	2.05	0.56
2:M:674:VAL:HG23	2:M:869:VAL:O	2.05	0.56
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.35	0.56
3:N:197:SER:CB	3:N:203:ALA:HB3	2.27	0.56
3:N:486:ARG:HB3	8:N:9366:HOH:O	2.05	0.56
5:P:350:LEU:HG	5:P:354:LEU:HD12	1.87	0.56
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.71	0.56
1:B:57:TYR:HB3	1:B:141:GLU:HG2	1.86	0.56
2:C:97:ARG:HD2	8:C:1601:HOH:O	2.06	0.56
2:C:231:PRO:HB3	8:C:1721:HOH:O	2.04	0.56
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.34	0.56
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.45	0.56
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.21	0.56
3:D:386:HIS:HA	8:D:9065:HOH:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.68	0.56
3:D:1200:VAL:HG22	3:D:1373:ARG:NH1	2.20	0.56
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.86	0.56
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.87	0.56
1:K:123:MET:O	1:K:125:PRO:HD3	2.05	0.56
2:M:460:ARG:NH1	2:M:460:ARG:HB3	2.20	0.56
3:N:835:SER:HA	8:N:9080:HOH:O	2.05	0.56
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.86	0.56
4:O:48:MET:HG2	4:O:49:GLN:H	1.70	0.56
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.30	0.56
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.86	0.56
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.20	0.56
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.87	0.56
1:A:40:LEU:O	1:A:44:LEU:HD12	2.05	0.56
3:D:93:ILE:CD1	3:D:548:ILE:HD13	2.36	0.56
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.88	0.56
3:D:703:ASN:ND2	3:D:704:ARG:H	2.03	0.56
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.88	0.56
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.26	0.56
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.69	0.56
2:M:139:GLN:O	2:M:333:ILE:HA	2.05	0.56
2:M:580:MET:SD	2:M:584:GLU:HG3	2.46	0.56
2:M:1042:ALA:HB3	3:N:710:ARG:HB3	1.87	0.56
3:N:42:ASP:O	3:N:46:ASP:HB2	2.06	0.56
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.30	0.56
3:N:953:ASP:HA	8:N:9114:HOH:O	2.05	0.56
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.04	0.56
1:A:62:LEU:HD12	8:A:375:HOH:O	2.04	0.56
2:C:736:ASP:HA	2:C:744:ARG:NH1	2.21	0.56
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.36	0.56
3:D:422:ALA:H	3:D:427:VAL:CG1	2.18	0.56
3:D:639:LEU:HD22	3:D:766:ALA:HA	1.87	0.56
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.69	0.56
3:D:1307:LYS:H	3:D:1307:LYS:HD3	1.71	0.56
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.87	0.56
1:K:20:TYR:CD2	1:K:21:GLY:N	2.74	0.56
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.35	0.56
3:N:459:GLU:HG3	3:N:460:ALA:N	2.20	0.56
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.17	0.56
3:N:695:ILE:HG21	3:N:720:LEU:HD11	1.88	0.56
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.05	0.56
3:N:1066:THR:HG22	3:N:1069:GLU:CG	2.33	0.56
3:N:1136:LYS:O	3:N:1139:ASP:HB2	2.06	0.56
4:O:21:VAL:O	4:O:25:LYS:HG3	2.06	0.56
5:P:358:LEU:CD2	5:P:370:LYS:HE3	2.34	0.56
2:C:129:ILE:HG12	2:C:386:PHE:O	2.05	0.56
2:C:173:ASP:O	2:C:184:MET:HA	2.06	0.56
2:C:979:THR:HG23	2:C:981:GLU:N	2.09	0.56
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.06	0.56
3:D:1376:MET:HE2	3:D:1421:LEU:HB2	1.86	0.56
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.40	0.56
1:K:8:ALA:HB1	1:L:224:TYR:CE1	2.41	0.56
1:K:44:LEU:O	1:K:174:VAL:HG21	2.06	0.56
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.70	0.56
2:M:26:TYR:O	2:M:30:LEU:HD12	2.06	0.56
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.87	0.56
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.40	0.56
2:M:630:ARG:HD3	2:M:705:ILE:HG13	1.87	0.56
2:M:798:GLY:H	2:M:827:VAL:HG11	1.70	0.56
2:M:948:GLU:HB3	8:M:1188:HOH:O	2.04	0.56
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.87	0.56
3:N:84:ILE:HG12	8:N:9092:HOH:O	2.06	0.56
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.71	0.56
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.87	0.56
3:N:706:PRO:HA	8:N:9170:HOH:O	2.06	0.56
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.06	0.56
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.40	0.56
3:N:1031:ASN:HB3	3:N:1034:GLN:NE2	2.21	0.56
5:P:407:LYS:HB2	8:P:4644:HOH:O	2.05	0.56
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.87	0.56
3:D:475:LYS:HA	3:D:478:LEU:HG	1.87	0.56
3:D:829:VAL:HG21	8:D:9103:HOH:O	2.05	0.56
3:D:1087:ARG:O	3:D:1091:SER:HB2	2.06	0.56
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.06	0.56
4:E:91:ARG:HB3	8:E:105:HOH:O	2.05	0.56
2:M:63:GLY:CA	2:M:103:LYS:HE2	2.36	0.56
2:M:269:LEU:HG	2:M:288:ARG:N	2.19	0.56
2:M:602:GLU:HA	2:M:647:GLN:O	2.06	0.56
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.05	0.56
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.88	0.56
3:N:1490:LYS:HB3	8:O:4026:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:176:VAL:C	2:C:178:PRO:HD3	2.25	0.56
2:C:189:ARG:HB3	8:C:1497:HOH:O	2.06	0.56
2:C:633:GLN:NE2	2:C:633:GLN:H	2.04	0.56
2:C:724:ARG:HG3	2:C:741:GLY:N	2.14	0.56
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.88	0.56
3:D:214:GLU:CD	3:D:390:PRO:HB2	2.26	0.56
3:D:607:LEU:HB3	3:D:614:PHE:HE2	1.70	0.56
3:D:1217:ILE:HD13	3:D:1480:PHE:CE2	2.41	0.56
2:M:21:ILE:H	2:M:21:ILE:HD12	1.70	0.56
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.71	0.56
2:M:1015:LEU:HA	5:P:335:ASP:HB3	1.88	0.56
3:N:552:ASN:HA	3:N:555:LYS:HD2	1.87	0.56
3:N:928:ALA:O	3:N:931:LEU:HB2	2.06	0.56
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.21	0.56
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.20	0.56
4:O:73:LEU:HD23	8:O:4394:HOH:O	2.06	0.56
1:B:2:LEU:HD12	1:B:3:ASP:N	2.21	0.56
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.19	0.56
2:C:289:THR:HG22	2:C:290:LEU:HD22	1.86	0.56
2:C:352:ALA:O	2:C:356:ARG:HG3	2.05	0.56
2:C:987:ILE:HD11	3:D:946:GLY:HA3	1.86	0.56
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.88	0.56
3:D:153:LEU:HD13	3:D:157:GLU:HB2	1.87	0.56
5:F:166:LEU:HD13	5:F:170:HIS:HB2	1.88	0.56
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.36	0.56
3:N:493:ARG:O	3:N:497:GLU:HG3	2.06	0.56
3:N:560:GLN:HE21	5:P:218:GLN:NE2	2.04	0.56
3:N:1087:ARG:NE	3:N:1238:MET:HB2	2.21	0.56
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.05	0.56
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.21	0.56
5:P:135:ILE:O	5:P:135:ILE:HD13	2.06	0.56
5:P:144:ILE:HA	8:P:4865:HOH:O	2.05	0.56
5:P:401:GLU:O	5:P:405:LEU:HB2	2.05	0.56
2:C:39:ARG:HE	2:C:39:ARG:HA	1.71	0.56
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.88	0.56
2:C:281:LEU:CD1	2:C:306:THR:HA	2.28	0.56
2:C:445:GLU:HB2	8:C:1296:HOH:O	2.06	0.56
2:C:724:ARG:CG	2:C:740:GLU:HA	2.36	0.56
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.32	0.56
3:D:969:ARG:O	3:D:972:LEU:HB3	2.06	0.56
5:F:328:PHE:HB3	8:F:674:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:417:LYS:HG3	8:F:684:HOH:O	2.06	0.56
1:L:143:ARG:HH11	1:L:158:ILE:HG23	1.70	0.56
2:M:404:LEU:O	2:M:407:LYS:HB2	2.06	0.56
2:M:493:ARG:HD2	8:M:1824:HOH:O	2.06	0.56
2:M:1067:TYR:CE1	2:M:1071:ILE:HD11	2.40	0.56
3:N:28:LYS:HB2	3:N:41:ARG:HD2	1.87	0.56
3:N:82:LYS:HE2	8:N:9124:HOH:O	2.05	0.56
3:N:875:THR:HG23	3:N:879:ARG:HE	1.71	0.56
3:N:1310:ARG:HG3	3:N:1327:ARG:HB2	1.86	0.56
5:P:153:PRO:HG2	5:P:154:LYS:H	1.71	0.56
1:A:178:ALA:HB2	2:C:864:GLY:H	1.69	0.55
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.88	0.55
2:C:313:LEU:CA	2:C:321:GLU:HG3	2.33	0.55
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.88	0.55
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.35	0.55
3:D:728:LEU:HD22	3:D:745:MET:SD	2.46	0.55
4:E:54:LEU:HG	4:E:58:PRO:CG	2.36	0.55
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.87	0.55
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.41	0.55
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.88	0.55
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.88	0.55
3:N:245:LEU:HA	8:N:9639:HOH:O	2.06	0.55
3:N:530:VAL:HG23	3:N:534:ARG:O	2.06	0.55
3:N:894:LYS:HG3	8:N:9120:HOH:O	2.06	0.55
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.36	0.55
3:N:1262:LEU:HD11	3:N:1351:GLU:HG2	1.88	0.55
5:P:201:LYS:HG2	8:P:3872:HOH:O	2.04	0.55
5:P:264:MET:O	5:P:268:ILE:HG13	2.06	0.55
1:B:150:TYR:CE2	3:D:857:ILE:HG13	2.40	0.55
2:C:902:ILE:O	2:C:904:PRO:HD3	2.06	0.55
2:C:956:GLY:HA2	8:C:1408:HOH:O	2.05	0.55
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.07	0.55
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.71	0.55
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.71	0.55
5:F:132:ARG:O	5:F:136:LEU:HG	2.06	0.55
2:M:5:ARG:HG3	8:M:1295:HOH:O	2.05	0.55
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.88	0.55
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.06	0.55
3:N:80:VAL:HG12	3:N:81:THR:N	2.21	0.55
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.87	0.55
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:112:ILE:HG13	3:D:124:GLU:OE2	2.06	0.55
3:D:604:THR:HA	3:D:607:LEU:HD12	1.88	0.55
3:D:890:VAL:HA	8:D:9150:HOH:O	2.06	0.55
3:D:980:MET:HG3	8:D:9110:HOH:O	2.06	0.55
1:K:37:GLY:HA3	1:K:179:PHE:CD1	2.41	0.55
1:L:18:ARG:HG3	8:L:3742:HOH:O	2.06	0.55
2:M:97:ARG:HG3	8:M:1631:HOH:O	2.06	0.55
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.41	0.55
3:N:488:ARG:HH22	3:N:491:LYS:NZ	2.04	0.55
3:N:659:LYS:HE3	3:N:663:GLU:CD	2.27	0.55
3:N:834:THR:HG22	3:N:838:ARG:HD2	1.86	0.55
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.89	0.55
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.05	0.55
3:N:1428:ALA:O	3:N:1431:THR:HG23	2.05	0.55
5:P:351:SER:HA	8:P:3059:HOH:O	2.06	0.55
5:P:355:GLU:HA	8:P:2808:HOH:O	2.06	0.55
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.37	0.55
1:B:184:THR:O	1:B:192:LEU:HB2	2.07	0.55
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.88	0.55
2:C:802:ARG:HD2	8:C:1186:HOH:O	2.06	0.55
2:C:1033:GLY:HA3	8:C:1885:HOH:O	2.07	0.55
3:D:211:VAL:HG11	8:D:9373:HOH:O	2.06	0.55
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.06	0.55
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.72	0.55
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.87	0.55
1:K:104:GLU:HG2	1:K:105:GLY:N	2.21	0.55
1:L:206:THR:CG2	1:L:209:GLU:H	2.18	0.55
2:M:140:ILE:HD11	2:M:412:ALA:HA	1.88	0.55
2:M:583:LEU:O	2:M:587:VAL:HG23	2.06	0.55
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.88	0.55
3:N:414:ARG:HG2	8:N:9890:HOH:O	2.06	0.55
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	2.06	0.55
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.36	0.55
5:P:218:GLN:NE2	5:P:221:ILE:HD12	2.21	0.55
5:P:264:MET:O	5:P:267:THR:HB	2.07	0.55
5:P:327:SER:HG	5:P:332:PHE:HZ	1.54	0.55
5:P:403:LYS:HD3	8:P:4835:HOH:O	2.07	0.55
1:A:219:ARG:NH2	1:B:223:THR:HG23	2.22	0.55
1:B:27:PRO:HD2	8:B:363:HOH:O	2.06	0.55
1:B:148:VAL:HA	8:B:322:HOH:O	2.05	0.55
2:C:113:VAL:HG21	2:C:373:VAL:HG21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.36	0.55
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.21	0.55
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.88	0.55
3:D:210:ARG:HG3	3:D:398:ALA:H	1.72	0.55
3:D:592:THR:N	3:D:600:LEU:HD21	2.22	0.55
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.09	0.55
4:E:4:PRO:HB3	8:E:138:HOH:O	2.07	0.55
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.38	0.55
2:M:114:PHE:HD1	2:M:114:PHE:H	1.52	0.55
2:M:140:ILE:CG2	2:M:333:ILE:HG13	2.35	0.55
2:M:207:LEU:HD22	2:M:221:LEU:HD13	1.86	0.55
2:M:585:GLU:HG2	2:M:665:PHE:HD2	1.70	0.55
2:M:697:ARG:HG3	2:M:699:PHE:CD1	2.41	0.55
3:N:1200:VAL:HG22	3:N:1373:ARG:NH1	2.22	0.55
1:A:180:GLN:HB3	8:A:328:HOH:O	2.06	0.55
2:C:51:THR:HG22	8:C:1597:HOH:O	2.06	0.55
2:C:64:LEU:HD11	8:C:1196:HOH:O	2.05	0.55
2:C:203:ASP:HB3	8:C:1639:HOH:O	2.05	0.55
2:C:478:VAL:HG11	8:C:1719:HOH:O	2.06	0.55
2:C:534:VAL:H	2:C:538:GLN:NE2	2.02	0.55
2:C:595:LEU:O	2:C:655:LEU:HG	2.07	0.55
2:C:716:LYS:HG2	8:C:1417:HOH:O	2.06	0.55
2:C:918:LEU:HD23	2:C:967:PHE:O	2.07	0.55
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.89	0.55
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.88	0.55
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.05	0.55
4:E:37:ASN:HD22	4:E:89:MET:HE3	1.72	0.55
5:F:370:LYS:HZ3	5:F:371:LEU:HG	1.71	0.55
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.41	0.55
2:M:397:GLU:HG3	2:M:633:GLN:NE2	2.22	0.55
2:M:517:ARG:HB2	8:M:1758:HOH:O	2.07	0.55
2:M:601:GLY:O	2:M:648:ARG:HA	2.06	0.55
2:M:770:GLU:HA	8:M:1825:HOH:O	2.06	0.55
3:N:1047:LYS:HE2	8:N:9823:HOH:O	2.06	0.55
3:N:1278:ASP:HB2	3:N:1318:TYR:OH	2.07	0.55
3:N:1290:LEU:HD11	3:N:1311:LEU:HD22	1.89	0.55
3:N:1357:ARG:HD3	8:N:9210:HOH:O	2.06	0.55
1:A:219:ARG:NH1	1:B:223:THR:HG23	2.22	0.55
1:B:110:LYS:HZ3	1:B:112:ARG:HD2	1.70	0.55
2:C:732:ALA:HB2	8:C:1371:HOH:O	2.07	0.55
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:551:ASN:O	3:D:555:LYS:HG3	2.06	0.55
3:D:695:ILE:HG21	3:D:720:LEU:HD11	1.88	0.55
3:D:704:ARG:HG2	3:D:736:PHE:HB3	1.89	0.55
3:D:842:VAL:HG12	8:D:9557:HOH:O	2.07	0.55
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.89	0.55
3:D:1397:LYS:O	3:D:1400:VAL:HB	2.07	0.55
2:M:196:LEU:HB2	8:M:1510:HOH:O	2.05	0.55
2:M:520:GLU:HB2	8:M:1758:HOH:O	2.07	0.55
2:M:585:GLU:HG2	2:M:665:PHE:CD2	2.42	0.55
2:M:878:SER:HB3	3:N:1029:ARG:HD3	1.89	0.55
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.87	0.55
3:N:1097:LYS:HA	8:N:9081:HOH:O	2.05	0.55
4:O:33:HIS:HB3	8:O:3948:HOH:O	2.06	0.55
4:O:43:GLU:CD	4:O:43:GLU:H	2.10	0.55
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.37	0.55
2:C:160:ALA:O	2:C:173:ASP:HA	2.07	0.55
2:C:195:LEU:HD23	2:C:238:LEU:HG	1.89	0.55
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.89	0.55
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.88	0.55
5:F:82:ARG:HA	8:F:574:HOH:O	2.06	0.55
5:F:222:ARG:HA	8:F:496:HOH:O	2.07	0.55
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.27	0.55
2:M:722:ILE:HG21	2:M:821:GLU:OE2	2.07	0.55
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.31	0.55
3:N:178:LEU:HG	3:N:200:ASP:H	1.71	0.55
3:N:838:ARG:HH11	3:N:874:GLU:HG2	1.71	0.55
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.07	0.55
4:O:69:LEU:HB3	8:O:3383:HOH:O	2.05	0.55
1:A:218:LEU:O	1:A:222:LEU:HD23	2.06	0.55
2:C:436:GLY:HA3	2:C:469:THR:OG1	2.06	0.55
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.42	0.55
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.89	0.55
3:D:722:GLU:HB3	8:D:9352:HOH:O	2.07	0.55
3:D:764:LEU:HD12	3:D:765:SER:N	2.22	0.55
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.88	0.55
2:M:51:THR:OG1	2:M:348:LEU:HD23	2.07	0.55
2:M:132:ALA:HB1	2:M:632:ASN:HD21	1.71	0.55
2:M:209:ARG:O	2:M:213:ALA:HB2	2.07	0.55
2:M:244:PRO:HD3	8:M:1549:HOH:O	2.06	0.55
2:M:902:ILE:O	2:M:904:PRO:HD3	2.07	0.55
3:N:154:THR:HA	8:N:9161:HOH:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:181:ASP:OD2	3:N:199:LEU:HB2	2.07	0.55
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.88	0.55
1:B:60:ASP:HB2	8:B:383:HOH:O	2.07	0.55
2:C:52:PHE:O	2:C:54:ILE:HG13	2.05	0.55
2:C:139:GLN:HB3	2:C:334:ARG:HD2	1.89	0.55
2:C:290:LEU:HD12	8:C:1289:HOH:O	2.06	0.55
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.37	0.55
3:D:460:ALA:O	3:D:464:LEU:HG	2.07	0.55
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.89	0.55
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.88	0.55
1:L:180:GLN:CB	1:L:198:ARG:HH22	2.16	0.55
2:M:49:ARG:HB3	2:M:266:ARG:HH12	1.71	0.55
2:M:1115:LEU:HB3	3:N:85:VAL:HG13	1.88	0.55
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.37	0.55
3:N:573:MET:SD	5:P:210:LEU:HD13	2.47	0.55
3:N:933:ALA:O	3:N:937:TYR:HD1	1.90	0.55
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.07	0.55
3:N:1346:ARG:CZ	3:N:1346:ARG:HA	2.37	0.55
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.89	0.55
1:A:176:ARG:O	1:A:200:TRP:HE3	1.90	0.54
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.22	0.54
8:C:1147:HOH:O	3:D:943:THR:HG21	2.07	0.54
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.41	0.54
3:D:192:ALA:O	3:D:195:VAL:HG23	2.07	0.54
3:D:553:ARG:HD3	5:F:214:GLN:HB3	1.89	0.54
3:D:565:ILE:HD11	5:F:189:GLU:OE1	2.07	0.54
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.42	0.54
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.88	0.54
3:D:1376:MET:CE	3:D:1421:LEU:HB2	2.36	0.54
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.22	0.54
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.89	0.54
2:M:496:ILE:H	2:M:496:ILE:HD12	1.72	0.54
3:N:1369:GLU:O	3:N:1372:VAL:HG12	2.07	0.54
5:P:323:ASP:HB2	8:P:2932:HOH:O	2.07	0.54
2:C:1014:SER:HB3	2:C:1017:THR:O	2.07	0.54
3:D:36:THR:C	3:D:38:LYS:H	2.11	0.54
3:D:126:VAL:O	3:D:132:TYR:HD1	1.91	0.54
3:D:213:VAL:HG22	3:D:214:GLU:H	1.71	0.54
3:D:842:VAL:HG12	8:D:9009:HOH:O	2.07	0.54
4:E:40:LEU:HD22	8:E:184:HOH:O	2.05	0.54
5:F:218:GLN:NE2	5:F:221:ILE:HD12	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.87	0.54
1:K:91:ASN:H	1:K:94:LEU:HD12	1.73	0.54
1:K:101:LEU:HG	1:K:114:PHE:HA	1.88	0.54
2:M:54:ILE:O	2:M:54:ILE:HG23	2.07	0.54
2:M:160:ALA:O	2:M:173:ASP:HA	2.08	0.54
2:M:254:VAL:O	2:M:257:VAL:HG23	2.08	0.54
2:M:431:HIS:H	2:M:434:HIS:CE1	2.25	0.54
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	1.90	0.54
2:M:1049:LEU:HG	2:M:1053:LEU:HD12	1.88	0.54
3:N:73:CYS:HB3	3:N:76:CYS:O	2.07	0.54
3:N:419:ASP:OD2	5:P:171:LYS:HE3	2.08	0.54
3:N:637:LEU:HD11	3:N:642:CYS:N	2.22	0.54
3:N:863:VAL:HG21	8:N:9257:HOH:O	2.06	0.54
3:N:970:LYS:NZ	3:N:970:LYS:HB2	2.22	0.54
5:P:162:LYS:HA	8:P:1319:HOH:O	2.06	0.54
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.88	0.54
1:B:78:ILE:HA	8:B:366:HOH:O	2.05	0.54
1:B:159:LYS:HD3	1:B:159:LYS:N	2.23	0.54
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.43	0.54
2:C:486:MET:SD	2:C:491:GLU:HA	2.48	0.54
3:D:462:GLN:HG2	8:D:9662:HOH:O	2.07	0.54
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.88	0.54
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.90	0.54
3:D:974:ILE:HG22	8:D:9303:HOH:O	2.06	0.54
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.22	0.54
3:D:1406:ARG:C	3:D:1406:ARG:HE	2.11	0.54
1:L:108:GLU:HB3	8:L:3562:HOH:O	2.07	0.54
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.07	0.54
2:M:688:ILE:HD11	2:M:847:GLY:HA3	1.89	0.54
2:M:1082:PRO:HA	8:M:1607:HOH:O	2.06	0.54
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.90	0.54
3:N:36:THR:C	3:N:38:LYS:H	2.10	0.54
3:N:56:TYR:HE2	3:N:69:GLU:HB3	1.72	0.54
3:N:68:PHE:O	3:N:71:LYS:HG2	2.08	0.54
3:N:614:PHE:O	3:N:617:ASN:HB2	2.07	0.54
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.89	0.54
3:N:838:ARG:NH1	3:N:874:GLU:HG2	2.22	0.54
5:P:161:GLN:HA	5:P:164:LYS:NZ	2.22	0.54
2:C:196:LEU:HD21	2:C:303:PHE:CD1	2.41	0.54
2:C:724:ARG:HB2	2:C:740:GLU:HG3	1.89	0.54
3:D:529:GLN:OE1	3:D:533:GLY:HA2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.90	0.54
3:D:615:ARG:HD3	3:D:616:GLN:N	2.22	0.54
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.90	0.54
3:D:1068:LEU:HD23	3:D:1072:ILE:HG12	1.89	0.54
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.38	0.54
5:F:369:LEU:HD23	8:F:443:HOH:O	2.07	0.54
1:K:133:GLU:HG2	1:K:134:GLU:H	1.71	0.54
1:K:209:GLU:C	1:K:213:GLN:HE21	2.10	0.54
2:M:710:ILE:CD1	2:M:790:LEU:HB2	2.37	0.54
2:M:838:LYS:HB3	2:M:848:VAL:HG22	1.88	0.54
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.89	0.54
3:N:629:SER:C	3:N:744:GLN:HG2	2.28	0.54
3:N:804:LEU:HB2	3:N:830:ALA:O	2.06	0.54
3:N:1110:ALA:HB2	8:N:9805:HOH:O	2.07	0.54
3:N:1380:GLU:HG3	3:N:1381:VAL:N	2.23	0.54
1:A:47:SER:HG	1:B:32:PHE:HZ	1.56	0.54
2:C:89:THR:HA	2:C:129:ILE:O	2.08	0.54
2:C:146:VAL:HG22	2:C:162:ILE:HG23	1.90	0.54
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.37	0.54
2:C:945:ARG:HD3	2:C:949:LYS:NZ	2.23	0.54
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.07	0.54
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.38	0.54
3:D:553:ARG:HH22	5:F:211:ASP:CG	2.11	0.54
3:D:628:ARG:HD3	3:D:744:GLN:HE21	1.71	0.54
3:D:754:PHE:HZ	4:E:21:VAL:HG13	1.72	0.54
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.73	0.54
3:D:868:TYR:CG	3:D:869:MET:N	2.75	0.54
3:D:1333:HIS:CE1	3:D:1421:LEU:HD23	2.43	0.54
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.07	0.54
1:L:81:ASN:O	1:L:84:GLU:HB3	2.07	0.54
1:L:186:LEU:O	1:L:186:LEU:HD23	2.07	0.54
2:M:227:PHE:HA	2:M:230:ARG:HE	1.71	0.54
3:N:167:GLU:HG3	8:N:9466:HOH:O	2.06	0.54
3:N:601:ARG:NH2	3:N:606:ILE:HA	2.23	0.54
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.17	0.54
2:C:749:VAL:HG11	2:C:755:LEU:HD23	1.88	0.54
2:C:820:ARG:HG2	8:C:1605:HOH:O	2.08	0.54
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.90	0.54
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.38	0.54
5:F:245:GLN:HA	8:F:572:HOH:O	2.06	0.54
1:K:20:TYR:HD2	1:K:21:GLY:N	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:185:LYS:HB3	2:M:188:LYS:O	2.07	0.54
2:M:358:ARG:HB3	2:M:371:LYS:O	2.08	0.54
2:M:408:ARG:NH1	2:M:542:VAL:HG23	2.23	0.54
2:M:424:GLY:O	2:M:427:VAL:HG23	2.08	0.54
2:M:455:LEU:HD12	2:M:459:ALA:HB3	1.89	0.54
2:M:607:ASP:HB3	2:M:609:ASN:H	1.72	0.54
3:N:702:LEU:HD13	3:N:716:PHE:CD1	2.43	0.54
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.89	0.54
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.08	0.54
1:A:90:LEU:HD12	1:A:119:ASP:O	2.07	0.54
2:C:194:VAL:HG23	8:C:1179:HOH:O	2.06	0.54
2:C:242:LEU:HD23	8:C:1853:HOH:O	2.08	0.54
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.37	0.54
2:C:341:THR:CG2	2:C:345:ARG:HH21	2.20	0.54
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.06	0.54
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.89	0.54
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.38	0.54
3:D:154:THR:HG22	3:D:157:GLU:CD	2.28	0.54
3:D:948:THR:O	3:D:949:ILE:HD13	2.08	0.54
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.42	0.54
3:D:1314:LYS:HB2	8:D:9676:HOH:O	2.06	0.54
3:D:1465:ASN:HD21	3:D:1470:ARG:HD3	1.73	0.54
1:K:30:ARG:HD3	8:K:3174:HOH:O	2.07	0.54
1:K:43:ILE:HD12	1:L:32:PHE:CZ	2.43	0.54
2:M:202:TYR:HA	8:M:1314:HOH:O	2.07	0.54
2:M:204:GLN:HG3	8:M:1527:HOH:O	2.08	0.54
2:M:210:GLU:HB3	8:M:1386:HOH:O	2.07	0.54
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.37	0.54
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.90	0.54
3:N:523:ASP:O	3:N:526:PRO:HG3	2.08	0.54
3:N:828:LYS:HB3	8:N:9129:HOH:O	2.08	0.54
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.89	0.54
3:N:1277:ILE:HA	8:N:9618:HOH:O	2.07	0.54
1:A:212:ASN:O	1:A:215:VAL:HG22	2.07	0.54
2:C:73:LEU:HB3	2:C:94:LEU:HB2	1.90	0.54
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.90	0.54
2:C:535:SER:H	2:C:538:GLN:NE2	2.06	0.54
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.08	0.54
8:C:1147:HOH:O	3:D:940:THR:HA	2.07	0.54
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.38	0.54
3:D:530:VAL:HG12	3:D:531:ASP:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.73	0.54
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.42	0.54
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.90	0.54
1:K:218:LEU:O	1:K:222:LEU:HD23	2.07	0.54
1:L:67:THR:HA	8:L:3261:HOH:O	2.07	0.54
2:M:42:VAL:HG12	2:M:43:GLY:H	1.72	0.54
2:M:103:LYS:HD2	8:M:1331:HOH:O	2.06	0.54
2:M:328:LEU:CD2	2:M:437:ARG:HD3	2.37	0.54
2:M:397:GLU:OE2	2:M:632:ASN:HB2	2.08	0.54
2:M:630:ARG:HH21	2:M:707:ARG:H	1.54	0.54
2:M:1013:TYR:HD1	2:M:1020:PRO:HA	1.73	0.54
2:M:1090:LYS:HE2	2:M:1112:PHE:CE1	2.43	0.54
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.90	0.54
3:N:478:LEU:HD21	3:N:500:ARG:NH2	2.22	0.54
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.28	0.54
3:N:834:THR:CG2	3:N:838:ARG:HD2	2.38	0.54
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.08	0.54
2:C:3:ILE:HD13	2:C:900:ARG:O	2.07	0.54
2:C:214:TYR:HB3	8:C:1697:HOH:O	2.08	0.54
2:C:691:SER:HB3	2:C:868:ASP:O	2.07	0.54
2:C:715:THR:HG22	2:C:717:LEU:HG	1.89	0.54
2:C:722:ILE:HG22	8:C:1846:HOH:O	2.06	0.54
3:D:379:ALA:HB3	8:D:9652:HOH:O	2.08	0.54
3:D:503:LEU:HA	3:D:508:ARG:HH22	1.73	0.54
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.90	0.54
3:D:1114:THR:HG23	3:D:1114:THR:O	2.08	0.54
3:D:1382:THR:HG21	3:D:1418:LYS:NZ	2.23	0.54
5:F:99:GLU:HB2	8:F:540:HOH:O	2.08	0.54
2:M:37:GLU:HG2	8:M:1585:HOH:O	2.08	0.54
3:N:217:LYS:HA	8:N:9812:HOH:O	2.08	0.54
3:N:852:ALA:O	3:N:857:ILE:HG12	2.08	0.54
3:N:864:VAL:HA	8:N:9349:HOH:O	2.07	0.54
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.38	0.54
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.38	0.54
3:N:1382:THR:HG22	8:N:9076:HOH:O	2.08	0.54
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.23	0.54
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.43	0.54
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.43	0.54
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.08	0.54
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.89	0.54
3:D:391:ALA:HB3	8:D:9451:HOH:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.43	0.54
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.91	0.54
3:D:992:ILE:O	3:D:995:LEU:HB3	2.08	0.54
3:D:1271:LYS:HG2	8:D:9063:HOH:O	2.07	0.54
4:E:63:TRP:O	4:E:67:GLU:HG3	2.08	0.54
1:K:19:GLU:HB3	1:K:175:ARG:NH2	2.15	0.54
1:K:159:LYS:HE2	8:K:3739:HOH:O	2.07	0.54
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.42	0.54
2:M:176:VAL:C	2:M:178:PRO:HD3	2.28	0.54
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.89	0.54
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.08	0.54
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.08	0.54
2:M:1015:LEU:HD13	5:P:335:ASP:HA	1.89	0.54
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.08	0.54
3:N:424:GLY:HA2	3:N:435:VAL:O	2.08	0.54
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.36	0.54
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.37	0.54
3:N:1321:ALA:HB3	3:N:1339:LYS:HE2	1.90	0.54
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.54
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.90	0.54
5:P:74:LYS:HE3	8:P:2868:HOH:O	2.07	0.54
5:P:376:ILE:HG22	5:P:377:ASP:OD1	2.08	0.54
1:A:18:ARG:O	1:A:207:PRO:HD3	2.08	0.53
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.89	0.53
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.08	0.53
2:C:487:THR:HG23	8:C:1431:HOH:O	2.08	0.53
2:C:798:GLY:H	2:C:827:VAL:HG11	1.70	0.53
2:C:848:VAL:HG23	3:D:740:PHE:O	2.08	0.53
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.37	0.53
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.08	0.53
3:D:1463:LYS:HG2	8:D:9761:HOH:O	2.08	0.53
1:L:24:VAL:HG12	1:L:26:GLU:OE2	2.08	0.53
1:L:29:GLU:C	8:L:4886:HOH:O	2.46	0.53
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.22	0.53
2:M:431:HIS:HD2	2:M:433:THR:H	1.56	0.53
2:M:473:ARG:HA	2:M:531:PHE:HD1	1.73	0.53
2:M:499:ALA:HA	8:M:1410:HOH:O	2.08	0.53
2:M:549:PHE:CZ	2:M:886:LEU:HD12	2.43	0.53
2:M:697:ARG:HB2	8:M:1159:HOH:O	2.07	0.53
2:M:876:VAL:O	2:M:879:ARG:O	2.26	0.53
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.90	0.53
3:N:1420:LEU:HD12	3:N:1421:LEU:H	1.70	0.53
1:A:108:GLU:HB3	8:A:384:HOH:O	2.07	0.53
1:B:146:ARG:HG3	1:B:146:ARG:O	2.08	0.53
2:C:138:SER:HB2	2:C:410:ILE:HG13	1.90	0.53
2:C:193:LEU:HD11	8:C:1760:HOH:O	2.08	0.53
2:C:216:GLU:HA	8:C:1237:HOH:O	2.07	0.53
2:C:554:ASP:HB2	2:C:880:MET:HB2	1.89	0.53
2:C:586:ARG:HG2	8:C:1243:HOH:O	2.08	0.53
2:C:812:GLY:HA3	8:C:1432:HOH:O	2.07	0.53
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.71	0.53
2:C:1100:GLN:HG3	2:C:1101:THR:O	2.08	0.53
3:D:400:VAL:HG21	3:D:441:ARG:NH1	2.14	0.53
3:D:650:LEU:HD22	3:D:688:TRP:CZ3	2.43	0.53
3:D:674:ARG:HD2	8:F:469:HOH:O	2.09	0.53
3:D:704:ARG:HH11	3:D:738:ALA:HB2	1.73	0.53
3:D:903:ASP:HB2	8:D:9514:HOH:O	2.07	0.53
3:D:1095:THR:N	8:D:9051:HOH:O	2.41	0.53
3:D:1264:GLU:OE2	3:D:1425:THR:HG22	2.08	0.53
4:E:28:GLN:O	4:E:31:LEU:HG	2.07	0.53
1:K:2:LEU:HB2	8:K:5032:HOH:O	2.08	0.53
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.23	0.53
1:L:185:ARG:HA	8:L:4811:HOH:O	2.08	0.53
2:M:572:ILE:O	2:M:573:ARG:HG2	2.08	0.53
3:N:127:LEU:HD12	3:N:128:TYR:N	2.23	0.53
3:N:690:ALA:O	3:N:694:VAL:HG23	2.08	0.53
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.08	0.53
5:P:201:LYS:HD2	8:P:3919:HOH:O	2.08	0.53
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.89	0.53
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.91	0.53
2:C:145:GLY:N	2:C:163:ILE:HG23	2.18	0.53
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.89	0.53
2:C:332:ARG:HD3	2:C:465:GLY:HA3	1.91	0.53
2:C:839:LEU:HD21	2:C:849:VAL:HG22	1.89	0.53
3:D:847:ASP:O	3:D:851:LEU:HG	2.09	0.53
2:M:571:LEU:HG	2:M:700:TYR:HA	1.91	0.53
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.43	0.53
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.37	0.53
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.43	0.53
3:N:514:LEU:HD23	8:N:9079:HOH:O	2.08	0.53
3:N:534:ARG:HH11	3:N:534:ARG:HG3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.38	0.53
3:N:1502:ALA:HA	8:N:9322:HOH:O	2.09	0.53
4:O:66:LYS:HE3	8:O:3745:HOH:O	2.08	0.53
5:P:138:SER:O	5:P:141:VAL:HG12	2.08	0.53
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.29	0.53
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.44	0.53
2:C:102:HIS:HB2	2:C:106:GLY:O	2.09	0.53
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.37	0.53
3:D:430:ASP:CG	3:D:431:VAL:H	2.12	0.53
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.28	0.53
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.90	0.53
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.90	0.53
5:F:306:GLU:O	5:F:310:ILE:HG13	2.08	0.53
5:F:365:GLU:CD	5:F:397:ILE:HA	2.29	0.53
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.91	0.53
2:M:198:ARG:HB3	8:M:1370:HOH:O	2.09	0.53
2:M:380:ALA:HA	2:M:383:ARG:CD	2.35	0.53
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.34	0.53
3:N:165:LYS:HB3	3:N:395:VAL:HG11	1.89	0.53
3:N:951:ILE:HG23	3:N:1062:ARG:HE	1.74	0.53
3:N:1498:ALA:HB3	8:N:9099:HOH:O	2.09	0.53
4:O:86:GLN:O	4:O:90:GLU:HG3	2.07	0.53
1:B:226:SER:O	1:B:228:PRO:HD3	2.07	0.53
2:C:601:GLY:O	2:C:648:ARG:HA	2.09	0.53
2:C:1009:SER:HB2	3:D:651:GLU:OE1	2.08	0.53
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.09	0.53
3:D:652:LEU:HB3	3:D:653:PHE:CD1	2.44	0.53
3:D:786:ILE:HD13	3:D:908:LYS:HB3	1.89	0.53
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.07	0.53
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.09	0.53
4:E:61:GLU:O	4:E:65:MET:HG3	2.08	0.53
5:F:305:GLU:O	5:F:309:LYS:HG3	2.08	0.53
5:F:402:ASN:O	5:F:406:ARG:HG3	2.08	0.53
1:L:42:ARG:HB3	8:L:3652:HOH:O	2.08	0.53
1:L:115:LEU:HD12	1:L:115:LEU:O	2.08	0.53
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.88	0.53
8:M:1680:HOH:O	3:N:1088:THR:HG21	2.09	0.53
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.38	0.53
3:N:1423:GLY:HA3	8:N:9011:HOH:O	2.08	0.53
5:P:393:THR:O	5:P:397:ILE:HG13	2.09	0.53
1:A:66:SER:O	1:A:75:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.74	0.53
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.44	0.53
3:D:168:THR:OG1	3:D:393:ILE:HB	2.09	0.53
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.08	0.53
3:D:1351:GLU:OE1	3:D:1354:LYS:HG3	2.07	0.53
2:M:139:GLN:HE22	2:M:415:PRO:CG	2.21	0.53
2:M:411:SER:HA	2:M:452:ILE:HA	1.90	0.53
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.89	0.53
3:N:738:ALA:HB3	8:N:9159:HOH:O	2.08	0.53
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.73	0.53
4:O:51:LEU:HD12	4:O:52:GLU:N	2.24	0.53
5:P:270:LYS:HA	5:P:273:ARG:HD2	1.89	0.53
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.73	0.53
1:A:117:VAL:HG12	8:A:360:HOH:O	2.07	0.53
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.37	0.53
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.90	0.53
2:C:577:PRO:HB2	2:C:580:MET:HG3	1.91	0.53
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.38	0.53
2:C:945:ARG:HB3	2:C:945:ARG:HH11	1.74	0.53
2:C:1003:ASP:O	2:C:1005:MET:N	2.41	0.53
2:C:1025:ALA:HA	8:C:1228:HOH:O	2.07	0.53
3:D:420:VAL:HA	5:F:164:LYS:HE3	1.91	0.53
3:D:531:ASP:C	3:D:533:GLY:H	2.11	0.53
3:D:714:GLN:OE1	3:D:765:SER:HB2	2.08	0.53
3:D:1242:HIS:CE1	3:D:1266:ARG:HD3	2.43	0.53
3:D:1349:VAL:HG21	8:D:9752:HOH:O	2.07	0.53
1:L:110:LYS:HZ3	1:L:110:LYS:HB2	1.73	0.53
2:M:139:GLN:HG2	2:M:418:LEU:HD22	1.90	0.53
2:M:271:GLU:OE1	2:M:275:TYR:HB2	2.09	0.53
2:M:630:ARG:HA	2:M:705:ILE:HD11	1.89	0.53
2:M:752:GLY:N	2:M:792:VAL:HB	2.21	0.53
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.44	0.53
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.39	0.53
3:N:197:SER:HA	8:N:9553:HOH:O	2.09	0.53
3:N:1253:THR:OG1	3:N:1258:ARG:HD3	2.07	0.53
5:P:155:THR:HA	5:P:158:GLU:OE2	2.09	0.53
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.39	0.53
5:P:209:PHE:O	5:P:213:ILE:HG13	2.08	0.53
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.90	0.53
2:C:274:ARG:HG2	8:C:1235:HOH:O	2.08	0.53
2:C:444:PRO:HD2	2:C:452:ILE:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:496:ILE:H	2:C:496:ILE:HD12	1.74	0.53
2:C:874:LEU:HD13	3:D:783:ARG:HB2	1.90	0.53
2:C:964:LYS:HD2	8:C:1456:HOH:O	2.09	0.53
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.09	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.91	0.53
3:D:477:LEU:HD13	3:D:492:ALA:O	2.08	0.53
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.09	0.53
1:K:182:GLU:O	1:K:194:LYS:HB3	2.09	0.53
2:M:129:ILE:HD13	2:M:134:ARG:CB	2.29	0.53
2:M:489:THR:HG21	8:M:1667:HOH:O	2.07	0.53
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.22	0.53
2:M:564:MET:HE1	8:M:1413:HOH:O	2.09	0.53
2:M:571:LEU:HD12	2:M:701:THR:O	2.08	0.53
2:M:758:ARG:NH1	2:M:788:THR:HB	2.24	0.53
2:M:905:ILE:HG22	2:M:906:PHE:CD1	2.44	0.53
3:N:480:GLU:O	3:N:484:PRO:HD2	2.09	0.53
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.90	0.53
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.24	0.53
5:P:205:ARG:HH11	5:P:251:ILE:HG21	1.74	0.53
5:P:253:ASP:HA	5:P:259:ARG:NH1	2.24	0.53
5:P:269:ASN:O	5:P:273:ARG:HG3	2.09	0.53
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.91	0.53
2:C:115:LEU:HA	2:C:375:SER:HB3	1.90	0.53
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.91	0.53
2:C:358:ARG:HB3	2:C:371:LYS:O	2.09	0.53
2:C:380:ALA:O	2:C:384:GLU:HB2	2.09	0.53
2:C:578:VAL:HG11	2:C:991:GLN:CB	2.35	0.53
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.91	0.53
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.72	0.53
3:D:119:SER:CB	3:D:123:LEU:HB2	2.39	0.53
3:D:880:ILE:O	3:D:883:ALA:HB3	2.09	0.53
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.39	0.53
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.09	0.53
3:D:1381:VAL:HG23	3:D:1391:GLU:O	2.09	0.53
5:F:203:THR:HG22	8:F:514:HOH:O	2.07	0.53
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.24	0.53
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.89	0.53
1:L:101:LEU:HG	1:L:114:PHE:HA	1.90	0.53
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.90	0.53
2:M:217:LEU:HD12	2:M:311:PHE:CD2	2.44	0.53
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:639:GLN:HG3	8:M:1290:HOH:O	2.09	0.53
3:N:774:SER:C	3:N:776:GLU:H	2.13	0.53
3:N:1087:ARG:HG2	3:N:1087:ARG:HH11	1.73	0.53
3:N:1432:LYS:HD2	3:N:1433:SER:N	2.12	0.53
4:O:8:LYS:HG3	8:O:3467:HOH:O	2.09	0.53
5:P:337:HIS:H	5:P:337:HIS:HD2	1.56	0.53
5:P:420:ASP:HB2	8:P:2629:HOH:O	2.08	0.53
1:A:176:ARG:HG3	1:A:200:TRP:HB2	1.91	0.53
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.44	0.53
2:C:431:HIS:CD2	2:C:433:THR:H	2.27	0.53
2:C:525:SER:OG	2:C:528:GLU:HG3	2.08	0.53
2:C:690:ILE:HD12	2:C:849:VAL:HG13	1.91	0.53
2:C:1054:THR:HG22	2:C:1059:ASP:OD2	2.09	0.53
3:D:122:GLU:O	3:D:126:VAL:HG23	2.09	0.53
3:D:478:LEU:HD22	3:D:1388:ARG:NH1	2.23	0.53
3:D:774:SER:C	3:D:776:GLU:H	2.12	0.53
3:D:890:VAL:HG13	3:D:926:LYS:HE2	1.91	0.53
4:E:26:ARG:HE	4:E:30:LEU:HD13	1.73	0.53
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.73	0.53
2:M:16:PRO:HA	8:M:1782:HOH:O	2.08	0.53
2:M:296:GLY:HA2	8:M:1743:HOH:O	2.09	0.53
2:M:520:GLU:O	2:M:522:VAL:HG23	2.08	0.53
3:N:462:GLN:CG	3:N:513:ILE:HD13	2.38	0.53
3:N:699:VAL:CG1	3:N:717:GLN:HE21	2.20	0.53
3:N:1278:ASP:OD1	3:N:1321:ALA:HB2	2.08	0.53
5:P:191:ASN:HA	8:P:2854:HOH:O	2.09	0.53
1:A:123:MET:C	1:A:125:PRO:HD3	2.29	0.52
1:A:197:LEU:N	1:A:197:LEU:HD23	2.25	0.52
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.38	0.52
2:C:985:GLY:O	2:C:987:ILE:HD12	2.09	0.52
2:C:1054:THR:CG2	2:C:1079:PRO:HB3	2.30	0.52
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.91	0.52
3:D:669:ASN:HD21	5:F:417:LYS:HA	1.74	0.52
3:D:684:LYS:HD3	3:D:686:GLU:OE1	2.09	0.52
3:D:720:LEU:H	3:D:720:LEU:HD12	1.75	0.52
3:D:1230:GLY:CA	8:D:9051:HOH:O	2.57	0.52
4:E:95:GLY:HA3	8:E:104:HOH:O	2.08	0.52
5:F:388:ALA:HB1	8:F:443:HOH:O	2.08	0.52
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.91	0.52
1:L:74:ASP:O	1:L:78:ILE:HG13	2.09	0.52
2:M:172:ILE:H	2:M:172:ILE:HD12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:380:ALA:O	2:M:384:GLU:HB2	2.09	0.52
2:M:510:ALA:HB1	8:M:1203:HOH:O	2.09	0.52
2:M:627:ARG:O	2:M:638:ASP:HB3	2.09	0.52
2:M:710:ILE:HD11	2:M:758:ARG:HH21	1.73	0.52
2:M:720:GLU:HA	2:M:759:THR:O	2.08	0.52
8:M:1245:HOH:O	3:N:603:LEU:HD11	2.09	0.52
3:N:799:LYS:O	3:N:799:LYS:HD3	2.09	0.52
3:N:950:GLY:O	3:N:953:ASP:N	2.38	0.52
3:N:1106:VAL:HG22	8:N:9413:HOH:O	2.10	0.52
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.39	0.52
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.91	0.52
2:C:19:THR:HG21	2:C:124:ASP:O	2.09	0.52
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.90	0.52
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.91	0.52
2:C:685:GLU:H	3:D:740:PHE:HE1	1.57	0.52
2:C:1039:ALA:O	2:C:1043:TYR:HD1	1.92	0.52
2:C:1049:LEU:O	2:C:1053:LEU:HG	2.08	0.52
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.74	0.52
3:D:911:LEU:O	3:D:915:VAL:HG23	2.09	0.52
3:D:955:VAL:HG21	3:D:1015:TYR:HE2	1.74	0.52
1:L:184:THR:O	1:L:192:LEU:HB2	2.08	0.52
2:M:102:HIS:HB2	2:M:106:GLY:O	2.09	0.52
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.44	0.52
3:N:507:ASN:HA	8:N:9017:HOH:O	2.08	0.52
3:N:702:LEU:HD13	3:N:716:PHE:HD1	1.74	0.52
3:N:1087:ARG:HE	3:N:1238:MET:HB2	1.74	0.52
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.91	0.52
1:A:20:TYR:CD2	1:A:21:GLY:N	2.76	0.52
1:A:58:ILE:HB	1:A:61:VAL:HB	1.91	0.52
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.91	0.52
2:C:559:LEU:HD23	2:C:560:MET:HG3	1.90	0.52
2:C:671:ASN:ND2	2:C:671:ASN:H	2.06	0.52
2:C:732:ALA:O	2:C:735:ARG:HG3	2.10	0.52
2:C:861:LEU:HD23	2:C:862:PRO:N	2.24	0.52
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.19	0.52
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.90	0.52
3:D:131:LYS:CG	3:D:568:ARG:HG2	2.36	0.52
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.91	0.52
3:D:607:LEU:HB3	3:D:614:PHE:CE2	2.44	0.52
3:D:895:VAL:O	3:D:899:LEU:HG	2.10	0.52
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:191:ASN:HB3	5:F:220:LEU:HD11	1.91	0.52
5:F:263:HIS:HB2	8:F:604:HOH:O	2.08	0.52
5:F:340:SER:OG	5:F:342:VAL:HG23	2.09	0.52
2:M:19:THR:HG21	2:M:125:GLY:HA3	1.92	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.90	0.52
2:M:411:SER:HB2	2:M:452:ILE:HG23	1.91	0.52
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.92	0.52
2:M:798:GLY:HA3	2:M:828:ALA:O	2.09	0.52
3:N:697:GLY:HA3	8:O:2665:HOH:O	2.08	0.52
3:N:1033:GLN:HB3	8:N:9763:HOH:O	2.09	0.52
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.28	0.52
3:N:1366:LYS:O	3:N:1370:ILE:HG12	2.10	0.52
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.39	0.52
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.73	0.52
2:C:468:ARG:HD3	2:C:485:TYR:HB3	1.90	0.52
2:C:625:LEU:HD13	2:C:639:GLN:O	2.10	0.52
2:C:777:ILE:HG23	5:F:405:LEU:CD1	2.39	0.52
2:C:1092:LEU:HA	2:C:1095:LEU:HD12	1.90	0.52
2:C:1095:LEU:CD1	3:D:607:LEU:HD11	2.32	0.52
3:D:116:LEU:O	3:D:118:LEU:HG	2.08	0.52
3:D:537:THR:CA	5:F:317:LEU:HD12	2.39	0.52
3:D:799:LYS:H	3:D:826:PRO:HG2	1.74	0.52
3:D:858:VAL:HG11	3:D:864:VAL:HG21	1.92	0.52
3:D:884:ARG:HG2	8:D:9790:HOH:O	2.10	0.52
3:D:996:TRP:O	3:D:999:THR:HG22	2.08	0.52
3:D:1448:THR:O	3:D:1452:ILE:HD13	2.09	0.52
8:D:9510:HOH:O	5:F:259:ARG:HB2	2.07	0.52
5:F:401:GLU:O	5:F:405:LEU:HB2	2.10	0.52
1:K:91:ASN:HA	8:K:3642:HOH:O	2.09	0.52
1:K:219:ARG:HG3	1:K:219:ARG:HH11	1.74	0.52
1:L:123:MET:O	1:L:125:PRO:HD3	2.10	0.52
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.44	0.52
2:M:15:LEU:HD11	2:M:583:LEU:HD11	1.90	0.52
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.39	0.52
2:M:165:LEU:HB2	8:M:1197:HOH:O	2.09	0.52
2:M:378:LEU:HG	2:M:382:ILE:CD1	2.40	0.52
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.91	0.52
2:M:772:ARG:CD	5:P:373:LYS:HD2	2.37	0.52
2:M:842:ARG:HB2	8:M:1165:HOH:O	2.07	0.52
3:N:420:VAL:HG23	8:N:9890:HOH:O	2.07	0.52
3:N:631:ILE:HD13	3:N:745:MET:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:185:GLN:O	5:P:189:GLU:HG3	2.09	0.52
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.90	0.52
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.73	0.52
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.90	0.52
2:C:778:PHE:HB2	8:C:1741:HOH:O	2.09	0.52
2:C:1005:MET:CE	3:D:648:MET:HB2	2.39	0.52
2:C:1104:GLU:HA	3:D:6:ARG:HH12	1.75	0.52
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.92	0.52
3:D:584:ASN:HB3	8:D:9062:HOH:O	2.08	0.52
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.35	0.52
3:D:659:LYS:C	3:D:659:LYS:HD3	2.29	0.52
5:F:234:LYS:CD	5:F:236:SER:HB3	2.37	0.52
1:K:94:LEU:HD11	1:K:119:ASP:OD1	2.09	0.52
1:K:97:VAL:HG23	8:K:3015:HOH:O	2.07	0.52
2:M:162:ILE:HB	2:M:172:ILE:HB	1.90	0.52
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.75	0.52
3:N:712:GLY:HA2	8:N:9111:HOH:O	2.09	0.52
3:N:853:VAL:HG13	3:N:858:VAL:O	2.10	0.52
3:N:1381:VAL:HG23	3:N:1391:GLU:O	2.10	0.52
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.90	0.52
2:C:332:ARG:HA	2:C:465:GLY:O	2.10	0.52
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.91	0.52
2:C:627:ARG:HG3	2:C:628:PHE:H	1.75	0.52
2:C:777:ILE:HG12	5:F:405:LEU:HD11	1.91	0.52
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.45	0.52
2:C:911:GLU:HG2	2:C:915:LYS:HZ2	1.74	0.52
2:C:1024:LYS:HB2	8:C:1173:HOH:O	2.08	0.52
2:C:1047:HIS:CD2	3:D:1471:LEU:HD11	2.45	0.52
2:C:1109:VAL:HG22	8:D:9538:HOH:O	2.10	0.52
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.92	0.52
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.90	0.52
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.45	0.52
2:M:139:GLN:HE22	2:M:415:PRO:HD2	1.73	0.52
2:M:269:LEU:HD23	2:M:285:LEU:HD21	1.90	0.52
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.44	0.52
3:N:1047:LYS:HG2	3:N:1053:PHE:CE1	2.45	0.52
1:A:205:VAL:HG23	1:A:206:THR:N	2.23	0.52
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.92	0.52
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.30	0.52
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.52
2:C:510:ALA:HB3	2:C:513:VAL:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:730:SER:O	2:C:734:LEU:HD13	2.10	0.52
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.73	0.52
3:D:38:LYS:HD3	8:D:9533:HOH:O	2.09	0.52
3:D:679:ARG:HD3	3:D:682:ASP:OD2	2.10	0.52
3:D:1033:GLN:HA	3:D:1033:GLN:HE21	1.74	0.52
1:K:18:ARG:O	1:K:207:PRO:HD3	2.08	0.52
1:K:68:ILE:HA	8:K:4050:HOH:O	2.09	0.52
2:M:645:VAL:HG22	8:M:1487:HOH:O	2.09	0.52
3:N:180:LYS:O	3:N:184:GLU:HG3	2.09	0.52
3:N:490:ALA:HB2	8:N:9895:HOH:O	2.10	0.52
3:N:1330:ILE:HD12	3:N:1330:ILE:N	2.25	0.52
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.90	0.52
5:P:102:LEU:HD22	5:P:183:ALA:O	2.09	0.52
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.09	0.52
5:P:367:MET:HA	5:P:370:LYS:NZ	2.24	0.52
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.24	0.52
2:C:32:ALA:HB2	2:C:73:LEU:HD21	1.91	0.52
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.92	0.52
2:C:402:SER:OG	2:C:566:THR:HG22	2.10	0.52
2:C:532:MET:HE3	8:C:1857:HOH:O	2.10	0.52
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.09	0.52
2:C:884:GLN:HG3	2:C:885:ILE:N	2.22	0.52
2:C:897:LEU:HG	2:C:920:GLN:HE21	1.75	0.52
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.34	0.52
3:D:819:GLY:HA3	8:D:9099:HOH:O	2.08	0.52
5:F:247:ILE:O	5:F:251:ILE:HG13	2.10	0.52
1:K:80:LEU:HB3	8:K:3096:HOH:O	2.10	0.52
1:L:226:SER:O	1:L:228:PRO:HD3	2.09	0.52
2:M:97:ARG:HD2	8:M:1366:HOH:O	2.10	0.52
2:M:412:ALA:CB	2:M:451:LEU:HB3	2.40	0.52
2:M:473:ARG:HA	2:M:531:PHE:CD1	2.45	0.52
2:M:1101:THR:O	2:M:1102:LEU:HD23	2.10	0.52
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.40	0.52
3:N:500:ARG:HH12	3:N:1388:ARG:HD2	1.75	0.52
3:N:951:ILE:HG23	3:N:1062:ARG:HH21	1.75	0.52
3:N:1041:LEU:HD12	3:N:1057:VAL:O	2.08	0.52
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.44	0.52
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.40	0.52
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.75	0.52
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.10	0.52
3:N:1344:VAL:HG12	3:N:1348:LEU:CD2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:167:PRO:HG2	8:P:3728:HOH:O	2.10	0.52
1:B:204:SER:HB2	8:B:371:HOH:O	2.09	0.52
2:C:114:PHE:HB2	8:C:1287:HOH:O	2.10	0.52
2:C:139:GLN:OE1	2:C:415:PRO:HD2	2.09	0.52
2:C:232:GLU:O	2:C:235:LEU:HB2	2.09	0.52
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.75	0.52
2:C:333:ILE:N	2:C:333:ILE:HD12	2.25	0.52
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.91	0.52
2:C:722:ILE:HD12	2:C:805:ARG:HH21	1.74	0.52
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.91	0.52
2:C:841:ASN:HD21	2:C:845:ASN:H	1.58	0.52
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.24	0.52
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.35	0.52
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.91	0.52
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.91	0.52
3:D:879:ARG:HH21	3:D:903:ASP:C	2.14	0.52
3:D:918:ALA:O	3:D:922:LEU:HG	2.10	0.52
3:D:972:LEU:HD23	3:D:973:GLN:N	2.24	0.52
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.56	0.52
5:F:274:THR:O	5:F:278:LEU:HG	2.10	0.52
1:K:46:SER:HB3	2:M:856:GLU:CD	2.30	0.52
1:K:123:MET:C	1:K:125:PRO:HD3	2.31	0.52
1:K:219:ARG:HG3	1:K:219:ARG:NH1	2.25	0.52
1:K:226:SER:O	1:K:228:PRO:HD3	2.10	0.52
2:M:244:PRO:CD	2:M:245:GLY:H	2.17	0.52
2:M:322:VAL:HA	8:M:1189:HOH:O	2.09	0.52
2:M:442:GLU:HG2	2:M:454:SER:OG	2.10	0.52
2:M:571:LEU:HD23	2:M:670:GLN:NE2	2.25	0.52
2:M:1034:GLU:HB2	8:M:1373:HOH:O	2.09	0.52
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.45	0.52
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.74	0.52
5:P:363:GLU:HA	5:P:367:MET:HG2	1.92	0.52
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.92	0.52
2:C:41:ASN:HD22	2:C:41:ASN:N	1.97	0.52
2:C:399:ASN:HD22	2:C:399:ASN:N	2.08	0.52
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.45	0.52
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.35	0.52
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.52
2:C:724:ARG:HB3	2:C:724:ARG:HH11	1.73	0.52
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.10	0.52
3:D:58:CYS:SG	3:D:59:ALA:N	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.75	0.52
4:E:19:LEU:O	4:E:23:VAL:HG23	2.10	0.52
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.44	0.52
1:K:143:ARG:HG3	1:K:144:VAL:N	2.25	0.52
1:L:46:SER:HB2	8:L:3700:HOH:O	2.09	0.52
1:L:85:LEU:HD13	1:L:127:LEU:HD23	1.92	0.52
2:M:451:LEU:HD12	2:M:451:LEU:H	1.75	0.52
3:N:15:PRO:HG3	8:N:9079:HOH:O	2.10	0.52
3:N:81:THR:HG22	8:N:9092:HOH:O	2.10	0.52
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.92	0.52
3:N:126:VAL:O	3:N:132:TYR:HD1	1.92	0.52
3:N:411:THR:HB	8:N:9297:HOH:O	2.10	0.52
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.09	0.52
3:N:1194:CYS:HB3	3:N:1373:ARG:CZ	2.40	0.52
3:N:1194:CYS:HB3	3:N:1373:ARG:HH22	1.74	0.52
5:P:253:ASP:HA	5:P:259:ARG:HH12	1.75	0.52
5:P:321:ILE:HB	5:P:327:SER:OG	2.10	0.52
5:P:323:ASP:O	5:P:325:LYS:N	2.43	0.52
2:C:554:ASP:HA	3:D:1061:PHE:CZ	2.45	0.51
3:D:213:VAL:HG21	8:D:9600:HOH:O	2.09	0.51
3:D:529:GLN:HG2	3:D:535:PHE:CE1	2.45	0.51
3:D:542:ASP:O	3:D:546:ARG:HG2	2.10	0.51
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.92	0.51
3:D:573:MET:CE	5:F:210:LEU:HB3	2.39	0.51
3:D:777:PRO:HG2	3:D:915:VAL:HB	1.92	0.51
3:D:819:GLY:O	3:D:822:ALA:HB3	2.10	0.51
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.10	0.51
3:D:1277:ILE:HG21	8:D:9249:HOH:O	2.10	0.51
3:D:1333:HIS:ND1	3:D:1421:LEU:HD23	2.26	0.51
3:D:1403:LEU:HG	8:D:9163:HOH:O	2.10	0.51
5:F:87:GLU:O	5:F:91:VAL:HG23	2.10	0.51
1:K:62:LEU:HD12	1:K:62:LEU:H	1.75	0.51
2:M:52:PHE:HB3	2:M:53:PRO:HD3	1.92	0.51
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.30	0.51
2:M:290:LEU:HD13	8:M:1252:HOH:O	2.10	0.51
2:M:626:ARG:HB2	8:M:1290:HOH:O	2.11	0.51
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.91	0.51
3:N:119:SER:HB2	3:N:123:LEU:N	2.24	0.51
3:N:1210:SER:HB2	8:O:3546:HOH:O	2.10	0.51
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.91	0.51
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:269:LEU:HG	2:C:288:ARG:N	2.24	0.51
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.45	0.51
3:D:1045:MET:HG2	3:D:1073:SER:CA	2.27	0.51
3:D:1242:HIS:HE1	3:D:1266:ARG:HB3	1.75	0.51
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.40	0.51
1:L:170:VAL:HG23	8:L:3287:HOH:O	2.10	0.51
2:M:103:LYS:HB2	8:M:1613:HOH:O	2.10	0.51
2:M:309:TYR:HA	2:M:312:ALA:HB3	1.92	0.51
2:M:405:ARG:HE	2:M:543:ASN:ND2	2.08	0.51
2:M:958:THR:HA	8:M:1596:HOH:O	2.09	0.51
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.10	0.51
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.91	0.51
3:N:171:LEU:HD13	3:N:389:GLU:C	2.30	0.51
3:N:610:LYS:HG2	3:N:611:GLN:HG2	1.92	0.51
3:N:637:LEU:HD21	8:N:9469:HOH:O	2.10	0.51
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.45	0.51
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.57	0.51
3:N:1133:ARG:HB2	8:N:9380:HOH:O	2.09	0.51
5:P:303:ARG:O	5:P:307:THR:HG23	2.10	0.51
1:A:106:PRO:HG3	1:A:133:GLU:O	2.11	0.51
2:C:198:ARG:HD2	8:C:1571:HOH:O	2.09	0.51
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.92	0.51
2:C:264:PRO:HB2	8:C:1418:HOH:O	2.10	0.51
2:C:265:ARG:HG2	2:C:267:TYR:CG	2.45	0.51
2:C:329:GLY:N	2:C:488:ALA:HB3	2.24	0.51
2:C:920:GLN:HG3	8:C:1216:HOH:O	2.11	0.51
2:C:1015:LEU:HA	8:C:1202:HOH:O	2.09	0.51
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.75	0.51
3:D:1008:PHE:HZ	3:D:1032:PRO:HA	1.73	0.51
5:F:153:PRO:HG2	5:F:154:LYS:H	1.75	0.51
2:M:137:VAL:O	2:M:391:LEU:HD21	2.10	0.51
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.09	0.51
3:N:168:THR:HG21	8:N:9101:HOH:O	2.10	0.51
3:N:213:VAL:HG22	3:N:214:GLU:H	1.75	0.51
3:N:996:TRP:CE2	3:N:1056:PRO:HG3	2.45	0.51
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.75	0.51
3:N:1310:ARG:HB2	3:N:1327:ARG:HE	1.75	0.51
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.10	0.51
4:O:88:GLU:HA	4:O:91:ARG:HD2	1.93	0.51
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.44	0.51
5:P:299:TRP:CZ3	5:P:303:ARG:HG2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.75	0.51
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.11	0.51
2:C:72:ARG:HB2	2:C:72:ARG:HH11	1.75	0.51
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.92	0.51
2:C:574:ALA:HB1	2:C:667:ALA:HB3	1.92	0.51
2:C:701:THR:CG2	2:C:832:LYS:HG3	2.37	0.51
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.92	0.51
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.42	0.51
3:D:181:ASP:O	3:D:185:VAL:HG23	2.11	0.51
3:D:507:ASN:HA	8:D:9186:HOH:O	2.11	0.51
3:D:889:ALA:O	3:D:929:ARG:HD2	2.11	0.51
3:D:1135:ARG:HB2	3:D:1140:ILE:HD11	1.92	0.51
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.10	0.51
3:D:1254:GLN:HA	3:D:1254:GLN:OE1	2.09	0.51
3:D:1382:THR:HG22	8:D:9873:HOH:O	2.09	0.51
4:E:81:PRO:HG3	8:E:183:HOH:O	2.09	0.51
1:K:72:LYS:HD2	1:K:73:GLU:OE2	2.09	0.51
1:K:115:LEU:HD13	8:K:3936:HOH:O	2.09	0.51
1:K:127:LEU:HD12	1:K:128:HIS:N	2.23	0.51
1:K:181:VAL:O	2:M:938:LYS:HD3	2.10	0.51
1:K:184:THR:O	1:K:192:LEU:HD12	2.10	0.51
2:M:4:LYS:HD3	8:M:1624:HOH:O	2.10	0.51
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.74	0.51
2:M:191:PHE:CE2	2:M:195:LEU:HB3	2.46	0.51
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.76	0.51
2:M:274:ARG:HD2	2:M:285:LEU:HB3	1.91	0.51
2:M:546:LEU:CA	2:M:581:THR:HG21	2.41	0.51
2:M:741:GLY:HA3	8:M:1430:HOH:O	2.09	0.51
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.40	0.51
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.92	0.51
3:N:491:LYS:HD3	3:N:492:ALA:N	2.25	0.51
3:N:550:ARG:HH12	3:N:577:ALA:HB2	1.76	0.51
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.74	0.51
1:A:132:LEU:HD13	8:A:356:HOH:O	2.09	0.51
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.91	0.51
2:C:410:ILE:N	2:C:410:ILE:HD12	2.26	0.51
2:C:1104:GLU:HA	3:D:6:ARG:NH1	2.26	0.51
3:D:178:LEU:HD12	3:D:200:ASP:HB2	1.93	0.51
3:D:483:HIS:ND1	3:D:483:HIS:N	2.58	0.51
3:D:764:LEU:HD12	3:D:765:SER:H	1.75	0.51
3:D:1088:THR:HA	8:D:9405:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.75	0.51
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.11	0.51
1:L:57:TYR:CE1	1:L:161:ARG:HB3	2.46	0.51
2:M:37:GLU:HA	8:M:1458:HOH:O	2.11	0.51
2:M:420:ARG:HG2	2:M:422:ARG:HG2	1.91	0.51
3:N:498:VAL:HG12	8:N:9641:HOH:O	2.10	0.51
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.75	0.51
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.92	0.51
3:N:1390:LEU:HD13	8:N:9614:HOH:O	2.11	0.51
4:O:24:ALA:O	4:O:28:GLN:HG3	2.10	0.51
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.93	0.51
5:P:113:ILE:O	5:P:116:LEU:HB2	2.11	0.51
5:P:214:GLN:OE1	5:P:214:GLN:HA	2.10	0.51
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.10	0.51
1:B:91:ASN:O	1:B:94:LEU:HD12	2.11	0.51
1:B:105:GLY:O	1:B:132:LEU:HD23	2.09	0.51
1:B:217:ILE:O	1:B:221:HIS:ND1	2.44	0.51
2:C:209:ARG:O	2:C:213:ALA:HB2	2.11	0.51
2:C:958:THR:CG2	2:C:961:GLU:HB2	2.40	0.51
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.92	0.51
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.91	0.51
3:D:543:LEU:O	3:D:546:ARG:HB2	2.11	0.51
3:D:669:ASN:HB3	5:F:349:LEU:HD11	1.92	0.51
3:D:1320:GLU:HB2	3:D:1323:GLN:NE2	2.25	0.51
4:E:48:MET:CB	4:E:54:LEU:HB2	2.41	0.51
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.26	0.51
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.91	0.51
5:F:393:THR:HG22	5:F:394:ARG:H	1.76	0.51
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.10	0.51
1:L:216:GLU:HG3	1:L:219:ARG:HH12	1.76	0.51
2:M:36:PRO:HD3	8:M:1244:HOH:O	2.09	0.51
2:M:154:ARG:HH21	2:M:157:ARG:H	1.58	0.51
2:M:319:GLY:HA2	8:M:1247:HOH:O	2.11	0.51
3:N:513:ILE:HA	8:N:9084:HOH:O	2.10	0.51
3:N:720:LEU:H	3:N:720:LEU:HD12	1.75	0.51
3:N:1065:LEU:CD1	3:N:1069:GLU:HB2	2.41	0.51
4:O:48:MET:HG2	4:O:49:GLN:N	2.24	0.51
4:O:86:GLN:HG2	8:O:2986:HOH:O	2.09	0.51
5:P:153:PRO:HG3	8:P:3659:HOH:O	2.10	0.51
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.46	0.51
2:C:15:LEU:HD12	2:C:15:LEU:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.93	0.51
2:C:693:GLU:HG3	8:C:1199:HOH:O	2.11	0.51
2:C:701:THR:HG23	2:C:832:LYS:HA	1.92	0.51
2:C:1018:GLN:NE2	2:C:1063:ARG:HH22	2.08	0.51
3:D:550:ARG:HH11	3:D:573:MET:HB3	1.76	0.51
3:D:671:LYS:O	3:D:671:LYS:HD3	2.11	0.51
3:D:702:LEU:HG	3:D:745:MET:HE2	1.92	0.51
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.93	0.51
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.26	0.51
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.93	0.51
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.46	0.51
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.11	0.51
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.74	0.51
2:M:584:GLU:O	2:M:588:VAL:HG13	2.11	0.51
2:M:944:LEU:O	2:M:948:GLU:HG2	2.10	0.51
3:N:6:ARG:HB3	3:N:6:ARG:CZ	2.41	0.51
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.26	0.51
3:N:1176:LYS:HA	3:N:1179:GLU:CD	2.30	0.51
3:N:1183:ILE:HG22	8:N:2022:HOH:O	2.10	0.51
3:N:1363:LEU:HD12	3:N:1364:HIS:O	2.11	0.51
4:O:17:TYR:N	4:O:17:TYR:HD2	2.08	0.51
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.91	0.51
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.45	0.51
2:C:42:VAL:HG12	2:C:43:GLY:N	2.26	0.51
2:C:157:ARG:NH2	2:C:314:THR:HA	2.24	0.51
3:D:81:THR:O	3:D:82:LYS:O	2.28	0.51
3:D:84:ILE:O	3:D:87:ARG:HG3	2.11	0.51
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.76	0.51
3:D:563:PRO:HG3	5:F:188:ILE:HG21	1.93	0.51
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.46	0.51
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.11	0.51
3:D:1223:ILE:HD12	3:D:1223:ILE:N	2.23	0.51
3:D:1389:LEU:HD12	3:D:1390:LEU:HG	1.93	0.51
5:F:264:MET:O	5:F:267:THR:HB	2.10	0.51
5:F:316:SER:HB2	5:F:319:THR:OG1	2.11	0.51
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.92	0.51
3:N:524:LEU:C	3:N:526:PRO:HD3	2.31	0.51
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.26	0.51
3:N:554:LEU:O	3:N:558:LEU:HG	2.11	0.51
3:N:1156:LEU:HD11	3:N:1176:LYS:HD2	1.92	0.51
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:54:LEU:HG	4:O:58:PRO:CG	2.40	0.51
5:P:203:THR:HG22	5:P:204:GLY:N	2.26	0.51
1:B:220:GLU:HG2	8:B:449:HOH:O	2.10	0.51
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.41	0.51
2:C:64:LEU:HD22	2:C:359:MET:CG	2.41	0.51
2:C:113:VAL:N	8:C:1822:HOH:O	2.41	0.51
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.26	0.51
3:D:524:LEU:C	3:D:526:PRO:HD3	2.31	0.51
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.41	0.51
3:D:790:TYR:CD1	3:D:1022:VAL:HG13	2.46	0.51
5:F:170:HIS:H	5:F:170:HIS:CD2	2.28	0.51
5:F:259:ARG:N	8:F:509:HOH:O	2.43	0.51
1:K:149:GLY:O	1:K:171:PHE:HB2	2.11	0.51
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.46	0.51
2:M:321:GLU:HG2	8:M:1221:HOH:O	2.10	0.51
2:M:571:LEU:HD12	2:M:701:THR:C	2.31	0.51
2:M:885:ILE:HD12	8:N:9188:HOH:O	2.11	0.51
3:N:1059:SER:HA	8:N:9131:HOH:O	2.11	0.51
3:N:1487:VAL:HG11	3:N:1492:LEU:HD23	1.92	0.51
3:N:1500:LYS:HD3	8:N:9564:HOH:O	2.11	0.51
5:P:256:ARG:NH2	5:P:258:ILE:HB	2.26	0.51
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.41	0.51
1:A:83:LYS:HE2	1:A:167:VAL:CG1	2.40	0.51
1:B:19:GLU:HG3	1:B:201:THR:O	2.10	0.51
2:C:21:ILE:H	2:C:21:ILE:HD12	1.74	0.51
2:C:362:GLY:HA3	2:C:367:LEU:HD22	1.92	0.51
2:C:394:PHE:H	2:C:394:PHE:HD2	1.59	0.51
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.46	0.51
3:D:152:LEU:HD23	3:D:152:LEU:N	2.23	0.51
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.41	0.51
5:F:268:ILE:HG22	8:F:510:HOH:O	2.11	0.51
5:F:336:GLU:HG2	8:F:426:HOH:O	2.11	0.51
2:M:303:PHE:HD1	8:M:1252:HOH:O	1.93	0.51
2:M:626:ARG:HB2	2:M:639:GLN:HE21	1.74	0.51
2:M:704:HIS:O	2:M:705:ILE:HG23	2.11	0.51
3:N:58:CYS:SG	3:N:59:ALA:N	2.84	0.51
3:N:170:PRO:HA	8:N:9445:HOH:O	2.11	0.51
3:N:178:LEU:HA	3:N:181:ASP:OD2	2.11	0.51
3:N:195:VAL:HG22	8:N:9187:HOH:O	2.11	0.51
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.91	0.51
3:N:1288:GLU:HA	8:N:9629:HOH:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:47:LYS:N	4:O:54:LEU:HD13	2.26	0.51
4:O:83:ASP:O	4:O:86:GLN:HG3	2.11	0.51
5:P:208:SER:HB2	5:P:211:ASP:CG	2.31	0.51
5:P:287:THR:C	5:P:289:GLU:H	2.15	0.51
2:C:358:ARG:HH22	2:C:374:ASN:CB	2.11	0.50
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.47	0.50
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.20	0.50
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.11	0.50
3:D:1271:LYS:HG2	3:D:1272:ALA:N	2.25	0.50
5:F:407:LYS:HD3	8:F:437:HOH:O	2.10	0.50
1:K:9:PRO:HD2	1:L:224:TYR:CZ	2.46	0.50
1:K:32:PHE:HB2	8:K:3631:HOH:O	2.11	0.50
1:K:91:ASN:H	1:K:94:LEU:CD1	2.24	0.50
1:K:227:ASN:ND2	8:K:3074:HOH:O	2.43	0.50
1:L:23:PHE:O	1:L:196:THR:HA	2.12	0.50
1:L:176:ARG:HB2	8:N:9402:HOH:O	2.12	0.50
2:M:72:ARG:HH21	2:M:112:GLU:HG3	1.76	0.50
2:M:1107:ASN:HA	8:M:1421:HOH:O	2.11	0.50
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.93	0.50
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.11	0.50
3:N:647:ARG:HG2	8:N:9316:HOH:O	2.11	0.50
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.10	0.50
3:N:1436:SER:HB3	8:N:9153:HOH:O	2.11	0.50
1:A:96:THR:HB	8:A:441:HOH:O	2.09	0.50
2:C:128:ILE:HG22	8:C:1224:HOH:O	2.10	0.50
2:C:175:GLU:HB3	2:C:183:SER:OG	2.11	0.50
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.76	0.50
3:D:420:VAL:HA	5:F:164:LYS:CE	2.41	0.50
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.51	0.50
3:D:653:PHE:CD1	3:D:653:PHE:N	2.80	0.50
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.25	0.50
3:D:1314:LYS:HB3	8:D:9482:HOH:O	2.10	0.50
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.10	0.50
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.93	0.50
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.92	0.50
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.93	0.50
2:M:290:LEU:HD22	2:M:302:VAL:HG11	1.92	0.50
2:M:575:GLN:HA	2:M:662:GLU:OE2	2.11	0.50
3:N:27:GLU:N	8:N:9386:HOH:O	2.44	0.50
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.59	0.50
3:N:422:ALA:O	3:N:427:VAL:HG21	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:999:THR:O	3:N:1002:LYS:HB2	2.11	0.50
3:N:1119:SER:HA	3:N:1186:VAL:O	2.10	0.50
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.94	0.50
1:A:115:LEU:HD12	1:A:115:LEU:O	2.12	0.50
1:B:173:PRO:HB2	1:B:205:VAL:HG22	1.92	0.50
2:C:157:ARG:HD3	2:C:158:TYR:H	1.76	0.50
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.73	0.50
2:C:288:ARG:HB2	2:C:288:ARG:HH11	1.76	0.50
2:C:405:ARG:HH12	2:C:563:ASN:HD21	1.57	0.50
2:C:497:ALA:HA	2:C:515:ALA:HA	1.93	0.50
2:C:625:LEU:HB3	2:C:639:GLN:HG3	1.93	0.50
2:C:679:PHE:C	3:D:943:THR:HG22	2.31	0.50
2:C:712:ALA:HB1	2:C:820:ARG:HH11	1.76	0.50
2:C:969:GLN:HA	8:D:9594:HOH:O	2.11	0.50
2:C:1097:LEU:H	2:C:1097:LEU:CD2	2.19	0.50
3:D:195:VAL:HG13	8:D:9005:HOH:O	2.11	0.50
3:D:428:LYS:HB3	3:D:450:TYR:CE1	2.46	0.50
3:D:480:GLU:O	3:D:484:PRO:HD2	2.11	0.50
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.40	0.50
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.15	0.50
3:D:1271:LYS:HE3	3:D:1334:GLN:HE22	1.75	0.50
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.46	0.50
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.76	0.50
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.42	0.50
4:O:84:ARG:HB2	4:O:84:ARG:CZ	2.42	0.50
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.93	0.50
1:B:84:GLU:HB3	1:B:127:LEU:HD21	1.92	0.50
2:C:66:LEU:HB2	8:C:1196:HOH:O	2.11	0.50
2:C:175:GLU:HA	8:C:1786:HOH:O	2.11	0.50
2:C:404:LEU:O	2:C:407:LYS:HB2	2.11	0.50
2:C:1088:LEU:HB2	8:D:9002:HOH:O	2.10	0.50
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.40	0.50
3:D:960:LYS:HZ2	3:D:1041:LEU:HB3	1.77	0.50
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.10	0.50
3:D:1117:TYR:HE2	3:D:1151:ARG:HH21	1.59	0.50
3:D:1200:VAL:HG22	3:D:1373:ARG:HH12	1.76	0.50
4:E:17:TYR:O	4:E:21:VAL:HG23	2.11	0.50
5:F:142:ARG:HB3	5:F:142:ARG:HH11	1.77	0.50
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.76	0.50
1:L:33:GLY:O	1:L:195:LEU:HD22	2.11	0.50
2:M:333:ILE:O	2:M:465:GLY:HA3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.47	0.50
2:M:1067:TYR:HA	2:M:1070:ILE:HD12	1.93	0.50
3:N:554:LEU:HD21	3:N:571:LYS:HG3	1.93	0.50
3:N:639:LEU:HD12	3:N:639:LEU:N	2.25	0.50
3:N:1097:LYS:HD2	8:N:9081:HOH:O	2.10	0.50
3:N:1258:ARG:HG3	3:N:1262:LEU:HD22	1.92	0.50
3:N:1422:MET:HE2	8:N:9147:HOH:O	2.11	0.50
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.07	0.50
5:P:164:LYS:HD2	8:P:4625:HOH:O	2.10	0.50
1:A:44:LEU:O	1:A:174:VAL:HG21	2.12	0.50
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.44	0.50
2:C:432:ARG:HD3	3:D:1048:PRO:HG2	1.92	0.50
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.41	0.50
2:C:722:ILE:O	2:C:722:ILE:HD13	2.12	0.50
2:C:876:VAL:O	2:C:879:ARG:O	2.29	0.50
3:D:526:PRO:O	3:D:537:THR:HA	2.12	0.50
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.27	0.50
3:D:904:VAL:HG22	8:D:9514:HOH:O	2.09	0.50
3:D:1119:SER:HA	3:D:1186:VAL:O	2.11	0.50
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.11	0.50
5:F:149:GLU:OE1	5:F:149:GLU:HA	2.11	0.50
1:K:173:PRO:HB3	1:K:204:SER:HB3	1.93	0.50
1:L:132:LEU:HD21	1:L:136:GLY:O	2.12	0.50
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.39	0.50
2:M:680:ASP:HB2	2:M:682:TYR:CE2	2.46	0.50
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.46	0.50
2:M:755:LEU:HB2	2:M:790:LEU:CD2	2.40	0.50
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.27	0.50
3:N:175:VAL:HG11	8:N:9190:HOH:O	2.11	0.50
3:N:699:VAL:N	3:N:756:GLN:NE2	2.53	0.50
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.12	0.50
3:N:1263:PHE:CD2	3:N:1371:VAL:HG11	2.47	0.50
8:N:9535:HOH:O	5:P:140:ARG:HB2	2.10	0.50
5:P:102:LEU:O	5:P:106:VAL:HG23	2.12	0.50
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.41	0.50
1:A:213:GLN:O	1:A:217:ILE:HG13	2.11	0.50
1:B:11:PHE:CD1	1:B:25:LEU:HD13	2.47	0.50
1:B:158:ILE:HA	8:B:396:HOH:O	2.11	0.50
2:C:72:ARG:HD3	8:C:1601:HOH:O	2.12	0.50
3:D:178:LEU:CD2	3:D:199:LEU:H	2.24	0.50
3:D:470:LEU:HD12	3:D:508:ARG:HH21	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:902:LEU:H	3:D:902:LEU:HD12	1.76	0.50
3:D:1105:ILE:HD11	3:D:1374:GLN:NE2	2.26	0.50
3:D:1205:TYR:HE1	3:D:1221:VAL:CG1	2.23	0.50
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.12	0.50
1:K:56:VAL:HG21	1:K:82:LEU:HD12	1.93	0.50
1:K:173:PRO:HB2	1:K:205:VAL:HG22	1.93	0.50
1:L:81:ASN:HB2	8:L:2800:HOH:O	2.12	0.50
2:M:139:GLN:O	2:M:334:ARG:N	2.43	0.50
2:M:165:LEU:HD12	2:M:166:PRO:C	2.32	0.50
2:M:191:PHE:CD2	2:M:238:LEU:HD21	2.47	0.50
2:M:377:PRO:HA	8:M:1544:HOH:O	2.11	0.50
2:M:589:ARG:HD2	8:M:1552:HOH:O	2.12	0.50
2:M:852:ILE:N	2:M:852:ILE:HD12	2.27	0.50
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.94	0.50
3:N:21:TRP:HZ3	3:N:518:PRO:HG2	1.77	0.50
3:N:951:ILE:CG2	3:N:1062:ARG:HH21	2.24	0.50
3:N:1335:LEU:HD23	3:N:1344:VAL:HG22	1.94	0.50
5:P:287:THR:N	5:P:290:GLU:OE1	2.44	0.50
5:P:412:GLU:HG3	5:P:418:LEU:HD22	1.92	0.50
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.94	0.50
1:A:26:GLU:HG2	1:A:27:PRO:HA	1.94	0.50
1:A:156:HIS:CD2	1:A:157:GLY:H	2.29	0.50
1:A:206:THR:CG2	1:A:209:GLU:HG3	2.39	0.50
2:C:18:LEU:HB2	2:C:590:ASP:HB3	1.93	0.50
2:C:103:LYS:HG3	8:C:1421:HOH:O	2.12	0.50
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.93	0.50
2:C:195:LEU:CD2	2:C:238:LEU:HG	2.42	0.50
2:C:437:ARG:HA	2:C:467:ILE:CG2	2.40	0.50
2:C:534:VAL:HB	2:C:538:GLN:NE2	2.27	0.50
2:C:572:ILE:HG21	2:C:703:ILE:HD13	1.92	0.50
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.92	0.50
8:C:1739:HOH:O	5:F:370:LYS:HG2	2.12	0.50
3:D:7:LYS:HD3	3:D:1456:LYS:NZ	2.26	0.50
3:D:396:VAL:HG13	3:D:446:VAL:O	2.12	0.50
3:D:399:ARG:NH2	3:D:432:TYR:HE2	2.09	0.50
3:D:661:MET:CE	3:D:673:ALA:HB1	2.40	0.50
3:D:1009:LYS:O	3:D:1012:GLU:HG2	2.11	0.50
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.11	0.50
5:F:289:GLU:O	5:F:293:GLU:HG3	2.11	0.50
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.76	0.50
2:M:214:TYR:HB2	8:M:1457:HOH:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:428:ARG:HG2	2:M:451:LEU:HG	1.93	0.50
2:M:704:HIS:CG	2:M:831:ARG:HH21	2.30	0.50
2:M:837:ASP:O	2:M:848:VAL:HG13	2.12	0.50
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.46	0.50
2:M:1027:PHE:HA	8:M:1757:HOH:O	2.11	0.50
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.93	0.50
3:N:186:VAL:HG13	3:N:187:LYS:N	2.27	0.50
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.35	0.50
3:N:574:LEU:O	3:N:578:VAL:HG23	2.11	0.50
5:P:108:GLU:OE1	5:P:108:GLU:HA	2.12	0.50
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.76	0.50
2:C:404:LEU:HD22	2:C:591:SER:HB3	1.93	0.50
2:C:627:ARG:O	2:C:638:ASP:HB3	2.12	0.50
3:D:404:GLU:HB3	3:D:414:ARG:HD3	1.94	0.50
3:D:690:ALA:O	3:D:694:VAL:HG23	2.12	0.50
3:D:834:THR:HB	3:D:838:ARG:HB3	1.92	0.50
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.46	0.50
3:D:1192:LEU:HG	3:D:1369:GLU:HG2	1.92	0.50
8:D:9410:HOH:O	5:F:147:LEU:HD11	2.11	0.50
5:F:404:ALA:O	5:F:408:LEU:HD23	2.12	0.50
2:M:228:ALA:HB2	8:M:1214:HOH:O	2.11	0.50
2:M:955:PRO:HA	8:M:1188:HOH:O	2.11	0.50
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.93	0.50
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.42	0.50
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.94	0.50
3:N:898:GLU:HB3	3:N:921:ARG:HH22	1.76	0.50
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.41	0.50
1:A:42:ARG:NH2	1:B:34:VAL:HB	2.27	0.50
2:C:157:ARG:CD	2:C:314:THR:HG22	2.40	0.50
2:C:437:ARG:CZ	2:C:469:THR:HG22	2.42	0.50
2:C:464:LEU:O	2:C:466:PHE:N	2.45	0.50
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.94	0.50
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.41	0.50
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.50
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.41	0.50
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.77	0.50
3:D:864:VAL:HG12	3:D:865:THR:H	1.77	0.50
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.94	0.50
3:D:1230:GLY:HA3	8:D:9051:HOH:O	2.11	0.50
5:F:255:ALA:HB3	8:F:561:HOH:O	2.11	0.50
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.42	0.50
3:N:9:ARG:HH22	3:N:507:ASN:HD21	1.60	0.50
3:N:16:GLU:HB2	8:N:9939:HOH:O	2.11	0.50
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.46	0.50
3:N:813:LEU:HD12	3:N:817:GLU:OE1	2.12	0.50
3:N:846:PRO:HD3	8:N:9226:HOH:O	2.10	0.50
5:P:419:ARG:HG3	5:P:420:ASP:N	2.26	0.50
1:B:145:ASP:O	1:B:171:PHE:HE1	1.94	0.49
2:C:137:VAL:HG22	2:C:391:LEU:O	2.12	0.49
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.93	0.49
2:C:437:ARG:HB3	2:C:467:ILE:HB	1.93	0.49
2:C:630:ARG:HG2	2:C:630:ARG:HH11	1.76	0.49
2:C:1044:GLY:CA	4:E:17:TYR:HE1	2.25	0.49
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.75	0.49
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.12	0.49
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.41	0.49
4:E:66:LYS:HB2	4:E:66:LYS:NZ	2.26	0.49
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.94	0.49
1:K:64:GLU:HB2	8:K:3487:HOH:O	2.10	0.49
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.41	0.49
2:M:723:THR:HG21	2:M:783:ARG:HH22	1.77	0.49
3:N:183:GLU:O	3:N:186:VAL:HG12	2.12	0.49
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.93	0.49
3:N:543:LEU:O	3:N:546:ARG:HB2	2.11	0.49
3:N:733:CYS:HA	8:N:9159:HOH:O	2.12	0.49
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.94	0.49
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.12	0.49
3:N:1481:VAL:HA	4:O:18:ARG:HH21	1.77	0.49
1:A:219:ARG:CZ	1:B:223:THR:HG23	2.42	0.49
2:C:217:LEU:HA	8:C:1241:HOH:O	2.10	0.49
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.77	0.49
2:C:761:PHE:N	2:C:761:PHE:CD1	2.80	0.49
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.45	0.49
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.94	0.49
3:D:549:ASN:HB3	8:F:611:HOH:O	2.12	0.49
3:D:630:VAL:HG23	3:D:744:GLN:OE1	2.12	0.49
3:D:1197:ARG:HG3	8:D:9036:HOH:O	2.10	0.49
3:D:1310:ARG:HG2	3:D:1327:ARG:HB3	1.94	0.49
3:D:1363:LEU:HD12	3:D:1364:HIS:O	2.12	0.49
4:E:86:GLN:O	4:E:90:GLU:HG3	2.12	0.49
5:F:167:PRO:HD2	5:F:170:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:66:SER:O	1:K:75:VAL:HG23	2.12	0.49
1:K:211:LEU:O	1:K:215:VAL:HG22	2.12	0.49
2:M:49:ARG:HB2	2:M:49:ARG:NH1	2.27	0.49
2:M:157:ARG:NE	2:M:157:ARG:HA	2.27	0.49
2:M:259:GLY:HA3	8:M:1296:HOH:O	2.11	0.49
2:M:508:ILE:HG21	8:M:1319:HOH:O	2.12	0.49
2:M:745:ILE:HD11	8:M:1269:HOH:O	2.11	0.49
2:M:826:TYR:N	2:M:826:TYR:CD1	2.80	0.49
3:N:60:CYS:SG	3:N:62:LYS:HG2	2.52	0.49
3:N:583:ASP:HA	3:N:602:SER:HB2	1.93	0.49
3:N:1496:GLU:O	3:N:1500:LYS:HG3	2.12	0.49
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.94	0.49
5:P:142:ARG:HB3	5:P:142:ARG:HH11	1.76	0.49
1:A:61:VAL:HG12	8:A:482:HOH:O	2.12	0.49
2:C:141:HIS:ND1	2:C:418:LEU:HG	2.27	0.49
2:C:710:ILE:CB	2:C:790:LEU:HD13	2.39	0.49
3:D:197:SER:CB	3:D:203:ALA:HB3	2.28	0.49
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.26	0.49
3:D:850:LEU:O	3:D:853:VAL:HB	2.12	0.49
3:D:1205:TYR:HD2	8:D:9465:HOH:O	1.95	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.92	0.49
1:L:62:LEU:HD12	8:L:2996:HOH:O	2.12	0.49
2:M:170:PRO:HG2	2:M:258:TYR:HD2	1.76	0.49
2:M:708:TYR:CD1	2:M:708:TYR:N	2.79	0.49
3:N:9:ARG:HG3	3:N:1455:LYS:C	2.33	0.49
3:N:379:ALA:HB2	8:N:9176:HOH:O	2.12	0.49
3:N:462:GLN:HB3	8:N:9127:HOH:O	2.12	0.49
3:N:474:GLU:O	3:N:478:LEU:HG	2.12	0.49
3:N:645:PRO:HG3	3:N:725:SER:O	2.13	0.49
3:N:844:ALA:HA	3:N:867:ARG:NH1	2.27	0.49
3:N:1168:MET:HE2	3:N:1168:MET:O	2.11	0.49
3:N:1225:ALA:HA	3:N:1367:HIS:ND1	2.27	0.49
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.48	0.49
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.43	0.49
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.93	0.49
2:C:15:LEU:HD13	2:C:586:ARG:HG3	1.94	0.49
2:C:146:VAL:HG13	2:C:161:SER:O	2.12	0.49
2:C:443:THR:HG23	2:C:449:ILE:HD12	1.92	0.49
2:C:503:LEU:HD13	2:C:507:ARG:O	2.12	0.49
2:C:777:ILE:HA	5:F:405:LEU:HD21	1.93	0.49
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.41	0.49
3:D:111:LYS:HE2	3:D:1452:ILE:HG21	1.95	0.49
3:D:395:VAL:HG12	8:D:2022:HOH:O	2.11	0.49
3:D:809:PRO:O	3:D:812:ALA:HB3	2.12	0.49
3:D:1105:ILE:HA	8:D:9253:HOH:O	2.12	0.49
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.45	0.49
4:E:55:PHE:HB3	8:E:116:HOH:O	2.12	0.49
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.47	0.49
1:K:68:ILE:HG21	1:K:138:LEU:CD1	2.42	0.49
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.47	0.49
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.95	0.49
2:M:92:ALA:HB2	2:M:120:LEU:CD1	2.34	0.49
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.47	0.49
2:M:1118:LYS:HG2	3:N:23:TYR:HE1	1.78	0.49
3:N:7:LYS:HD3	3:N:1456:LYS:NZ	2.28	0.49
3:N:203:ALA:HA	8:N:9962:HOH:O	2.13	0.49
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.42	0.49
3:N:868:TYR:HE2	3:N:880:ILE:HD11	1.78	0.49
5:P:107:GLU:HG3	8:P:4460:HOH:O	2.11	0.49
5:P:218:GLN:HE21	5:P:221:ILE:HD12	1.78	0.49
5:P:247:ILE:O	5:P:251:ILE:HG13	2.13	0.49
5:P:358:LEU:CD1	5:P:370:LYS:HG3	2.38	0.49
5:P:363:GLU:HA	5:P:367:MET:CE	2.42	0.49
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.47	0.49
2:C:147:TYR:HE2	2:C:280:LYS:HZ3	1.59	0.49
2:C:327:HIS:HD2	2:C:433:THR:OG1	1.96	0.49
2:C:461:VAL:HG22	8:C:1321:HOH:O	2.12	0.49
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.48	0.49
2:C:577:PRO:HA	2:C:671:ASN:OD1	2.13	0.49
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.94	0.49
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.77	0.49
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.42	0.49
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.93	0.49
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.43	0.49
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.11	0.49
4:E:26:ARG:HE	4:E:30:LEU:CD1	2.25	0.49
5:F:203:THR:HB	8:F:436:HOH:O	2.11	0.49
5:F:287:THR:C	5:F:289:GLU:H	2.15	0.49
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.47	0.49
1:K:65:PHE:CE1	2:M:799:ILE:HD11	2.46	0.49
2:M:937:ASP:HB2	2:M:940:GLU:H	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:CB	2.38	0.49
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.12	0.49
3:N:720:LEU:HD12	8:N:9443:HOH:O	2.12	0.49
3:N:970:LYS:HE3	8:N:9931:HOH:O	2.13	0.49
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.48	0.49
5:P:260:ILE:CG2	5:P:264:MET:HB2	2.41	0.49
5:P:291:ILE:HB	8:P:4032:HOH:O	2.13	0.49
5:P:323:ASP:C	5:P:325:LYS:H	2.15	0.49
1:A:187:GLY:HA3	8:A:335:HOH:O	2.11	0.49
8:A:501:HOH:O	2:C:644:VAL:HG13	2.13	0.49
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.42	0.49
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.28	0.49
2:C:422:ARG:HG2	8:C:1141:HOH:O	2.12	0.49
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.95	0.49
2:C:609:ASN:ND2	2:C:627:ARG:NH2	2.58	0.49
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.49
2:C:896:PHE:O	2:C:924:VAL:HG11	2.12	0.49
3:D:96:ALA:CB	3:D:554:LEU:HD12	2.42	0.49
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.94	0.49
3:D:862:ASP:O	3:D:877:PRO:HD3	2.12	0.49
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.43	0.49
3:D:1289:LYS:HE3	3:D:1307:LYS:CE	2.41	0.49
5:F:277:GLN:O	5:F:280:GLN:HB3	2.12	0.49
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.49
1:L:84:GLU:HG3	1:L:127:LEU:HD22	1.94	0.49
1:L:102:LYS:HG3	1:L:139:ASN:CB	2.42	0.49
1:L:196:THR:HB	8:L:4937:HOH:O	2.11	0.49
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.25	0.49
2:M:420:ARG:HD2	2:M:420:ARG:H	1.76	0.49
2:M:802:ARG:HD2	8:M:1213:HOH:O	2.12	0.49
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.48	0.49
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.95	0.49
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.94	0.49
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.28	0.49
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.43	0.49
3:N:121:THR:C	8:N:9808:HOH:O	2.51	0.49
3:N:133:ILE:HG23	3:N:455:ARG:N	2.28	0.49
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.41	0.49
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.49
3:N:567:ILE:C	3:N:571:LYS:HZ2	2.16	0.49
3:N:728:LEU:HD12	8:N:9339:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:890:VAL:CG1	3:N:926:LYS:HD3	2.42	0.49
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.11	0.49
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.13	0.49
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.49
2:C:274:ARG:HG3	2:C:274:ARG:O	2.13	0.49
2:C:366:SER:O	2:C:367:LEU:HD23	2.12	0.49
2:C:433:THR:HG22	2:C:433:THR:O	2.13	0.49
2:C:589:ARG:HG2	8:C:1213:HOH:O	2.12	0.49
3:D:124:GLU:HG2	3:D:128:TYR:CZ	2.47	0.49
3:D:131:LYS:HB3	3:D:456:MET:CE	2.43	0.49
3:D:156:GLU:CD	3:D:156:GLU:N	2.66	0.49
3:D:916:TYR:HH	3:D:1145:TYR:HH	1.60	0.49
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.11	0.49
4:E:51:LEU:CD1	4:E:52:GLU:H	2.26	0.49
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.78	0.49
2:M:332:ARG:NE	2:M:464:LEU:HG	2.28	0.49
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.93	0.49
2:M:580:MET:HB3	2:M:584:GLU:OE2	2.13	0.49
2:M:768:THR:O	2:M:772:ARG:HB3	2.12	0.49
3:N:27:GLU:O	3:N:28:LYS:HD2	2.13	0.49
3:N:574:LEU:O	3:N:577:ALA:HB3	2.11	0.49
3:N:602:SER:O	3:N:606:ILE:HG12	2.13	0.49
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.94	0.49
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.36	0.49
4:O:54:LEU:HB3	8:O:4983:HOH:O	2.12	0.49
5:P:142:ARG:HB3	5:P:142:ARG:NH1	2.26	0.49
5:P:184:ARG:O	5:P:188:ILE:HG13	2.12	0.49
1:B:65:PHE:HD1	3:D:813:LEU:HD22	1.76	0.49
2:C:84:ARG:HH21	2:C:128:ILE:HD11	1.78	0.49
2:C:172:ILE:HD12	2:C:172:ILE:N	2.27	0.49
2:C:412:ALA:CB	2:C:451:LEU:HB3	2.42	0.49
2:C:717:LEU:HB3	8:C:1140:HOH:O	2.13	0.49
2:C:751:PRO:HA	2:C:792:VAL:CG1	2.42	0.49
3:D:229:ALA:HA	8:D:2026:HOH:O	2.12	0.49
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.93	0.49
3:D:493:ARG:HD2	8:D:9698:HOH:O	2.13	0.49
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.74	0.49
3:D:790:TYR:CG	3:D:1026:SER:HB3	2.48	0.49
3:D:939:PHE:O	3:D:943:THR:HG23	2.13	0.49
3:D:1157:GLY:HA3	8:D:9057:HOH:O	2.11	0.49
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:404:ALA:HA	8:F:429:HOH:O	2.12	0.49
2:M:62:GLY:O	2:M:103:LYS:HG3	2.13	0.49
2:M:345:ARG:HB3	2:M:345:ARG:HH11	1.77	0.49
2:M:492:ASP:HB3	2:M:518:LYS:CD	2.42	0.49
2:M:571:LEU:HD23	2:M:670:GLN:HE21	1.77	0.49
2:M:770:GLU:HB2	8:N:9595:HOH:O	2.12	0.49
3:N:687:VAL:O	3:N:690:ALA:HB3	2.12	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.28	0.49
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	2.12	0.49
3:N:1442:ASN:HA	8:N:9244:HOH:O	2.11	0.49
5:P:128:ARG:O	5:P:132:ARG:HG2	2.13	0.49
5:P:181:GLU:O	5:P:184:ARG:HB3	2.13	0.49
1:A:95:GLN:HG2	1:A:146:ARG:NH2	2.14	0.49
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.46	0.49
2:C:100:LEU:HD12	2:C:101:ILE:O	2.12	0.49
2:C:397:GLU:HA	2:C:403:SER:HB3	1.94	0.49
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.77	0.49
2:C:637:LEU:HD13	8:C:1532:HOH:O	2.12	0.49
3:D:440:VAL:HG22	8:D:9349:HOH:O	2.13	0.49
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.95	0.49
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.25	0.49
3:D:1431:THR:HB	8:D:9481:HOH:O	2.13	0.49
5:F:395:GLU:O	5:F:399:GLN:HB2	2.13	0.49
2:M:139:GLN:HG3	2:M:140:ILE:N	2.26	0.49
2:M:326:ASP:HB2	2:M:431:HIS:CE1	2.48	0.49
2:M:525:SER:H	2:M:528:GLU:HG3	1.77	0.49
2:M:758:ARG:HB3	2:M:788:THR:O	2.13	0.49
2:M:841:ASN:ND2	2:M:844:GLY:H	2.11	0.49
3:N:68:PHE:HA	3:N:71:LYS:HZ1	1.78	0.49
3:N:674:ARG:HG2	3:N:674:ARG:HH11	1.76	0.49
3:N:704:ARG:HG3	3:N:736:PHE:CB	2.43	0.49
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.13	0.49
1:A:62:LEU:HB3	1:A:163:ASN:HD21	1.78	0.49
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.95	0.49
2:C:603:VAL:HG12	8:C:1221:HOH:O	2.13	0.49
3:D:959:GLU:H	3:D:959:GLU:CD	2.16	0.49
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.95	0.49
4:E:84:ARG:NH1	4:E:84:ARG:HB2	2.26	0.49
5:F:142:ARG:HG3	8:F:482:HOH:O	2.12	0.49
5:F:362:SER:C	5:F:364:ARG:H	2.15	0.49
1:K:96:THR:HG21	8:K:3321:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:285:LEU:HD23	2:M:285:LEU:O	2.13	0.49
2:M:497:ALA:HA	2:M:515:ALA:HA	1.94	0.49
2:M:614:ARG:CD	2:M:620:LEU:HD12	2.36	0.49
2:M:722:ILE:HG23	2:M:722:ILE:O	2.13	0.49
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.28	0.49
3:N:466:LYS:HB2	8:N:9423:HOH:O	2.12	0.49
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.40	0.49
3:N:948:THR:O	3:N:949:ILE:HD13	2.13	0.49
4:O:48:MET:N	4:O:54:LEU:HB2	2.28	0.49
4:O:54:LEU:HD23	4:O:58:PRO:HD2	1.94	0.49
5:P:176:ILE:HD12	8:P:3516:HOH:O	2.13	0.49
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.48	0.48
2:C:137:VAL:O	2:C:391:LEU:HD21	2.13	0.48
2:C:166:PRO:HD2	8:C:1392:HOH:O	2.13	0.48
2:C:286:SER:HB3	8:C:1755:HOH:O	2.12	0.48
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.95	0.48
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.42	0.48
3:D:32:ILE:HG12	3:D:38:LYS:O	2.13	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.39	0.48
1:K:100:LEU:HD11	8:K:4816:HOH:O	2.13	0.48
1:L:32:PHE:O	1:L:36:LEU:HD23	2.12	0.48
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.13	0.48
2:M:510:ALA:HA	8:M:1122:HOH:O	2.13	0.48
2:M:537:LYS:CA	2:M:545:ASN:HD21	2.22	0.48
2:M:589:ARG:HH11	2:M:589:ARG:CB	2.23	0.48
2:M:721:ARG:O	2:M:758:ARG:HA	2.13	0.48
2:M:778:PHE:HD2	8:M:1700:HOH:O	1.95	0.48
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.95	0.48
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.48	0.48
3:N:433:GLY:HA3	3:N:450:TYR:HD1	1.78	0.48
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.43	0.48
3:N:890:VAL:HG12	8:N:9462:HOH:O	2.12	0.48
3:N:1108:ARG:HH21	3:N:1198:TYR:C	2.16	0.48
1:A:198:ARG:C	1:A:199:ILE:HD12	2.34	0.48
1:B:18:ARG:O	1:B:207:PRO:HD3	2.13	0.48
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.48	0.48
2:C:498:GLN:O	2:C:501:THR:HG23	2.12	0.48
2:C:583:LEU:O	2:C:583:LEU:HG	2.13	0.48
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.48	0.48
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.13	0.48
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:971:LEU:O	3:D:975:GLU:HG3	2.12	0.48
3:D:1310:ARG:NH1	3:D:1327:ARG:HD3	2.28	0.48
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.48	0.48
2:M:283:ILE:HG23	8:M:1216:HOH:O	2.13	0.48
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.43	0.48
2:M:605:LYS:HB3	8:M:1452:HOH:O	2.11	0.48
2:M:637:LEU:N	2:M:637:LEU:HD23	2.28	0.48
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.44	0.48
3:N:119:SER:H	3:N:123:LEU:CD2	2.23	0.48
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.96	0.48
3:N:1046:GLN:OE1	3:N:1046:GLN:N	2.46	0.48
4:O:48:MET:CB	4:O:54:LEU:HB2	2.43	0.48
5:P:193:ARG:HG2	8:P:3920:HOH:O	2.13	0.48
5:P:208:SER:HB2	5:P:211:ASP:OD1	2.13	0.48
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.37	0.48
2:C:367:LEU:CD2	2:C:371:LYS:HG2	2.41	0.48
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.47	0.48
2:C:742:VAL:HG12	2:C:743:VAL:N	2.28	0.48
2:C:759:THR:HB	2:C:785:VAL:HG21	1.95	0.48
2:C:802:ARG:HB3	8:C:1186:HOH:O	2.11	0.48
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.13	0.48
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.42	0.48
3:D:63:TYR:HE2	8:D:9643:HOH:O	1.96	0.48
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.48	0.48
3:D:768:ASN:N	3:D:768:ASN:ND2	2.61	0.48
3:D:829:VAL:HA	8:D:2081:HOH:O	2.13	0.48
4:E:85:LEU:HD23	4:E:86:GLN:N	2.28	0.48
5:F:142:ARG:HA	8:F:755:HOH:O	2.13	0.48
5:F:231:ARG:HB3	5:F:233:PHE:CZ	2.49	0.48
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.95	0.48
1:K:140:MET:HG3	1:K:142:VAL:HG12	1.94	0.48
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.28	0.48
2:M:407:LYS:HD2	8:M:1363:HOH:O	2.12	0.48
2:M:707:ARG:HD2	2:M:824:ARG:HG2	1.93	0.48
2:M:790:LEU:C	2:M:790:LEU:HD23	2.34	0.48
2:M:882:LEU:HD11	3:N:1038:LEU:HD23	1.94	0.48
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.12	0.48
3:N:15:PRO:HA	3:N:18:ILE:CG1	2.42	0.48
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.95	0.48
3:N:179:VAL:HG23	8:N:9425:HOH:O	2.13	0.48
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:756:GLN:HG2	8:N:9643:HOH:O	2.12	0.48
3:N:844:ALA:HB1	8:N:9025:HOH:O	2.11	0.48
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.28	0.48
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.13	0.48
1:A:118:ALA:HB3	8:A:444:HOH:O	2.14	0.48
2:C:379:GLU:O	2:C:383:ARG:HB3	2.12	0.48
2:C:500:ASN:ND2	3:D:1067:VAL:HG23	2.20	0.48
2:C:839:LEU:HD12	2:C:994:ILE:HG21	1.95	0.48
2:C:872:ASN:HB3	8:C:1870:HOH:O	2.13	0.48
3:D:139:GLY:N	3:D:147:VAL:HG21	2.27	0.48
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.96	0.48
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.28	0.48
3:D:608:SER:O	3:D:612:GLY:HA3	2.14	0.48
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.42	0.48
5:F:134:LYS:HB3	5:F:178:ARG:NH1	2.28	0.48
5:F:226:LYS:HE3	8:F:741:HOH:O	2.12	0.48
5:F:310:ILE:HB	8:F:438:HOH:O	2.12	0.48
1:L:2:LEU:HD12	1:L:3:ASP:N	2.27	0.48
1:L:13:VAL:HG22	8:L:3037:HOH:O	2.13	0.48
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.94	0.48
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.43	0.48
2:M:281:LEU:CD1	2:M:306:THR:HA	2.44	0.48
2:M:748:GLU:HA	2:M:799:ILE:HG22	1.95	0.48
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.95	0.48
2:M:1060:ILE:HG12	2:M:1063:ARG:HH21	1.78	0.48
3:N:566:ILE:HB	8:N:9165:HOH:O	2.13	0.48
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.13	0.48
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.39	0.48
3:N:1176:LYS:HA	3:N:1179:GLU:OE2	2.14	0.48
4:O:35:PHE:HB3	8:O:3746:HOH:O	2.14	0.48
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.49	0.48
3:D:65:ARG:HG3	3:D:66:GLN:N	2.25	0.48
3:D:768:ASN:HD22	3:D:768:ASN:H	1.61	0.48
8:D:9332:HOH:O	5:F:80:PRO:HA	2.13	0.48
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.96	0.48
5:F:194:LEU:HB2	8:F:523:HOH:O	2.12	0.48
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.43	0.48
1:K:18:ARG:NH1	1:K:123:MET:HE1	2.28	0.48
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.43	0.48
1:L:173:PRO:HB3	1:L:204:SER:HB3	1.94	0.48
2:M:264:PRO:HB2	2:M:289:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:474:VAL:HG23	2:M:478:VAL:O	2.13	0.48
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.95	0.48
3:N:565:ILE:H	3:N:565:ILE:CD1	2.10	0.48
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.95	0.48
1:B:110:LYS:HZ3	1:B:110:LYS:HB2	1.78	0.48
1:B:162:ILE:HG22	8:B:463:HOH:O	2.12	0.48
2:C:41:ASN:HB3	8:C:1231:HOH:O	2.13	0.48
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.43	0.48
2:C:127:PHE:O	2:C:133:ASP:HA	2.13	0.48
2:C:630:ARG:HH22	2:C:707:ARG:N	2.11	0.48
2:C:669:GLY:C	2:C:670:GLN:HG3	2.33	0.48
2:C:708:TYR:N	2:C:708:TYR:CD1	2.81	0.48
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.26	0.48
3:D:576:GLU:C	3:D:576:GLU:CD	2.72	0.48
3:D:827:ILE:O	3:D:837:GLY:HA3	2.14	0.48
3:D:1009:LYS:HA	3:D:1012:GLU:CD	2.34	0.48
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.76	0.48
3:D:1264:GLU:HB3	3:D:1266:ARG:NE	2.29	0.48
4:E:87:LYS:O	4:E:91:ARG:HG3	2.14	0.48
1:K:215:VAL:HG11	1:L:225:PHE:CD1	2.48	0.48
2:M:19:THR:HG21	2:M:124:ASP:O	2.14	0.48
2:M:239:PHE:HE2	8:M:1222:HOH:O	1.97	0.48
2:M:301:GLU:O	2:M:305:PRO:HG2	2.13	0.48
2:M:688:ILE:N	2:M:688:ILE:HD12	2.29	0.48
2:M:759:THR:HB	2:M:785:VAL:CG2	2.43	0.48
2:M:833:LEU:HD12	2:M:834:GLN:N	2.29	0.48
2:M:879:ARG:NH1	3:N:1029:ARG:NH2	2.62	0.48
3:N:42:ASP:O	3:N:43:GLY:O	2.31	0.48
3:N:973:GLN:HG2	8:N:9252:HOH:O	2.13	0.48
4:O:45:ARG:O	4:O:47:LYS:HD3	2.13	0.48
5:P:350:LEU:HG	5:P:354:LEU:CD1	2.43	0.48
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.43	0.48
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.48	0.48
2:C:91:GLN:HE22	2:C:383:ARG:NH2	2.11	0.48
2:C:471:TYR:HA	2:C:534:VAL:HG23	1.96	0.48
2:C:603:VAL:H	2:C:647:GLN:H	1.61	0.48
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.76	0.48
3:D:389:GLU:O	3:D:389:GLU:HG2	2.13	0.48
3:D:428:LYS:HB3	3:D:450:TYR:HE1	1.77	0.48
3:D:666:ILE:H	3:D:666:ILE:HG13	1.33	0.48
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:813:LEU:O	3:D:839:LEU:HD11	2.13	0.48
3:D:860:LEU:O	3:D:877:PRO:HD2	2.13	0.48
3:D:899:LEU:HD21	3:D:922:LEU:HD21	1.96	0.48
3:D:1129:THR:HA	8:D:9218:HOH:O	2.14	0.48
3:D:1130:ARG:HG3	8:D:2021:HOH:O	2.13	0.48
4:E:17:TYR:N	4:E:17:TYR:CD2	2.82	0.48
4:E:43:GLU:HG2	4:E:44:GLU:N	2.28	0.48
1:K:178:ALA:HB3	1:K:198:ARG:HD3	1.94	0.48
1:K:209:GLU:O	1:K:213:GLN:HG3	2.13	0.48
2:M:57:GLU:HG3	2:M:58:ASP:OD2	2.13	0.48
2:M:80:GLN:O	2:M:83:CYS:HB2	2.13	0.48
2:M:599:GLU:OE1	2:M:651:LYS:HD2	2.14	0.48
2:M:1045:ALA:HB1	2:M:1048:THR:HB	1.96	0.48
3:N:880:ILE:O	3:N:883:ALA:HB3	2.14	0.48
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.17	0.48
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.95	0.48
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.49	0.48
1:A:85:LEU:HD12	1:A:86:VAL:N	2.29	0.48
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.96	0.48
1:A:110:LYS:HB2	8:A:442:HOH:O	2.14	0.48
1:A:161:ARG:NH2	8:A:348:HOH:O	2.46	0.48
2:C:289:THR:HB	8:C:1418:HOH:O	2.12	0.48
2:C:302:VAL:C	2:C:305:PRO:HD2	2.34	0.48
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.95	0.48
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.96	0.48
2:C:937:ASP:HB3	2:C:939:ARG:HG2	1.96	0.48
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.33	0.48
3:D:32:ILE:O	5:F:258:ILE:HG23	2.14	0.48
3:D:494:LYS:HD3	8:D:9340:HOH:O	2.14	0.48
3:D:550:ARG:HA	8:D:9108:HOH:O	2.14	0.48
3:D:598:ARG:CZ	5:F:320:PRO:HD3	2.44	0.48
3:D:633:VAL:HB	3:D:740:PHE:CZ	2.48	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.43	0.48
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.16	0.48
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.95	0.48
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.96	0.48
5:F:171:LYS:HG3	5:F:175:HIS:CD2	2.49	0.48
2:M:852:ILE:HD12	2:M:852:ILE:H	1.79	0.48
2:M:863:ASP:O	2:M:865:THR:N	2.46	0.48
2:M:925:TYR:CD1	2:M:925:TYR:C	2.87	0.48
2:M:975:TYR:HA	2:M:982:PRO:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:93:ILE:HD13	3:N:548:ILE:HD11	1.95	0.48
3:N:208:PRO:CB	3:N:395:VAL:HG13	2.44	0.48
3:N:470:LEU:HD21	3:N:508:ARG:HH21	1.77	0.48
3:N:631:ILE:O	3:N:632:VAL:HG23	2.13	0.48
3:N:676:MET:HE2	3:N:684:LYS:HD2	1.96	0.48
3:N:799:LYS:HE2	3:N:824:ASN:O	2.13	0.48
3:N:1117:TYR:N	3:N:1117:TYR:CD2	2.82	0.48
3:N:1173:LEU:CD2	3:N:1174:LEU:HD23	2.43	0.48
3:N:1310:ARG:HD2	3:N:1327:ARG:HH21	1.76	0.48
5:P:125:ASP:OD2	5:P:126:LEU:HD13	2.14	0.48
5:P:169:GLU:H	5:P:169:GLU:CD	2.17	0.48
1:A:137:ARG:HD2	1:A:137:ARG:N	2.29	0.48
2:C:536:PRO:HG2	8:C:1330:HOH:O	2.14	0.48
2:C:669:GLY:HA3	2:C:995:MET:HA	1.96	0.48
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.96	0.48
2:C:715:THR:CG2	2:C:717:LEU:HG	2.44	0.48
2:C:721:ARG:O	2:C:758:ARG:HA	2.14	0.48
3:D:161:LEU:CD1	3:D:452:ILE:HD12	2.44	0.48
3:D:183:GLU:O	3:D:186:VAL:HG12	2.14	0.48
3:D:645:PRO:HG3	3:D:725:SER:O	2.12	0.48
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.13	0.48
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.44	0.48
5:F:323:ASP:O	5:F:325:LYS:N	2.46	0.48
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.95	0.48
1:L:218:LEU:O	1:L:222:LEU:HG	2.14	0.48
2:M:31:GLN:HG2	2:M:34:VAL:HG23	1.96	0.48
2:M:114:PHE:CZ	5:P:283:GLY:HA3	2.49	0.48
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.43	0.48
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.96	0.48
2:M:310:LEU:O	2:M:314:THR:HG23	2.14	0.48
2:M:586:ARG:HD2	2:M:590:ASP:OD2	2.14	0.48
2:M:952:LEU:HB3	2:M:969:GLN:HE22	1.78	0.48
2:M:1104:GLU:HG2	8:M:1597:HOH:O	2.13	0.48
3:N:393:ILE:HD12	3:N:393:ILE:H	1.79	0.48
3:N:661:MET:CE	3:N:673:ALA:HB1	2.43	0.48
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.49	0.48
3:N:788:GLY:O	3:N:792:ILE:HG22	2.13	0.48
3:N:804:LEU:HB3	8:N:9574:HOH:O	2.13	0.48
3:N:879:ARG:NE	3:N:902:LEU:O	2.47	0.48
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.44	0.48
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.41	0.48
8:N:9310:HOH:O	4:O:89:MET:HA	2.14	0.48
4:O:47:LYS:HE2	4:O:47:LYS:H	1.78	0.48
5:P:267:THR:HG21	8:P:3894:HOH:O	2.14	0.48
5:P:291:ILE:O	5:P:295:MET:HB2	2.13	0.48
2:C:378:LEU:HG	2:C:382:ILE:CD1	2.44	0.48
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.94	0.48
2:C:704:HIS:O	2:C:705:ILE:HG13	2.14	0.48
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.44	0.48
3:D:516:ALA:O	3:D:518:PRO:HD3	2.14	0.48
3:D:1107:VAL:HG21	3:D:1215:VAL:HG11	1.94	0.48
3:D:1250:ALA:O	3:D:1269:LYS:HE2	2.14	0.48
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.96	0.48
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.14	0.48
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.49	0.48
4:E:64:ALA:HA	4:E:67:GLU:CD	2.34	0.48
5:F:323:ASP:C	5:F:325:LYS:H	2.17	0.48
2:M:207:LEU:O	2:M:211:LEU:HB3	2.13	0.48
2:M:415:PRO:HB2	2:M:418:LEU:HD13	1.96	0.48
2:M:835:VAL:HG13	3:N:725:SER:OG	2.14	0.48
3:N:759:ALA:HA	3:N:763:MET:HE2	1.96	0.48
3:N:761:ILE:HD13	8:O:3197:HOH:O	2.13	0.48
3:N:787:LEU:HD12	3:N:787:LEU:O	2.14	0.48
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.14	0.48
3:N:1242:HIS:NE2	3:N:1266:ARG:HD3	2.29	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.48
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.14	0.48
5:P:396:ARG:HH11	5:P:399:GLN:HE21	1.62	0.48
5:P:396:ARG:NH1	5:P:399:GLN:HE21	2.12	0.48
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.44	0.47
1:A:184:THR:HG23	1:A:192:LEU:CD1	2.44	0.47
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.96	0.47
2:C:335:THR:CG2	2:C:461:VAL:HG11	2.44	0.47
2:C:694:LEU:O	2:C:699:PHE:HB2	2.14	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	0.47
2:C:926:PHE:CD2	2:C:930:LYS:HE2	2.49	0.47
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.96	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.48	0.47
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.29	0.47
3:D:924:MET:O	3:D:927:THR:HB	2.14	0.47
3:D:1128:VAL:O	3:D:1129:THR:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:115:LYS:HE2	5:F:115:LYS:HA	1.96	0.47
5:F:200:LYS:HE2	8:F:705:HOH:O	2.14	0.47
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.48	0.47
1:L:143:ARG:HG3	8:L:3482:HOH:O	2.13	0.47
1:L:190:THR:HA	8:L:4811:HOH:O	2.14	0.47
2:M:178:PRO:HA	8:M:1432:HOH:O	2.11	0.47
2:M:367:LEU:HD23	2:M:371:LYS:NZ	2.29	0.47
2:M:575:GLN:N	2:M:667:ALA:HB1	2.29	0.47
2:M:611:ILE:HD12	2:M:611:ILE:N	2.29	0.47
2:M:728:HIS:HB3	2:M:729:LEU:HD12	1.96	0.47
2:M:735:ARG:HG2	2:M:735:ARG:HH11	1.79	0.47
2:M:808:ARG:HH21	2:M:820:ARG:HG2	1.78	0.47
2:M:810:ASP:HB3	8:M:1642:HOH:O	2.13	0.47
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.42	0.47
3:N:443:VAL:CG1	3:N:445:ARG:HE	2.26	0.47
3:N:658:LEU:O	3:N:661:MET:HB2	2.14	0.47
3:N:1197:ARG:HB3	3:N:1396:GLU:OE1	2.13	0.47
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.96	0.47
5:P:370:LYS:NZ	5:P:370:LYS:HB3	2.29	0.47
1:A:54:THR:HG22	1:A:143:ARG:HG2	1.95	0.47
1:B:11:PHE:HD1	1:B:25:LEU:HD13	1.79	0.47
1:B:159:LYS:HE2	8:B:396:HOH:O	2.12	0.47
2:C:103:LYS:HB2	8:C:1576:HOH:O	2.13	0.47
2:C:260:LEU:HA	2:C:291:ALA:CB	2.43	0.47
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.96	0.47
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.14	0.47
3:D:43:GLY:N	8:D:9050:HOH:O	2.47	0.47
3:D:585:GLY:N	8:D:9822:HOH:O	2.47	0.47
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.43	0.47
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.44	0.47
3:D:829:VAL:HG11	8:D:9103:HOH:O	2.12	0.47
3:D:1342:GLU:CD	3:D:1342:GLU:H	2.18	0.47
3:D:1432:LYS:CG	3:D:1433:SER:H	2.27	0.47
5:F:306:GLU:HG2	8:F:517:HOH:O	2.14	0.47
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.94	0.47
2:M:776:SER:HB3	8:M:1776:HOH:O	2.12	0.47
2:M:916:GLU:HG3	2:M:917:LEU:N	2.29	0.47
2:M:984:GLU:HG3	3:N:944:THR:O	2.14	0.47
3:N:169:TYR:HA	3:N:392:SER:HA	1.96	0.47
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.43	0.47
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.13	0.47
3:N:583:ASP:OD2	3:N:586:ARG:HD2	2.14	0.47
3:N:761:ILE:HG23	4:O:6:ILE:HD11	1.95	0.47
3:N:792:ILE:O	3:N:878:GLY:HA3	2.14	0.47
1:A:59:GLU:HG3	1:A:139:ASN:ND2	2.30	0.47
2:C:80:GLN:O	2:C:83:CYS:HB2	2.14	0.47
2:C:553:ASP:HA	2:C:881:ASN:HA	1.97	0.47
2:C:584:GLU:CD	2:C:584:GLU:H	2.16	0.47
2:C:959:PRO:O	2:C:963:LEU:HD23	2.14	0.47
3:D:169:TYR:N	3:D:170:PRO:CD	2.77	0.47
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.43	0.47
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.95	0.47
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.12	0.47
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.14	0.47
4:E:37:ASN:HD22	4:E:89:MET:CE	2.27	0.47
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.96	0.47
5:F:138:SER:O	5:F:141:VAL:HG12	2.14	0.47
5:F:198:ILE:HA	8:F:618:HOH:O	2.14	0.47
5:F:216:GLY:O	5:F:243:ILE:HG12	2.14	0.47
1:L:13:VAL:HG11	1:L:208:LEU:HD11	1.96	0.47
1:L:32:PHE:N	8:L:4886:HOH:O	2.47	0.47
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.47
2:M:603:VAL:H	2:M:647:GLN:H	1.63	0.47
2:M:687:ALA:C	2:M:688:ILE:HD12	2.35	0.47
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.44	0.47
1:A:157:GLY:HA3	8:A:320:HOH:O	2.14	0.47
1:B:211:LEU:O	1:B:215:VAL:HG13	2.14	0.47
2:C:157:ARG:HD3	2:C:158:TYR:N	2.29	0.47
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.44	0.47
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.47
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.15	0.47
3:D:573:MET:HE3	5:F:210:LEU:HB3	1.95	0.47
3:D:639:LEU:HD12	3:D:640:HIS:H	1.80	0.47
3:D:711:LEU:CD1	3:D:778:LEU:HD13	2.44	0.47
3:D:1207:TYR:N	8:D:9465:HOH:O	2.46	0.47
3:D:1250:ALA:HB3	8:D:9181:HOH:O	2.14	0.47
3:D:1317:ASP:N	8:D:9664:HOH:O	2.47	0.47
5:F:223:ALA:HB2	5:F:242:TRP:HB2	1.96	0.47
5:F:267:THR:O	5:F:271:LEU:HG	2.14	0.47
5:F:282:LEU:HB2	5:F:284:ARG:H	1.79	0.47
5:F:303:ARG:HG3	8:F:507:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:368:VAL:HG12	8:F:443:HOH:O	2.14	0.47
1:K:95:GLN:HG3	8:K:3203:HOH:O	2.14	0.47
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.48	0.47
2:M:172:ILE:HD12	2:M:172:ILE:N	2.30	0.47
2:M:198:ARG:NH1	2:M:231:PRO:HG3	2.30	0.47
2:M:405:ARG:HG2	2:M:409:ARG:NH2	2.11	0.47
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.49	0.47
2:M:716:LYS:HB2	8:M:1298:HOH:O	2.13	0.47
3:N:147:VAL:HG11	8:N:9806:HOH:O	2.13	0.47
3:N:827:ILE:HG23	3:N:837:GLY:CA	2.45	0.47
3:N:1475:GLY:HA2	4:O:17:TYR:CD1	2.49	0.47
3:N:1485:GLN:HE21	4:O:80:VAL:N	2.09	0.47
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.95	0.47
5:P:128:ARG:NH1	5:P:128:ARG:HB2	2.30	0.47
5:P:336:GLU:HG2	5:P:337:HIS:HD2	1.80	0.47
5:P:409:LYS:HG3	5:P:410:TYR:N	2.29	0.47
2:C:232:GLU:HG3	2:C:235:LEU:CD1	2.44	0.47
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.18	0.47
2:C:398:THR:HG22	2:C:568:ALA:O	2.13	0.47
2:C:473:ARG:HD2	2:C:475:VAL:HG23	1.95	0.47
2:C:510:ALA:HB2	8:C:1220:HOH:O	2.14	0.47
2:C:526:PRO:HB2	8:C:1311:HOH:O	2.13	0.47
2:C:567:GLN:CB	2:C:997:LEU:HD22	2.45	0.47
2:C:773:LEU:O	2:C:777:ILE:HG13	2.14	0.47
2:C:1055:LEU:HG	2:C:1079:PRO:HG3	1.97	0.47
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.50	0.47
3:D:186:VAL:HG13	3:D:187:LYS:N	2.28	0.47
3:D:420:VAL:HA	5:F:164:LYS:NZ	2.29	0.47
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.96	0.47
3:D:465:LEU:CD1	3:D:513:ILE:HD11	2.44	0.47
3:D:912:LYS:O	3:D:915:VAL:HG23	2.15	0.47
3:D:1153:VAL:O	3:D:1160:LEU:HG	2.14	0.47
3:D:1250:ALA:HB2	8:D:9571:HOH:O	2.13	0.47
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.49	0.47
5:F:411:HIS:HB2	8:F:598:HOH:O	2.13	0.47
2:M:197:LEU:CD1	2:M:207:LEU:HD11	2.44	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.45	0.47
2:M:625:LEU:O	2:M:627:ARG:N	2.47	0.47
2:M:645:VAL:HG13	8:M:1487:HOH:O	2.14	0.47
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.49	0.47
2:M:1059:ASP:O	2:M:1063:ARG:HG2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.47
3:N:132:TYR:HA	8:N:9161:HOH:O	2.14	0.47
3:N:417:PRO:HA	5:P:168:LYS:HZ2	1.77	0.47
3:N:459:GLU:HG2	8:N:9337:HOH:O	2.14	0.47
3:N:493:ARG:NH1	3:N:1390:LEU:H	2.12	0.47
3:N:561:GLY:HA2	8:N:9133:HOH:O	2.14	0.47
3:N:568:ARG:HA	3:N:571:LYS:NZ	2.29	0.47
3:N:864:VAL:HG12	3:N:865:THR:H	1.79	0.47
3:N:871:LYS:HB3	3:N:873:LEU:HD11	1.97	0.47
3:N:886:VAL:HG13	3:N:930:LEU:HD11	1.96	0.47
3:N:1138:ALA:HA	3:N:1141:GLU:HG3	1.96	0.47
3:N:1310:ARG:HB2	8:N:9400:HOH:O	2.14	0.47
4:O:84:ARG:HG3	4:O:84:ARG:O	2.15	0.47
5:P:112:ALA:HA	5:P:173:TYR:CD2	2.48	0.47
5:P:302:LYS:HA	8:P:3021:HOH:O	2.14	0.47
5:P:392:VAL:HG21	8:P:3999:HOH:O	2.14	0.47
1:A:149:GLY:O	1:A:171:PHE:HB2	2.14	0.47
1:B:68:ILE:HD12	1:B:71:VAL:HG21	1.95	0.47
2:C:139:GLN:HG2	2:C:140:ILE:H	1.79	0.47
3:D:416:ALA:H	3:D:417:PRO:CD	2.26	0.47
3:D:640:HIS:HE1	4:E:3:GLU:HG2	1.79	0.47
3:D:675:ARG:HH21	5:F:421:PHE:H	1.61	0.47
3:D:852:ALA:O	3:D:857:ILE:HG12	2.14	0.47
3:D:1071:PHE:HB3	8:D:9526:HOH:O	2.14	0.47
5:F:117:SER:OG	5:F:124:PRO:HG3	2.15	0.47
5:F:371:LEU:O	5:F:375:LEU:HB3	2.15	0.47
1:K:69:PRO:O	1:K:71:VAL:HG23	2.13	0.47
1:K:228:PRO:HG3	8:K:4456:HOH:O	2.13	0.47
2:M:32:ALA:HA	8:M:1342:HOH:O	2.15	0.47
2:M:820:ARG:HB2	8:M:1654:HOH:O	2.14	0.47
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.44	0.47
2:M:916:GLU:O	2:M:919:ALA:HB3	2.15	0.47
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.96	0.47
2:M:1030:GLN:HB3	3:N:626:SER:HB2	1.97	0.47
3:N:80:VAL:HG12	3:N:81:THR:H	1.79	0.47
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.45	0.47
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.29	0.47
3:N:607:LEU:HA	3:N:613:ARG:HB3	1.96	0.47
3:N:829:VAL:HA	8:N:9426:HOH:O	2.15	0.47
3:N:902:LEU:O	3:N:902:LEU:HD12	2.15	0.47
3:N:1054:GLU:HB2	8:N:9488:HOH:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1123:PHE:CE2	3:N:1184:GLN:HG3	2.50	0.47
3:N:1184:GLN:HG2	8:N:9892:HOH:O	2.15	0.47
3:N:1320:GLU:HG2	3:N:1339:LYS:HE3	1.96	0.47
3:N:1485:GLN:NE2	4:O:80:VAL:H	2.12	0.47
5:P:396:ARG:HA	5:P:399:GLN:HB2	1.95	0.47
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.97	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.47	0.47
2:C:193:LEU:HD23	2:C:307:LEU:CD1	2.45	0.47
2:C:301:GLU:O	2:C:305:PRO:HG2	2.15	0.47
2:C:372:LEU:HD21	8:C:1196:HOH:O	2.14	0.47
2:C:403:SER:O	2:C:407:LYS:HD2	2.14	0.47
2:C:739:GLU:HB2	8:C:1284:HOH:O	2.14	0.47
2:C:798:GLY:HA2	8:C:1158:HOH:O	2.15	0.47
2:C:878:SER:HB2	8:C:1420:HOH:O	2.14	0.47
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.50	0.47
3:D:83:SER:O	3:D:86:ARG:HB3	2.14	0.47
3:D:96:ALA:HB1	3:D:554:LEU:HD12	1.97	0.47
3:D:488:ARG:HB3	3:D:488:ARG:NH1	2.29	0.47
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.50	0.47
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.50	0.47
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.45	0.47
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.44	0.47
3:D:647:ARG:HG2	8:D:9811:HOH:O	2.14	0.47
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.79	0.47
3:D:780:LYS:HE2	8:D:9604:HOH:O	2.13	0.47
3:D:848:GLU:HB2	8:D:9179:HOH:O	2.13	0.47
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.96	0.47
3:D:1009:LYS:HE2	3:D:1013:GLU:OE1	2.14	0.47
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.45	0.47
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.80	0.47
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.28	0.47
4:E:69:LEU:HD11	8:E:181:HOH:O	2.15	0.47
5:F:273:ARG:HG2	8:F:571:HOH:O	2.15	0.47
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.96	0.47
2:M:52:PHE:O	2:M:54:ILE:N	2.48	0.47
2:M:112:GLU:HB2	8:M:1448:HOH:O	2.15	0.47
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.97	0.47
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.96	0.47
2:M:470:PRO:HB2	2:M:483:VAL:HG11	1.97	0.47
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.96	0.47
2:M:724:ARG:HE	2:M:734:LEU:HG	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.30	0.47
2:M:770:GLU:HG2	8:N:9172:HOH:O	2.15	0.47
2:M:824:ARG:HB3	2:M:826:TYR:CE1	2.50	0.47
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.96	0.47
2:M:1076:VAL:HG22	3:N:752:SER:HB3	1.96	0.47
2:M:1090:LYS:HZ1	3:N:90:MET:CG	2.27	0.47
2:M:1115:LEU:CD2	3:N:85:VAL:HG13	2.43	0.47
3:N:47:GLU:OE1	3:N:52:PRO:HA	2.15	0.47
3:N:89:ARG:O	3:N:521:PRO:HG3	2.14	0.47
3:N:153:LEU:CD1	3:N:157:GLU:HB2	2.45	0.47
3:N:442:ASN:HB3	8:N:9376:HOH:O	2.14	0.47
3:N:470:LEU:HD21	3:N:508:ARG:NH2	2.30	0.47
3:N:598:ARG:NE	8:N:9109:HOH:O	2.47	0.47
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.15	0.47
3:N:960:LYS:HB3	8:N:9231:HOH:O	2.13	0.47
3:N:1068:LEU:C	3:N:1070:TYR:N	2.67	0.47
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.29	0.47
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.15	0.47
3:N:1379:VAL:CG1	3:N:1395:LEU:HD23	2.45	0.47
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.95	0.47
5:P:155:THR:O	5:P:159:ILE:HG13	2.14	0.47
5:P:159:ILE:O	5:P:163:LEU:HG	2.14	0.47
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.95	0.47
2:C:285:LEU:HD12	2:C:288:ARG:O	2.15	0.47
2:C:946:ARG:NH2	3:D:859:ASP:HA	2.30	0.47
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.45	0.47
3:D:115:LEU:HD23	3:D:116:LEU:N	2.30	0.47
3:D:414:ARG:HG2	8:D:9627:HOH:O	2.13	0.47
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.95	0.47
3:D:528:VAL:HG12	8:D:9096:HOH:O	2.15	0.47
3:D:591:VAL:HG12	3:D:592:THR:O	2.15	0.47
3:D:645:PRO:HB3	3:D:723:GLY:O	2.14	0.47
3:D:996:TRP:HA	3:D:999:THR:CG2	2.43	0.47
3:D:1033:GLN:HE22	3:D:1036:ARG:HH11	1.63	0.47
3:D:1066:THR:HG23	3:D:1069:GLU:N	2.16	0.47
3:D:1312:LEU:N	8:D:9045:HOH:O	2.42	0.47
3:D:1354:LYS:HD3	8:D:9078:HOH:O	2.15	0.47
5:F:316:SER:HB3	5:F:318:GLU:O	2.15	0.47
1:L:50:GLY:O	1:L:146:ARG:HA	2.15	0.47
1:L:61:VAL:HA	8:L:2996:HOH:O	2.15	0.47
1:L:149:GLY:O	1:L:171:PHE:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:212:ASN:HD22	1:L:212:ASN:N	2.11	0.47
2:M:53:PRO:HD3	8:M:1173:HOH:O	2.14	0.47
2:M:206:THR:HG21	8:M:1314:HOH:O	2.15	0.47
2:M:290:LEU:HB3	2:M:302:VAL:HG12	1.97	0.47
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.78	0.47
2:M:409:ARG:HA	2:M:454:SER:CA	2.32	0.47
2:M:572:ILE:CG2	2:M:703:ILE:HD13	2.45	0.47
2:M:624:PRO:O	2:M:625:LEU:HD23	2.15	0.47
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.97	0.47
3:N:486:ARG:HH21	3:N:489:ARG:CD	2.28	0.47
3:N:536:ALA:HA	5:P:315:VAL:N	2.19	0.47
3:N:587:ARG:HD3	8:N:9432:HOH:O	2.14	0.47
3:N:1123:PHE:HB3	3:N:1133:ARG:O	2.15	0.47
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.30	0.47
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.80	0.47
5:P:110:MET:HA	5:P:113:ILE:HD12	1.97	0.47
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.15	0.47
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.45	0.47
2:C:244:PRO:CD	2:C:245:GLY:H	2.20	0.47
3:D:129:PHE:CE2	3:D:587:ARG:HD3	2.50	0.47
3:D:169:TYR:HA	3:D:392:SER:HA	1.97	0.47
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.97	0.47
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.97	0.47
3:D:476:GLU:HG2	8:D:9254:HOH:O	2.14	0.47
3:D:645:PRO:HA	3:D:721:VAL:O	2.14	0.47
3:D:843:PHE:HA	3:D:848:GLU:OE1	2.14	0.47
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.15	0.47
3:D:1341:PRO:HD2	3:D:1342:GLU:OE2	2.14	0.47
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.95	0.47
4:E:13:VAL:HG21	4:E:19:LEU:HB2	1.96	0.47
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.29	0.47
2:M:551:GLU:HA	2:M:906:PHE:CE2	2.49	0.47
2:M:671:ASN:ND2	2:M:993:PHE:CD2	2.81	0.47
2:M:1105:LYS:HB2	2:M:1107:ASN:HD22	1.80	0.47
8:M:1335:HOH:O	3:N:944:THR:HA	2.14	0.47
3:N:181:ASP:O	3:N:185:VAL:HG23	2.14	0.47
3:N:188:GLY:HA2	3:N:210:ARG:NH1	2.30	0.47
3:N:204:LEU:HG	8:N:9317:HOH:O	2.14	0.47
3:N:209:ARG:HB2	3:N:395:VAL:O	2.15	0.47
3:N:463:GLN:O	3:N:467:GLU:HG3	2.15	0.47
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:950:GLY:H	3:N:953:ASP:CB	2.27	0.47
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.27	0.47
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.27	0.47
5:P:109:GLY:O	5:P:113:ILE:HG13	2.14	0.47
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.35	0.47
5:P:421:PHE:C	5:P:423:ASP:H	2.17	0.47
1:B:20:TYR:OH	1:B:198:ARG:HD3	2.14	0.47
1:B:180:GLN:HB3	8:D:9039:HOH:O	2.15	0.47
2:C:269:LEU:HD22	8:C:1709:HOH:O	2.14	0.47
2:C:302:VAL:O	2:C:306:THR:HG23	2.15	0.47
2:C:625:LEU:O	2:C:627:ARG:N	2.48	0.47
2:C:645:VAL:HA	8:C:1221:HOH:O	2.15	0.47
2:C:690:ILE:CD1	2:C:833:LEU:HD21	2.45	0.47
2:C:722:ILE:CG2	2:C:805:ARG:HH21	2.27	0.47
3:D:80:VAL:HG12	8:D:9019:HOH:O	2.14	0.47
3:D:422:ALA:O	3:D:427:VAL:HG21	2.15	0.47
3:D:474:GLU:O	3:D:478:LEU:HG	2.15	0.47
3:D:928:ALA:O	3:D:931:LEU:HB2	2.14	0.47
3:D:1183:ILE:N	3:D:1183:ILE:HD12	2.29	0.47
3:D:1336:LEU:HA	3:D:1344:VAL:CG2	2.45	0.47
5:F:261:PRO:O	5:F:265:VAL:HG23	2.15	0.47
5:F:388:ALA:HA	8:F:635:HOH:O	2.15	0.47
1:L:54:THR:HG22	1:L:158:ILE:HG13	1.97	0.47
2:M:44:ILE:HD13	2:M:344:PHE:CE1	2.50	0.47
2:M:215:GLY:HA3	8:M:1560:HOH:O	2.15	0.47
2:M:405:ARG:HD3	2:M:543:ASN:HB2	1.97	0.47
2:M:412:ALA:HB3	2:M:451:LEU:HB3	1.97	0.47
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.97	0.47
2:M:605:LYS:HA	8:M:1487:HOH:O	2.15	0.47
2:M:926:PHE:O	2:M:930:LYS:HG3	2.15	0.47
3:N:90:MET:SD	3:N:521:PRO:HD3	2.54	0.47
3:N:397:LYS:HE2	3:N:399:ARG:HE	1.80	0.47
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.80	0.47
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.97	0.47
3:N:916:TYR:O	3:N:919:PHE:HB3	2.15	0.47
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.15	0.47
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.45	0.47
4:O:74:VAL:CG1	4:O:79:LEU:HD21	2.45	0.47
2:C:195:LEU:CD1	2:C:234:ALA:HB1	2.46	0.46
2:C:281:LEU:HB2	2:C:309:TYR:CG	2.50	0.46
2:C:285:LEU:HD23	2:C:285:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:687:ALA:C	2:C:688:ILE:HD12	2.35	0.46
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.97	0.46
2:C:941:VAL:O	2:C:944:LEU:HB2	2.14	0.46
2:C:1100:GLN:O	2:C:1102:LEU:HD12	2.15	0.46
3:D:797:LYS:N	3:D:797:LYS:HD2	2.30	0.46
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.76	0.46
3:D:1459:LEU:HD22	3:D:1465:ASN:HD22	1.79	0.46
5:F:282:LEU:N	5:F:282:LEU:HD23	2.30	0.46
5:F:363:GLU:HA	5:F:367:MET:SD	2.55	0.46
1:K:68:ILE:CD1	1:K:138:LEU:HD11	2.45	0.46
1:K:88:ARG:HD2	1:K:123:MET:HE1	1.97	0.46
1:K:115:LEU:HB3	8:K:4097:HOH:O	2.14	0.46
2:M:345:ARG:HH11	2:M:345:ARG:CB	2.27	0.46
2:M:422:ARG:HG3	8:M:1745:HOH:O	2.13	0.46
2:M:464:LEU:O	2:M:466:PHE:N	2.48	0.46
2:M:918:LEU:HD23	2:M:968:LEU:CA	2.43	0.46
3:N:44:LEU:HG	8:N:9867:HOH:O	2.16	0.46
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.97	0.46
3:N:645:PRO:HA	3:N:721:VAL:O	2.15	0.46
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.46
3:N:1275:SER:HB3	3:N:1325:LEU:CD1	2.45	0.46
1:A:50:GLY:O	1:A:146:ARG:HA	2.15	0.46
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.80	0.46
1:A:101:LEU:HG	1:A:113:ASP:O	2.15	0.46
2:C:9:ILE:HD12	2:C:9:ILE:O	2.15	0.46
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.43	0.46
2:C:534:VAL:N	2:C:538:GLN:NE2	2.63	0.46
2:C:798:GLY:C	2:C:799:ILE:HD13	2.36	0.46
3:D:495:ARG:O	3:D:495:ARG:HG2	2.16	0.46
3:D:962:GLN:OE1	3:D:962:GLN:N	2.47	0.46
5:F:282:LEU:HD23	5:F:282:LEU:H	1.79	0.46
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.30	0.46
1:K:78:ILE:O	1:K:82:LEU:HG	2.15	0.46
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.42	0.46
2:M:44:ILE:HG22	8:M:1223:HOH:O	2.14	0.46
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.97	0.46
2:M:325:ILE:HG23	8:M:1502:HOH:O	2.16	0.46
2:M:621:VAL:HG22	8:M:1199:HOH:O	2.16	0.46
2:M:817:PRO:C	2:M:819:VAL:H	2.18	0.46
2:M:1101:THR:HB	3:N:5:VAL:HG11	1.98	0.46
2:M:1118:LYS:HD3	3:N:20:SER:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:400:VAL:HA	3:N:442:ASN:O	2.15	0.46
3:N:484:PRO:O	3:N:489:ARG:HD2	2.14	0.46
3:N:551:ASN:O	3:N:555:LYS:HG3	2.15	0.46
3:N:759:ALA:HA	3:N:763:MET:HB3	1.96	0.46
3:N:1056:PRO:HD2	8:N:9483:HOH:O	2.14	0.46
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.79	0.46
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.46	0.46
5:P:365:GLU:CD	5:P:397:ILE:HA	2.35	0.46
1:A:19:GLU:O	1:A:200:TRP:HA	2.16	0.46
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.97	0.46
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.45	0.46
2:C:780:GLU:CD	2:C:781:LYS:H	2.18	0.46
2:C:863:ASP:O	2:C:865:THR:N	2.48	0.46
2:C:987:ILE:HG22	2:C:988:VAL:O	2.15	0.46
3:D:783:ARG:HH21	3:D:1029:ARG:CZ	2.28	0.46
3:D:907:GLU:OE1	3:D:908:LYS:HG2	2.14	0.46
3:D:1085:ALA:HA	8:D:9707:HOH:O	2.14	0.46
5:F:141:VAL:O	5:F:145:PRO:HD2	2.16	0.46
5:F:218:GLN:HA	5:F:221:ILE:HD12	1.96	0.46
1:K:115:LEU:HD12	1:K:115:LEU:O	2.15	0.46
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.80	0.46
2:M:428:ARG:HE	2:M:451:LEU:HD11	1.80	0.46
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.44	0.46
2:M:1111:ILE:HD11	8:M:1318:HOH:O	2.14	0.46
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.46	0.46
3:N:828:LYS:HD2	8:N:9129:HOH:O	2.15	0.46
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.59	0.46
1:A:218:LEU:HB2	8:A:322:HOH:O	2.14	0.46
1:B:19:GLU:O	1:B:200:TRP:HA	2.15	0.46
1:B:73:GLU:HB2	1:B:78:ILE:HD11	1.96	0.46
1:B:86:VAL:HG22	8:B:371:HOH:O	2.15	0.46
1:B:92:PRO:HA	1:B:146:ARG:NH2	2.31	0.46
2:C:265:ARG:HG2	2:C:267:TYR:N	2.30	0.46
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.96	0.46
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.98	0.46
2:C:835:VAL:HG11	8:D:9008:HOH:O	2.16	0.46
3:D:68:PHE:O	3:D:71:LYS:HG2	2.15	0.46
3:D:110:SER:HB3	8:D:9091:HOH:O	2.15	0.46
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.98	0.46
3:D:574:LEU:O	3:D:578:VAL:HG23	2.16	0.46
3:D:704:ARG:HA	3:D:704:ARG:HD2	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1093:TYR:HA	8:D:9017:HOH:O	2.16	0.46
3:D:1380:GLU:HB3	3:D:1418:LYS:HB2	1.98	0.46
4:E:41:GLU:O	4:E:45:ARG:HG2	2.15	0.46
5:F:256:ARG:NH2	5:F:310:ILE:O	2.48	0.46
5:F:276:ARG:HA	8:F:735:HOH:O	2.14	0.46
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.31	0.46
2:M:101:ILE:HG22	2:M:102:HIS:N	2.30	0.46
2:M:191:PHE:CE2	2:M:238:LEU:HD21	2.51	0.46
2:M:710:ILE:HB	2:M:790:LEU:CD1	2.38	0.46
2:M:801:VAL:HG23	8:M:1213:HOH:O	2.15	0.46
3:N:416:ALA:H	3:N:417:PRO:CD	2.28	0.46
3:N:957:PRO:HA	3:N:1010:ASN:ND2	2.30	0.46
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.18	0.46
3:N:1114:THR:HG23	3:N:1114:THR:O	2.15	0.46
3:N:1156:LEU:HD12	8:N:9485:HOH:O	2.16	0.46
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.46	0.46
2:C:310:LEU:O	2:C:314:THR:HG23	2.15	0.46
2:C:490:GLU:HG2	2:C:494:TYR:OH	2.15	0.46
2:C:647:GLN:HA	8:C:1176:HOH:O	2.16	0.46
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.45	0.46
3:D:84:ILE:HA	3:D:87:ARG:HG2	1.97	0.46
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.46	0.46
3:D:208:PRO:CB	3:D:395:VAL:HG13	2.43	0.46
3:D:501:ALA:HA	3:D:504:ASP:HB2	1.97	0.46
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.30	0.46
4:E:18:ARG:HD3	8:E:126:HOH:O	2.15	0.46
5:F:336:GLU:HB2	8:F:726:HOH:O	2.15	0.46
1:L:69:PRO:O	1:L:71:VAL:HG23	2.16	0.46
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.75	0.46
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.97	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.79	0.46
2:M:842:ARG:HD3	8:M:1636:HOH:O	2.16	0.46
2:M:875:GLY:O	2:M:879:ARG:HD3	2.15	0.46
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.96	0.46
3:N:28:LYS:HD3	3:N:41:ARG:NH1	2.30	0.46
3:N:404:GLU:OE1	3:N:414:ARG:HD3	2.16	0.46
3:N:560:GLN:HE21	5:P:218:GLN:HE22	1.63	0.46
3:N:891:GLU:HG2	8:N:9646:HOH:O	2.15	0.46
3:N:926:LYS:HE2	8:N:9736:HOH:O	2.16	0.46
3:N:1434:TRP:HZ3	3:N:1457:ASP:H	1.62	0.46
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:104:ARG:HG2	8:P:3629:HOH:O	2.15	0.46
5:P:215:GLU:OE1	5:P:215:GLU:HA	2.15	0.46
2:C:73:LEU:HD22	2:C:94:LEU:HD22	1.97	0.46
2:C:113:VAL:HG11	2:C:373:VAL:CB	2.46	0.46
3:D:1114:THR:HG22	3:D:1195:GLN:HB3	1.97	0.46
3:D:1272:ALA:HB2	8:D:9364:HOH:O	2.16	0.46
3:D:1382:THR:HG22	8:D:9579:HOH:O	2.16	0.46
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.46	0.46
1:K:23:PHE:O	1:K:196:THR:HA	2.15	0.46
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.97	0.46
2:M:688:ILE:CD1	2:M:847:GLY:HA3	2.45	0.46
2:M:1090:LYS:HZ1	3:N:90:MET:HG2	1.79	0.46
2:M:1091:GLU:OE2	3:N:613:ARG:HD2	2.15	0.46
3:N:508:ARG:HB3	3:N:510:GLU:OE2	2.16	0.46
3:N:516:ALA:O	3:N:518:PRO:HD3	2.16	0.46
3:N:550:ARG:HG3	3:N:550:ARG:HH11	1.79	0.46
3:N:608:SER:O	3:N:612:GLY:HA3	2.16	0.46
3:N:646:LYS:HA	3:N:720:LEU:HD23	1.97	0.46
3:N:809:PRO:O	3:N:812:ALA:HB3	2.16	0.46
3:N:820:GLU:HA	3:N:825:ALA:O	2.16	0.46
3:N:1342:GLU:HG2	8:N:9105:HOH:O	2.15	0.46
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	1.98	0.46
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.98	0.46
2:C:328:LEU:CD2	2:C:437:ARG:HD3	2.46	0.46
2:C:376:ARG:NH2	5:F:285:GLU:HB3	2.21	0.46
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.96	0.46
2:C:1054:THR:HG22	2:C:1059:ASP:CG	2.36	0.46
3:D:829:VAL:H	3:D:835:SER:HB2	1.81	0.46
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.15	0.46
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	1.98	0.46
4:E:69:LEU:HD21	8:E:181:HOH:O	2.15	0.46
5:F:375:LEU:HG	5:F:376:ILE:HG13	1.97	0.46
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.98	0.46
1:K:175:ARG:HH21	1:K:201:THR:H	1.62	0.46
1:L:26:GLU:HB2	1:L:27:PRO:HA	1.98	0.46
1:L:138:LEU:O	1:L:138:LEU:HD23	2.16	0.46
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.46
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.45	0.46
2:M:253:ALA:HB3	8:M:1251:HOH:O	2.15	0.46
2:M:1033:GLY:O	2:M:1036:GLU:HB2	2.15	0.46
2:M:1040:LEU:HD23	2:M:1049:LEU:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:81:THR:O	3:N:82:LYS:C	2.54	0.46
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.98	0.46
3:N:470:LEU:HD12	3:N:503:LEU:CG	2.43	0.46
3:N:530:VAL:HB	3:N:531:ASP:H	1.56	0.46
3:N:586:ARG:HA	8:N:2001:HOH:O	2.15	0.46
3:N:671:LYS:N	8:N:9139:HOH:O	2.48	0.46
3:N:819:GLY:O	3:N:822:ALA:HB3	2.16	0.46
3:N:1378:TYR:N	3:N:1378:TYR:CD1	2.84	0.46
5:P:292:ALA:HB1	5:P:299:TRP:O	2.16	0.46
5:P:319:THR:HB	5:P:321:ILE:HD11	1.96	0.46
1:A:181:VAL:O	2:C:937:ASP:HA	2.16	0.46
1:B:81:ASN:HB2	8:B:366:HOH:O	2.16	0.46
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.46	0.46
2:C:194:VAL:HG21	2:C:221:LEU:HA	1.98	0.46
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.97	0.46
2:C:1039:ALA:HB2	3:D:707:THR:HG21	1.98	0.46
3:D:116:LEU:HB3	3:D:118:LEU:CD2	2.46	0.46
3:D:126:VAL:O	3:D:132:TYR:CD1	2.68	0.46
3:D:684:LYS:HD3	3:D:686:GLU:CD	2.35	0.46
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.51	0.46
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.29	0.46
5:F:273:ARG:O	5:F:276:ARG:HB2	2.16	0.46
2:M:145:GLY:C	2:M:163:ILE:HG23	2.36	0.46
2:M:146:VAL:HG13	2:M:161:SER:O	2.16	0.46
2:M:157:ARG:HG2	2:M:157:ARG:HH11	1.80	0.46
3:N:159:ARG:CZ	3:N:159:ARG:HB2	2.46	0.46
3:N:521:PRO:O	3:N:525:ARG:HG2	2.14	0.46
3:N:805:GLU:HB2	8:N:9612:HOH:O	2.16	0.46
3:N:813:LEU:HA	3:N:839:LEU:HD11	1.97	0.46
3:N:850:LEU:O	3:N:853:VAL:HB	2.15	0.46
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.97	0.46
3:N:1115:THR:HB	8:N:9719:HOH:O	2.15	0.46
3:N:1137:ARG:O	3:N:1140:ILE:N	2.49	0.46
3:N:1209:LEU:HD22	3:N:1211:MET:SD	2.55	0.46
3:N:1269:LYS:HE3	8:N:9213:HOH:O	2.16	0.46
3:N:1441:GLN:NE2	3:N:1442:ASN:H	2.14	0.46
4:O:11:GLY:HA3	8:O:3878:HOH:O	2.15	0.46
5:P:274:THR:O	5:P:278:LEU:HG	2.15	0.46
2:C:47:ALA:CB	2:C:345:ARG:HB3	2.33	0.46
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.97	0.46
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:702:SER:OG	2:C:996:LYS:NZ	2.49	0.46
2:C:873:PRO:O	2:C:876:VAL:HG23	2.16	0.46
2:C:975:TYR:HA	2:C:982:PRO:HA	1.98	0.46
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.98	0.46
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.98	0.46
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.46	0.46
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.80	0.46
3:D:592:THR:HA	8:D:9540:HOH:O	2.16	0.46
3:D:863:VAL:HA	8:D:2082:HOH:O	2.16	0.46
3:D:1337:GLU:HB3	8:D:9228:HOH:O	2.16	0.46
2:M:408:ARG:CZ	2:M:542:VAL:HG23	2.46	0.46
2:M:423:ALA:HB1	8:M:1764:HOH:O	2.16	0.46
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.80	0.46
2:M:602:GLU:HG2	2:M:603:VAL:N	2.31	0.46
2:M:685:GLU:CG	3:N:739:ASP:HB2	2.46	0.46
2:M:861:LEU:HD23	2:M:862:PRO:CD	2.37	0.46
3:N:600:LEU:HD12	3:N:600:LEU:H	1.81	0.46
3:N:860:LEU:HD22	3:N:878:GLY:CA	2.46	0.46
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.43	0.46
3:N:1114:THR:HA	8:N:9054:HOH:O	2.14	0.46
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.67	0.46
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.96	0.46
5:P:302:LYS:HG3	5:P:303:ARG:N	2.31	0.46
1:A:219:ARG:HH12	1:B:223:THR:HG23	1.81	0.46
1:A:219:ARG:HH22	1:B:223:THR:HG23	1.80	0.46
1:B:74:ASP:O	1:B:78:ILE:HG13	2.16	0.46
1:B:85:LEU:CD1	1:B:124:ASN:HB3	2.42	0.46
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.15	0.46
2:C:352:ALA:O	2:C:355:VAL:HG12	2.16	0.46
2:C:473:ARG:NE	2:C:531:PHE:HE1	2.09	0.46
2:C:546:LEU:HD21	2:C:587:VAL:HG21	1.97	0.46
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.98	0.46
2:C:904:PRO:HB2	2:C:907:ASP:OD2	2.16	0.46
2:C:1103:ASP:N	2:C:1107:ASN:O	2.49	0.46
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.98	0.46
3:D:210:ARG:NE	3:D:398:ALA:HB3	2.31	0.46
3:D:400:VAL:HG23	8:D:9178:HOH:O	2.15	0.46
3:D:421:LEU:HD23	3:D:421:LEU:O	2.15	0.46
3:D:543:LEU:HD21	3:D:600:LEU:HB2	1.97	0.46
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.97	0.46
3:D:1135:ARG:NH2	8:D:9592:HOH:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1164:ARG:HA	8:D:9221:HOH:O	2.15	0.46
3:D:1327:ARG:HG2	8:D:9891:HOH:O	2.16	0.46
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.40	0.46
1:L:43:ILE:HD13	8:L:3139:HOH:O	2.16	0.46
2:M:121:MET:HE3	2:M:127:PHE:CE2	2.51	0.46
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.98	0.46
2:M:420:ARG:H	2:M:420:ARG:CD	2.29	0.46
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.97	0.46
2:M:1100:GLN:HG3	2:M:1101:THR:O	2.16	0.46
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.31	0.46
3:N:500:ARG:HD2	8:N:9705:HOH:O	2.15	0.46
3:N:529:GLN:HG2	3:N:535:PHE:CE2	2.48	0.46
3:N:844:ALA:HB3	3:N:848:GLU:OE2	2.16	0.46
3:N:976:GLN:HA	3:N:979:GLU:OE1	2.15	0.46
3:N:1341:PRO:O	3:N:1344:VAL:N	2.48	0.46
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.15	0.46
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.98	0.46
1:B:149:GLY:O	1:B:171:PHE:HB2	2.16	0.45
2:C:101:ILE:HG22	2:C:102:HIS:N	2.31	0.45
2:C:338:GLU:O	2:C:341:THR:HG22	2.16	0.45
2:C:694:LEU:HD21	2:C:868:ASP:HB3	1.98	0.45
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.98	0.45
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.46	0.45
3:D:441:ARG:O	3:D:443:VAL:N	2.49	0.45
3:D:585:GLY:HA3	8:D:9104:HOH:O	2.16	0.45
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.97	0.45
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.98	0.45
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.16	0.45
3:D:1397:LYS:HB3	8:D:9838:HOH:O	2.15	0.45
5:F:117:SER:N	5:F:127:ILE:HD12	2.31	0.45
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.16	0.45
5:F:340:SER:O	5:F:342:VAL:N	2.49	0.45
1:K:224:TYR:HB3	1:L:9:PRO:CB	2.42	0.45
2:M:114:PHE:HE1	8:P:4072:HOH:O	1.99	0.45
2:M:157:ARG:HG2	2:M:157:ARG:NH1	2.32	0.45
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.30	0.45
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.97	0.45
2:M:232:GLU:O	2:M:235:LEU:HB2	2.16	0.45
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.32	0.45
2:M:704:HIS:CD2	2:M:705:ILE:H	2.33	0.45
2:M:770:GLU:OE1	5:P:354:LEU:HD13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1050:GLN:NE2	8:M:1526:HOH:O	2.48	0.45
2:M:1059:ASP:CG	2:M:1062:GLY:HA3	2.37	0.45
3:N:130:SER:C	3:N:568:ARG:HH21	2.20	0.45
3:N:411:THR:HG23	3:N:429:SER:OG	2.16	0.45
3:N:527:MET:CE	3:N:537:THR:HB	2.45	0.45
3:N:567:ILE:H	3:N:567:ILE:HG13	1.51	0.45
3:N:729:HIS:HB3	3:N:732:VAL:HG22	1.98	0.45
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.98	0.45
5:P:89:GLY:HA2	8:P:4492:HOH:O	2.15	0.45
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.98	0.45
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.30	0.45
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.16	0.45
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.98	0.45
2:C:598:GLU:HG3	8:C:1515:HOH:O	2.15	0.45
2:C:794:PRO:HD3	8:C:1635:HOH:O	2.15	0.45
2:C:1016:ILE:CD1	3:D:526:PRO:HG2	2.46	0.45
3:D:455:ARG:HG2	3:D:455:ARG:HH11	1.81	0.45
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.51	0.45
3:D:890:VAL:HG13	3:D:926:LYS:HD3	1.98	0.45
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.57	0.45
3:D:1377:LYS:O	3:D:1395:LEU:N	2.47	0.45
3:D:1494:ALA:HB3	8:D:9315:HOH:O	2.16	0.45
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.45	0.45
5:F:302:LYS:HG3	5:F:303:ARG:N	2.31	0.45
5:F:373:LYS:HD3	5:F:378:GLY:C	2.36	0.45
1:L:188:GLN:HA	8:N:9218:HOH:O	2.17	0.45
2:M:56:GLU:HG2	2:M:64:LEU:HD23	1.97	0.45
2:M:435:TYR:HA	3:N:1071:PHE:HE2	1.81	0.45
2:M:778:PHE:HA	8:M:1278:HOH:O	2.16	0.45
2:M:998:TYR:OH	2:M:1000:MET:HA	2.16	0.45
2:M:1078:GLU:HA	2:M:1078:GLU:OE1	2.17	0.45
3:N:814:ALA:HA	8:N:9843:HOH:O	2.15	0.45
3:N:1151:ARG:HA	3:N:1162:GLU:HG3	1.99	0.45
1:A:20:TYR:HB3	8:A:358:HOH:O	2.16	0.45
1:A:26:GLU:HG2	1:A:27:PRO:CA	2.46	0.45
1:B:50:GLY:O	1:B:146:ARG:HA	2.16	0.45
2:C:144:PRO:O	2:C:276:LYS:HD3	2.16	0.45
2:C:148:PHE:HD2	2:C:160:ALA:HA	1.80	0.45
2:C:207:LEU:O	2:C:211:LEU:HB3	2.16	0.45
2:C:218:VAL:HB	8:C:1237:HOH:O	2.17	0.45
2:C:254:VAL:HA	2:C:257:VAL:HG23	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:289:THR:HG22	2:C:290:LEU:H	1.81	0.45
2:C:456:ALA:HB1	2:C:538:GLN:O	2.16	0.45
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.51	0.45
2:C:479:VAL:HG23	2:C:506:ASN:C	2.37	0.45
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.17	0.45
2:C:683:ASN:OD1	2:C:683:ASN:N	2.49	0.45
2:C:837:ASP:O	2:C:849:VAL:HG23	2.16	0.45
2:C:881:ASN:N	2:C:881:ASN:ND2	2.64	0.45
2:C:897:LEU:CD1	2:C:921:ALA:HA	2.46	0.45
2:C:1015:LEU:HD12	8:C:1202:HOH:O	2.17	0.45
2:C:1105:LYS:O	2:C:1107:ASN:N	2.49	0.45
3:D:170:PRO:HG3	8:D:9430:HOH:O	2.16	0.45
3:D:400:VAL:HA	3:D:442:ASN:O	2.17	0.45
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.46	0.45
3:D:770:LEU:HB2	3:D:1210:SER:O	2.17	0.45
3:D:1331:ASP:OD1	3:D:1334:GLN:HG3	2.16	0.45
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.15	0.45
5:F:253:ASP:O	5:F:259:ARG:HD2	2.17	0.45
1:K:2:LEU:O	1:K:6:LEU:HB3	2.16	0.45
1:L:62:LEU:HD22	1:L:63:HIS:CE1	2.52	0.45
2:M:17:PRO:O	2:M:20:GLU:HB3	2.16	0.45
2:M:69:LEU:HD21	2:M:99:GLN:NE2	2.31	0.45
2:M:254:VAL:HA	2:M:257:VAL:HG23	1.98	0.45
2:M:737:LEU:HD21	2:M:741:GLY:O	2.16	0.45
2:M:838:LYS:HG2	8:M:1507:HOH:O	2.16	0.45
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.15	0.45
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.97	0.45
3:N:396:VAL:HG13	3:N:446:VAL:O	2.16	0.45
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.98	0.45
3:N:480:GLU:OE2	3:N:484:PRO:HG2	2.17	0.45
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.96	0.45
3:N:820:GLU:HG2	3:N:825:ALA:O	2.17	0.45
3:N:875:THR:HG23	3:N:879:ARG:NE	2.32	0.45
3:N:950:GLY:O	3:N:951:ILE:C	2.54	0.45
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.56	0.45
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.20	0.45
5:P:148:LYS:HB2	8:P:4930:HOH:O	2.16	0.45
5:P:308:LEU:O	5:P:312:GLN:HG3	2.15	0.45
5:P:336:GLU:HA	8:P:2842:HOH:O	2.16	0.45
1:A:26:GLU:HG3	1:A:184:THR:HG21	1.99	0.45
1:A:33:GLY:HA2	1:A:195:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:ARG:HA	8:B:324:HOH:O	2.14	0.45
1:B:64:GLU:HG3	1:B:79:ILE:HD13	1.97	0.45
1:B:143:ARG:HB2	8:B:337:HOH:O	2.16	0.45
2:C:16:PRO:O	2:C:18:LEU:HD12	2.16	0.45
2:C:19:THR:O	2:C:19:THR:HG22	2.16	0.45
2:C:399:ASN:ND2	2:C:402:SER:HB2	2.31	0.45
2:C:535:SER:H	2:C:538:GLN:HE21	1.64	0.45
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.99	0.45
2:C:668:LEU:HD12	2:C:668:LEU:N	2.32	0.45
2:C:826:TYR:HB3	8:C:1718:HOH:O	2.15	0.45
2:C:911:GLU:O	2:C:915:LYS:HG2	2.17	0.45
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.51	0.45
3:D:473:LEU:HD21	3:D:495:ARG:NE	2.30	0.45
3:D:581:LEU:CD1	3:D:603:LEU:HD12	2.46	0.45
3:D:704:ARG:NH1	3:D:737:ASN:O	2.50	0.45
3:D:792:ILE:O	3:D:878:GLY:HA3	2.16	0.45
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.99	0.45
3:D:900:ILE:CD1	3:D:902:LEU:HG	2.47	0.45
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.17	0.45
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.46	0.45
3:D:1264:GLU:CD	3:D:1425:THR:H	2.20	0.45
3:D:1339:LYS:HE3	8:D:2030:HOH:O	2.14	0.45
3:D:1440:PHE:HD1	3:D:1441:GLN:H	1.64	0.45
4:E:61:GLU:OE2	4:E:62:THR:N	2.50	0.45
5:F:358:LEU:HD12	5:F:367:MET:HE1	1.98	0.45
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.40	0.45
1:L:110:LYS:HE3	8:L:3562:HOH:O	2.15	0.45
2:M:217:LEU:HD12	2:M:311:PHE:HD2	1.81	0.45
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.47	0.45
2:M:874:LEU:HD12	3:N:783:ARG:HB2	1.97	0.45
3:N:119:SER:CB	3:N:123:LEU:HB2	2.39	0.45
3:N:950:GLY:C	3:N:953:ASP:H	2.20	0.45
3:N:992:ILE:O	3:N:995:LEU:HB3	2.15	0.45
3:N:1075:HIS:HB3	8:N:9012:HOH:O	2.16	0.45
3:N:1171:VAL:O	3:N:1171:VAL:HG12	2.17	0.45
4:O:78:ASN:HB2	8:O:4376:HOH:O	2.16	0.45
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.81	0.45
1:A:18:ARG:NH1	1:A:88:ARG:HE	2.14	0.45
1:B:194:LYS:HZ2	1:B:194:LYS:HB2	1.82	0.45
2:C:94:LEU:HD12	2:C:95:TYR:N	2.32	0.45
2:C:352:ALA:C	2:C:355:VAL:HG12	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:460:ARG:HG2	8:C:1486:HOH:O	2.16	0.45
2:C:657:ASP:HB3	8:C:1152:HOH:O	2.17	0.45
2:C:670:GLN:HE22	2:C:699:PHE:C	2.20	0.45
2:C:957:LYS:HE2	2:C:965:GLU:OE2	2.16	0.45
3:D:6:ARG:CB	3:D:6:ARG:HH11	2.30	0.45
3:D:41:ARG:CD	3:D:42:ASP:H	2.23	0.45
3:D:145:VAL:HG21	8:D:9724:HOH:O	2.16	0.45
3:D:178:LEU:CG	3:D:200:ASP:H	2.26	0.45
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.52	0.45
3:D:583:ASP:HA	3:D:602:SER:OG	2.16	0.45
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.80	0.45
3:D:717:GLN:HE21	3:D:717:GLN:HB2	1.51	0.45
3:D:850:LEU:HB2	8:D:9338:HOH:O	2.16	0.45
3:D:890:VAL:HG21	3:D:922:LEU:CD1	2.47	0.45
3:D:972:LEU:O	3:D:976:GLN:HG3	2.17	0.45
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.97	0.45
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.99	0.45
3:D:1337:GLU:HG3	8:D:2052:HOH:O	2.16	0.45
3:D:1455:LYS:HD3	3:D:1455:LYS:C	2.36	0.45
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.31	0.45
5:F:197:SER:HA	8:F:484:HOH:O	2.14	0.45
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.52	0.45
1:L:123:MET:HG2	8:L:3100:HOH:O	2.15	0.45
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.99	0.45
2:M:157:ARG:CD	2:M:158:TYR:H	2.28	0.45
2:M:244:PRO:HD2	2:M:245:GLY:N	2.25	0.45
2:M:669:GLY:HA3	2:M:995:MET:HA	1.98	0.45
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.47	0.45
3:N:123:LEU:HA	8:N:9192:HOH:O	2.16	0.45
3:N:569:ASN:HA	3:N:572:ARG:HD2	1.98	0.45
3:N:800:LYS:HD3	3:N:804:LEU:HD22	1.98	0.45
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.37	0.45
3:N:1465:ASN:HD22	3:N:1465:ASN:HA	1.53	0.45
8:A:413:HOH:O	2:C:642:ARG:HA	2.17	0.45
1:B:156:HIS:CE1	1:B:158:ILE:H	2.35	0.45
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.42	0.45
2:C:549:PHE:HE2	2:C:887:GLU:N	2.15	0.45
2:C:622:GLU:OE1	2:C:624:PRO:HG3	2.17	0.45
2:C:817:PRO:C	2:C:819:VAL:H	2.20	0.45
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.98	0.45
2:C:948:GLU:HG3	2:C:949:LYS:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:36:THR:O	3:D:38:LYS:N	2.50	0.45
3:D:86:ARG:HG2	3:D:86:ARG:NH1	2.31	0.45
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.45	0.45
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.46	0.45
3:D:859:ASP:OD2	3:D:859:ASP:N	2.48	0.45
3:D:1233:GLY:O	3:D:1256:LEU:HD13	2.16	0.45
3:D:1291:SER:HB3	8:D:9240:HOH:O	2.15	0.45
1:K:57:TYR:CZ	1:K:161:ARG:HD2	2.52	0.45
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.52	0.45
1:K:183:ASP:HB2	8:K:4658:HOH:O	2.16	0.45
1:L:81:ASN:ND2	1:L:127:LEU:HD11	2.30	0.45
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.46	0.45
2:M:571:LEU:HD12	2:M:701:THR:N	2.32	0.45
2:M:863:ASP:OD1	2:M:865:THR:HG22	2.16	0.45
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.47	0.45
3:N:728:LEU:HD22	3:N:745:MET:CE	2.47	0.45
3:N:1128:VAL:O	3:N:1129:THR:C	2.55	0.45
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.46	0.45
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.97	0.45
5:P:272:SER:O	5:P:276:ARG:HG2	2.16	0.45
1:A:103:ALA:HB1	1:A:107:LYS:NZ	2.32	0.45
1:B:24:VAL:HG13	1:B:196:THR:CG2	2.37	0.45
2:C:794:PRO:HD2	8:C:1228:HOH:O	2.16	0.45
3:D:27:GLU:HG3	3:D:28:LYS:HD2	1.98	0.45
3:D:396:VAL:HG22	8:D:9882:HOH:O	2.17	0.45
3:D:503:LEU:HG	3:D:508:ARG:NH2	2.32	0.45
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.98	0.45
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.47	0.45
3:D:1504:GLU:HB3	8:D:9773:HOH:O	2.15	0.45
4:E:41:GLU:HG3	8:E:170:HOH:O	2.15	0.45
5:F:217:ASN:O	5:F:221:ILE:HG13	2.17	0.45
2:M:73:LEU:HD12	2:M:73:LEU:O	2.17	0.45
2:M:86:LYS:HG2	2:M:813:VAL:HG12	1.99	0.45
2:M:144:PRO:HB3	8:M:1235:HOH:O	2.16	0.45
2:M:290:LEU:HD12	8:M:1503:HOH:O	2.17	0.45
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.99	0.45
3:N:13:ALA:HA	3:N:17:LYS:NZ	2.32	0.45
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.98	0.45
3:N:491:LYS:HG3	8:N:9735:HOH:O	2.17	0.45
3:N:866:VAL:HG12	3:N:867:ARG:N	2.32	0.45
3:N:892:ASP:HB3	3:N:895:VAL:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1127:GLU:HB2	8:N:9303:HOH:O	2.17	0.45
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.17	0.45
3:N:1175:ILE:HG22	3:N:1179:GLU:OE1	2.16	0.45
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.46	0.45
5:P:153:PRO:O	5:P:157:GLU:HG2	2.16	0.45
1:A:20:TYR:CE2	1:A:22:GLU:HG3	2.51	0.45
1:A:184:THR:HB	1:A:194:LYS:HD2	1.98	0.45
1:A:227:ASN:ND2	1:A:227:ASN:H	2.14	0.45
1:B:20:TYR:HB3	8:B:319:HOH:O	2.15	0.45
2:C:39:ARG:HA	2:C:39:ARG:NE	2.30	0.45
2:C:265:ARG:HD2	8:C:1452:HOH:O	2.17	0.45
2:C:304:LEU:HG	2:C:305:PRO:N	2.31	0.45
2:C:874:LEU:HB3	3:D:1029:ARG:HD2	1.98	0.45
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.70	0.45
2:C:1056:LYS:HE2	3:D:625:TYR:HB2	1.98	0.45
3:D:164:GLY:HA2	8:D:9127:HOH:O	2.16	0.45
3:D:462:GLN:NE2	3:D:513:ILE:HB	2.32	0.45
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.99	0.45
3:D:985:ASP:O	3:D:988:ARG:HD2	2.16	0.45
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	2.31	0.45
3:D:1342:GLU:O	3:D:1346:ARG:HB2	2.17	0.45
1:K:40:LEU:O	1:K:44:LEU:HD12	2.17	0.45
1:K:74:ASP:O	1:K:78:ILE:HG13	2.17	0.45
1:L:128:HIS:CE1	1:L:131:THR:HG23	2.52	0.45
1:L:194:LYS:HG2	8:L:4937:HOH:O	2.17	0.45
2:M:503:LEU:HD12	2:M:505:GLY:O	2.17	0.45
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.16	0.45
2:M:922:PHE:HD2	2:M:964:LYS:HD3	1.82	0.45
3:N:119:SER:CB	3:N:123:LEU:HD13	2.46	0.45
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.98	0.45
3:N:703:ASN:ND2	3:N:704:ARG:H	2.15	0.45
3:N:1136:LYS:HE3	3:N:1139:ASP:OD2	2.16	0.45
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.81	0.45
3:N:1238:MET:HG2	3:N:1256:LEU:HD23	1.98	0.45
4:O:9:LEU:CD2	4:O:69:LEU:HG	2.47	0.45
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.47	0.45
1:A:102:LYS:HE2	1:A:139:ASN:CG	2.37	0.45
1:B:28:LEU:HB2	1:B:193:ASP:HB2	1.99	0.45
2:C:5:ARG:HG2	2:C:5:ARG:HH11	1.82	0.45
2:C:98:LEU:HD11	8:C:1822:HOH:O	2.17	0.45
2:C:112:GLU:HA	8:C:1822:HOH:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.16	0.45
2:C:217:LEU:HD23	8:C:1241:HOH:O	2.17	0.45
2:C:333:ILE:O	2:C:465:GLY:HA3	2.17	0.45
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.47	0.45
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.42	0.45
2:C:1006:HIS:N	2:C:1006:HIS:HD1	2.14	0.45
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.17	0.45
3:D:22:SER:OG	3:D:91:GLY:HA2	2.17	0.45
3:D:198:ARG:HG3	8:D:9736:HOH:O	2.16	0.45
3:D:639:LEU:N	3:D:729:HIS:CD2	2.84	0.45
3:D:704:ARG:HB2	3:D:736:PHE:CD2	2.52	0.45
3:D:848:GLU:HA	3:D:851:LEU:CD1	2.46	0.45
3:D:1086:LEU:HD22	8:D:9242:HOH:O	2.16	0.45
5:F:364:ARG:O	5:F:368:VAL:HG23	2.17	0.45
1:K:161:ARG:NH1	1:K:161:ARG:HB2	2.32	0.45
2:M:164:PRO:HA	8:M:1235:HOH:O	2.17	0.45
2:M:210:GLU:HG3	8:M:1787:HOH:O	2.17	0.45
2:M:620:LEU:HD13	2:M:620:LEU:N	2.32	0.45
3:N:9:ARG:HA	3:N:1455:LYS:O	2.16	0.45
3:N:52:PRO:HD2	3:N:79:GLU:O	2.16	0.45
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.99	0.45
3:N:456:MET:HG2	3:N:456:MET:O	2.16	0.45
3:N:640:HIS:NE2	3:N:717:GLN:OE1	2.48	0.45
3:N:645:PRO:HB3	3:N:723:GLY:O	2.17	0.45
3:N:704:ARG:CZ	3:N:737:ASN:O	2.65	0.45
3:N:872:ARG:NH2	8:N:9086:HOH:O	2.50	0.45
3:N:1320:GLU:HG3	8:N:9381:HOH:O	2.16	0.45
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.81	0.45
1:B:23:PHE:O	1:B:196:THR:HA	2.17	0.45
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.99	0.45
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.32	0.45
2:C:535:SER:O	2:C:538:GLN:HG2	2.16	0.45
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.99	0.45
2:C:718:GLY:HA3	2:C:761:PHE:CZ	2.52	0.45
2:C:729:LEU:HD21	5:F:421:PHE:HD1	1.82	0.45
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.99	0.45
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.99	0.45
2:C:952:LEU:HB3	2:C:966:LEU:CD1	2.47	0.45
2:C:1083:GLU:OE1	2:C:1083:GLU:HA	2.17	0.45
3:D:90:MET:HE3	3:D:519:VAL:O	2.17	0.45
3:D:495:ARG:O	3:D:499:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:768:ASN:N	3:D:768:ASN:HD22	2.13	0.45
3:D:1495:ILE:HG12	4:E:80:VAL:CG1	2.46	0.45
8:D:9004:HOH:O	5:F:132:ARG:NH1	2.49	0.45
5:F:209:PHE:HE2	5:F:213:ILE:HD11	1.81	0.45
1:L:22:GLU:OE2	1:L:198:ARG:HG2	2.17	0.45
2:M:15:LEU:CD2	2:M:583:LEU:HD21	2.47	0.45
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.32	0.45
2:M:366:SER:HB2	8:M:1234:HOH:O	2.17	0.45
2:M:437:ARG:HG2	2:M:467:ILE:HG22	1.98	0.45
2:M:498:GLN:O	2:M:532:MET:SD	2.75	0.45
2:M:679:PHE:HD2	2:M:682:TYR:HD2	1.65	0.45
3:N:130:SER:HB3	3:N:132:TYR:HE1	1.80	0.45
3:N:402:PRO:HG2	3:N:444:VAL:CG1	2.47	0.45
3:N:634:GLY:O	3:N:637:LEU:HB3	2.17	0.45
3:N:778:LEU:HD12	3:N:778:LEU:HA	1.78	0.45
3:N:806:PHE:O	3:N:806:PHE:CG	2.70	0.45
3:N:1087:ARG:NH1	3:N:1234:THR:O	2.50	0.45
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.47	0.45
3:N:1455:LYS:HE3	8:N:9604:HOH:O	2.17	0.45
4:O:7:ASP:HB2	8:O:3467:HOH:O	2.16	0.45
4:O:85:LEU:HD23	4:O:86:GLN:N	2.32	0.45
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.98	0.45
5:P:132:ARG:HD3	5:P:181:GLU:CD	2.37	0.45
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.98	0.45
1:B:106:PRO:HB2	8:B:403:HOH:O	2.17	0.44
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.98	0.44
2:C:405:ARG:HD2	2:C:442:GLU:OE1	2.17	0.44
2:C:499:ALA:HB1	8:C:1368:HOH:O	2.18	0.44
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.41	0.44
2:C:693:GLU:OE2	2:C:855:VAL:HG21	2.16	0.44
2:C:737:LEU:HD12	2:C:754:ILE:HB	1.98	0.44
2:C:884:GLN:HG3	2:C:885:ILE:HD13	1.98	0.44
3:D:10:ILE:HD13	3:D:1447:LEU:HG	1.99	0.44
3:D:630:VAL:O	3:D:726:ILE:HG13	2.16	0.44
3:D:756:GLN:NE2	3:D:760:ARG:HD2	2.32	0.44
3:D:795:VAL:CG1	3:D:863:VAL:HG13	2.44	0.44
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.99	0.44
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.82	0.44
3:D:1320:GLU:CB	3:D:1323:GLN:HE21	2.30	0.44
1:K:19:GLU:O	1:K:200:TRP:HA	2.16	0.44
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:34:VAL:CB	2:M:38:LYS:HG3	2.47	0.44
2:M:134:ARG:HD3	2:M:393:GLN:O	2.17	0.44
2:M:139:GLN:HB3	2:M:334:ARG:HD3	1.99	0.44
2:M:332:ARG:HG3	2:M:333:ILE:N	2.33	0.44
2:M:333:ILE:HD12	2:M:333:ILE:N	2.32	0.44
2:M:429:ASP:HB3	8:M:1324:HOH:O	2.17	0.44
2:M:559:LEU:HD23	2:M:560:MET:N	2.33	0.44
2:M:1013:TYR:CD1	2:M:1020:PRO:HA	2.52	0.44
2:M:1037:VAL:HG12	2:M:1041:GLU:OE1	2.17	0.44
2:M:1040:LEU:HD23	2:M:1049:LEU:CA	2.47	0.44
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.52	0.44
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.16	0.44
3:N:400:VAL:C	3:N:402:PRO:HD3	2.38	0.44
3:N:799:LYS:N	3:N:826:PRO:HG2	2.31	0.44
3:N:1197:ARG:HD2	3:N:1198:TYR:CD1	2.52	0.44
3:N:1249:ALA:HB2	8:N:9831:HOH:O	2.16	0.44
3:N:1280:VAL:HG12	3:N:1281:VAL:N	2.32	0.44
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.16	0.44
5:P:141:VAL:O	5:P:145:PRO:HD2	2.15	0.44
5:P:144:ILE:HG23	8:P:4865:HOH:O	2.17	0.44
5:P:217:ASN:O	5:P:221:ILE:HG13	2.18	0.44
1:B:173:PRO:HA	1:B:202:ASP:OD2	2.17	0.44
2:C:71:TYR:HD2	8:C:1554:HOH:O	1.99	0.44
2:C:162:ILE:HB	2:C:172:ILE:CD1	2.47	0.44
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.99	0.44
2:C:515:ALA:C	2:C:516:ARG:HG2	2.38	0.44
3:D:112:ILE:O	3:D:112:ILE:HD12	2.18	0.44
3:D:574:LEU:O	3:D:577:ALA:HB3	2.16	0.44
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.18	0.44
3:D:806:PHE:O	3:D:807:ALA:C	2.55	0.44
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.47	0.44
3:D:1211:MET:CG	3:D:1213:ARG:HG2	2.47	0.44
3:D:1211:MET:HG2	3:D:1213:ARG:HG2	1.99	0.44
5:F:302:LYS:O	5:F:306:GLU:HB2	2.17	0.44
2:M:139:GLN:CG	2:M:140:ILE:N	2.80	0.44
2:M:329:GLY:N	2:M:488:ALA:HB3	2.33	0.44
2:M:873:PRO:HB3	3:N:949:ILE:HG12	1.98	0.44
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.53	0.44
3:N:423:ASP:HB3	5:P:175:HIS:HA	1.99	0.44
3:N:500:ARG:HH12	3:N:1388:ARG:NH1	1.95	0.44
3:N:891:GLU:OE1	3:N:891:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:951:ILE:HG23	3:N:1062:ARG:NH2	2.32	0.44
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.32	0.44
5:P:369:LEU:O	5:P:373:LYS:HB2	2.17	0.44
2:C:79:PRO:HG2	2:C:82:GLU:HB2	2.00	0.44
2:C:305:PRO:HG2	8:C:1135:HOH:O	2.16	0.44
2:C:338:GLU:CA	2:C:341:THR:HG22	2.46	0.44
2:C:436:GLY:O	2:C:459:ALA:HB2	2.18	0.44
2:C:630:ARG:NH2	2:C:706:GLU:C	2.71	0.44
2:C:841:ASN:ND2	2:C:844:GLY:H	2.15	0.44
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.21	0.44
2:C:1067:TYR:HE2	5:F:345:ALA:HB2	1.82	0.44
3:D:62:LYS:HB2	3:D:73:CYS:SG	2.57	0.44
3:D:209:ARG:HB2	3:D:395:VAL:O	2.17	0.44
3:D:658:LEU:O	3:D:661:MET:HB2	2.17	0.44
3:D:978:TYR:HE1	3:D:985:ASP:HA	1.82	0.44
3:D:1328:GLY:HA2	8:D:9891:HOH:O	2.16	0.44
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.17	0.44
5:F:93:LEU:HD11	5:F:187:LEU:HG	2.00	0.44
5:F:335:ASP:CG	5:F:338:LEU:HB2	2.37	0.44
1:L:55:SER:OG	1:L:158:ILE:HB	2.18	0.44
2:M:469:THR:HG23	2:M:470:PRO:HD2	1.99	0.44
2:M:561:GLY:HA3	2:M:842:ARG:O	2.18	0.44
2:M:713:ARG:HH11	2:M:713:ARG:HG3	1.82	0.44
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.98	0.44
3:N:465:LEU:HD22	3:N:509:PRO:O	2.17	0.44
3:N:893:GLU:O	3:N:896:ALA:HB3	2.17	0.44
3:N:899:LEU:CD1	3:N:900:ILE:HG23	2.45	0.44
3:N:1031:ASN:OD1	3:N:1033:GLN:N	2.50	0.44
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.25	0.44
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.18	0.44
4:O:16:LYS:HD3	4:O:17:TYR:CE2	2.46	0.44
5:P:256:ARG:HD2	8:P:3047:HOH:O	2.17	0.44
5:P:317:LEU:O	5:P:329:TYR:HB3	2.16	0.44
1:A:112:ARG:HD3	8:A:442:HOH:O	2.16	0.44
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.98	0.44
2:C:884:GLN:CG	2:C:885:ILE:N	2.80	0.44
2:C:1002:GLU:HB2	3:D:628:ARG:HH12	1.82	0.44
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.29	0.44
3:D:477:LEU:HD23	8:D:9254:HOH:O	2.16	0.44
3:D:581:LEU:HD12	3:D:603:LEU:HD12	2.00	0.44
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.83	0.44
3:D:1350:GLU:HG3	3:D:1354:LYS:CE	2.43	0.44
2:M:534:VAL:N	2:M:538:GLN:NE2	2.63	0.44
2:M:674:VAL:O	2:M:989:VAL:HA	2.17	0.44
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.47	0.44
2:M:832:LYS:O	2:M:833:LEU:C	2.55	0.44
2:M:975:TYR:HE2	8:M:1126:HOH:O	2.01	0.44
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.31	0.44
3:N:472:ALA:HB3	8:N:9566:HOH:O	2.17	0.44
3:N:486:ARG:CZ	8:N:9895:HOH:O	2.65	0.44
3:N:584:ASN:H	3:N:602:SER:CB	2.30	0.44
3:N:650:LEU:HD12	3:N:691:LEU:HD22	2.00	0.44
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.98	0.44
5:P:123:ASP:HB2	5:P:126:LEU:HD22	1.98	0.44
5:P:276:ARG:HB2	8:P:3917:HOH:O	2.16	0.44
1:A:184:THR:O	1:A:192:LEU:HD12	2.17	0.44
1:B:14:ARG:HH21	1:B:24:VAL:HG21	1.82	0.44
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.99	0.44
2:C:129:ILE:HG13	2:C:386:PHE:HB3	1.99	0.44
2:C:212:GLY:C	2:C:215:GLY:H	2.21	0.44
2:C:447:ALA:O	2:C:449:ILE:HG22	2.18	0.44
2:C:917:LEU:HA	2:C:917:LEU:HD23	1.89	0.44
2:C:1033:GLY:O	2:C:1036:GLU:HB2	2.18	0.44
2:C:1035:MET:HG2	3:D:707:THR:O	2.17	0.44
3:D:548:ILE:HG12	3:D:548:ILE:H	1.47	0.44
3:D:554:LEU:O	3:D:558:LEU:HG	2.16	0.44
3:D:583:ASP:OD2	3:D:586:ARG:HD2	2.18	0.44
3:D:661:MET:HE3	3:D:673:ALA:HB1	2.00	0.44
3:D:879:ARG:HG3	3:D:879:ARG:NH1	2.33	0.44
3:D:925:GLU:HG2	4:E:7:ASP:OD1	2.18	0.44
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.82	0.44
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.32	0.44
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.32	0.44
4:E:40:LEU:HD13	8:E:180:HOH:O	2.18	0.44
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.18	0.44
1:K:156:HIS:HD2	1:K:157:GLY:N	2.15	0.44
2:M:239:PHE:HD1	8:M:1629:HOH:O	2.00	0.44
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.46	0.44
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.17	0.44
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.53	0.44
3:N:206:ARG:HG2	3:N:206:ARG:HH11	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.48	0.44
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.18	0.44
3:N:1441:GLN:CD	3:N:1442:ASN:HB2	2.38	0.44
5:P:128:ARG:HB2	5:P:128:ARG:CZ	2.48	0.44
5:P:287:THR:O	5:P:289:GLU:N	2.50	0.44
5:P:395:GLU:O	5:P:399:GLN:HB2	2.18	0.44
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.99	0.44
1:A:27:PRO:HG3	1:A:186:LEU:HD13	2.00	0.44
1:A:107:LYS:HG3	8:A:494:HOH:O	2.17	0.44
1:B:54:THR:HG22	1:B:158:ILE:HG13	1.99	0.44
1:B:73:GLU:HB2	1:B:78:ILE:CG1	2.48	0.44
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.48	0.44
2:C:383:ARG:HB2	2:C:383:ARG:CZ	2.46	0.44
2:C:470:PRO:HB2	2:C:483:VAL:HG11	1.99	0.44
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.99	0.44
2:C:690:ILE:HD12	2:C:849:VAL:CG1	2.47	0.44
2:C:789:SER:O	2:C:791:ARG:HG2	2.17	0.44
3:D:1447:LEU:O	3:D:1448:THR:C	2.56	0.44
4:E:49:GLN:HA	4:E:51:LEU:O	2.18	0.44
5:F:81:VAL:O	5:F:85:LEU:HG	2.17	0.44
5:F:136:LEU:HD12	5:F:137:GLY:N	2.32	0.44
1:K:58:ILE:HD13	1:K:140:MET:CB	2.47	0.44
1:L:107:LYS:HB2	8:L:4739:HOH:O	2.16	0.44
2:M:428:ARG:O	3:N:1078:ARG:NH1	2.50	0.44
2:M:1061:GLU:HB3	8:M:1529:HOH:O	2.17	0.44
3:N:631:ILE:HG12	3:N:743:ASP:O	2.18	0.44
3:N:759:ALA:O	3:N:763:MET:HB3	2.17	0.44
3:N:955:VAL:HA	8:N:9249:HOH:O	2.17	0.44
3:N:968:ASP:O	3:N:971:LEU:HB3	2.17	0.44
3:N:1416:ALA:HA	8:N:9145:HOH:O	2.16	0.44
1:A:49:PRO:O	1:A:173:PRO:HG3	2.18	0.44
1:A:156:HIS:CD2	1:A:157:GLY:N	2.86	0.44
1:A:191:ASP:O	1:A:191:ASP:CG	2.55	0.44
2:C:41:ASN:HB2	8:C:1831:HOH:O	2.17	0.44
2:C:141:HIS:NE2	2:C:332:ARG:NH1	2.65	0.44
2:C:281:LEU:HD11	2:C:306:THR:CA	2.34	0.44
2:C:953:VAL:HG22	2:C:966:LEU:HD13	2.00	0.44
3:D:9:ARG:HH21	3:D:11:ALA:CB	2.31	0.44
3:D:57:GLU:HG2	3:D:58:CYS:N	2.33	0.44
3:D:90:MET:CE	3:D:518:PRO:HB3	2.47	0.44
3:D:369:ALA:HB3	8:D:9717:HOH:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:400:VAL:CG1	3:D:441:ARG:HD3	2.48	0.44
3:D:999:THR:O	3:D:1002:LYS:HB2	2.17	0.44
3:D:1236:LEU:HA	3:D:1359:GLN:CD	2.38	0.44
3:D:1371:VAL:HG12	3:D:1375:MET:HE3	1.99	0.44
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.53	0.44
2:M:95:TYR:N	2:M:95:TYR:CD1	2.86	0.44
2:M:129:ILE:N	2:M:129:ILE:HD12	2.31	0.44
2:M:164:PRO:HD2	2:M:170:PRO:O	2.18	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HG3	2.44	0.44
2:M:445:GLU:HA	2:M:445:GLU:OE2	2.17	0.44
3:N:18:ILE:HG21	3:N:516:ALA:HB1	1.99	0.44
3:N:82:LYS:HE3	3:N:82:LYS:HB2	1.85	0.44
3:N:464:LEU:HD11	8:N:9491:HOH:O	2.18	0.44
3:N:563:PRO:HA	5:P:185:GLN:OE1	2.18	0.44
3:N:566:ILE:HG23	5:P:214:GLN:HE22	1.82	0.44
3:N:884:ARG:NH1	8:N:9403:HOH:O	2.49	0.44
3:N:950:GLY:C	3:N:952:ASP:N	2.64	0.44
3:N:1470:ARG:HG2	3:N:1471:LEU:N	2.32	0.44
4:O:45:ARG:HB2	4:O:46:PRO:HD2	1.99	0.44
5:P:290:GLU:H	5:P:290:GLU:CD	2.20	0.44
1:A:73:GLU:OE2	1:A:73:GLU:N	2.51	0.44
1:B:1:MET:O	1:B:6:LEU:HD13	2.18	0.44
2:C:27:ARG:HG2	2:C:27:ARG:HH11	1.82	0.44
2:C:51:THR:CB	2:C:348:LEU:HD23	2.48	0.44
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.82	0.44
2:C:176:VAL:HG13	8:C:1607:HOH:O	2.17	0.44
2:C:185:LYS:HB3	2:C:188:LYS:O	2.17	0.44
2:C:470:PRO:HG2	2:C:538:GLN:OE1	2.18	0.44
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.37	0.44
2:C:820:ARG:HB3	8:C:1508:HOH:O	2.18	0.44
2:C:1086:ARG:HG2	2:C:1112:PHE:CE2	2.52	0.44
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.48	0.44
3:D:6:ARG:HH11	3:D:6:ARG:HB3	1.83	0.44
3:D:168:THR:O	3:D:393:ILE:N	2.49	0.44
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.48	0.44
3:D:472:ALA:HB3	8:D:9440:HOH:O	2.17	0.44
3:D:653:PHE:HD1	3:D:653:PHE:N	2.16	0.44
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.18	0.44
3:D:1207:TYR:C	8:D:9465:HOH:O	2.56	0.44
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.99	0.44
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:50:GLY:O	1:K:146:ARG:HA	2.18	0.44
1:K:175:ARG:HH21	1:K:201:THR:N	2.16	0.44
2:M:80:GLN:HE22	2:M:122:THR:HG23	1.83	0.44
2:M:146:VAL:HG11	2:M:306:THR:HG22	2.00	0.44
2:M:218:VAL:O	2:M:221:LEU:HG	2.18	0.44
2:M:250:ARG:HG2	8:M:1251:HOH:O	2.18	0.44
2:M:364:GLU:HG2	8:M:1471:HOH:O	2.17	0.44
2:M:397:GLU:N	2:M:633:GLN:CD	2.71	0.44
2:M:619:ARG:C	2:M:620:LEU:HD13	2.37	0.44
2:M:625:LEU:HD13	2:M:639:GLN:O	2.18	0.44
2:M:695:LEU:HD22	2:M:832:LYS:HB3	2.00	0.44
2:M:752:GLY:O	3:N:679:ARG:HG2	2.18	0.44
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.52	0.44
3:N:12:LEU:HD23	3:N:13:ALA:N	2.26	0.44
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.33	0.44
3:N:119:SER:CB	3:N:123:LEU:H	2.27	0.44
3:N:459:GLU:HA	8:N:9127:HOH:O	2.17	0.44
3:N:907:GLU:HG2	3:N:908:LYS:H	1.81	0.44
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.32	0.44
4:O:10:PHE:CE2	4:O:16:LYS:HG3	2.53	0.44
4:O:33:HIS:HB2	4:O:37:ASN:HD21	1.80	0.44
5:P:133:ALA:HB2	5:P:142:ARG:CZ	2.48	0.44
1:A:107:LYS:HB3	8:A:463:HOH:O	2.18	0.44
1:B:57:TYR:CE1	1:B:161:ARG:HB3	2.53	0.44
1:B:170:VAL:O	1:B:170:VAL:HG23	2.17	0.44
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.16	0.44
2:C:108:ILE:HG12	8:C:1205:HOH:O	2.18	0.44
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.99	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.53	0.44
2:C:601:GLY:HA3	2:C:615:TYR:HA	1.99	0.44
2:C:722:ILE:HG23	2:C:805:ARG:NH2	2.30	0.44
2:C:778:PHE:HB3	8:C:1664:HOH:O	2.18	0.44
2:C:902:ILE:HD13	8:C:1742:HOH:O	2.18	0.44
2:C:916:GLU:O	2:C:919:ALA:HB3	2.18	0.44
2:C:971:LYS:HB3	2:C:987:ILE:C	2.38	0.44
2:C:1049:LEU:HG	2:C:1053:LEU:HD11	1.99	0.44
3:D:135:LEU:HA	3:D:453:ASP:O	2.18	0.44
3:D:611:GLN:CG	5:F:326:ASP:HB2	2.46	0.44
3:D:780:LYS:NZ	8:D:9079:HOH:O	2.48	0.44
3:D:783:ARG:NH2	3:D:1029:ARG:CZ	2.81	0.44
3:D:799:LYS:N	3:D:826:PRO:HG2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:910:SER:O	3:D:913:ASP:HB2	2.18	0.44
3:D:955:VAL:HB	3:D:1011:PHE:CE1	2.46	0.44
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.99	0.44
3:D:1379:VAL:HA	3:D:1420:LEU:HB3	1.99	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.51	0.44
5:F:295:MET:HB3	5:F:299:TRP:CG	2.52	0.44
5:F:361:LEU:HD13	5:F:366:ALA:HB2	1.99	0.44
1:K:69:PRO:HA	2:M:607:ASP:OD2	2.17	0.44
2:M:577:PRO:HD3	8:M:1226:HOH:O	2.17	0.44
2:M:943:VAL:HG11	2:M:973:VAL:CG2	2.48	0.44
2:M:1042:ALA:HB1	3:N:710:ARG:CD	2.48	0.44
2:M:1049:LEU:O	2:M:1053:LEU:HD12	2.17	0.44
2:M:1105:LYS:O	2:M:1107:ASN:N	2.50	0.44
3:N:119:SER:H	3:N:123:LEU:CB	2.28	0.44
3:N:664:LYS:HE3	3:N:693:GLU:OE1	2.18	0.44
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.31	0.44
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.00	0.44
3:N:1302:GLU:OE2	3:N:1304:LYS:HG3	2.17	0.44
4:O:50:THR:HB	8:O:4472:HOH:O	2.18	0.44
5:P:376:ILE:HB	8:P:4564:HOH:O	2.18	0.44
1:A:150:TYR:HD1	2:C:696:LYS:HD3	1.83	0.43
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.44	0.43
2:C:162:ILE:HD12	2:C:172:ILE:CB	2.46	0.43
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.33	0.43
2:C:435:TYR:C	2:C:437:ARG:H	2.21	0.43
2:C:786:LYS:HA	8:C:1481:HOH:O	2.17	0.43
2:C:861:LEU:HD23	2:C:863:ASP:H	1.83	0.43
2:C:873:PRO:HG2	3:D:947:ILE:CD1	2.43	0.43
2:C:927:GLY:HA2	2:C:930:LYS:HE3	1.99	0.43
2:C:961:GLU:HG3	8:C:1364:HOH:O	2.18	0.43
3:D:34:TYR:OH	5:F:261:PRO:HD2	2.18	0.43
3:D:639:LEU:HD22	3:D:766:ALA:CB	2.48	0.43
3:D:1098:LEU:HD12	3:D:1098:LEU:N	2.33	0.43
3:D:1135:ARG:NH1	3:D:1357:ARG:HH12	2.16	0.43
3:D:1223:ILE:H	3:D:1223:ILE:CD1	2.25	0.43
4:E:14:ASP:OD1	4:E:14:ASP:N	2.46	0.43
5:F:132:ARG:HD3	5:F:181:GLU:CD	2.39	0.43
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.30	0.43
1:K:58:ILE:HD13	1:K:140:MET:HB2	2.00	0.43
1:L:75:VAL:O	1:L:79:ILE:HG23	2.17	0.43
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:47:ALA:HB3	2:M:344:PHE:CE1	2.53	0.43
2:M:91:GLN:CD	2:M:117:HIS:HB3	2.37	0.43
2:M:176:VAL:O	2:M:178:PRO:HD3	2.17	0.43
2:M:566:THR:HG22	2:M:566:THR:O	2.18	0.43
2:M:761:PHE:HB3	8:M:1358:HOH:O	2.17	0.43
2:M:1087:VAL:HG23	3:N:524:LEU:CD2	2.48	0.43
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.98	0.43
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.00	0.43
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.18	0.43
3:N:783:ARG:HE	3:N:1029:ARG:HG3	1.83	0.43
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.18	0.43
5:P:101:GLU:O	5:P:105:LYS:HG3	2.18	0.43
5:P:133:ALA:O	5:P:137:GLY:O	2.36	0.43
5:P:320:PRO:C	5:P:321:ILE:HD13	2.38	0.43
1:A:51:THR:HA	1:A:145:ASP:O	2.18	0.43
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.53	0.43
1:A:219:ARG:NE	1:B:219:ARG:HG2	2.33	0.43
2:C:65:VAL:HB	2:C:101:ILE:HB	2.00	0.43
2:C:338:GLU:HA	2:C:341:THR:CG2	2.46	0.43
2:C:677:MET:HE1	2:C:983:ILE:HD13	1.99	0.43
2:C:754:ILE:HD13	2:C:791:ARG:CD	2.48	0.43
3:D:131:LYS:HA	3:D:456:MET:HG3	2.00	0.43
3:D:178:LEU:CD1	3:D:200:ASP:H	2.32	0.43
3:D:530:VAL:HG12	3:D:531:ASP:N	2.32	0.43
3:D:631:ILE:O	3:D:632:VAL:HG23	2.18	0.43
3:D:814:ALA:HB3	8:D:9196:HOH:O	2.17	0.43
3:D:817:GLU:O	3:D:840:LYS:NZ	2.51	0.43
3:D:890:VAL:HG13	3:D:926:LYS:CE	2.48	0.43
3:D:1198:TYR:HE1	8:D:9137:HOH:O	2.00	0.43
5:F:155:THR:O	5:F:159:ILE:HG13	2.17	0.43
5:F:416:ARG:HD2	5:F:419:ARG:HB3	1.98	0.43
1:K:169:ALA:HB1	1:K:171:PHE:CE1	2.53	0.43
1:L:94:LEU:HD21	1:L:119:ASP:HB2	2.01	0.43
2:M:50:GLU:OE2	2:M:345:ARG:NH1	2.52	0.43
2:M:357:GLU:HB2	8:M:1297:HOH:O	2.17	0.43
2:M:462:ASP:CG	2:M:463:GLU:H	2.21	0.43
2:M:484:VAL:HG21	8:M:1124:HOH:O	2.18	0.43
2:M:603:VAL:HG23	2:M:647:GLN:O	2.17	0.43
2:M:916:GLU:HA	8:M:1178:HOH:O	2.16	0.43
3:N:163:TYR:O	3:N:447:VAL:HG21	2.18	0.43
3:N:530:VAL:HA	8:N:9503:HOH:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:560:GLN:NE2	5:P:218:GLN:NE2	2.65	0.43
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.42	0.43
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.83	0.43
3:N:996:TRP:HA	3:N:996:TRP:CE3	2.53	0.43
3:N:1004:THR:OG1	3:N:1036:ARG:HG3	2.18	0.43
3:N:1314:LYS:HZ3	3:N:1317:ASP:N	2.03	0.43
3:N:1353:GLN:O	3:N:1357:ARG:HD2	2.18	0.43
8:N:9109:HOH:O	5:P:319:THR:HG23	2.17	0.43
4:O:46:PRO:CB	4:O:54:LEU:HD22	2.48	0.43
5:P:130:VAL:HG21	5:P:159:ILE:HG21	2.01	0.43
1:A:107:LYS:CG	8:A:494:HOH:O	2.66	0.43
1:B:189:ARG:H	1:B:189:ARG:HG2	1.61	0.43
2:C:54:ILE:HG12	8:C:1597:HOH:O	2.19	0.43
2:C:108:ILE:H	2:C:108:ILE:HG13	1.55	0.43
2:C:688:ILE:HD12	2:C:688:ILE:N	2.33	0.43
2:C:746:GLY:C	2:C:799:ILE:HG22	2.38	0.43
2:C:876:VAL:HG21	3:D:949:ILE:HG13	2.00	0.43
3:D:34:TYR:CE1	3:D:35:ARG:HG3	2.53	0.43
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.38	0.43
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.48	0.43
3:D:521:PRO:O	3:D:525:ARG:HD3	2.19	0.43
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	1.99	0.43
4:E:57:ASP:H	4:E:58:PRO:HD3	1.83	0.43
5:F:323:ASP:HB3	5:F:325:LYS:HG3	2.00	0.43
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.83	0.43
1:K:1:MET:O	1:K:6:LEU:HB2	2.18	0.43
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.48	0.43
2:M:378:LEU:N	8:M:1288:HOH:O	2.51	0.43
2:M:435:TYR:C	2:M:437:ARG:H	2.20	0.43
2:M:523:ILE:HG23	2:M:523:ILE:O	2.18	0.43
2:M:710:ILE:HD11	2:M:758:ARG:HE	1.83	0.43
2:M:999:HIS:HE1	8:M:1359:HOH:O	2.00	0.43
2:M:1002:GLU:H	2:M:1002:GLU:HG3	1.42	0.43
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.33	0.43
2:M:1052:MET:HG3	3:N:623:VAL:CG2	2.48	0.43
2:M:1075:ASP:HB2	4:O:31:LEU:HD12	1.99	0.43
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.18	0.43
3:N:1051:GLU:H	3:N:1051:GLU:HG3	1.50	0.43
3:N:1197:ARG:HB3	3:N:1396:GLU:HG3	2.00	0.43
5:P:134:LYS:HE3	5:P:160:ASP:OD2	2.18	0.43
1:A:49:PRO:HB3	1:A:148:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:VAL:HA	1:A:78:ILE:HD12	1.99	0.43
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.54	0.43
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.36	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.52	0.43
2:C:396:ASP:HA	2:C:633:GLN:OE1	2.18	0.43
2:C:401:LEU:HD13	2:C:587:VAL:HG11	1.99	0.43
3:D:119:SER:H	3:D:123:LEU:CB	2.31	0.43
3:D:369:ALA:HA	8:D:9461:HOH:O	2.19	0.43
3:D:772:PRO:HG3	3:D:1210:SER:OG	2.19	0.43
3:D:805:GLU:OE1	3:D:805:GLU:O	2.37	0.43
3:D:1382:THR:HG21	3:D:1418:LYS:CE	2.48	0.43
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.19	0.43
5:F:179:GLU:HG3	8:F:503:HOH:O	2.18	0.43
5:F:320:PRO:C	5:F:321:ILE:HD13	2.38	0.43
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.17	0.43
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.43
1:K:175:ARG:HE	1:K:175:ARG:HB2	1.64	0.43
1:K:198:ARG:H	1:K:198:ARG:HG3	1.65	0.43
1:L:101:LEU:HD21	1:L:113:ASP:HB3	1.99	0.43
2:M:15:LEU:HD21	2:M:583:LEU:HD21	2.00	0.43
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
2:M:571:LEU:C	2:M:573:ARG:H	2.21	0.43
2:M:572:ILE:HG23	2:M:703:ILE:HD13	1.99	0.43
2:M:1091:GLU:HA	3:N:520:LEU:HD13	2.00	0.43
3:N:89:ARG:NH2	8:N:9103:HOH:O	2.51	0.43
3:N:568:ARG:O	3:N:569:ASN:C	2.57	0.43
3:N:789:LEU:O	3:N:792:ILE:HG23	2.18	0.43
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.17	0.43
3:N:1485:GLN:O	4:O:75:PHE:HA	2.19	0.43
1:A:215:VAL:HG11	1:B:225:PHE:CD1	2.53	0.43
1:B:89:PHE:CD1	1:B:120:VAL:HG22	2.54	0.43
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.87	0.43
2:C:236:ILE:O	2:C:239:PHE:HB2	2.17	0.43
2:C:417:GLY:C	2:C:418:LEU:HD12	2.39	0.43
2:C:640:ARG:CB	2:C:640:ARG:HH11	2.32	0.43
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	2.00	0.43
3:D:133:ILE:HD11	8:D:9474:HOH:O	2.18	0.43
3:D:525:ARG:HA	3:D:538:SER:CB	2.49	0.43
3:D:853:VAL:HA	3:D:858:VAL:O	2.18	0.43
3:D:1029:ARG:NH2	8:D:9488:HOH:O	2.52	0.43
3:D:1087:ARG:HG2	3:D:1087:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1271:LYS:HE3	3:D:1334:GLN:NE2	2.33	0.43
1:K:229:GLN:HE21	1:K:229:GLN:HB2	1.64	0.43
2:M:186:VAL:HG23	2:M:187:ASN:N	2.26	0.43
2:M:203:ASP:OD1	2:M:206:THR:HG22	2.18	0.43
2:M:220:GLY:HA3	8:M:1170:HOH:O	2.18	0.43
2:M:302:VAL:C	2:M:305:PRO:HD2	2.39	0.43
2:M:553:ASP:HA	2:M:881:ASN:HA	1.99	0.43
2:M:1018:GLN:NE2	2:M:1063:ARG:NH2	2.66	0.43
2:M:1019:GLN:OE1	3:N:621:LYS:HA	2.18	0.43
2:M:1051:GLU:CG	2:M:1056:LYS:HE3	2.40	0.43
3:N:47:GLU:HG2	8:N:9894:HOH:O	2.17	0.43
3:N:102:ILE:CG2	3:N:586:ARG:HD3	2.49	0.43
3:N:431:VAL:HG22	8:N:9550:HOH:O	2.18	0.43
3:N:514:LEU:HA	8:N:9079:HOH:O	2.18	0.43
3:N:584:ASN:HB2	3:N:602:SER:OG	2.19	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.90	0.43
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.39	0.43
4:O:54:LEU:N	8:O:4983:HOH:O	2.52	0.43
5:P:366:ALA:HB3	5:P:367:MET:CE	2.49	0.43
1:A:1:MET:O	1:A:6:LEU:HB2	2.18	0.43
1:A:23:PHE:O	1:A:196:THR:HA	2.18	0.43
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.82	0.43
1:B:49:PRO:HA	8:B:322:HOH:O	2.19	0.43
8:B:441:HOH:O	3:D:821:VAL:HG13	2.18	0.43
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.18	0.43
2:C:854:PRO:HD2	2:C:857:ASP:OD2	2.18	0.43
2:C:1016:ILE:HD12	3:D:526:PRO:HG2	2.00	0.43
2:C:1042:ALA:HB1	8:D:9123:HOH:O	2.18	0.43
3:D:57:GLU:HG2	3:D:58:CYS:O	2.19	0.43
3:D:606:ILE:O	3:D:613:ARG:HB2	2.18	0.43
3:D:819:GLY:HA2	8:D:9660:HOH:O	2.18	0.43
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.49	0.43
3:D:838:ARG:HG2	3:D:865:THR:OG1	2.18	0.43
3:D:1102:THR:HG22	3:D:1102:THR:O	2.19	0.43
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.53	0.43
5:F:313:GLU:H	5:F:313:GLU:HG2	1.42	0.43
1:K:193:ASP:HB2	8:K:3631:HOH:O	2.19	0.43
1:L:19:GLU:O	1:L:200:TRP:HA	2.18	0.43
1:L:142:VAL:HG23	1:L:142:VAL:O	2.19	0.43
2:M:274:ARG:CD	2:M:285:LEU:HB3	2.49	0.43
2:M:654:LEU:HD13	2:M:664:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:841:ASN:C	2:M:841:ASN:ND2	2.70	0.43
3:N:32:ILE:O	5:P:258:ILE:HG23	2.19	0.43
3:N:210:ARG:HD3	8:N:9691:HOH:O	2.18	0.43
3:N:596:SER:OG	3:N:598:ARG:HB3	2.18	0.43
3:N:669:ASN:O	3:N:672:ALA:HB3	2.18	0.43
3:N:694:VAL:HG13	8:N:9146:HOH:O	2.18	0.43
3:N:910:SER:O	3:N:913:ASP:HB2	2.18	0.43
3:N:1237:THR:HB	3:N:1239:ARG:HH21	1.84	0.43
3:N:1425:THR:CG2	3:N:1426:LYS:N	2.82	0.43
5:P:77:THR:O	5:P:81:VAL:HG23	2.17	0.43
5:P:367:MET:HA	5:P:370:LYS:HZ3	1.84	0.43
1:A:24:VAL:HG22	1:A:196:THR:CB	2.46	0.43
2:C:23:VAL:HA	2:C:121:MET:SD	2.59	0.43
2:C:43:GLY:HA2	2:C:341:THR:OG1	2.19	0.43
2:C:588:VAL:HG21	2:C:664:GLY:O	2.17	0.43
2:C:630:ARG:HH22	2:C:707:ARG:CB	2.32	0.43
2:C:816:LYS:O	2:C:819:VAL:HB	2.19	0.43
2:C:915:LYS:O	2:C:968:LEU:HD22	2.19	0.43
2:C:938:LYS:HD3	2:C:939:ARG:NH2	2.33	0.43
3:D:106:LYS:HD3	3:D:106:LYS:HA	1.83	0.43
3:D:641:GLN:O	3:D:716:PHE:HD2	2.01	0.43
3:D:677:LEU:HD21	3:D:687:VAL:HG21	2.01	0.43
3:D:699:VAL:CG2	3:D:760:ARG:HB3	2.45	0.43
3:D:965:GLU:HB2	8:D:2028:HOH:O	2.17	0.43
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.00	0.43
1:K:9:PRO:HB3	1:K:25:LEU:CG	2.48	0.43
1:L:137:ARG:HB3	1:L:137:ARG:CZ	2.49	0.43
2:M:56:GLU:HB2	2:M:359:MET:SD	2.59	0.43
2:M:139:GLN:NE2	2:M:334:ARG:HH11	2.02	0.43
2:M:267:TYR:O	2:M:288:ARG:HD3	2.17	0.43
2:M:936:VAL:HG22	8:M:1450:HOH:O	2.18	0.43
2:M:1049:LEU:HG	2:M:1049:LEU:O	2.16	0.43
3:N:112:ILE:HD13	3:N:461:ILE:HG21	2.00	0.43
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.78	0.43
3:N:131:LYS:HE2	3:N:568:ARG:HB3	2.01	0.43
3:N:469:ASP:HB3	8:N:9566:HOH:O	2.18	0.43
3:N:629:SER:OG	3:N:630:VAL:N	2.50	0.43
3:N:684:LYS:HD3	3:N:686:GLU:CD	2.39	0.43
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.84	0.43
3:N:798:GLU:HB2	3:N:828:LYS:HZ3	1.84	0.43
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:9:LEU:HD21	4:O:69:LEU:HG	2.01	0.43
5:P:104:ARG:HD3	8:P:5106:HOH:O	2.18	0.43
5:P:223:ALA:HB2	5:P:242:TRP:CB	2.49	0.43
5:P:343:ASP:O	5:P:346:THR:HB	2.18	0.43
1:A:26:GLU:CB	1:A:194:LYS:HG3	2.49	0.43
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.49	0.43
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.49	0.43
1:B:143:ARG:CD	1:B:158:ILE:HG21	2.48	0.43
1:B:185:ARG:HG3	1:B:190:THR:HG22	2.01	0.43
1:B:191:ASP:O	1:B:192:LEU:HG	2.19	0.43
2:C:98:LEU:HD12	2:C:98:LEU:N	2.33	0.43
2:C:974:LEU:HD11	2:C:989:VAL:HG11	2.01	0.43
3:D:32:ILE:HG22	5:F:258:ILE:HD12	2.00	0.43
3:D:210:ARG:HG3	3:D:398:ALA:N	2.32	0.43
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.33	0.43
3:D:478:LEU:HD21	3:D:500:ARG:HH22	1.77	0.43
3:D:805:GLU:HA	8:D:9801:HOH:O	2.18	0.43
3:D:907:GLU:OE1	3:D:908:LYS:N	2.52	0.43
1:K:101:LEU:HG	1:K:113:ASP:O	2.18	0.43
1:K:152:PRO:HB3	2:M:832:LYS:NZ	2.34	0.43
1:K:228:PRO:HA	1:L:11:PHE:O	2.19	0.43
2:M:31:GLN:OE1	2:M:38:LYS:HB2	2.18	0.43
2:M:52:PHE:HB3	8:M:1173:HOH:O	2.18	0.43
2:M:89:THR:O	2:M:89:THR:HG23	2.19	0.43
2:M:139:GLN:NE2	2:M:415:PRO:HG2	2.34	0.43
2:M:289:THR:O	2:M:291:ALA:N	2.51	0.43
2:M:309:TYR:CE2	2:M:321:GLU:HB3	2.54	0.43
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.49	0.43
2:M:773:LEU:HA	8:M:1485:HOH:O	2.19	0.43
2:M:984:GLU:O	3:N:946:GLY:HA3	2.18	0.43
2:M:1050:GLN:NE2	2:M:1079:PRO:HB2	2.33	0.43
2:M:1103:ASP:N	2:M:1107:ASN:O	2.52	0.43
3:N:704:ARG:CD	3:N:705:ALA:H	2.24	0.43
3:N:806:PHE:O	3:N:807:ALA:C	2.56	0.43
3:N:829:VAL:H	3:N:835:SER:HB2	1.83	0.43
3:N:1009:LYS:HG3	8:N:9857:HOH:O	2.18	0.43
3:N:1124:GLN:HG3	8:N:9303:HOH:O	2.19	0.43
3:N:1274:ILE:HA	8:N:9087:HOH:O	2.19	0.43
3:N:1485:GLN:NE2	4:O:79:LEU:H	2.17	0.43
4:O:41:GLU:HG3	4:O:45:ARG:NH1	2.34	0.43
4:O:67:GLU:OE1	4:O:73:LEU:HD11	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:337:HIS:CD2	5:P:337:HIS:N	2.86	0.43
5:P:340:SER:O	5:P:342:VAL:N	2.51	0.43
5:P:363:GLU:HA	5:P:367:MET:HE2	1.99	0.43
1:B:138:LEU:HB2	8:B:373:HOH:O	2.18	0.43
2:C:10:ARG:HA	2:C:10:ARG:HD3	1.68	0.43
2:C:29:ALA:CB	2:C:337:GLY:HA2	2.49	0.43
2:C:77:PRO:HD2	2:C:91:GLN:O	2.19	0.43
2:C:334:ARG:HB2	2:C:339:LEU:HD11	2.00	0.43
2:C:480:THR:HG22	2:C:482:GLU:N	2.31	0.43
2:C:640:ARG:HA	2:C:641:PRO:HD3	1.90	0.43
2:C:680:ASP:HA	8:C:1147:HOH:O	2.18	0.43
2:C:745:ILE:HG13	8:C:1168:HOH:O	2.18	0.43
2:C:1010:THR:HG21	5:F:341:PRO:HB2	2.01	0.43
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.48	0.43
3:D:55:ASP:HB3	3:D:56:TYR:H	1.65	0.43
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.52	0.43
3:D:1144:LEU:O	3:D:1166:LEU:HG	2.18	0.43
3:D:1209:LEU:HD13	3:D:1211:MET:CE	2.41	0.43
3:D:1303:TYR:CD1	3:D:1325:LEU:HD23	2.54	0.43
5:F:157:GLU:HG3	8:F:479:HOH:O	2.18	0.43
1:L:12:THR:OG1	1:L:24:VAL:HB	2.19	0.43
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.53	0.43
2:M:443:THR:HA	2:M:444:PRO:HD3	1.80	0.43
2:M:570:PRO:HA	8:M:1348:HOH:O	2.18	0.43
2:M:582:GLY:N	2:M:584:GLU:OE2	2.48	0.43
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.54	0.43
2:M:1115:LEU:CG	3:N:85:VAL:HG13	2.49	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.50	0.43
3:N:185:VAL:HG12	3:N:191:LEU:HD21	2.01	0.43
3:N:397:LYS:HE3	8:N:9313:HOH:O	2.18	0.43
3:N:441:ARG:O	3:N:443:VAL:N	2.52	0.43
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.34	0.43
3:N:760:ARG:HB2	4:O:3:GLU:OE2	2.19	0.43
3:N:781:PRO:HG2	3:N:911:LEU:HD23	2.01	0.43
3:N:898:GLU:HB3	3:N:921:ARG:NH2	2.34	0.43
3:N:950:GLY:H	3:N:953:ASP:CG	2.22	0.43
3:N:1300:SER:HB3	8:N:9965:HOH:O	2.18	0.43
3:N:1413:THR:HG21	8:N:9344:HOH:O	2.18	0.43
1:B:7:LYS:HD3	8:B:328:HOH:O	2.19	0.43
2:C:52:PHE:HB3	8:C:1475:HOH:O	2.18	0.43
2:C:102:HIS:HD2	2:C:365:ASP:OD2	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:HA	2:C:444:PRO:HD3	1.81	0.43
2:C:744:ARG:HA	8:C:1168:HOH:O	2.18	0.43
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.43
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.19	0.43
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.49	0.43
3:D:427:VAL:CB	3:D:435:VAL:HB	2.49	0.43
3:D:464:LEU:O	3:D:468:LEU:HG	2.19	0.43
3:D:508:ARG:HG2	3:D:508:ARG:HH11	1.84	0.43
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.01	0.43
3:D:633:VAL:C	3:D:635:PRO:HD3	2.39	0.43
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.82	0.43
5:F:225:GLU:HG3	5:F:226:LYS:HG3	2.01	0.43
1:K:48:ILE:HG22	1:K:173:PRO:HD2	2.00	0.43
1:K:112:ARG:HH22	1:K:126:ASP:HB2	1.83	0.43
1:K:212:ASN:O	1:K:215:VAL:HG23	2.19	0.43
1:L:62:LEU:HD22	1:L:63:HIS:HE1	1.83	0.43
2:M:415:PRO:C	2:M:417:GLY:H	2.23	0.43
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.34	0.43
2:M:495:THR:H	2:M:530:GLU:CD	2.22	0.43
2:M:666:LEU:HD12	2:M:667:ALA:H	1.84	0.43
2:M:1115:LEU:CB	3:N:85:VAL:HG13	2.49	0.43
3:N:493:ARG:NH1	3:N:1390:LEU:N	2.67	0.43
3:N:828:LYS:N	3:N:828:LYS:HD3	2.33	0.43
3:N:1377:LYS:HB3	3:N:1378:TYR:CE1	2.53	0.43
3:N:1476:THR:OG1	4:O:20:THR:HG21	2.19	0.43
5:P:88:ILE:O	5:P:92:PRO:HG3	2.19	0.43
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.48	0.43
1:A:9:PRO:HB3	1:A:25:LEU:HD21	2.01	0.42
1:A:229:GLN:HE21	1:A:229:GLN:HB2	1.58	0.42
1:B:33:GLY:O	1:B:195:LEU:HD22	2.19	0.42
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.42
2:C:103:LYS:HE2	8:C:1421:HOH:O	2.19	0.42
2:C:185:LYS:HE3	8:C:1838:HOH:O	2.19	0.42
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.39	0.42
2:C:892:LEU:HD12	2:C:892:LEU:O	2.19	0.42
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.19	0.42
8:C:1550:HOH:O	3:D:88:TYR:HB2	2.17	0.42
3:D:28:LYS:O	3:D:43:GLY:HA2	2.19	0.42
3:D:500:ARG:HD2	8:D:9527:HOH:O	2.18	0.42
3:D:568:ARG:O	3:D:569:ASN:C	2.57	0.42
3:D:638:LYS:C	3:D:729:HIS:HD2	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1107:VAL:O	3:D:1218:GLY:N	2.49	0.42
4:E:67:GLU:HG3	4:E:67:GLU:H	1.73	0.42
5:F:132:ARG:HG3	8:F:754:HOH:O	2.19	0.42
1:L:23:PHE:CE1	1:L:208:LEU:HD13	2.54	0.42
2:M:34:VAL:CG1	2:M:38:LYS:HG3	2.49	0.42
2:M:68:PHE:HZ	2:M:71:TYR:HB3	1.84	0.42
2:M:157:ARG:HD3	2:M:158:TYR:N	2.34	0.42
2:M:244:PRO:CD	2:M:245:GLY:N	2.82	0.42
2:M:631:SER:HG	2:M:635:THR:H	1.65	0.42
2:M:650:ARG:HB2	8:M:1333:HOH:O	2.17	0.42
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.83	0.42
3:N:104:PHE:HE2	3:N:1448:THR:HA	1.84	0.42
3:N:125:GLN:NE2	8:N:9189:HOH:O	2.50	0.42
3:N:552:ASN:O	3:N:556:LYS:HD3	2.19	0.42
3:N:794:GLN:NE2	3:N:795:VAL:O	2.52	0.42
3:N:1136:LYS:HG3	3:N:1139:ASP:HB2	2.01	0.42
3:N:1435:LEU:HB2	3:N:1457:ASP:OD2	2.19	0.42
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.54	0.42
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.54	0.42
2:C:219:GLN:HA	2:C:222:MET:SD	2.58	0.42
2:C:321:GLU:H	2:C:321:GLU:HG2	1.57	0.42
2:C:498:GLN:CD	3:D:1068:LEU:HB2	2.39	0.42
2:C:676:ILE:HG23	2:C:676:ILE:O	2.18	0.42
2:C:834:GLN:HB3	8:C:1816:HOH:O	2.19	0.42
2:C:897:LEU:HD11	2:C:920:GLN:HG2	2.01	0.42
2:C:1054:THR:C	2:C:1059:ASP:HB2	2.40	0.42
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.18	0.42
3:D:690:ALA:O	3:D:693:GLU:HB3	2.19	0.42
3:D:828:LYS:HD2	3:D:862:ASP:OD2	2.19	0.42
3:D:1057:VAL:HA	3:D:1069:GLU:HG2	2.00	0.42
3:D:1156:LEU:HG	3:D:1177:ALA:HB2	2.00	0.42
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.54	0.42
5:F:309:LYS:O	5:F:312:GLN:HG3	2.19	0.42
5:F:343:ASP:O	5:F:346:THR:HB	2.18	0.42
5:F:393:THR:O	5:F:397:ILE:HG13	2.19	0.42
1:L:23:PHE:CE1	1:L:208:LEU:HD22	2.55	0.42
2:M:400:PRO:HB3	8:M:1744:HOH:O	2.18	0.42
2:M:595:LEU:HD22	2:M:625:LEU:CD2	2.49	0.42
2:M:822:VAL:HG21	2:M:824:ARG:HH21	1.84	0.42
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.19	0.42
3:N:134:VAL:HG21	8:N:9491:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:737:ASN:N	8:N:9095:HOH:O	2.52	0.42
3:N:1241:PHE:H	3:N:1241:PHE:HD1	1.67	0.42
5:P:372:ARG:HA	8:P:3689:HOH:O	2.18	0.42
2:C:91:GLN:HA	2:C:119:PRO:HA	2.02	0.42
2:C:238:LEU:HD23	2:C:241:LEU:HB3	2.01	0.42
2:C:254:VAL:O	2:C:257:VAL:HG23	2.18	0.42
2:C:430:VAL:O	2:C:430:VAL:HG13	2.19	0.42
2:C:460:ARG:HH11	2:C:460:ARG:CB	2.26	0.42
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.84	0.42
2:C:607:ASP:HB3	2:C:610:ARG:H	1.84	0.42
2:C:708:TYR:H	2:C:708:TYR:HD1	1.67	0.42
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.49	0.42
3:D:31:THR:HB	3:D:32:ILE:H	1.56	0.42
3:D:475:LYS:O	3:D:479:GLU:HG2	2.20	0.42
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.33	0.42
3:D:759:ALA:O	3:D:763:MET:HB3	2.19	0.42
3:D:917:GLN:NE2	3:D:917:GLN:HA	2.34	0.42
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.49	0.42
3:D:994:GLN:O	3:D:998:GLU:HG3	2.20	0.42
4:E:70:THR:HG22	4:E:71:GLY:N	2.34	0.42
5:F:348:SER:OG	5:F:349:LEU:N	2.52	0.42
5:F:368:VAL:HG13	5:F:388:ALA:O	2.20	0.42
1:L:51:THR:HA	1:L:145:ASP:O	2.19	0.42
1:L:165:ILE:O	1:L:165:ILE:HG13	2.19	0.42
1:L:179:PHE:HB2	1:L:195:LEU:HD11	2.00	0.42
2:M:184:MET:HB2	2:M:193:LEU:HD12	2.01	0.42
2:M:362:GLY:HA3	2:M:367:LEU:CD2	2.42	0.42
2:M:440:PRO:HG2	2:M:441:VAL:HG23	2.00	0.42
2:M:473:ARG:NH2	8:M:1124:HOH:O	2.52	0.42
2:M:732:ALA:O	2:M:735:ARG:HG3	2.19	0.42
2:M:959:PRO:O	2:M:963:LEU:HD23	2.19	0.42
3:N:78:VAL:O	3:N:78:VAL:HG12	2.19	0.42
3:N:168:THR:O	3:N:393:ILE:N	2.52	0.42
3:N:675:ARG:O	3:N:678:GLU:HG2	2.19	0.42
3:N:681:ARG:HB3	3:N:681:ARG:HH11	1.84	0.42
3:N:850:LEU:H	3:N:850:LEU:CD1	2.23	0.42
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.01	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.54	0.42
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.54	0.42
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1447:LEU:O	3:N:1448:THR:C	2.57	0.42
5:P:419:ARG:O	5:P:421:PHE:N	2.52	0.42
8:B:441:HOH:O	3:D:821:VAL:HG22	2.19	0.42
2:C:437:ARG:HG2	2:C:467:ILE:O	2.20	0.42
2:C:704:HIS:CG	2:C:831:ARG:HH21	2.37	0.42
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.54	0.42
2:C:712:ALA:HB1	2:C:820:ARG:NH1	2.33	0.42
2:C:1086:ARG:HD3	3:D:88:TYR:HH	1.83	0.42
2:C:1094:ALA:HB1	3:D:603:LEU:CD1	2.49	0.42
3:D:145:VAL:HG11	8:D:9724:HOH:O	2.18	0.42
3:D:163:TYR:O	3:D:447:VAL:HG21	2.19	0.42
3:D:507:ASN:HA	3:D:507:ASN:HD22	1.65	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	0.42
3:D:530:VAL:CG1	3:D:531:ASP:H	2.32	0.42
3:D:556:LYS:HD2	8:D:9348:HOH:O	2.19	0.42
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.01	0.42
3:D:864:VAL:HG23	8:D:9288:HOH:O	2.18	0.42
3:D:1020:LEU:HD21	3:D:1038:LEU:HD13	2.01	0.42
3:D:1199:GLY:N	8:D:9253:HOH:O	2.51	0.42
3:D:1220:ALA:O	3:D:1224:VAL:HG23	2.19	0.42
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.82	0.42
5:F:262:VAL:O	5:F:266:GLU:HG3	2.17	0.42
1:L:161:ARG:HG3	8:L:3450:HOH:O	2.18	0.42
2:M:239:PHE:HE1	8:M:1543:HOH:O	2.02	0.42
2:M:549:PHE:CE2	2:M:886:LEU:HD12	2.55	0.42
2:M:652:GLY:HA2	8:M:1180:HOH:O	2.19	0.42
2:M:750:LYS:HG3	2:M:751:PRO:HD2	2.01	0.42
3:N:536:ALA:CA	5:P:315:VAL:O	2.68	0.42
3:N:759:ALA:HA	3:N:763:MET:CE	2.49	0.42
3:N:770:LEU:HD13	3:N:776:GLU:C	2.40	0.42
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.82	0.42
3:N:1112:CYS:CA	3:N:1195:GLN:HE22	2.31	0.42
3:N:1365:ASP:OD2	3:N:1365:ASP:N	2.53	0.42
3:N:1493:LYS:HA	3:N:1493:LYS:HZ3	1.83	0.42
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.01	0.42
3:D:47:GLU:H	3:D:47:GLU:HG2	1.71	0.42
3:D:112:ILE:HD13	3:D:461:ILE:HG21	2.01	0.42
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.03	0.42
3:D:421:LEU:HD12	3:D:435:VAL:HG11	2.01	0.42
3:D:669:ASN:O	3:D:672:ALA:HB3	2.19	0.42
3:D:817:GLU:HB2	3:D:839:LEU:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.33	0.42
3:D:1037:GLN:OE1	3:D:1042:ARG:NE	2.52	0.42
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.83	0.42
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.83	0.42
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.83	0.42
5:F:372:ARG:HD3	8:F:635:HOH:O	2.20	0.42
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.20	0.42
2:M:131:GLY:N	8:M:1593:HOH:O	2.53	0.42
2:M:507:ARG:HH11	2:M:507:ARG:CB	2.25	0.42
2:M:572:ILE:HD11	2:M:701:THR:CG2	2.49	0.42
2:M:577:PRO:HA	2:M:993:PHE:HD2	1.83	0.42
2:M:754:ILE:HD13	2:M:791:ARG:HD3	2.01	0.42
2:M:923:GLU:OE1	2:M:923:GLU:HA	2.19	0.42
2:M:1086:ARG:CB	2:M:1112:PHE:HE2	2.32	0.42
3:N:52:PRO:HG2	3:N:78:VAL:HG13	2.00	0.42
3:N:115:LEU:HD13	3:N:499:VAL:HG22	2.01	0.42
3:N:553:ARG:HD2	3:N:570:GLU:OE2	2.19	0.42
3:N:639:LEU:N	3:N:729:HIS:CD2	2.87	0.42
3:N:661:MET:HE1	3:N:677:LEU:HD11	2.02	0.42
3:N:700:VAL:HG22	3:N:718:PRO:HG3	2.01	0.42
3:N:888:GLU:HA	3:N:891:GLU:OE1	2.19	0.42
3:N:1142:ALA:HB1	3:N:1365:ASP:OD2	2.19	0.42
3:N:1485:GLN:NE2	4:O:79:LEU:N	2.68	0.42
1:B:13:VAL:HG12	1:B:14:ARG:N	2.34	0.42
1:B:133:GLU:HG3	1:B:134:GLU:HG2	2.02	0.42
2:C:135:VAL:N	2:C:393:GLN:O	2.50	0.42
2:C:235:LEU:HD11	8:C:1777:HOH:O	2.20	0.42
2:C:421:GLU:HG3	8:C:1723:HOH:O	2.18	0.42
2:C:710:ILE:HD12	2:C:790:LEU:HB2	2.01	0.42
2:C:751:PRO:HA	2:C:792:VAL:HG12	2.01	0.42
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	2.00	0.42
3:D:49:ILE:HB	3:D:50:PHE:CE1	2.55	0.42
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.50	0.42
3:D:178:LEU:HD11	8:D:9071:HOH:O	2.19	0.42
3:D:183:GLU:HG3	8:D:9600:HOH:O	2.19	0.42
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.35	0.42
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.54	0.42
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.54	0.42
3:D:678:GLU:HG3	3:D:679:ARG:HG3	2.01	0.42
3:D:817:GLU:HG3	3:D:840:LYS:HZ1	1.85	0.42
3:D:1086:LEU:HB2	8:D:9637:HOH:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.34	0.42
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.33	0.42
3:D:1259:VAL:O	3:D:1263:PHE:HD1	2.02	0.42
5:F:113:ILE:HG23	5:F:127:ILE:HG22	2.00	0.42
1:L:134:GLU:HA	8:L:3583:HOH:O	2.20	0.42
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.84	0.42
2:M:44:ILE:O	2:M:48:PHE:HB2	2.18	0.42
2:M:101:ILE:HG22	2:M:102:HIS:H	1.84	0.42
2:M:183:SER:HB2	2:M:190:LYS:HG2	2.00	0.42
2:M:240:THR:HG23	8:M:1647:HOH:O	2.19	0.42
2:M:345:ARG:HA	2:M:348:LEU:HB2	2.02	0.42
2:M:363:SER:HB3	8:M:1471:HOH:O	2.20	0.42
2:M:511:GLU:H	2:M:511:GLU:HG2	1.63	0.42
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.19	0.42
2:M:914:ILE:CD1	2:M:918:LEU:HD13	2.48	0.42
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.55	0.42
3:N:65:ARG:HA	3:N:65:ARG:HD2	1.85	0.42
3:N:661:MET:HE1	3:N:673:ALA:HB1	2.00	0.42
3:N:860:LEU:HD23	3:N:877:PRO:HB2	2.00	0.42
3:N:1110:ALA:O	3:N:1111:ASP:C	2.58	0.42
3:N:1209:LEU:CD2	3:N:1210:SER:H	2.29	0.42
5:P:338:LEU:HG	8:P:2822:HOH:O	2.19	0.42
1:A:216:GLU:O	1:A:220:GLU:HG3	2.20	0.42
1:B:18:ARG:HH12	1:B:123:MET:HE1	1.85	0.42
1:B:51:THR:HA	1:B:145:ASP:O	2.20	0.42
2:C:7:GLY:HA3	2:C:907:ASP:O	2.20	0.42
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.19	0.42
2:C:95:TYR:N	2:C:95:TYR:CD1	2.88	0.42
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.43	0.42
2:C:388:ARG:HA	8:C:1349:HOH:O	2.19	0.42
2:C:437:ARG:NH1	2:C:488:ALA:HA	2.35	0.42
2:C:662:GLU:HB3	8:C:1359:HOH:O	2.19	0.42
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.55	0.42
3:D:39:PRO:HB2	8:D:9084:HOH:O	2.19	0.42
3:D:501:ALA:HB1	3:D:1453:ALA:CA	2.47	0.42
3:D:937:TYR:HE1	8:D:9501:HOH:O	2.02	0.42
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.20	0.42
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.55	0.42
3:D:1205:TYR:CE1	3:D:1221:VAL:CG1	3.02	0.42
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.42
1:K:46:SER:HB3	2:M:856:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:86:VAL:HG13	1:L:86:VAL:O	2.20	0.42
1:L:159:LYS:NZ	8:L:3366:HOH:O	2.53	0.42
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.55	0.42
2:M:367:LEU:HA	2:M:371:LYS:HB2	2.01	0.42
2:M:515:ALA:C	2:M:516:ARG:HD3	2.40	0.42
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.90	0.42
2:M:751:PRO:HA	2:M:792:VAL:HB	2.02	0.42
3:N:135:LEU:HA	3:N:453:ASP:O	2.19	0.42
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.46	0.42
3:N:610:LYS:CG	3:N:611:GLN:HE21	2.26	0.42
3:N:796:ARG:HG2	3:N:861:GLN:O	2.20	0.42
3:N:838:ARG:HD3	3:N:874:GLU:CG	2.50	0.42
3:N:865:THR:N	8:N:9349:HOH:O	2.52	0.42
3:N:948:THR:O	3:N:1019:PRO:CB	2.68	0.42
3:N:1127:GLU:HB3	3:N:1128:VAL:H	1.68	0.42
8:N:9099:HOH:O	4:O:84:ARG:HG2	2.20	0.42
1:A:209:GLU:HA	8:A:418:HOH:O	2.19	0.42
2:C:30:LEU:HD12	2:C:30:LEU:O	2.20	0.42
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.85	0.42
2:C:1015:LEU:HD13	5:F:334:PRO:O	2.20	0.42
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.50	0.42
3:D:805:GLU:OE2	3:D:809:PRO:HG2	2.20	0.42
3:D:848:GLU:HA	3:D:851:LEU:HD12	2.02	0.42
3:D:971:LEU:CD1	3:D:992:ILE:HG23	2.50	0.42
3:D:1047:LYS:HA	3:D:1053:PHE:CZ	2.55	0.42
3:D:1132:LEU:HD12	3:D:1132:LEU:HA	1.80	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.50	0.42
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.88	0.42
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.84	0.42
5:F:401:GLU:HA	8:F:489:HOH:O	2.19	0.42
5:F:412:GLU:CD	5:F:418:LEU:HD13	2.40	0.42
1:K:111:ALA:HB3	1:K:124:ASN:O	2.20	0.42
1:K:176:ARG:O	1:K:200:TRP:HE3	2.02	0.42
1:K:191:ASP:O	1:K:192:LEU:HD23	2.20	0.42
1:L:111:ALA:HB3	1:L:124:ASN:O	2.20	0.42
1:L:123:MET:HA	8:L:3100:HOH:O	2.20	0.42
1:L:140:MET:HG2	1:L:142:VAL:HG13	2.01	0.42
2:M:54:ILE:HA	8:M:1389:HOH:O	2.19	0.42
2:M:183:SER:C	2:M:193:LEU:HD11	2.39	0.42
2:M:212:GLY:C	2:M:215:GLY:H	2.23	0.42
2:M:249:LYS:HB2	2:M:249:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:257:VAL:HA	8:M:1429:HOH:O	2.20	0.42
2:M:439:CYS:HB3	2:M:442:GLU:HB2	2.00	0.42
2:M:694:LEU:O	2:M:699:PHE:HB2	2.20	0.42
2:M:910:LYS:N	2:M:910:LYS:HD2	2.35	0.42
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.20	0.42
2:M:1060:ILE:HA	2:M:1063:ARG:HE	1.85	0.42
2:M:1060:ILE:CG1	2:M:1063:ARG:HH21	2.33	0.42
3:N:12:LEU:HD22	3:N:511:TRP:HB3	2.02	0.42
3:N:71:LYS:HE3	8:N:9783:HOH:O	2.19	0.42
3:N:83:SER:N	8:N:9092:HOH:O	2.53	0.42
3:N:161:LEU:CD2	3:N:452:ILE:HG21	2.48	0.42
3:N:408:GLU:HG2	8:N:9502:HOH:O	2.19	0.42
3:N:642:CYS:HA	8:N:9469:HOH:O	2.19	0.42
3:N:1394:VAL:CG1	3:N:1397:LYS:HG3	2.50	0.42
2:C:147:TYR:HE2	2:C:280:LYS:NZ	2.18	0.42
2:C:452:ILE:HG13	2:C:452:ILE:O	2.19	0.42
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.84	0.42
2:C:1031:ARG:HD3	3:D:619:LEU:HD23	2.02	0.42
2:C:1090:LYS:HD3	2:C:1090:LYS:HA	1.87	0.42
3:D:15:PRO:CB	3:D:19:ARG:HH12	2.32	0.42
3:D:978:TYR:CE1	3:D:985:ASP:HA	2.55	0.42
3:D:1152:GLU:CD	3:D:1159:ARG:NH1	2.73	0.42
3:D:1184:GLN:NE2	8:D:9269:HOH:O	2.52	0.42
3:D:1382:THR:HA	8:D:9579:HOH:O	2.20	0.42
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.20	0.42
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.34	0.42
5:F:166:LEU:HD22	5:F:170:HIS:HB2	2.01	0.42
5:F:181:GLU:O	5:F:184:ARG:HB3	2.19	0.42
5:F:370:LYS:HD2	5:F:370:LYS:C	2.39	0.42
1:K:160:ASP:HB2	8:K:3421:HOH:O	2.20	0.42
1:K:198:ARG:C	1:K:199:ILE:HD12	2.41	0.42
1:L:108:GLU:HA	8:L:2956:HOH:O	2.20	0.42
2:M:469:THR:HG23	2:M:538:GLN:OE1	2.20	0.42
2:M:503:LEU:HD12	8:M:1190:HOH:O	2.19	0.42
2:M:565:GLN:HA	2:M:995:MET:HE3	2.01	0.42
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.54	0.42
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.84	0.42
3:N:65:ARG:HG3	3:N:66:GLN:HG2	2.00	0.42
3:N:82:LYS:HG2	5:P:337:HIS:HB3	2.01	0.42
3:N:83:SER:O	3:N:86:ARG:N	2.53	0.42
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1485:GLN:HE21	4:O:79:LEU:N	2.17	0.42
5:P:197:SER:O	5:P:200:LYS:HB3	2.20	0.42
5:P:273:ARG:O	5:P:276:ARG:HB2	2.20	0.42
5:P:328:PHE:HD2	5:P:328:PHE:HA	1.68	0.42
1:A:121:GLU:HG2	1:A:123:MET:SD	2.60	0.42
2:C:302:VAL:O	2:C:305:PRO:HD2	2.20	0.42
2:C:346:VAL:O	2:C:350:ARG:HG3	2.20	0.42
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.49	0.42
3:D:120:ALA:HB1	8:D:9091:HOH:O	2.18	0.42
3:D:154:THR:HG21	3:D:156:GLU:HG2	2.01	0.42
3:D:613:ARG:O	3:D:617:ASN:HB2	2.20	0.42
3:D:671:LYS:CG	5:F:422:LEU:HA	2.46	0.42
3:D:828:LYS:HD3	3:D:828:LYS:N	2.35	0.42
3:D:860:LEU:HA	3:D:860:LEU:HD23	1.93	0.42
3:D:892:ASP:HB3	3:D:895:VAL:HB	2.01	0.42
3:D:1086:LEU:HB3	3:D:1090:ASP:OD1	2.20	0.42
3:D:1241:PHE:HB3	8:D:9758:HOH:O	2.19	0.42
4:E:42:PRO:HB2	4:E:43:GLU:OE2	2.20	0.42
5:F:96:LEU:HD12	5:F:97:GLU:OE2	2.20	0.42
5:F:291:ILE:HG23	5:F:304:VAL:HG21	2.01	0.42
1:K:26:GLU:N	1:K:26:GLU:OE2	2.53	0.42
2:M:18:LEU:HB2	2:M:590:ASP:HB3	2.01	0.42
2:M:397:GLU:H	2:M:633:GLN:CD	2.23	0.42
2:M:513:VAL:HG23	8:M:1203:HOH:O	2.19	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.78	0.42
2:M:993:PHE:CE1	2:M:995:MET:HG2	2.54	0.42
2:M:1041:GLU:HG2	3:N:1462:LEU:HD13	2.01	0.42
2:M:1067:TYR:HE2	5:P:342:VAL:HA	1.85	0.42
3:N:142:LEU:HD11	8:N:9478:HOH:O	2.19	0.42
3:N:144:GLY:HA3	8:N:9078:HOH:O	2.19	0.42
3:N:221:ALA:HB1	8:N:9440:HOH:O	2.20	0.42
3:N:482:LYS:HA	3:N:489:ARG:HH21	1.85	0.42
3:N:633:VAL:C	3:N:635:PRO:HD3	2.40	0.42
3:N:654:LYS:HD3	3:N:674:ARG:NH2	2.32	0.42
3:N:704:ARG:HD2	3:N:705:ALA:N	2.22	0.42
5:P:133:ALA:HA	5:P:142:ARG:NH2	2.35	0.42
5:P:247:ILE:HG22	5:P:251:ILE:CD1	2.45	0.42
1:A:38:ASN:HB3	1:A:39:PRO:HD3	2.01	0.41
1:B:26:GLU:HG3	1:B:194:LYS:NZ	2.35	0.41
1:B:211:LEU:O	1:B:214:ALA:HB3	2.20	0.41
2:C:110:GLU:OE2	2:C:369:PRO:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:142:ARG:NH2	2:C:325:ILE:HD13	2.35	0.41
2:C:216:GLU:HG2	8:C:1241:HOH:O	2.20	0.41
2:C:504:GLU:HG2	2:C:507:ARG:O	2.20	0.41
2:C:543:ASN:ND2	2:C:562:SER:O	2.50	0.41
2:C:901:TYR:CE2	2:C:917:LEU:HD13	2.55	0.41
3:D:3:LYS:CD	3:D:3:LYS:H	2.33	0.41
3:D:470:LEU:HD12	3:D:508:ARG:NH2	2.34	0.41
3:D:628:ARG:HD3	8:D:9382:HOH:O	2.20	0.41
3:D:955:VAL:O	3:D:1039:CYS:HB3	2.20	0.41
1:K:211:LEU:O	1:K:214:ALA:HB3	2.19	0.41
2:M:318:PRO:HD2	2:M:321:GLU:OE1	2.19	0.41
2:M:881:ASN:HD22	2:M:881:ASN:H	1.68	0.41
3:N:62:LYS:HE2	3:N:75:ARG:HH11	1.84	0.41
3:N:109:PRO:HG2	8:N:9287:HOH:O	2.20	0.41
3:N:123:LEU:HD21	8:N:9865:HOH:O	2.20	0.41
3:N:438:ASP:OD1	3:N:440:VAL:HG23	2.20	0.41
3:N:488:ARG:HB3	3:N:488:ARG:CZ	2.50	0.41
3:N:500:ARG:NH1	3:N:1388:ARG:HD2	2.35	0.41
3:N:630:VAL:HG12	3:N:631:ILE:N	2.35	0.41
3:N:972:LEU:HD12	8:N:9750:HOH:O	2.19	0.41
5:P:132:ARG:CZ	5:P:184:ARG:HH12	2.32	0.41
5:P:278:LEU:HB2	5:P:286:PRO:HG2	2.01	0.41
5:P:336:GLU:HG2	5:P:337:HIS:CD2	2.55	0.41
1:A:150:TYR:HB3	8:A:460:HOH:O	2.21	0.41
1:B:20:TYR:HD1	8:B:319:HOH:O	2.03	0.41
2:C:108:ILE:HB	2:C:368:THR:HG1	1.84	0.41
2:C:115:LEU:CD2	2:C:373:VAL:HG11	2.50	0.41
2:C:412:ALA:HB2	2:C:451:LEU:HB3	2.02	0.41
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.55	0.41
2:C:1115:LEU:HB3	3:D:85:VAL:CG1	2.49	0.41
3:D:50:PHE:CD2	3:D:522:PRO:HG3	2.56	0.41
3:D:447:VAL:HG23	3:D:448:GLU:N	2.35	0.41
3:D:637:LEU:HD11	3:D:642:CYS:N	2.35	0.41
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.56	0.41
3:D:820:GLU:HA	3:D:825:ALA:O	2.20	0.41
3:D:961:LYS:HG2	3:D:962:GLN:N	2.35	0.41
3:D:1263:PHE:HD2	3:D:1375:MET:HE2	1.84	0.41
3:D:1299:PHE:CD2	3:D:1299:PHE:N	2.88	0.41
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.47	0.41
1:K:158:ILE:HD11	8:K:4141:HOH:O	2.20	0.41
1:K:173:PRO:HA	1:K:202:ASP:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:172:ILE:HG22	2:M:173:ASP:N	2.35	0.41
2:M:239:PHE:HZ	8:M:1251:HOH:O	2.01	0.41
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.50	0.41
2:M:595:LEU:HD13	2:M:639:GLN:OE1	2.20	0.41
2:M:737:LEU:HD22	2:M:742:VAL:O	2.20	0.41
2:M:964:LYS:O	2:M:968:LEU:HG	2.20	0.41
2:M:984:GLU:OE1	3:N:945:SER:HA	2.20	0.41
3:N:68:PHE:HA	3:N:71:LYS:NZ	2.34	0.41
3:N:223:LEU:N	3:N:365:ASP:O	2.51	0.41
3:N:603:LEU:HA	3:N:606:ILE:HG12	2.02	0.41
3:N:827:ILE:HG23	3:N:837:GLY:HA3	2.02	0.41
3:N:853:VAL:HG22	3:N:858:VAL:HG23	2.01	0.41
3:N:868:TYR:HB2	3:N:873:LEU:HD13	2.01	0.41
3:N:1058:ARG:HG3	3:N:1058:ARG:NH1	2.30	0.41
3:N:1283:ILE:N	3:N:1315:ASP:OD1	2.53	0.41
3:N:1304:LYS:HB3	8:N:9093:HOH:O	2.20	0.41
4:O:94:PRO:HB3	8:O:4372:HOH:O	2.20	0.41
5:P:371:LEU:O	5:P:375:LEU:HB3	2.21	0.41
1:A:63:HIS:HA	8:A:326:HOH:O	2.19	0.41
1:A:227:ASN:HB2	8:A:473:HOH:O	2.18	0.41
2:C:378:LEU:HG	2:C:382:ILE:HD12	2.03	0.41
2:C:437:ARG:NH2	2:C:469:THR:HG22	2.36	0.41
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.21	0.41
2:C:569:VAL:HG23	2:C:635:THR:HG22	2.02	0.41
2:C:620:LEU:HD13	2:C:620:LEU:N	2.36	0.41
2:C:643:VAL:HG12	2:C:644:VAL:O	2.21	0.41
2:C:837:ASP:O	2:C:848:VAL:HG13	2.19	0.41
2:C:1005:MET:O	2:C:1005:MET:HG3	2.20	0.41
3:D:156:GLU:HG3	8:D:9239:HOH:O	2.18	0.41
3:D:211:VAL:HG22	3:D:393:ILE:HG23	2.02	0.41
3:D:521:PRO:C	3:D:525:ARG:HH11	2.24	0.41
3:D:890:VAL:HG13	3:D:926:LYS:CD	2.50	0.41
3:D:1487:VAL:CG1	3:D:1488:ASP:N	2.84	0.41
5:F:153:PRO:CG	5:F:154:LYS:H	2.33	0.41
5:F:370:LYS:HD2	5:F:370:LYS:O	2.19	0.41
5:F:370:LYS:NZ	5:F:371:LEU:HG	2.35	0.41
1:K:64:GLU:OE2	1:K:76:VAL:HA	2.20	0.41
1:L:81:ASN:ND2	1:L:128:HIS:O	2.53	0.41
2:M:19:THR:HG22	2:M:19:THR:O	2.20	0.41
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.36	0.41
2:M:371:LYS:HB2	8:M:1183:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.19	0.41
2:M:768:THR:HB	2:M:771:GLU:CB	2.49	0.41
2:M:861:LEU:HD21	2:M:925:TYR:HE2	1.85	0.41
2:M:874:LEU:O	3:N:1029:ARG:HD2	2.20	0.41
2:M:1056:LYS:O	3:N:624:ASP:HB2	2.21	0.41
3:N:30:GLU:N	8:N:9867:HOH:O	2.52	0.41
3:N:421:LEU:HD23	3:N:421:LEU:O	2.20	0.41
3:N:783:ARG:HH21	3:N:1029:ARG:HG3	1.82	0.41
3:N:974:ILE:H	3:N:974:ILE:HG13	1.75	0.41
3:N:1076:GLY:O	3:N:1079:LYS:HG3	2.20	0.41
3:N:1482:ARG:HB2	3:N:1483:PHE:CD1	2.56	0.41
4:O:54:LEU:HA	4:O:58:PRO:CG	2.51	0.41
5:P:156:VAL:HG23	5:P:157:GLU:N	2.36	0.41
5:P:370:LYS:HD2	5:P:370:LYS:C	2.40	0.41
1:A:26:GLU:HB2	1:A:194:LYS:HA	2.02	0.41
2:C:9:ILE:HD11	2:C:537:LYS:NZ	2.35	0.41
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.55	0.41
2:C:69:LEU:HD12	2:C:97:ARG:HB3	2.02	0.41
2:C:198:ARG:CZ	2:C:228:ALA:O	2.68	0.41
2:C:224:GLU:OE1	2:C:226:VAL:HG12	2.20	0.41
2:C:267:TYR:N	2:C:267:TYR:CD2	2.88	0.41
2:C:425:PHE:O	2:C:429:ASP:OD2	2.39	0.41
2:C:451:LEU:H	2:C:451:LEU:HD12	1.86	0.41
2:C:571:LEU:C	2:C:573:ARG:H	2.22	0.41
2:C:658:GLY:N	2:C:661:SER:OG	2.54	0.41
2:C:679:PHE:CZ	2:C:859:PRO:HD3	2.55	0.41
2:C:713:ARG:HG2	8:C:1811:HOH:O	2.20	0.41
2:C:909:ALA:HB1	2:C:914:ILE:CD1	2.50	0.41
2:C:925:TYR:CD1	2:C:925:TYR:C	2.94	0.41
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.33	0.41
3:D:191:LEU:HD11	8:D:9536:HOH:O	2.19	0.41
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.51	0.41
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.51	0.41
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.41
3:D:1171:VAL:O	3:D:1175:ILE:HG13	2.21	0.41
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.84	0.41
4:E:29:GLN:CB	4:E:33:HIS:NE2	2.83	0.41
5:F:324:GLU:HA	8:F:663:HOH:O	2.19	0.41
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.55	0.41
2:M:620:LEU:HG	8:M:1346:HOH:O	2.20	0.41
2:M:821:GLU:HG2	2:M:822:VAL:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:832:LYS:HD2	8:M:1460:HOH:O	2.21	0.41
2:M:1024:LYS:HG3	8:M:1569:HOH:O	2.21	0.41
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.52	0.41
3:N:10:ILE:HG13	3:N:1434:TRP:CE2	2.55	0.41
3:N:404:GLU:HB3	3:N:414:ARG:CZ	2.50	0.41
3:N:592:THR:HA	8:N:9104:HOH:O	2.20	0.41
3:N:659:LYS:O	3:N:663:GLU:HG3	2.21	0.41
3:N:770:LEU:HD12	3:N:775:GLY:O	2.21	0.41
3:N:875:THR:HG22	3:N:879:ARG:HB2	2.03	0.41
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.35	0.41
5:P:256:ARG:NE	5:P:260:ILE:HD12	2.35	0.41
5:P:392:VAL:HG12	5:P:396:ARG:HB2	2.02	0.41
1:A:29:GLU:HB3	1:A:30:ARG:H	1.70	0.41
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.50	0.41
2:C:163:ILE:HG13	2:C:171:TRP:CH2	2.55	0.41
2:C:299:LYS:HD2	8:C:1273:HOH:O	2.20	0.41
2:C:335:THR:HG23	2:C:461:VAL:HG11	2.03	0.41
2:C:525:SER:O	2:C:529:VAL:HG23	2.19	0.41
2:C:557:ARG:CZ	2:C:879:ARG:HG2	2.50	0.41
2:C:693:GLU:HA	2:C:693:GLU:OE1	2.21	0.41
2:C:697:ARG:O	2:C:699:PHE:N	2.53	0.41
2:C:1004:LYS:O	2:C:1005:MET:C	2.59	0.41
3:D:13:ALA:O	3:D:511:TRP:HB3	2.21	0.41
3:D:187:LYS:HD3	3:D:187:LYS:HA	1.78	0.41
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.50	0.41
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.55	0.41
3:D:786:ILE:HG22	3:D:1026:SER:HB2	2.02	0.41
3:D:817:GLU:HB2	3:D:839:LEU:HD13	2.01	0.41
3:D:1063:GLU:HG3	8:D:9502:HOH:O	2.20	0.41
3:D:1211:MET:HG2	3:D:1213:ARG:H	1.85	0.41
3:D:1364:HIS:ND1	3:D:1365:ASP:N	2.67	0.41
3:D:1423:GLY:HA2	8:D:9248:HOH:O	2.19	0.41
4:E:46:PRO:HD3	8:E:180:HOH:O	2.20	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.77	0.41
5:F:135:ILE:HD13	5:F:135:ILE:O	2.21	0.41
5:F:244:ARG:NH1	5:F:244:ARG:HG3	2.35	0.41
2:M:205:GLU:OE1	2:M:206:THR:N	2.53	0.41
2:M:327:HIS:O	2:M:330:ASN:HB2	2.20	0.41
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.01	0.41
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.86	0.41
8:M:1645:HOH:O	3:N:940:THR:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:42:ASP:O	3:N:49:ILE:HD12	2.21	0.41
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.50	0.41
3:N:151:GLN:HE21	3:N:151:GLN:HB2	1.77	0.41
3:N:169:TYR:HA	3:N:392:SER:CB	2.50	0.41
3:N:171:LEU:HD11	3:N:388:HIS:CB	2.50	0.41
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.56	0.41
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.55	0.41
3:N:565:ILE:HD12	3:N:565:ILE:N	2.20	0.41
3:N:637:LEU:HD11	3:N:642:CYS:CA	2.51	0.41
3:N:702:LEU:HD23	3:N:745:MET:CE	2.51	0.41
3:N:786:ILE:HD12	3:N:1028:ALA:N	2.35	0.41
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.21	0.41
5:P:262:VAL:O	5:P:265:VAL:HB	2.21	0.41
1:A:178:ALA:HB3	1:A:198:ARG:HD3	2.03	0.41
1:A:211:LEU:O	1:A:214:ALA:HB3	2.21	0.41
1:B:29:GLU:HB3	1:B:30:ARG:H	1.75	0.41
1:B:42:ARG:HG2	1:B:42:ARG:NH1	2.35	0.41
2:C:162:ILE:CB	2:C:172:ILE:HD13	2.49	0.41
2:C:207:LEU:HD13	2:C:221:LEU:HD13	2.03	0.41
2:C:332:ARG:HH11	2:C:332:ARG:CB	2.15	0.41
2:C:365:ASP:O	2:C:367:LEU:N	2.54	0.41
2:C:710:ILE:HG12	2:C:758:ARG:HE	1.86	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.87	0.41
3:D:397:LYS:HE2	3:D:399:ARG:NE	2.23	0.41
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.50	0.41
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.39	0.41
3:D:1262:LEU:HD23	3:D:1352:ILE:HA	2.02	0.41
3:D:1274:ILE:CD1	3:D:1334:GLN:HB3	2.50	0.41
5:F:133:ALA:O	5:F:137:GLY:O	2.38	0.41
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.36	0.41
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.85	0.41
1:K:97:VAL:HG12	1:K:99:LEU:HD12	2.01	0.41
1:K:109:VAL:O	1:K:129:ILE:HG12	2.21	0.41
1:L:95:GLN:HE21	1:L:95:GLN:N	2.12	0.41
1:L:100:LEU:HD12	1:L:115:LEU:HD11	2.03	0.41
2:M:139:GLN:HE21	2:M:334:ARG:NH1	2.03	0.41
2:M:305:PRO:HG3	2:M:308:ARG:CZ	2.51	0.41
2:M:383:ARG:NH2	8:M:1405:HOH:O	2.54	0.41
2:M:473:ARG:HE	2:M:531:PHE:HE1	1.67	0.41
2:M:549:PHE:HE2	2:M:887:GLU:N	2.18	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1054:THR:HB	2:M:1055:LEU:H	1.57	0.41
3:N:131:LYS:HZ3	3:N:568:ARG:HB2	1.86	0.41
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.52	0.41
3:N:1485:GLN:H	3:N:1485:GLN:HG2	1.69	0.41
4:O:31:LEU:HD23	4:O:35:PHE:CD1	2.55	0.41
5:P:394:ARG:HA	5:P:397:ILE:CD1	2.37	0.41
1:B:9:PRO:HB3	1:B:25:LEU:HG	2.03	0.41
2:C:30:LEU:HB3	2:C:44:ILE:CD1	2.44	0.41
2:C:123:GLU:HA	8:C:1818:HOH:O	2.21	0.41
2:C:460:ARG:HD2	2:C:485:TYR:CD2	2.56	0.41
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.50	0.41
2:C:952:LEU:HB3	2:C:966:LEU:HD11	2.02	0.41
3:D:8:VAL:O	3:D:1434:TRP:HH2	2.04	0.41
3:D:86:ARG:O	3:D:86:ARG:HG3	2.20	0.41
3:D:587:ARG:HG2	8:D:9367:HOH:O	2.21	0.41
3:D:639:LEU:HD22	3:D:766:ALA:CA	2.50	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.74	0.41
3:D:842:VAL:C	8:D:9557:HOH:O	2.59	0.41
3:D:893:GLU:O	3:D:896:ALA:HB3	2.21	0.41
3:D:1136:LYS:HE3	3:D:1139:ASP:OD2	2.21	0.41
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.36	0.41
3:D:1467:ILE:HD12	3:D:1467:ILE:H	1.86	0.41
5:F:113:ILE:O	5:F:116:LEU:HB2	2.21	0.41
5:F:329:TYR:HE1	8:F:541:HOH:O	2.02	0.41
5:F:421:PHE:C	5:F:423:ASP:N	2.72	0.41
1:K:85:LEU:HB2	1:K:127:LEU:HD21	2.01	0.41
1:K:197:LEU:HD23	1:K:197:LEU:N	2.33	0.41
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.21	0.41
1:L:51:THR:HG22	1:L:89:PHE:CZ	2.56	0.41
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.55	0.41
1:L:105:GLY:HA2	8:L:3583:HOH:O	2.19	0.41
2:M:86:LYS:HG3	2:M:813:VAL:HG12	2.03	0.41
2:M:425:PHE:HZ	3:N:1079:LYS:HB2	1.86	0.41
2:M:612:VAL:HG22	2:M:622:GLU:HG3	2.03	0.41
2:M:671:ASN:ND2	2:M:671:ASN:N	2.69	0.41
2:M:983:ILE:O	2:M:984:GLU:C	2.59	0.41
3:N:500:ARG:HH22	3:N:1388:ARG:HD3	1.85	0.41
3:N:783:ARG:CZ	3:N:783:ARG:HB3	2.50	0.41
3:N:1310:ARG:H	3:N:1310:ARG:HG2	1.61	0.41
3:N:1422:MET:CE	3:N:1426:LYS:HG3	2.50	0.41
5:P:142:ARG:H	5:P:142:ARG:HG2	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:303:ARG:NH2	8:P:3667:HOH:O	2.52	0.41
1:B:72:LYS:HB3	1:B:131:THR:OG1	2.21	0.41
2:C:25:SER:OG	2:C:337:GLY:N	2.50	0.41
2:C:34:VAL:HA	2:C:35:PRO:HD3	1.96	0.41
2:C:416:GLY:HA3	8:C:1572:HOH:O	2.21	0.41
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.97	0.41
2:C:592:LEU:HD23	2:C:592:LEU:HA	1.91	0.41
2:C:860:HIS:N	8:C:1448:HOH:O	2.42	0.41
2:C:873:PRO:HG2	3:D:947:ILE:O	2.20	0.41
2:C:1109:VAL:CG2	3:D:3:LYS:HG2	2.49	0.41
3:D:143:ASN:ND2	3:D:145:VAL:HG12	2.18	0.41
3:D:729:HIS:ND1	3:D:730:PRO:N	2.68	0.41
3:D:761:ILE:HD13	4:E:20:THR:HA	2.02	0.41
3:D:794:GLN:HE21	3:D:794:GLN:HB3	1.50	0.41
3:D:907:GLU:N	3:D:910:SER:OG	2.53	0.41
3:D:965:GLU:HA	3:D:968:ASP:OD2	2.21	0.41
3:D:1472:ILE:HG22	3:D:1474:ALA:N	2.35	0.41
5:F:95:THR:HG22	5:F:96:LEU:HD23	2.03	0.41
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.21	0.41
5:F:192:LEU:O	5:F:192:LEU:HD23	2.21	0.41
5:F:292:ALA:HB1	5:F:299:TRP:O	2.21	0.41
1:L:51:THR:HG23	8:L:4444:HOH:O	2.20	0.41
2:M:87:ASP:HA	8:M:1593:HOH:O	2.20	0.41
2:M:137:VAL:HG22	2:M:391:LEU:O	2.20	0.41
2:M:253:ALA:O	2:M:256:TYR:HB2	2.21	0.41
2:M:575:GLN:HA	2:M:662:GLU:CD	2.41	0.41
2:M:899:GLN:HG3	2:M:901:TYR:OH	2.21	0.41
2:M:910:LYS:NZ	8:M:1254:HOH:O	2.51	0.41
2:M:964:LYS:HD3	8:M:1484:HOH:O	2.20	0.41
2:M:1013:TYR:HB2	5:P:335:ASP:OD2	2.21	0.41
3:N:36:THR:O	3:N:38:LYS:N	2.51	0.41
3:N:206:ARG:O	3:N:206:ARG:HD3	2.19	0.41
3:N:704:ARG:HD3	3:N:738:ALA:HB2	2.03	0.41
3:N:820:GLU:HB2	3:N:836:VAL:HG11	2.01	0.41
3:N:826:PRO:HD2	3:N:829:VAL:HG13	2.03	0.41
3:N:960:LYS:O	3:N:964:LEU:HD12	2.20	0.41
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.20	0.41
4:O:5:GLY:HA2	8:O:3467:HOH:O	2.20	0.41
5:P:140:ARG:O	5:P:144:ILE:HG13	2.20	0.41
5:P:372:ARG:HA	8:P:4564:HOH:O	2.20	0.41
5:P:421:PHE:C	5:P:423:ASP:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:ILE:O	1:A:83:LYS:HG3	2.20	0.41
8:B:347:HOH:O	3:D:688:TRP:HB3	2.19	0.41
2:C:166:PRO:HD3	2:C:265:ARG:NE	2.33	0.41
2:C:325:ILE:HA	8:C:1441:HOH:O	2.21	0.41
2:C:366:SER:O	2:C:371:LYS:HE3	2.20	0.41
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.50	0.41
2:C:881:ASN:ND2	8:C:1494:HOH:O	2.41	0.41
2:C:895:TYR:HD1	2:C:991:GLN:NE2	2.16	0.41
2:C:919:ALA:HA	8:C:1456:HOH:O	2.19	0.41
2:C:1101:THR:OG1	2:C:1109:VAL:HG12	2.21	0.41
3:D:65:ARG:CG	3:D:66:GLN:H	2.24	0.41
3:D:114:THR:HG21	3:D:498:VAL:HG11	2.01	0.41
3:D:127:LEU:CD1	3:D:461:ILE:HD11	2.42	0.41
3:D:411:THR:HG23	8:D:9458:HOH:O	2.20	0.41
3:D:461:ILE:O	3:D:465:LEU:HB2	2.19	0.41
3:D:463:GLN:O	3:D:467:GLU:HG3	2.21	0.41
3:D:470:LEU:HD22	3:D:499:VAL:HG13	2.01	0.41
3:D:569:ASN:O	3:D:573:MET:SD	2.78	0.41
3:D:631:ILE:HG21	3:D:745:MET:CG	2.51	0.41
3:D:667:ALA:HB2	3:D:676:MET:CE	2.38	0.41
3:D:710:ARG:NE	8:D:9123:HOH:O	2.54	0.41
3:D:762:GLN:HE21	4:E:20:THR:CB	2.33	0.41
3:D:783:ARG:NE	3:D:1029:ARG:NE	2.64	0.41
3:D:827:ILE:HB	3:D:828:LYS:HD3	2.01	0.41
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.56	0.41
3:D:999:THR:O	3:D:1003:VAL:HG13	2.21	0.41
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.21	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.03	0.41
3:D:1110:ALA:O	3:D:1111:ASP:C	2.60	0.41
3:D:1300:SER:HB3	8:D:9222:HOH:O	2.20	0.41
3:D:1352:ILE:HG21	3:D:1368:ILE:CG2	2.48	0.41
3:D:1353:GLN:OE1	3:D:1368:ILE:HD11	2.21	0.41
3:D:1365:ASP:O	3:D:1368:ILE:HG13	2.21	0.41
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	2.03	0.41
4:E:70:THR:HG21	4:E:72:ARG:NH2	2.36	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.93	0.41
5:F:84:TYR:O	5:F:88:ILE:HG13	2.20	0.41
5:F:96:LEU:HB2	5:F:97:GLU:OE2	2.21	0.41
5:F:109:GLY:O	5:F:113:ILE:HG13	2.21	0.41
5:F:352:GLU:O	5:F:356:LYS:HG3	2.21	0.41
1:K:14:ARG:CG	1:K:22:GLU:HB2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:100:LEU:HD12	8:K:3405:HOH:O	2.20	0.41
1:K:101:LEU:HG	1:K:113:ASP:C	2.40	0.41
1:K:132:LEU:HD12	1:K:132:LEU:N	2.36	0.41
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.51	0.41
2:M:116:GLY:N	8:M:1773:HOH:O	2.54	0.41
2:M:134:ARG:HE	2:M:393:GLN:C	2.23	0.41
2:M:144:PRO:HB2	2:M:267:TYR:HE1	1.86	0.41
2:M:340:MET:SD	2:M:344:PHE:HB2	2.61	0.41
2:M:353:ARG:HE	2:M:353:ARG:HB2	1.66	0.41
2:M:446:GLY:O	2:M:447:ALA:C	2.58	0.41
2:M:556:ASN:O	2:M:559:LEU:HB3	2.21	0.41
2:M:593:ALA:HB2	8:M:1744:HOH:O	2.20	0.41
2:M:682:TYR:HB3	2:M:689:VAL:HG22	2.02	0.41
2:M:769:PRO:HB2	3:N:65:ARG:NH1	2.36	0.41
2:M:772:ARG:HG3	2:M:773:LEU:N	2.36	0.41
2:M:807:ARG:HB3	8:M:1400:HOH:O	2.21	0.41
2:M:833:LEU:CD1	2:M:837:ASP:HB2	2.51	0.41
2:M:975:TYR:N	2:M:975:TYR:CD1	2.88	0.41
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.19	0.41
2:M:1087:VAL:HG23	3:N:524:LEU:HD21	2.03	0.41
2:M:1097:LEU:HD22	2:M:1097:LEU:N	2.35	0.41
2:M:1109:VAL:CG1	3:N:5:VAL:HG22	2.51	0.41
2:M:1118:LYS:HA	3:N:23:TYR:OH	2.21	0.41
3:N:33:ASN:O	3:N:36:THR:O	2.39	0.41
3:N:110:SER:OG	3:N:113:GLY:N	2.51	0.41
3:N:112:ILE:O	3:N:116:LEU:HB2	2.21	0.41
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.67	0.41
3:N:212:ARG:HD3	3:N:445:ARG:NH1	2.24	0.41
3:N:243:ALA:HB3	8:N:9487:HOH:O	2.20	0.41
3:N:443:VAL:HG12	3:N:445:ARG:HD2	2.02	0.41
3:N:701:LEU:C	3:N:702:LEU:HD12	2.41	0.41
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.50	0.41
3:N:774:SER:HB3	3:N:1362:LYS:O	2.21	0.41
3:N:881:LEU:HD12	3:N:881:LEU:O	2.21	0.41
3:N:891:GLU:N	8:N:9462:HOH:O	2.54	0.41
3:N:948:THR:HG22	3:N:949:ILE:N	2.27	0.41
3:N:1068:LEU:O	3:N:1069:GLU:C	2.59	0.41
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.21	0.41
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.20	0.41
3:N:1168:MET:HE3	3:N:1171:VAL:HB	2.02	0.41
3:N:1223:ILE:O	3:N:1224:VAL:C	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.21	0.41
3:N:1330:ILE:HD13	3:N:1347:TYR:OH	2.21	0.41
3:N:1380:GLU:HB3	3:N:1418:LYS:HB2	2.02	0.41
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.20	0.41
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.86	0.41
5:P:261:PRO:HA	8:P:3364:HOH:O	2.20	0.41
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.89	0.41
5:P:367:MET:N	5:P:367:MET:SD	2.94	0.41
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.21	0.41
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.98	0.41
2:C:41:ASN:ND2	2:C:41:ASN:N	2.57	0.41
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.45	0.41
2:C:137:VAL:O	2:C:391:LEU:HD11	2.21	0.41
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.86	0.41
2:C:308:ARG:HH11	2:C:308:ARG:HG2	1.85	0.41
2:C:313:LEU:HB2	2:C:321:GLU:HG3	2.03	0.41
2:C:328:LEU:H	2:C:433:THR:HG21	1.86	0.41
2:C:474:VAL:HG23	2:C:478:VAL:O	2.21	0.41
2:C:759:THR:HB	2:C:785:VAL:CG2	2.50	0.41
2:C:885:ILE:HD12	3:D:949:ILE:HB	2.02	0.41
2:C:1037:VAL:O	2:C:1041:GLU:HG3	2.20	0.41
2:C:1092:LEU:HD22	2:C:1099:VAL:CG2	2.51	0.41
3:D:120:ALA:HA	8:D:9188:HOH:O	2.20	0.41
3:D:135:LEU:HD11	3:D:139:GLY:HA3	2.02	0.41
3:D:393:ILE:HD12	3:D:393:ILE:N	2.32	0.41
3:D:804:LEU:N	8:D:9497:HOH:O	2.53	0.41
3:D:1133:ARG:HG2	3:D:1134:LEU:N	2.35	0.41
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.51	0.41
3:D:1208:ASP:HB3	8:D:2063:HOH:O	2.21	0.41
3:D:1272:ALA:CB	3:D:1326:THR:HB	2.51	0.41
3:D:1342:GLU:HA	3:D:1346:ARG:NH2	2.36	0.41
3:D:1480:PHE:HD1	3:D:1480:PHE:O	2.02	0.41
5:F:160:ASP:O	5:F:163:LEU:HB2	2.22	0.41
5:F:192:LEU:O	5:F:196:VAL:HG23	2.21	0.41
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.20	0.41
1:K:100:LEU:O	1:K:115:LEU:HG	2.21	0.41
1:K:150:TYR:HA	1:K:169:ALA:O	2.21	0.41
1:L:150:TYR:HA	1:L:169:ALA:O	2.21	0.41
2:M:261:ILE:HG22	2:M:262:ALA:N	2.36	0.41
2:M:304:LEU:HG	2:M:305:PRO:N	2.36	0.41
2:M:401:LEU:HD21	2:M:565:GLN:HE21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.51	0.41
2:M:525:SER:O	2:M:529:VAL:HG23	2.21	0.41
2:M:592:LEU:HD23	2:M:592:LEU:HA	1.85	0.41
2:M:755:LEU:HD11	2:M:792:VAL:HG22	2.03	0.41
3:N:501:ALA:HA	3:N:504:ASP:HB2	2.03	0.41
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.51	0.41
3:N:1173:LEU:HA	8:N:9311:HOH:O	2.21	0.41
3:N:1301:LYS:HA	3:N:1301:LYS:HD2	1.89	0.41
4:O:49:GLN:HA	4:O:51:LEU:O	2.21	0.41
1:A:95:GLN:CG	1:A:146:ARG:HH22	2.19	0.40
1:B:55:SER:OG	1:B:158:ILE:HB	2.21	0.40
1:B:106:PRO:HG3	1:B:133:GLU:O	2.22	0.40
2:C:13:ILE:HG13	2:C:458:TYR:HE2	1.86	0.40
2:C:124:ASP:OD1	2:C:126:SER:N	2.48	0.40
2:C:722:ILE:HD12	2:C:805:ARG:NH2	2.36	0.40
2:C:897:LEU:HD21	2:C:920:GLN:HB3	2.02	0.40
2:C:1018:GLN:HE21	2:C:1060:ILE:CD1	2.34	0.40
3:D:613:ARG:HA	3:D:613:ARG:HD2	1.83	0.40
3:D:900:ILE:HD12	3:D:900:ILE:O	2.21	0.40
3:D:936:TYR:HD1	8:D:9501:HOH:O	2.03	0.40
3:D:988:ARG:O	3:D:992:ILE:HG13	2.20	0.40
3:D:1047:LYS:HE3	3:D:1051:GLU:HB2	2.03	0.40
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.18	0.40
3:D:1068:LEU:HD23	3:D:1068:LEU:O	2.21	0.40
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.87	0.40
3:D:1330:ILE:HD12	3:D:1347:TYR:HE1	1.86	0.40
5:F:115:LYS:HG3	5:F:173:TYR:CE2	2.56	0.40
5:F:272:SER:O	5:F:276:ARG:HG3	2.21	0.40
5:F:339:PRO:HB3	5:F:343:ASP:HB2	2.02	0.40
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.85	0.40
1:L:145:ASP:O	1:L:171:PHE:HE1	2.05	0.40
1:L:152:PRO:HD2	1:L:155:LYS:CD	2.47	0.40
2:M:133:ASP:OD2	2:M:133:ASP:N	2.54	0.40
2:M:299:LYS:HG3	8:M:1137:HOH:O	2.21	0.40
2:M:415:PRO:HB2	2:M:418:LEU:CD1	2.52	0.40
2:M:419:THR:HA	2:M:420:ARG:NH1	2.35	0.40
2:M:510:ALA:CB	8:M:1203:HOH:O	2.67	0.40
2:M:575:GLN:HG2	2:M:662:GLU:OE2	2.21	0.40
2:M:753:ASP:O	2:M:792:VAL:HG23	2.20	0.40
2:M:920:GLN:HG3	8:M:1705:HOH:O	2.21	0.40
2:M:1043:TYR:HA	3:N:710:ARG:NH1	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1115:LEU:N	2:M:1115:LEU:CD1	2.78	0.40
3:N:122:GLU:OE1	3:N:126:VAL:HG23	2.21	0.40
3:N:558:LEU:HB2	8:N:9625:HOH:O	2.21	0.40
3:N:650:LEU:CD1	3:N:691:LEU:HD22	2.51	0.40
3:N:866:VAL:CG1	3:N:867:ARG:N	2.84	0.40
3:N:1209:LEU:C	3:N:1211:MET:N	2.75	0.40
3:N:1426:LYS:NZ	3:N:1430:SER:OG	2.54	0.40
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.44	0.40
2:C:367:LEU:CA	2:C:371:LYS:HB2	2.52	0.40
2:C:536:PRO:HD2	2:C:537:LYS:HD2	2.03	0.40
2:C:668:LEU:O	2:C:993:PHE:CZ	2.74	0.40
2:C:707:ARG:O	2:C:707:ARG:HG2	2.20	0.40
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.40
2:C:971:LYS:HB3	2:C:988:VAL:N	2.36	0.40
2:C:987:ILE:HD12	2:C:987:ILE:N	2.36	0.40
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.20	0.40
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.84	0.40
3:D:118:LEU:CB	3:D:123:LEU:HD22	2.38	0.40
3:D:592:THR:H	3:D:600:LEU:HD21	1.86	0.40
3:D:613:ARG:HG3	8:D:9002:HOH:O	2.21	0.40
3:D:637:LEU:HD21	3:D:642:CYS:CA	2.47	0.40
3:D:1047:LYS:HE3	3:D:1051:GLU:O	2.22	0.40
5:F:124:PRO:O	5:F:128:ARG:HB2	2.21	0.40
5:F:278:LEU:HB2	5:F:286:PRO:HG2	2.02	0.40
1:K:51:THR:HA	1:K:145:ASP:O	2.20	0.40
1:K:59:GLU:HG3	1:K:139:ASN:O	2.21	0.40
1:L:91:ASN:O	1:L:94:LEU:HD12	2.20	0.40
1:L:101:LEU:HG	1:L:113:ASP:O	2.21	0.40
1:L:180:GLN:HB2	1:L:198:ARG:NH2	2.22	0.40
1:L:211:LEU:O	1:L:214:ALA:HB3	2.21	0.40
2:M:250:ARG:HG2	2:M:253:ALA:CB	2.46	0.40
2:M:455:LEU:O	2:M:541:SER:HB2	2.21	0.40
2:M:602:GLU:HG2	2:M:603:VAL:H	1.86	0.40
2:M:904:PRO:HG3	8:M:1508:HOH:O	2.21	0.40
2:M:988:VAL:HG11	3:N:949:ILE:O	2.21	0.40
2:M:1031:ARG:HD3	8:M:1668:HOH:O	2.21	0.40
2:M:1049:LEU:HG	2:M:1053:LEU:CD1	2.51	0.40
8:M:1148:HOH:O	5:P:276:ARG:HD3	2.19	0.40
3:N:13:ALA:O	3:N:511:TRP:HB3	2.21	0.40
3:N:138:LYS:HE3	3:N:138:LYS:HB2	1.87	0.40
3:N:156:GLU:O	3:N:159:ARG:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:432:TYR:HA	3:N:448:GLU:O	2.22	0.40
3:N:488:ARG:HH22	3:N:491:LYS:HZ1	1.70	0.40
3:N:948:THR:HB	8:N:9352:HOH:O	2.20	0.40
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.57	0.40
3:N:1280:VAL:HG13	3:N:1316:GLY:O	2.21	0.40
3:N:1480:PHE:O	4:O:18:ARG:NH2	2.55	0.40
5:P:220:LEU:HB2	5:P:243:ILE:HD11	2.03	0.40
5:P:361:LEU:HD13	5:P:366:ALA:HB1	2.03	0.40
1:B:39:PRO:O	1:B:43:ILE:HG12	2.21	0.40
1:B:218:LEU:O	1:B:222:LEU:HG	2.21	0.40
2:C:75:GLU:HA	2:C:76:PRO:HD3	1.89	0.40
2:C:440:PRO:HG2	2:C:441:VAL:HG23	2.02	0.40
2:C:1001:VAL:HG23	8:C:1823:HOH:O	2.21	0.40
3:D:27:GLU:O	3:D:28:LYS:HD2	2.21	0.40
3:D:105:VAL:HG21	3:D:128:TYR:HE2	1.86	0.40
3:D:150:ARG:O	3:D:150:ARG:HG2	2.20	0.40
3:D:455:ARG:HH22	5:F:140:ARG:HD3	1.86	0.40
3:D:646:LYS:HD3	8:D:2059:HOH:O	2.22	0.40
3:D:884:ARG:O	3:D:888:GLU:N	2.53	0.40
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.57	0.40
3:D:1167:SER:N	3:D:1170:ASP:OD2	2.48	0.40
3:D:1293:PHE:HD2	8:D:9222:HOH:O	2.03	0.40
3:D:1314:LYS:HZ1	3:D:1317:ASP:CB	2.34	0.40
3:D:1320:GLU:HG2	3:D:1339:LYS:NZ	2.36	0.40
3:D:1497:GLU:OE1	3:D:1500:LYS:HD2	2.21	0.40
5:F:312:GLN:NE2	8:F:455:HOH:O	2.48	0.40
1:K:67:THR:OG1	2:M:627:ARG:NH2	2.53	0.40
1:K:127:LEU:HD12	1:K:127:LEU:C	2.42	0.40
1:L:100:LEU:HB2	1:L:115:LEU:CD2	2.49	0.40
2:M:167:LYS:HD2	2:M:168:ARG:NH1	2.35	0.40
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.51	0.40
2:M:621:VAL:HG13	8:M:1199:HOH:O	2.20	0.40
3:N:85:VAL:HG12	3:N:89:ARG:CZ	2.51	0.40
3:N:396:VAL:CG1	3:N:447:VAL:HA	2.52	0.40
3:N:461:ILE:O	3:N:465:LEU:HB2	2.22	0.40
3:N:608:SER:O	3:N:615:ARG:NH1	2.54	0.40
3:N:861:GLN:H	3:N:861:GLN:CD	2.25	0.40
3:N:868:TYR:HB3	8:N:9527:HOH:O	2.20	0.40
3:N:875:THR:CG2	3:N:879:ARG:HE	2.33	0.40
3:N:951:ILE:HD12	3:N:1062:ARG:NE	2.37	0.40
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1266:ARG:NH2	8:N:9590:HOH:O	2.54	0.40
4:O:59:ASN:HB3	4:O:62:THR:OG1	2.22	0.40
5:P:76:SER:O	5:P:80:PRO:CD	2.66	0.40
5:P:109:GLY:O	5:P:112:ALA:HB3	2.21	0.40
5:P:249:ARG:NH2	8:P:2663:HOH:O	2.52	0.40
5:P:273:ARG:HG3	8:P:2904:HOH:O	2.20	0.40
1:B:54:THR:CG2	1:B:158:ILE:HG13	2.50	0.40
1:B:123:MET:O	1:B:125:PRO:HD3	2.21	0.40
1:B:180:GLN:HG3	1:B:196:THR:OG1	2.21	0.40
2:C:150:PRO:HB2	8:C:1325:HOH:O	2.21	0.40
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.51	0.40
2:C:251:ASP:C	2:C:252:LYS:HD2	2.42	0.40
2:C:329:GLY:HA3	8:C:1467:HOH:O	2.21	0.40
2:C:367:LEU:HA	2:C:371:LYS:HB2	2.02	0.40
2:C:432:ARG:NE	2:C:519:GLY:HA3	2.37	0.40
2:C:730:SER:N	8:C:1699:HOH:O	2.54	0.40
2:C:871:LEU:HD23	2:C:871:LEU:HA	1.79	0.40
3:D:53:ILE:HG12	3:D:53:ILE:O	2.22	0.40
3:D:191:LEU:HB2	3:D:211:VAL:CG2	2.51	0.40
3:D:216:VAL:HG11	8:D:9324:HOH:O	2.22	0.40
3:D:500:ARG:HD3	3:D:500:ARG:HA	1.86	0.40
3:D:639:LEU:CD1	3:D:640:HIS:H	2.35	0.40
3:D:755:ALA:HA	3:D:758:GLU:OE2	2.21	0.40
4:E:57:ASP:N	4:E:58:PRO:HD3	2.37	0.40
5:F:225:GLU:OE1	5:F:226:LYS:HG2	2.21	0.40
5:F:325:LYS:HB2	8:F:519:HOH:O	2.22	0.40
5:F:359:SER:C	5:F:361:LEU:H	2.23	0.40
1:L:44:LEU:O	1:L:174:VAL:HG21	2.20	0.40
2:M:331:ARG:HG3	8:M:1502:HOH:O	2.22	0.40
2:M:478:VAL:HG13	2:M:506:ASN:ND2	2.36	0.40
2:M:496:ILE:HD12	2:M:496:ILE:N	2.36	0.40
2:M:507:ARG:NH1	8:M:1728:HOH:O	2.53	0.40
2:M:614:ARG:HG2	8:M:1443:HOH:O	2.20	0.40
2:M:666:LEU:HD12	2:M:667:ALA:N	2.35	0.40
2:M:724:ARG:O	2:M:734:LEU:HD11	2.22	0.40
2:M:908:GLY:C	2:M:910:LYS:HZ3	2.24	0.40
3:N:99:ALA:HB1	3:N:575:GLN:CD	2.42	0.40
3:N:159:ARG:HB2	3:N:159:ARG:NH1	2.36	0.40
3:N:474:GLU:OE1	3:N:500:ARG:NE	2.54	0.40
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.21	0.40
3:N:774:SER:C	3:N:776:GLU:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:951:ILE:HD12	3:N:1062:ARG:HE	1.85	0.40
3:N:970:LYS:O	3:N:974:ILE:HG13	2.21	0.40
3:N:1103:HIS:CG	3:N:1104:GLU:N	2.90	0.40
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.40	0.40
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	2.02	0.40
5:P:401:GLU:O	5:P:405:LEU:HD13	2.21	0.40
1:A:111:ALA:HB3	1:A:124:ASN:O	2.21	0.40
1:B:61:VAL:HG11	1:B:75:VAL:HG21	2.03	0.40
1:B:117:VAL:HG11	8:B:346:HOH:O	2.21	0.40
1:B:150:TYR:HA	1:B:169:ALA:O	2.21	0.40
2:C:585:GLU:HG2	2:C:665:PHE:HD2	1.87	0.40
2:C:693:GLU:OE1	2:C:696:LYS:HG3	2.22	0.40
2:C:966:LEU:HD12	2:C:966:LEU:HA	1.96	0.40
3:D:101:HIS:CE1	3:D:582:LEU:HD22	2.57	0.40
3:D:135:LEU:HD21	3:D:138:LYS:C	2.42	0.40
3:D:417:PRO:HB2	8:D:9616:HOH:O	2.21	0.40
3:D:570:GLU:OE2	3:D:573:MET:HE2	2.22	0.40
3:D:602:SER:O	3:D:606:ILE:HG12	2.22	0.40
3:D:1161:GLU:H	3:D:1161:GLU:HG2	1.67	0.40
3:D:1320:GLU:HG3	8:D:9376:HOH:O	2.20	0.40
5:F:421:PHE:C	5:F:423:ASP:H	2.25	0.40
1:K:26:GLU:HB2	1:K:27:PRO:HA	2.04	0.40
1:K:57:TYR:CD2	1:K:161:ARG:NH1	2.90	0.40
1:K:64:GLU:OE2	1:K:76:VAL:HG22	2.22	0.40
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.22	0.40
2:M:211:LEU:HD21	2:M:311:PHE:HE1	1.87	0.40
2:M:480:THR:HG22	2:M:481:ASP:H	1.86	0.40
2:M:513:VAL:HG12	8:M:1272:HOH:O	2.21	0.40
2:M:1008:ARG:NH2	2:M:1020:PRO:HB3	2.37	0.40
3:N:14:SER:O	3:N:17:LYS:N	2.54	0.40
3:N:789:LEU:HA	3:N:789:LEU:HD23	1.84	0.40
3:N:960:LYS:HG2	3:N:964:LEU:HD12	2.04	0.40
3:N:1102:THR:HG22	3:N:1102:THR:O	2.21	0.40
3:N:1422:MET:HE1	3:N:1426:LYS:HG3	2.02	0.40
5:P:315:VAL:HA	8:P:4638:HOH:O	2.21	0.40
5:P:348:SER:N	8:P:4815:HOH:O	2.53	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%)	202 (89%)	21 (9%)	4 (2%)	8	28
1	B	227/315 (72%)	202 (89%)	21 (9%)	4 (2%)	8	28
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	8	28
1	L	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	8	28
2	C	1117/1119 (100%)	917 (82%)	150 (13%)	50 (4%)	2	8
2	M	1117/1119 (100%)	907 (81%)	159 (14%)	51 (5%)	2	7
3	D	1388/1524 (91%)	1123 (81%)	191 (14%)	74 (5%)	2	6
3	N	1388/1524 (91%)	1110 (80%)	195 (14%)	83 (6%)	1	4
4	E	93/99 (94%)	74 (80%)	16 (17%)	3 (3%)	4	13
4	O	93/99 (94%)	75 (81%)	15 (16%)	3 (3%)	4	13
5	F	341/423 (81%)	283 (83%)	42 (12%)	16 (5%)	2	7
5	P	341/423 (81%)	285 (84%)	40 (12%)	16 (5%)	2	7
All	All	6786/7590 (89%)	5582 (82%)	892 (13%)	312 (5%)	2	7

All (312) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	261	ILE
2	C	262	ALA
2	C	288	ARG
2	C	369	PRO
2	C	425	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	462	ASP
2	C	465	GLY
2	C	548	PRO
2	C	680	ASP
2	C	864	GLY
2	C	908	GLY
2	C	1004	LYS
2	C	1106	ASP
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	385	VAL
3	D	440	VAL
3	D	451	ASP
3	D	504	ASP
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1213	ARG
3	D	1243	THR
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	324	GLU
5	F	326	ASP
5	F	341	PRO
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	288	ARG
2	M	369	PRO
2	M	425	PHE
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	680	ASP
2	M	864	GLY
2	M	908	GLY
2	M	1106	ASP
3	N	31	THR
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	82	LYS
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	440	VAL
3	N	504	ASP
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1213	ARG
3	N	1243	THR
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	P	147	LEU
5	P	153	PRO
5	P	324	GLU
5	P	326	ASP
5	P	390	PHE
1	A	187	GLY
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	170	PRO
2	C	290	LEU
2	C	363	SER
2	C	517	ARG
2	C	626	ARG
2	C	627	ARG
3	D	31	THR
3	D	96	ALA
3	D	120	ALA
3	D	231	VAL
3	D	381	ALA
3	D	415	VAL
3	D	417	PRO
3	D	594	PRO
3	D	609	GLY
3	D	766	ALA
3	D	783	ARG
3	D	803	GLY
3	D	822	ALA
3	D	1389	LEU
4	E	53	GLY
5	F	393	THR
5	F	420	ASP
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	170	PRO
2	M	290	LEU
2	M	363	SER
2	M	517	ARG
2	M	626	ARG
2	M	781	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	96	ALA
3	N	231	VAL
3	N	381	ALA
3	N	415	VAL
3	N	417	PRO
3	N	451	ASP
3	N	594	PRO
3	N	609	GLY
3	N	803	GLY
3	N	822	ALA
3	N	1342	GLU
4	O	53	GLY
5	P	288	TYR
5	P	341	PRO
1	A	106	PRO
1	B	106	PRO
2	C	18	LEU
2	C	40	GLU
2	C	164	PRO
2	C	419	THR
2	C	727	PRO
2	C	781	LYS
3	D	37	LEU
3	D	98	PRO
3	D	161	LEU
3	D	165	LYS
3	D	170	PRO
3	D	424	GLY
3	D	1388	ARG
5	F	97	GLU
5	F	286	PRO
5	F	288	TYR
1	K	106	PRO
2	M	40	GLU
2	M	164	PRO
2	M	419	THR
2	M	455	LEU
2	M	627	ARG
2	M	727	PRO
2	M	1004	LYS
3	N	37	LEU
3	N	98	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	120	ALA
3	N	161	LEU
3	N	165	LYS
3	N	170	PRO
3	N	424	GLY
3	N	533	GLY
3	N	705	ALA
3	N	766	ALA
3	N	783	ARG
3	N	1341	PRO
3	N	1349	VAL
3	N	1385	GLY
3	N	1389	LEU
5	P	97	GLU
5	P	232	ARG
5	P	286	PRO
5	P	393	THR
1	A	188	GLN
2	C	74	GLY
2	C	144	PRO
2	C	180	GLY
2	C	400	PRO
2	C	529	VAL
2	C	905	ILE
3	D	220	ARG
3	D	416	ALA
3	D	522	PRO
3	D	696	HIS
3	D	705	ALA
3	D	808	THR
3	D	1020	LEU
3	D	1137	ARG
3	D	1366	LYS
3	D	1385	GLY
3	D	1446	VAL
5	F	232	ARG
1	K	188	GLN
1	L	106	PRO
2	M	74	GLY
2	M	180	GLY
2	M	413	LEU
2	M	529	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	24	GLY
3	N	110	SER
3	N	220	ARG
3	N	416	ALA
3	N	526	PRO
3	N	530	VAL
3	N	808	THR
3	N	1019	PRO
3	N	1366	LYS
3	N	1388	ARG
5	P	420	ASP
2	C	251	ASP
2	C	272	ALA
2	C	420	ARG
2	C	422	ARG
2	C	1097	LEU
3	D	521	PRO
3	D	526	PRO
3	D	530	VAL
3	D	615	ARG
3	D	924	MET
3	D	1019	PRO
3	D	1390	LEU
5	F	184	ARG
5	F	360	LYS
1	L	188	GLN
2	M	223	ASP
2	M	272	ALA
2	M	574	ALA
2	M	705	ILE
2	M	905	ILE
2	M	1097	LEU
3	N	34	TYR
3	N	407	VAL
3	N	522	PRO
3	N	1137	ARG
3	N	1390	LEU
3	N	1432	LYS
3	N	1446	VAL
2	C	779	GLY
2	C	784	ASP
3	D	24	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	136	ASP
3	D	368	VAL
3	D	1248	GLY
3	D	1306	PRO
5	F	297	PRO
2	M	144	PRO
2	M	251	ASP
2	M	779	GLY
3	N	615	ARG
3	N	833	GLU
3	N	1226	ALA
3	N	1268	PRO
5	P	360	LYS
2	C	53	PRO
2	C	270	GLY
2	C	336	VAL
3	D	407	VAL
2	M	53	PRO
2	M	270	GLY
3	N	670	VAL
3	N	1248	GLY
3	N	1306	PRO
5	P	297	PRO
2	C	79	PRO
3	D	425	GLY
3	D	1064	GLY
3	D	1349	VAL
5	F	167	PRO
3	N	1064	GLY
5	P	167	PRO
2	C	273	GLY
3	D	670	VAL
3	D	1050	GLY
3	D	1379	VAL
2	M	424	GLY
2	M	1079	PRO
3	N	173	PRO
3	N	425	GLY
5	P	314	PRO
2	M	79	PRO
2	M	273	GLY
2	M	336	VAL

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Mol	Chain	Res	Type
3	N	136	ASP
3	N	368	VAL
3	N	521	PRO
3	N	1050	GLY
3	N	509	PRO
2	C	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.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	147 (73%)	55 (27%)	0	1
1	B	202/273 (74%)	163 (81%)	39 (19%)	1	4
1	K	202/273 (74%)	152 (75%)	50 (25%)	0	2
1	L	202/273 (74%)	158 (78%)	44 (22%)	1	3
2	C	941/941 (100%)	734 (78%)	207 (22%)	1	2
2	M	941/941 (100%)	730 (78%)	211 (22%)	1	2
3	D	1123/1279 (88%)	846 (75%)	277 (25%)	0	2
3	N	1123/1279 (88%)	866 (77%)	257 (23%)	1	2
4	E	83/87 (95%)	58 (70%)	25 (30%)	0	1
4	O	83/87 (95%)	64 (77%)	19 (23%)	1	2
5	F	295/370 (80%)	228 (77%)	67 (23%)	1	2
5	P	295/370 (80%)	249 (84%)	46 (16%)	2	8
All	All	5692/6446 (88%)	4395 (77%)	1297 (23%)	1	2

All (1297) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	15	THR
1	A	16	GLN
1	A	19	GLU
1	A	20	TYR
1	A	26	GLU
1	A	28	LEU
1	A	32	PHE
1	A	34	VAL
1	A	44	LEU
1	A	47	SER
1	A	54	THR
1	A	60	ASP
1	A	62	LEU
1	A	66	SER
1	A	73	GLU
1	A	74	ASP
1	A	76	VAL
1	A	77	GLU
1	A	84	GLU
1	A	88	ARG
1	A	89	PHE
1	A	96	THR
1	A	101	LEU
1	A	104	GLU
1	A	113	ASP
1	A	120	VAL
1	A	127	LEU
1	A	137	ARG
1	A	142	VAL
1	A	143	ARG
1	A	156	HIS
1	A	161	ARG
1	A	163	ASN
1	A	165	ILE
1	A	167	VAL
1	A	176	ARG
1	A	180	GLN
1	A	183	ASP
1	A	186	LEU
1	A	188	GLN
1	A	191	ASP
1	A	196	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	197	LEU
1	A	198	ARG
1	A	201	THR
1	A	205	VAL
1	A	206	THR
1	A	211	LEU
1	A	216	GLU
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	5	LYS
1	B	26	GLU
1	B	38	ASN
1	B	55	SER
1	B	62	LEU
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	81	ASN
1	B	87	VAL
1	B	88	ARG
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	99	LEU
1	B	101	LEU
1	B	112	ARG
1	B	119	ASP
1	B	121	GLU
1	B	124	ASN
1	B	128	HIS
1	B	133	GLU
1	B	140	MET
1	B	159	LYS
1	B	161	ARG
1	B	176	ARG
1	B	192	LEU
1	B	197	LEU
1	B	200	TRP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	201	THR
1	B	206	THR
1	B	208	LEU
1	B	209	GLU
1	B	220	GLU
1	B	224	TYR
2	C	5	ARG
2	C	10	ARG
2	C	12	VAL
2	C	15	LEU
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	51	THR
2	C	52	PHE
2	C	71	TYR
2	C	72	ARG
2	C	73	LEU
2	C	81	ASP
2	C	89	THR
2	C	95	TYR
2	C	98	LEU
2	C	100	LEU
2	C	104	ASP
2	C	108	ILE
2	C	110	GLU
2	C	111	ASP
2	C	114	PHE
2	C	115	LEU
2	C	140	ILE
2	C	141	HIS
2	C	149	THR
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	168	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	170	PRO
2	C	177	GLU
2	C	178	PRO
2	C	193	LEU
2	C	198	ARG
2	C	205	GLU
2	C	209	ARG
2	C	216	GLU
2	C	221	LEU
2	C	222	MET
2	C	224	GLU
2	C	229	MET
2	C	237	ARG
2	C	238	LEU
2	C	239	PHE
2	C	243	ARG
2	C	250	ARG
2	C	252	LYS
2	C	257	VAL
2	C	266	ARG
2	C	267	TYR
2	C	275	TYR
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	286	SER
2	C	288	ARG
2	C	290	LEU
2	C	303	PHE
2	C	304	LEU
2	C	309	TYR
2	C	321	GLU
2	C	332	ARG
2	C	334	ARG
2	C	340	MET
2	C	342	ASP
2	C	343	GLN
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	365	ASP
2	C	368	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	384	GLU
2	C	388	ARG
2	C	392	SER
2	C	393	GLN
2	C	394	PHE
2	C	399	ASN
2	C	400	PRO
2	C	408	ARG
2	C	409	ARG
2	C	413	LEU
2	C	420	ARG
2	C	425	PHE
2	C	432	ARG
2	C	451	LEU
2	C	453	THR
2	C	460	ARG
2	C	474	VAL
2	C	479	VAL
2	C	481	ASP
2	C	487	THR
2	C	492	ASP
2	C	496	ILE
2	C	500	ASN
2	C	503	LEU
2	C	504	GLU
2	C	508	ILE
2	C	513	VAL
2	C	523	ILE
2	C	524	VAL
2	C	527	GLU
2	C	532	MET
2	C	533	ASP
2	C	542	VAL
2	C	543	ASN
2	C	548	PRO
2	C	559	LEU
2	C	563	ASN
2	C	564	MET
2	C	566	THR
2	C	575	GLN
2	C	584	GLU
2	C	589	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	605	LYS
2	C	620	LEU
2	C	622	GLU
2	C	633	GLN
2	C	639	GLN
2	C	640	ARG
2	C	645	VAL
2	C	653	ASP
2	C	657	ASP
2	C	663	ASN
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	691	SER
2	C	693	GLU
2	C	697	ARG
2	C	699	PHE
2	C	701	THR
2	C	707	ARG
2	C	722	ILE
2	C	724	ARG
2	C	727	PRO
2	C	729	LEU
2	C	737	LEU
2	C	740	GLU
2	C	749	VAL
2	C	785	VAL
2	C	791	ARG
2	C	799	ILE
2	C	803	THR
2	C	804	VAL
2	C	808	ARG
2	C	814	GLU
2	C	821	GLU
2	C	839	LEU
2	C	841	ASN
2	C	853	LEU
2	C	858	MET
2	C	862	PRO
2	C	863	ASP
2	C	868	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	870	ILE
2	C	878	SER
2	C	881	ASN
2	C	882	LEU
2	C	886	LEU
2	C	900	ARG
2	C	901	TYR
2	C	904	PRO
2	C	907	ASP
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	948	GLU
2	C	950	LEU
2	C	953	VAL
2	C	959	PRO
2	C	969	GLN
2	C	971	LYS
2	C	975	TYR
2	C	978	ARG
2	C	981	GLU
2	C	982	PRO
2	C	984	GLU
2	C	988	VAL
2	C	995	MET
2	C	1006	HIS
2	C	1008	ARG
2	C	1016	ILE
2	C	1017	THR
2	C	1019	GLN
2	C	1021	LEU
2	C	1035	MET
2	C	1052	MET
2	C	1076	VAL
2	C	1079	PRO
2	C	1085	PHE
2	C	1087	VAL
2	C	1092	LEU
2	C	1095	LEU
2	C	1098	ASP
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	1106	ASP
2	C	1109	VAL
2	C	1115	LEU
3	D	3	LYS
3	D	6	ARG
3	D	12	LEU
3	D	17	LYS
3	D	25	GLU
3	D	27	GLU
3	D	29	PRO
3	D	30	GLU
3	D	32	ILE
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	48	ARG
3	D	56	TYR
3	D	58	CYS
3	D	62	LYS
3	D	71	LYS
3	D	74	GLU
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL
3	D	86	ARG
3	D	87	ARG
3	D	89	ARG
3	D	90	MET
3	D	97	THR
3	D	101	HIS
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	117	ASP
3	D	118	LEU
3	D	121	THR
3	D	133	ILE
3	D	136	ASP
3	D	145	VAL
3	D	148	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	170	PRO
3	D	171	LEU
3	D	176	ASP
3	D	185	VAL
3	D	199	LEU
3	D	200	ASP
3	D	204	LEU
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	210	ARG
3	D	389	GLU
3	D	394	LEU
3	D	395	VAL
3	D	411	THR
3	D	413	ASP
3	D	421	LEU
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	451	ASP
3	D	455	ARG
3	D	456	MET
3	D	465	LEU
3	D	466	LYS
3	D	469	ASP
3	D	479	GLU
3	D	481	MET
3	D	483	HIS
3	D	489	ARG
3	D	493	ARG
3	D	497	GLU
3	D	503	LEU
3	D	513	ILE
3	D	521	PRO
3	D	525	ARG
3	D	528	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	529	GLN
3	D	535	PHE
3	D	540	LEU
3	D	542	ASP
3	D	548	ILE
3	D	549	ASN
3	D	565	ILE
3	D	573	MET
3	D	590	PRO
3	D	594	PRO
3	D	597	ASP
3	D	598	ARG
3	D	607	LEU
3	D	613	ARG
3	D	615	ARG
3	D	616	GLN
3	D	617	ASN
3	D	624	ASP
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	652	LEU
3	D	653	PHE
3	D	655	PRO
3	D	660	LYS
3	D	666	ILE
3	D	675	ARG
3	D	676	MET
3	D	681	ARG
3	D	685	ASP
3	D	687	VAL
3	D	688	TRP
3	D	692	GLU
3	D	695	ILE
3	D	702	LEU
3	D	703	ASN
3	D	704	ARG
3	D	710	ARG
3	D	713	ILE
3	D	717	GLN
3	D	719	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	724	GLN
3	D	725	SER
3	D	736	PHE
3	D	739	ASP
3	D	749	VAL
3	D	754	PHE
3	D	762	GLN
3	D	763	MET
3	D	765	SER
3	D	768	ASN
3	D	778	LEU
3	D	783	ARG
3	D	794	GLN
3	D	796	ARG
3	D	797	LYS
3	D	800	LYS
3	D	805	GLU
3	D	810	GLU
3	D	824	ASN
3	D	828	LYS
3	D	829	VAL
3	D	832	ARG
3	D	833	GLU
3	D	838	ARG
3	D	839	LEU
3	D	847	ASP
3	D	858	VAL
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	865	THR
3	D	867	ARG
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	897	TRP
3	D	898	GLU
3	D	902	LEU
3	D	907	GLU
3	D	910	SER
3	D	911	LEU
3	D	914	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	915	VAL
3	D	916	TYR
3	D	922	LEU
3	D	944	THR
3	D	952	ASP
3	D	959	GLU
3	D	961	LYS
3	D	969	ARG
3	D	972	LEU
3	D	985	ASP
3	D	987	GLU
3	D	988	ARG
3	D	997	THR
3	D	1000	THR
3	D	1001	GLU
3	D	1032	PRO
3	D	1033	GLN
3	D	1038	LEU
3	D	1039	CYS
3	D	1042	ARG
3	D	1049	SER
3	D	1051	GLU
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1068	LEU
3	D	1083	ASP
3	D	1087	ARG
3	D	1093	TYR
3	D	1095	THR
3	D	1096	ARG
3	D	1104	GLU
3	D	1109	GLU
3	D	1112	CYS
3	D	1116	ASN
3	D	1124	GLN
3	D	1129	THR
3	D	1144	LEU
3	D	1160	LEU
3	D	1161	GLU
3	D	1164	ARG
3	D	1166	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	1176	LYS
3	D	1182	GLU
3	D	1183	ILE
3	D	1190	SER
3	D	1195	GLN
3	D	1207	TYR
3	D	1210	SER
3	D	1211	MET
3	D	1213	ARG
3	D	1238	MET
3	D	1243	THR
3	D	1251	ASP
3	D	1258	ARG
3	D	1260	ILE
3	D	1262	LEU
3	D	1267	ARG
3	D	1269	LYS
3	D	1280	VAL
3	D	1290	LEU
3	D	1295	GLU
3	D	1299	PHE
3	D	1302	GLU
3	D	1305	LEU
3	D	1306	PRO
3	D	1307	LYS
3	D	1310	ARG
3	D	1314	LYS
3	D	1317	ASP
3	D	1318	TYR
3	D	1320	GLU
3	D	1331	ASP
3	D	1332	PRO
3	D	1337	GLU
3	D	1339	LYS
3	D	1344	VAL
3	D	1346	ARG
3	D	1348	LEU
3	D	1359	GLN
3	D	1363	LEU
3	D	1368	ILE
3	D	1382	THR
3	D	1401	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	1403	LEU
3	D	1406	ARG
3	D	1407	LEU
3	D	1410	GLU
3	D	1415	VAL
3	D	1419	PRO
3	D	1420	LEU
3	D	1421	LEU
3	D	1424	VAL
3	D	1425	THR
3	D	1432	LYS
3	D	1433	SER
3	D	1440	PHE
3	D	1444	THR
3	D	1447	LEU
3	D	1462	LEU
3	D	1463	LYS
3	D	1464	GLU
3	D	1465	ASN
3	D	1466	VAL
3	D	1470	ARG
3	D	1480	PHE
3	D	1481	VAL
3	D	1483	PHE
3	D	1485	GLN
3	D	1488	ASP
3	D	1496	GLU
3	D	1501	GLU
4	E	7	ASP
4	E	10	PHE
4	E	12	MET
4	E	14	ASP
4	E	15	SER
4	E	20	THR
4	E	28	GLN
4	E	29	GLN
4	E	30	LEU
4	E	31	LEU
4	E	32	ARG
4	E	33	HIS
4	E	40	LEU
4	E	42	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	E	45	ARG
4	E	51	LEU
4	E	57	ASP
4	E	58	PRO
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	67	GLU
4	E	81	PRO
4	E	84	ARG
4	E	89	MET
5	F	80	PRO
5	F	83	GLN
5	F	84	TYR
5	F	91	VAL
5	F	96	LEU
5	F	101	GLU
5	F	117	SER
5	F	120	THR
5	F	124	PRO
5	F	125	ASP
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	149	GLU
5	F	170	HIS
5	F	174	LEU
5	F	181	GLU
5	F	185	GLN
5	F	186	HIS
5	F	192	LEU
5	F	194	LEU
5	F	208	SER
5	F	209	PHE
5	F	218	GLN
5	F	220	LEU
5	F	225	GLU
5	F	228	GLU
5	F	233	PHE
5	F	236	SER
5	F	240	THR
5	F	245	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	F	269	ASN
5	F	273	ARG
5	F	281	GLU
5	F	282	LEU
5	F	285	GLU
5	F	288	TYR
5	F	289	GLU
5	F	295	MET
5	F	302	LYS
5	F	313	GLU
5	F	317	LEU
5	F	328	PHE
5	F	329	TYR
5	F	331	ASP
5	F	335	ASP
5	F	336	GLU
5	F	340	SER
5	F	341	PRO
5	F	342	VAL
5	F	347	GLN
5	F	349	LEU
5	F	350	LEU
5	F	353	GLU
5	F	355	GLU
5	F	361	LEU
5	F	365	GLU
5	F	370	LYS
5	F	393	THR
5	F	398	ARG
5	F	399	GLN
5	F	403	LYS
5	F	410	TYR
5	F	412	GLU
5	F	414	ARG
5	F	419	ARG
5	F	420	ASP
1	K	5	LYS
1	K	9	PRO
1	K	12	THR
1	K	14	ARG
1	K	15	THR
1	K	18	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	K	25	LEU
1	K	44	LEU
1	K	45	LEU
1	K	62	LEU
1	K	66	SER
1	K	80	LEU
1	K	88	ARG
1	K	92	PRO
1	K	94	LEU
1	K	96	THR
1	K	100	LEU
1	K	101	LEU
1	K	107	LYS
1	K	108	GLU
1	K	113	ASP
1	K	116	PRO
1	K	119	ASP
1	K	120	VAL
1	K	121	GLU
1	K	127	LEU
1	K	131	THR
1	K	133	GLU
1	K	138	LEU
1	K	140	MET
1	K	154	GLU
1	K	156	HIS
1	K	165	ILE
1	K	167	VAL
1	K	176	ARG
1	K	180	GLN
1	K	184	THR
1	K	185	ARG
1	K	186	LEU
1	K	190	THR
1	K	191	ASP
1	K	193	ASP
1	K	196	THR
1	K	198	ARG
1	K	206	THR
1	K	211	LEU
1	K	219	ARG
1	K	221	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	K	223	THR
1	K	227	ASN
1	L	1	MET
1	L	2	LEU
1	L	3	ASP
1	L	5	LYS
1	L	7	LYS
1	L	9	PRO
1	L	25	LEU
1	L	29	GLU
1	L	30	ARG
1	L	38	ASN
1	L	47	SER
1	L	55	SER
1	L	62	LEU
1	L	63	HIS
1	L	65	PHE
1	L	67	THR
1	L	73	GLU
1	L	77	GLU
1	L	81	ASN
1	L	88	ARG
1	L	89	PHE
1	L	91	ASN
1	L	94	LEU
1	L	95	GLN
1	L	99	LEU
1	L	101	LEU
1	L	110	LYS
1	L	121	GLU
1	L	138	LEU
1	L	140	MET
1	L	141	GLU
1	L	159	LYS
1	L	167	VAL
1	L	176	ARG
1	L	177	VAL
1	L	184	THR
1	L	193	ASP
1	L	201	THR
1	L	206	THR
1	L	213	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	L	216	GLU
1	L	220	GLU
1	L	227	ASN
1	L	229	GLN
2	M	5	ARG
2	M	9	ILE
2	M	22	GLN
2	M	26	TYR
2	M	30	LEU
2	M	31	GLN
2	M	33	ASP
2	M	34	VAL
2	M	39	ARG
2	M	48	PHE
2	M	49	ARG
2	M	51	THR
2	M	55	GLU
2	M	71	TYR
2	M	81	ASP
2	M	91	GLN
2	M	94	LEU
2	M	95	TYR
2	M	98	LEU
2	M	99	GLN
2	M	100	LEU
2	M	105	THR
2	M	107	LEU
2	M	108	ILE
2	M	114	PHE
2	M	115	LEU
2	M	133	ASP
2	M	134	ARG
2	M	140	ILE
2	M	141	HIS
2	M	149	THR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	175	GLU
2	M	177	GLU
2	M	178	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	185	LYS
2	M	193	LEU
2	M	196	LEU
2	M	198	ARG
2	M	205	GLU
2	M	209	ARG
2	M	211	LEU
2	M	221	LEU
2	M	223	ASP
2	M	229	MET
2	M	230	ARG
2	M	233	GLU
2	M	235	LEU
2	M	237	ARG
2	M	239	PHE
2	M	242	LEU
2	M	243	ARG
2	M	246	ASP
2	M	249	LYS
2	M	252	LYS
2	M	254	VAL
2	M	257	VAL
2	M	260	LEU
2	M	267	TYR
2	M	268	ASP
2	M	279	GLU
2	M	281	LEU
2	M	285	LEU
2	M	290	LEU
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	313	LEU
2	M	321	GLU
2	M	322	VAL
2	M	327	HIS
2	M	328	LEU
2	M	332	ARG
2	M	335	THR
2	M	343	GLN
2	M	345	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	348	LEU
2	M	359	MET
2	M	367	LEU
2	M	371	LYS
2	M	379	GLU
2	M	383	ARG
2	M	392	SER
2	M	397	GLU
2	M	400	PRO
2	M	405	ARG
2	M	408	ARG
2	M	413	LEU
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	427	VAL
2	M	443	THR
2	M	448	ASN
2	M	451	LEU
2	M	455	LEU
2	M	460	ARG
2	M	468	ARG
2	M	469	THR
2	M	470	PRO
2	M	480	THR
2	M	481	ASP
2	M	496	ILE
2	M	503	LEU
2	M	507	ARG
2	M	517	ARG
2	M	524	VAL
2	M	527	GLU
2	M	528	GLU
2	M	533	ASP
2	M	544	THR
2	M	545	ASN
2	M	554	ASP
2	M	559	LEU
2	M	564	MET
2	M	571	LEU
2	M	579	VAL
2	M	581	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	586	ARG
2	M	589	ARG
2	M	607	ASP
2	M	614	ARG
2	M	617	ASP
2	M	620	LEU
2	M	627	ARG
2	M	630	ARG
2	M	632	ASN
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	640	ARG
2	M	654	LEU
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	676	ILE
2	M	697	ARG
2	M	699	PHE
2	M	715	THR
2	M	717	LEU
2	M	725	ASP
2	M	727	PRO
2	M	728	HIS
2	M	729	LEU
2	M	737	LEU
2	M	748	GLU
2	M	762	LYS
2	M	772	ARG
2	M	780	GLU
2	M	785	VAL
2	M	788	THR
2	M	799	ILE
2	M	807	ARG
2	M	808	ARG
2	M	820	ARG
2	M	821	GLU
2	M	829	GLN
2	M	834	GLN
2	M	839	LEU
2	M	841	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	861	LEU
2	M	862	PRO
2	M	870	ILE
2	M	881	ASN
2	M	886	LEU
2	M	900	ARG
2	M	907	ASP
2	M	910	LYS
2	M	914	ILE
2	M	916	GLU
2	M	917	LEU
2	M	918	LEU
2	M	923	GLU
2	M	925	TYR
2	M	938	LYS
2	M	939	ARG
2	M	950	LEU
2	M	975	TYR
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	991	GLN
2	M	999	HIS
2	M	1000	MET
2	M	1002	GLU
2	M	1003	ASP
2	M	1008	ARG
2	M	1016	ILE
2	M	1017	THR
2	M	1035	MET
2	M	1041	GLU
2	M	1053	LEU
2	M	1054	THR
2	M	1058	ASP
2	M	1074	GLU
2	M	1076	VAL
2	M	1079	PRO
2	M	1081	VAL
2	M	1087	VAL
2	M	1088	LEU
2	M	1091	GLU
2	M	1092	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	1097	LEU
2	M	1098	ASP
2	M	1099	VAL
2	M	1100	GLN
2	M	1111	ILE
3	N	2	LYS
3	N	3	LYS
3	N	6	ARG
3	N	12	LEU
3	N	15	PRO
3	N	34	TYR
3	N	36	THR
3	N	41	ARG
3	N	52	PRO
3	N	55	ASP
3	N	56	TYR
3	N	71	LYS
3	N	76	CYS
3	N	80	VAL
3	N	82	LYS
3	N	85	VAL
3	N	86	ARG
3	N	87	ARG
3	N	101	HIS
3	N	102	ILE
3	N	107	ASP
3	N	108	VAL
3	N	111	LYS
3	N	112	ILE
3	N	117	ASP
3	N	118	LEU
3	N	123	LEU
3	N	128	TYR
3	N	145	VAL
3	N	147	VAL
3	N	152	LEU
3	N	153	LEU
3	N	162	ARG
3	N	165	LYS
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	172	PRO
3	N	185	VAL
3	N	199	LEU
3	N	200	ASP
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	389	GLU
3	N	394	LEU
3	N	395	VAL
3	N	405	ASP
3	N	411	THR
3	N	413	ASP
3	N	414	ARG
3	N	419	ASP
3	N	421	LEU
3	N	427	VAL
3	N	430	ASP
3	N	432	TYR
3	N	442	ASN
3	N	445	ARG
3	N	448	GLU
3	N	449	SER
3	N	455	ARG
3	N	456	MET
3	N	459	GLU
3	N	463	GLN
3	N	465	LEU
3	N	470	LEU
3	N	473	LEU
3	N	475	LYS
3	N	488	ARG
3	N	493	ARG
3	N	502	PHE
3	N	503	LEU
3	N	513	ILE
3	N	521	PRO
3	N	528	VAL
3	N	530	VAL
3	N	534	ARG
3	N	535	PHE
3	N	549	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	554	LEU
3	N	560	GLN
3	N	567	ILE
3	N	569	ASN
3	N	581	LEU
3	N	590	PRO
3	N	592	THR
3	N	594	PRO
3	N	596	SER
3	N	597	ASP
3	N	601	ARG
3	N	602	SER
3	N	613	ARG
3	N	624	ASP
3	N	628	ARG
3	N	629	SER
3	N	635	PRO
3	N	636	GLN
3	N	639	LEU
3	N	641	GLN
3	N	651	GLU
3	N	666	ILE
3	N	676	MET
3	N	681	ARG
3	N	682	ASP
3	N	688	TRP
3	N	692	GLU
3	N	695	ILE
3	N	703	ASN
3	N	704	ARG
3	N	709	HIS
3	N	710	ARG
3	N	717	GLN
3	N	719	VAL
3	N	721	VAL
3	N	725	SER
3	N	732	VAL
3	N	734	GLU
3	N	736	PHE
3	N	739	ASP
3	N	744	GLN
3	N	754	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	770	LEU
3	N	780	LYS
3	N	781	PRO
3	N	783	ARG
3	N	786	ILE
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	804	LEU
3	N	805	GLU
3	N	823	LEU
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	839	LEU
3	N	841	TYR
3	N	846	PRO
3	N	847	ASP
3	N	850	LEU
3	N	858	VAL
3	N	863	VAL
3	N	865	THR
3	N	867	ARG
3	N	876	SER
3	N	880	ILE
3	N	888	GLU
3	N	892	ASP
3	N	899	LEU
3	N	901	GLN
3	N	914	LEU
3	N	917	GLN
3	N	951	ILE
3	N	952	ASP
3	N	959	GLU
3	N	972	LEU
3	N	975	GLU
3	N	984	THR
3	N	994	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	1005	GLN
3	N	1029	ARG
3	N	1031	ASN
3	N	1042	ARG
3	N	1045	MET
3	N	1051	GLU
3	N	1052	THR
3	N	1058	ARG
3	N	1059	SER
3	N	1062	ARG
3	N	1065	LEU
3	N	1066	THR
3	N	1068	LEU
3	N	1070	TYR
3	N	1071	PHE
3	N	1079	LYS
3	N	1087	ARG
3	N	1090	ASP
3	N	1095	THR
3	N	1096	ARG
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1127	GLU
3	N	1129	THR
3	N	1133	ARG
3	N	1137	ARG
3	N	1144	LEU
3	N	1162	GLU
3	N	1166	LEU
3	N	1173	LEU
3	N	1176	LYS
3	N	1182	GLU
3	N	1183	ILE
3	N	1195	GLN
3	N	1202	GLN
3	N	1207	TYR
3	N	1211	MET
3	N	1219	GLU
3	N	1231	GLU
3	N	1238	MET
3	N	1243	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	1252	ILE
3	N	1254	GLN
3	N	1260	ILE
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1278	ASP
3	N	1285	GLU
3	N	1295	GLU
3	N	1297	GLU
3	N	1299	PHE
3	N	1305	LEU
3	N	1314	LYS
3	N	1331	ASP
3	N	1344	VAL
3	N	1346	ARG
3	N	1348	LEU
3	N	1350	GLU
3	N	1353	GLN
3	N	1355	VAL
3	N	1359	GLN
3	N	1363	LEU
3	N	1365	ASP
3	N	1368	ILE
3	N	1378	TYR
3	N	1380	GLU
3	N	1382	THR
3	N	1383	ASP
3	N	1388	ARG
3	N	1396	GLU
3	N	1401	GLU
3	N	1406	ARG
3	N	1410	GLU
3	N	1415	VAL
3	N	1419	PRO
3	N	1424	VAL
3	N	1432	LYS
3	N	1433	SER
3	N	1440	PHE
3	N	1441	GLN
3	N	1442	ASN
3	N	1460	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	1463	LYS
3	N	1465	ASN
3	N	1466	VAL
3	N	1467	ILE
3	N	1468	LEU
3	N	1485	GLN
3	N	1487	VAL
3	N	1488	ASP
3	N	1493	LYS
3	N	1496	GLU
4	O	10	PHE
4	O	12	MET
4	O	20	THR
4	O	32	ARG
4	O	42	PRO
4	O	43	GLU
4	O	45	ARG
4	O	47	LYS
4	O	51	LEU
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	66	LYS
4	O	69	LEU
4	O	70	THR
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
4	O	89	MET
5	P	83	GLN
5	P	84	TYR
5	P	85	LEU
5	P	91	VAL
5	P	96	LEU
5	P	101	GLU
5	P	108	GLU
5	P	125	ASP
5	P	126	LEU
5	P	135	ILE
5	P	136	LEU
5	P	138	SER
5	P	142	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	P	144	ILE
5	P	149	GLU
5	P	150	THR
5	P	168	LYS
5	P	174	LEU
5	P	176	ILE
5	P	186	HIS
5	P	214	GLN
5	P	218	GLN
5	P	220	LEU
5	P	221	ILE
5	P	241	TRP
5	P	280	GLN
5	P	295	MET
5	P	302	LYS
5	P	318	GLU
5	P	328	PHE
5	P	337	HIS
5	P	338	LEU
5	P	341	PRO
5	P	347	GLN
5	P	350	LEU
5	P	353	GLU
5	P	365	GLU
5	P	370	LYS
5	P	393	THR
5	P	394	ARG
5	P	396	ARG
5	P	399	GLN
5	P	403	LYS
5	P	410	TYR
5	P	419	ARG
5	P	420	ASP

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

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	16	GLN
1	A	38	ASN
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	180	GLN
1	A	188	GLN
1	A	227	ASN
1	A	229	GLN
1	B	95	GLN
1	B	124	ASN
1	B	128	HIS
1	B	163	ASN
2	C	22	GLN
2	C	41	ASN
2	C	102	HIS
2	C	117	HIS
2	C	130	ASN
2	C	139	GLN
2	C	327	HIS
2	C	343	GLN
2	C	374	ASN
2	C	393	GLN
2	C	399	ASN
2	C	431	HIS
2	C	434	HIS
2	C	448	ASN
2	C	538	GLN
2	C	545	ASN
2	C	563	ASN
2	C	565	GLN
2	C	609	ASN
2	C	633	GLN
2	C	639	GLN
2	C	663	ASN
2	C	834	GLN
2	C	841	ASN
2	C	881	ASN
2	C	889	HIS
2	C	899	GLN
2	C	920	GLN
2	C	991	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	66	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	143	ASN
3	D	151	GLN
3	D	507	ASN
3	D	549	ASN
3	D	560	GLN
3	D	575	GLN
3	D	640	HIS
3	D	669	ASN
3	D	703	ASN
3	D	709	HIS
3	D	717	GLN
3	D	748	HIS
3	D	756	GLN
3	D	768	ASN
3	D	794	GLN
3	D	855	HIS
3	D	906	GLN
3	D	917	GLN
3	D	1033	GLN
3	D	1075	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1202	GLN
3	D	1242	HIS
3	D	1323	GLN
3	D	1333	HIS
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1465	ASN
4	E	28	GLN
4	E	37	ASN
4	E	86	GLN
5	F	161	GLN
5	F	218	GLN
5	F	337	HIS
5	F	399	GLN
5	F	402	ASN
1	K	16	GLN
1	K	63	HIS
1	K	81	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	K	124	ASN
1	K	156	HIS
1	K	213	GLN
1	K	227	ASN
1	K	229	GLN
1	L	16	GLN
1	L	38	ASN
1	L	81	ASN
1	L	91	ASN
1	L	95	GLN
1	L	124	ASN
1	L	212	ASN
2	M	22	GLN
2	M	99	GLN
2	M	117	HIS
2	M	139	GLN
2	M	187	ASN
2	M	204	GLN
2	M	343	GLN
2	M	390	GLN
2	M	393	GLN
2	M	431	HIS
2	M	498	GLN
2	M	538	GLN
2	M	543	ASN
2	M	545	ASN
2	M	563	ASN
2	M	565	GLN
2	M	609	ASN
2	M	639	GLN
2	M	663	ASN
2	M	671	ASN
2	M	704	HIS
2	M	834	GLN
2	M	841	ASN
2	M	843	HIS
2	M	860	HIS
2	M	872	ASN
2	M	881	ASN
2	M	889	HIS
2	M	920	GLN
2	M	969	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	M	991	GLN
2	M	999	HIS
2	M	1018	GLN
2	M	1050	GLN
2	M	1100	GLN
2	M	1107	ASN
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	463	GLN
3	N	507	ASN
3	N	552	ASN
3	N	560	GLN
3	N	569	ASN
3	N	703	ASN
3	N	724	GLN
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	909	ASN
3	N	917	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1005	GLN
3	N	1010	ASN
3	N	1014	ASN
3	N	1033	GLN
3	N	1103	HIS
3	N	1172	HIS
3	N	1202	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1374	GLN
3	N	1404	ASN
3	N	1441	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN

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Mol	Chain	Res	Type
5	P	191	ASN
5	P	217	ASN
5	P	218	GLN
5	P	269	ASN
5	P	337	HIS
5	P	399	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%)	-0.38	0 <span style="border: 1px solid black; padding: 2px;">100</span> <span style="border: 1px solid black; padding: 2px;">100</span>	38, 65, 92, 117	0
1	B	229/315 (72%)	-0.27	8 (3%) <span style="border: 1px solid black; padding: 2px;">44</span> <span style="border: 1px solid black; padding: 2px;">34</span>	53, 95, 115, 121	0
1	K	229/315 (72%)	-0.37	0 <span style="border: 1px solid black; padding: 2px;">100</span> <span style="border: 1px solid black; padding: 2px;">100</span>	41, 66, 93, 122	0
1	L	229/315 (72%)	-0.39	3 (1%) <span style="border: 1px solid black; padding: 2px;">77</span> <span style="border: 1px solid black; padding: 2px;">72</span>	52, 94, 114, 127	0
2	C	1119/1119 (100%)	-0.35	8 (0%) <span style="border: 1px solid black; padding: 2px;">87</span> <span style="border: 1px solid black; padding: 2px;">84</span>	23, 81, 110, 119	0
2	M	1119/1119 (100%)	-0.39	6 (0%) <span style="border: 1px solid black; padding: 2px;">91</span> <span style="border: 1px solid black; padding: 2px;">88</span>	27, 79, 109, 122	0
3	D	1392/1524 (91%)	-0.33	12 (0%) <span style="border: 1px solid black; padding: 2px;">84</span> <span style="border: 1px solid black; padding: 2px;">80</span>	17, 68, 113, 130	0
3	N	1392/1524 (91%)	-0.35	16 (1%) <span style="border: 1px solid black; padding: 2px;">80</span> <span style="border: 1px solid black; padding: 2px;">75</span>	27, 69, 110, 138	0
4	E	95/99 (95%)	-0.35	0 <span style="border: 1px solid black; padding: 2px;">100</span> <span style="border: 1px solid black; padding: 2px;">100</span>	47, 85, 115, 133	0
4	O	95/99 (95%)	-0.49	1 (1%) <span style="border: 1px solid black; padding: 2px;">80</span> <span style="border: 1px solid black; padding: 2px;">75</span>	40, 76, 97, 111	0
5	F	345/423 (81%)	-0.40	3 (0%) <span style="border: 1px solid black; padding: 2px;">84</span> <span style="border: 1px solid black; padding: 2px;">80</span>	46, 84, 112, 131	0
5	P	345/423 (81%)	-0.39	5 (1%) <span style="border: 1px solid black; padding: 2px;">75</span> <span style="border: 1px solid black; padding: 2px;">70</span>	54, 87, 112, 125	0
All	All	6818/7590 (89%)	-0.36	62 (0%) <span style="border: 1px solid black; padding: 2px;">84</span> <span style="border: 1px solid black; padding: 2px;">80</span>	17, 77, 111, 138	0

All (62) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	130	ALA	5.1
3	D	1240	THR	4.7
3	N	1243	THR	4.7
3	D	1243	THR	4.5
5	F	145	PRO	4.4
3	N	1248	GLY	4.4
2	C	307	LEU	4.4
1	L	6	LEU	4.0
3	D	1244	GLY	3.8
3	N	1242	HIS	3.5
2	C	92	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
3	N	1249	ALA	3.4
5	P	365	GLU	3.3
5	F	144	ILE	3.2
3	N	802	ALA	3.2
1	L	109	VAL	3.0
4	O	2	ALA	2.9
1	B	5	LYS	2.9
1	B	109	VAL	2.9
2	C	372	LEU	2.9
2	M	372	LEU	2.9
2	C	152	PRO	2.9
3	N	533	GLY	2.7
1	L	1	MET	2.7
5	P	369	LEU	2.7
3	D	128	TYR	2.7
1	B	6	LEU	2.6
1	B	118	ALA	2.6
3	N	1240	THR	2.6
3	N	1246	VAL	2.6
2	M	281	LEU	2.6
2	M	307	LEU	2.6
2	M	306	THR	2.5
5	P	378	GLY	2.5
2	M	101	ILE	2.5
2	C	311	PHE	2.5
3	D	439	LEU	2.5
3	N	179	VAL	2.4
3	N	1398	TRP	2.4
5	P	357	ALA	2.4
5	P	145	PRO	2.4
2	C	819	VAL	2.3
3	N	394	LEU	2.3
3	N	205	TYR	2.3
3	N	165	LYS	2.3
1	B	82	LEU	2.2
1	B	120	VAL	2.2
2	C	281	LEU	2.2
3	N	381	ALA	2.2
3	N	242	LEU	2.2
2	M	359	MET	2.2
3	D	238	PRO	2.2
3	D	446	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	127	LEU	2.1
5	F	93	LEU	2.1
2	C	153	ALA	2.1
3	D	1245	GLY	2.1
3	D	505	SER	2.1
1	B	61	VAL	2.1
3	D	177	ALA	2.0
3	N	425	GLY	2.0
3	D	1305	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
7	MG	N	9002	1/1	0.94	0.13	64,64,64,64	0
7	MG	D	9001	1/1	0.97	0.15	67,67,67,67	0
6	ZN	D	7058	1/1	0.98	0.07	109,109,109,109	0
6	ZN	N	7113	1/1	0.98	0.10	87,87,87,87	0
6	ZN	N	7059	1/1	0.99	0.11	100,100,100,100	0
6	ZN	D	7112	1/1	0.99	0.14	75,75,75,75	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.