



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 08:10 PM GMT

PDB ID : 1IW7
Title : Crystal structure of the RNA polymerase holoenzyme from *Thermus thermophilus* at 2.6Å resolution
Authors : RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2002-04-22
Resolution : 2.60 Å(reported)

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

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

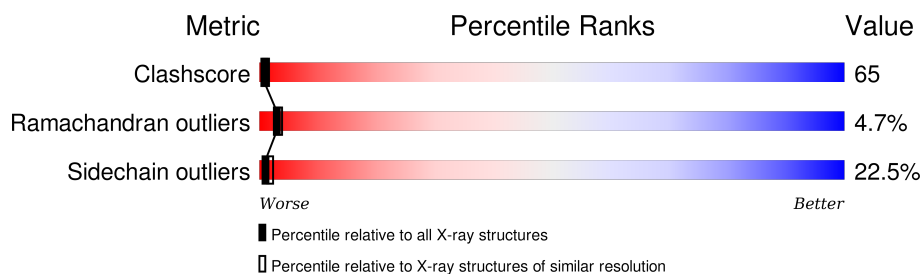
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	102246	2679 (2.60-2.60)
Ramachandran outliers	100387	2635 (2.60-2.60)
Sidechain outliers	100360	2635 (2.60-2.60)

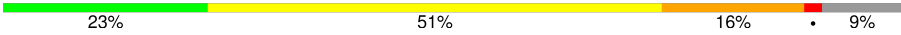
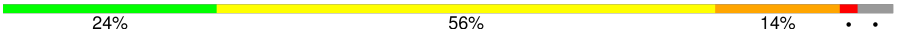

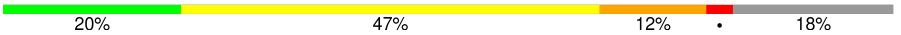
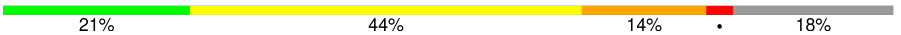
The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey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

Note EDS was not executed.

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

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Mol	Chain	Length	Quality of chain
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 59529 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 RNA polymerase alpha subunit.

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

- Molecule 2 is a protein called RNA polymerase beta subunit.

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

- Molecule 3 is a protein called RNA polymerase beta subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10801	6823	1925	2020	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10801	6823	1925	2020	33			

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

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

- Molecule 5 is a protein called RNA polymerase sigma-70 subunit.

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

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	P	22	Total	Mg	0	0
			22	22		
6	D	118	Total	Mg	0	0
			118	118		
6	K	20	Total	Mg	0	0
			20	20		
6	E	6	Total	Mg	0	0
			6	6		
6	B	24	Total	Mg	0	0
			24	24		
6	C	63	Total	Mg	0	0
			63	63		
6	A	18	Total	Mg	0	0
			18	18		
6	N	92	Total	Mg	0	0
			92	92		
6	O	8	Total	Mg	0	0
			8	8		
6	L	19	Total	Mg	0	0
			19	19		
6	F	31	Total	Mg	0	0
			31	31		
6	M	64	Total	Mg	0	0
			64	64		

- Molecule 7 is LEAD (II) ION (three-letter code: PB) (formula: Pb).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	2	Total	Pb	0	0
			2	2		
7	N	2	Total	Pb	0	0
			2	2		

- Molecule 8 is water.

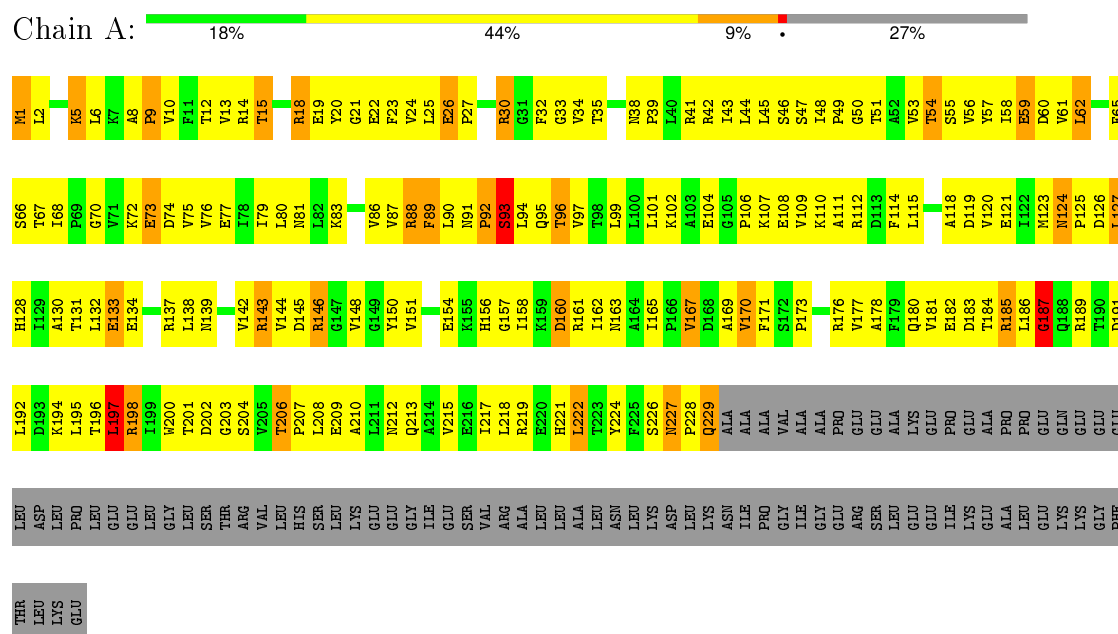
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	194	Total 194	O 194	0	0
8	B	193	Total 193	O 193	0	0
8	C	869	Total 869	O 869	0	0
8	D	1163	Total 1163	O 1163	0	0
8	E	114	Total 114	O 114	0	0
8	F	381	Total 381	O 381	0	0
8	K	161	Total 161	O 161	0	0
8	L	157	Total 157	O 157	0	0
8	M	822	Total 822	O 822	0	0
8	N	983	Total 983	O 983	0	0
8	O	114	Total 114	O 114	0	0
8	P	325	Total 325	O 325	0	0

3 Residue-property plots

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

Note EDS was not executed.

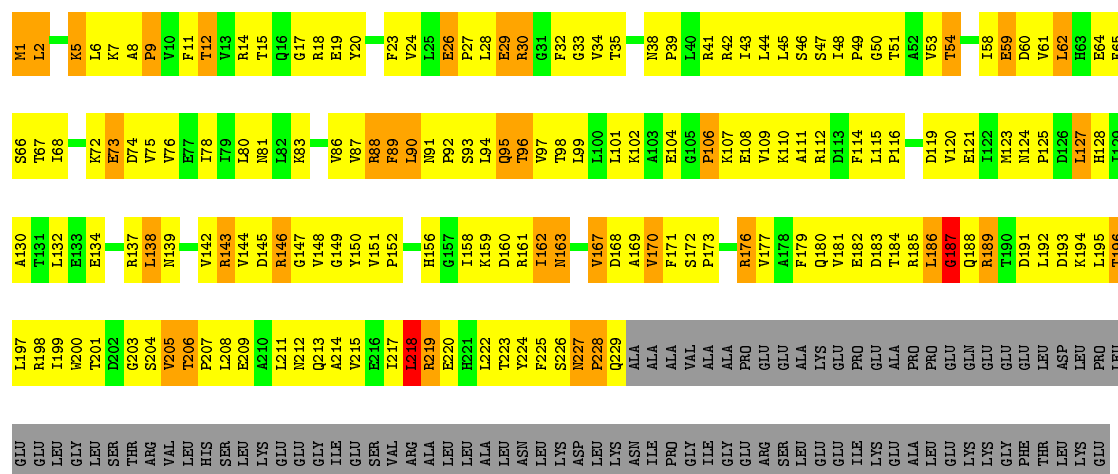
- Molecule 1: RNA polymerase alpha subunit



VAL
LEU
HIS
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LEU
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ARG
ALA
LEU
LEU
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LYS
ASP
LEU
LYS
ASN
ILE
PRO
GLY
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GLY
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PHE
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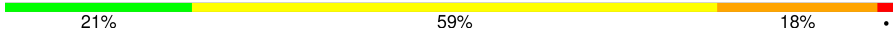
• Molecule 1: RNA polymerase alpha subunit

Chain K: 17% 43% 11% 27%

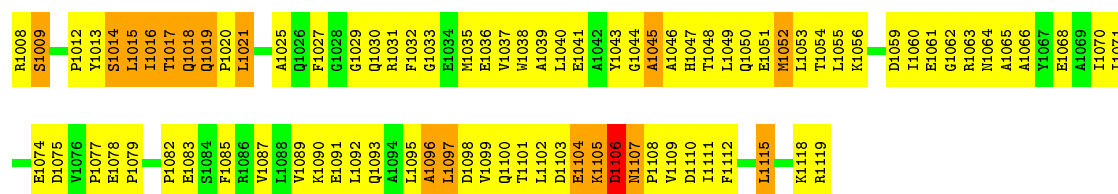


Q1093	R1031	L966	G898	Q834	G763	K696	A636	B573	I508	N448	E384	A315	K488	F127
A1094	F1032	F967	Q899	D837	E766	R697	L637	A574	A609	I449	F385	G316	R189	I128
L1095	G1033	L968	R900	D838	E767	D698	L638	A575	E510	L451	F386	G319	R190	I129
A1096	E1034	Q969	Y901	K838	P767	F699	D639	A576	E511	L452	S387	G320	F191	N130
L1097	M1035	Q970	I902	L839	P768	T700	Q639	V577	R512	I453	K388	R321	P192	G131
D1098	E1036	K971	S903	A840	P769	T701	R640	V578	R513	T453	L391	V322	L193	A132
V1099	V1037		P904	I841	E770	S702	P641	V579	R514	S454	S392	V323	V194	D133
W1000	W1038	Y975	I905	R842	E771	I703	R642	M580	A515	L455	E389	D324	L195	A134
T1001	A1039	D976	F906	H843	E772	H704	V643	F581	R516	L456	S390	D325	L196	V135
L1102	L1040	G977	D907	G844	L773	E705	V644	G582	R517	A457	K395	I325	L197	I136
D1103	E1041	R978	G908	H845	L774	E706	V645	L583	K318	A458	D363	K326	K198	V137
E1104	A1042	T979	A909	K846	R775	R707	G646	L584	G519	A459	E397	H327	V199	S138
V1105	V1043	K980	K910	G847	S776	V708	Q647	E585	E520	R460	T398	K328	K200	Q139
D1106	G1044	E981	E911	H848	I777	E709	R648	R586	P521	V461	K399	E386	G201	I140
N1107	A1045	P982	P912	H849	F778	I710	V649	V587	V522	D462	S402	R331	Y202	H141
P1108	A1046	I983	E913	A850	G779		R650	V588	E523	F588	R332	R332	D203	R142
D1109	H1047	E984	K914	R851	E780	T715	K716	R589	R524	L464	S403	I333	Q204	S143
W1110	T1048	G985	K915	L852	K781	T716	G652	D590	S525	G465	L404	R344	E205	P144
F1111	L1049	P986	E916	L853	A782	L717	D653	S591	P526	F466	R405	T335	T206	G145
F1112	Q1050	I987	L917	R854	R783	G718	L654	L592	E527	L467	H406	V336	L207	V146
L1115	M1052	F926	L918	H855	D784	P719	D657	A593	E528	R468	R407	G337	A208	I147
A1116	L1053	Q920	A919	E856	K786	E720	G658	A594	E530	T469	R409	E338	R209	F148
S1117	T1054	Q991	R989	D857	T787	R721	P659	L595	P531	Y471	R409	K340	E210	T149
K1118	L1055	M992	Y925	T722	T788	T723	A660	Y596	P532	R472	S411	T341	L211	P150
R1119	K1056	F993	F926	R724	S789	S730	S661	E598	D533	R473	A412	D342	L211	D151
	S1057		G927	D725	L790		E662	E599	V534	V474	L413	Q343	E216	P152
	D1058	K996	K928	L726	R791	L734	M663	D600	S535	V475	G414	F344	L217	A153
	P1059	L997	R929	P727	V792	R735	G664	G601	P536	G476	P415	R345	Q219	R154
	I1060	Y998	R932	H728	F793	H729	F665	E602	K537	G477	G416	V346	G220	P155
	R1063	H999	E933	T865	G795	L730	L666	V603	Q538	V478	G417	G347	L221	G156
	H1064	M1000	Q933	P866		S730	A667	A604	V539	V479	L418	L348	M222	V158
	A1065	F934	F934	R867	G798		L668	R605	P540	T480	T419	A349	M222	
	E1066	E1002	D937	D868	I799	L734	Q670	D607	S541	E481	E421	R350	S225	I162
	Y1067	K1004	K938	L870	R305	D736	M671	G608	N543	E483	R422	L351	G226	I163
	I1070	M1005	R939	L871	L806	L737	V672	N609	T544	V484		A352	F227	P164
	I1071	H1006	E940	N872	R807	D738	L673	R610	N545	Y485		V355	M229	L165
	K1072	A1007	V941	P873		E739	V674	R612	L546	M486		R356	R230	P166
	G1073	R1008	E942	L874	D810	E740	A675	V612	T547	T487		E357	P231	K167
	E1074	S1009	V943	G875	P811	G741	L676	V613	P548	A488		K359	E232	R168
	D1075	T1010	L944	V876	G812	V742	M677	R614	P549	T489			E233	G169
	V1076	Y1013	R945	P877	R813	V743	P678	V615	L450	E490			A234	P170
	P1077	S1014	H946	S878	E814	R744	P679	E616	E551	E491		D365	L235	H171
	E1078	L1015	A947	R879	L815		D680	D492		D492		S366	L236	I172
	P1079	I1016	E948	N880	K816	A747	G681	D493	D554	Y493		L367	R237	D173
	S1080	T1017	K949	N881	P817	E748	Y682	L620	A555	F494		T368	R300	L174
	V1081	Q1018	L950	L882	G818	V749	N683	V621	N556	T495		P369	E301	L238
	P1082	Q1019	G951	G883	V819	K750	F684	E622	R557	I496		F302	V302	F239
	E1083	P1020	L952	Q884	R820	P751	E685	Y623	R558	A497		A370	F303	T240
	S1084	L1021	V953	L885	E821	G752	D686	P624	L559	Q498		K371	L304	L241
	F1085	G1022	K957	L886	Y826	L755	A687	L625		A499		V372	P305	E177
	V1087	K1024	T958	E887	Y827	V756	V688	R626	M564	E499		L373	R243	P178
	L1088		H889	R891	A828	G757	V689	R627	Q565	T501		N374	P244	G180
	V1089	F1027	E893	K830	Q829	T759	S691	F628	P502	E502		P377	G245	V181
	K1090	G1028	L963	R831	K930	T759	E892	R629	A568	L503		L378	D246	V182
	E1091	K1029	L964	F896	G832	S760	E893	S631	P570	E504		E379	P247	S183
	L1092	Q1030	E965	L897	L833	K762	L695	Q633	I572	R507		I382	R250	K184
													K252	V186
														I187

• Molecule 2: RNA polymerase beta subunit

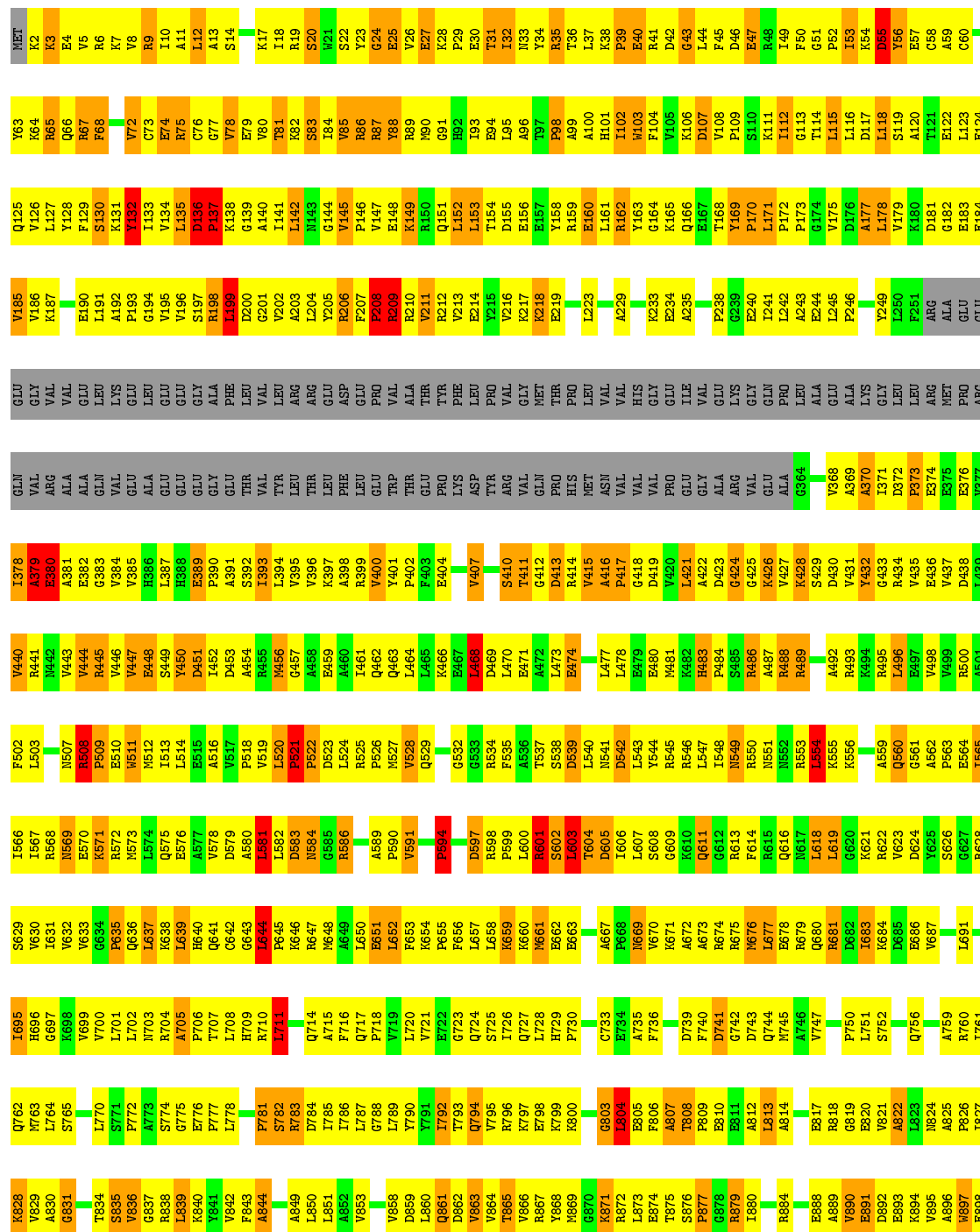
Chain M: 

E942	S878	E814	P751	A687	L625	M563	A497	Y435	L372	L310	K249	K185	T122	M1
V943	R879	L815	G752	V688	R627	N564	Q498	R437	V373	F311	R250	H187	E62	
R944	M880	K816	D753	V689	R627	M564	A498	R437	N374	A312	D251	H188	G63	
R945	M881	P817	L754	I690	R627	Q565	T500	C438	S375	L313	K252	K189	V65	
R946		G818	L755	S691	R630	T566	P502	C439	R376	T314	A253	R189	L66	
	Q884	V819	V756	E692	S631	A567	L503	P440	P377	A315	V254	K190	D67	
	L885	R820	G757	E693	M632	A568	L504	V441	L378	G316	A255	F191	I129	
L950	L886	E821	R758	L694	M632	P569	E504	E442	S379	P318	Y256	P192	N130	
G951	L887	V822	T759	L695	G634	P570	G505	T443	A380	P318	V257	P193	G131	
V953	T888	V823	S760	K696	L634	L571	M506	P443		G319	Y258	V194	A132	
T954	R889	R824	R761	R697	A636	L572	R507	E445		R320	G259	L195	D132	
P955	L880	V825	K762	D698	L637	R573	I508		R383	E321	L260	L196	L73	
	G891	Y826	G763	P699	L637	R573	A509	M448	E384	V322	L261	L197	G74	
T958	L892	E827	E766	Y700	Q639	Q575	A510	L449	F385	D323	A262	L198	E75	
P959	L893	K828	P767	T701	R640	A576	E511	T449	S386	R324	D263	V199	P76	
	G894	Q829	T768		P641	P577	L451	P443	R388	L325	P264	L200	F77	
Q962	F896	K830	P769	T705	V643	V578	V513	L452	S389	D326	R265	G201	A139	
	L897	R831	E770	E706	V643	V579	V514	T453		E327	R266	Y202	F78	
L966	F967	K832	E771	R707	V644	M580	A515	S454	S392	L328	Y267	D203	Q80	
	R968	L833	R772		V645	T581	R516	L455	F394	G329	D268	Q204	D81	
Q969	R900	E711	L773	T710	G646	G582	R517	A456	K395	R330	L269	P144	Q22	
G970	Y901	L839	L774	A712	R648	E584	G519	A457	K395	R331	G270	T206	C83	
K971	L902	A840	R775	A713	V649	E585	E520	A459	D396	R332	E271	L207	E24	
	S903	M841	S776	D714	R650	R586	P521	R460	E397	L333	A272	A208	E85	
Y972	P904	R842	L777	T715	K651	V588	V522	V461	T398	R334	G273	R209	K86	
Y973	L905	H843	F778	K716	G652	V588	I523	D462	P400	V336	R274	E210	Y26	
Y975	P906	L717	G779	L717	L654	R589	V524	L464	L401	G337	Y275	L211	R28	
D976	D907	G718	E780	G718	L654	D590	S525	L464	S402	E338	K276	D151	A29	
G977	G908	G847	R781	P719	L655	S591	P526	G465	S403	L339	E277	Y214	Y90	
R978	A909	V848	A782	E720	A656	L592	E527	F466	L404	R340	E278	G215	Q91	
T979	R979	V849	R783	R721	L657	A593	E528	L467	R405	T341	E279	E216	A92	
G980	E911	A850	D784	T723	G658	A594	V529	R468	H406	D342	L281	L217	P155	
E981	P912	T851	L785	T723	P659	L595	E530	T469	K407	G343	G282	Q219	P157	
P982	E913	L852	R786	R724	A660	V596	E530	P470	R408	D344	L283	G220	Y95	
L983	L914	L853	D787	D725	S661	A597		Y471	R409	R345	R284	L221	P36	
E984	K915	P854	T788	T726	B662	E598	V834	R472	R409	R345	E284	L221	E37	
G985	E916	R855	F727	R726	R663	E599	S535	R472	L410	V346	L285	R222	R38	
P986	L917	E856	L790	R728	G664	D600	P536	R473	S411	G347	L285	R222	R39	
L987	L918	D857	R791	L729	F665	G601	Q538	V474	A412	L348	G287	D223	E40	
Y988	A919	M858	V792	S730	L666	F602		G476	L413	R350	R289	E232	M41	
Y989	Q920	P859	E731	E730	A667	V603	S541	G477	P415	L351	L290	E232	V42	
	A921	R860	G795	E731	R668	A604	V542	V478		A352	A291	E232	G43	
Q990	L861	L861	A732	A732	G669	R605	M543	V479	L418	R353	R292	E232	Q45	
M992	P862	P862	G734	G734	V606	L605	T544	T480	T419	G354	R292	E232	I44	
F993	L863	G798	R735	R735	N671	D607	N545	D480	R419	V355	F293	E232	G46	
L994	G864	G798	L736	L736	V672	G608	F482	G476	L413	R350	L290	E232	A47	
N995	K928	V800	L737	L737	L673	M609	F482	G476	P415	L351	L290	E232	F48	
	R929				L673	M609	F482	G476	P415	L351	L290	E232	E49	
K996	R929	P866	D738	D738	V674	R610	F549	V484	R422	R357	E297	E232	R49	
L997	G931	D868	E739	E739	A675	V611	L550	V485	A423	R358	F298	E232	E50	
Y998	R931	K931	R804	R804	L675	V612	L550	V485	G424	R359	K299	E232	T51	
H999	G932	V669	R805	E740	N671	V612	E551	V486	F425	Q300	F239	E232	F52	
M1000	G933	L870	L806	G741	V672	V613	H552	T487	D426	L241	E301	E232	P53	
V1001	F934	L871	L807	G742	L673	R614	H553	T487	V427	V302	L241	E232	E54	
L1002		L872	R807	V743	D680	V615	D554		R428	F303	L242	E232	E55	
D1003		M872	R808	R744	G681	E616	A595	E491	D429	L304	L242	E232	E56	
K938	D937	P873	G809		V682	D617	M556	E491	G424	P305	L242	E232	E57	
M1005	R938	L874	R810	A747	L683		R557	E493	F425	T368	G245	E232	K59	
	K939	K814	P811	E748	F684	E622	A558	Y494	R432	P369	L307	E232	G60	
	R940	G875	R812	E748	R685	V623	L559	T495	H431	A370	R247	E232	E61	
L1006		V876	R812	V749	R686	G623	M560	T495	T433	K371	R308	E232	E62	
	U1011	R872	V749	V749	R686	R623	M560	T495	T433	K371	R308	E232	E63	



• Molecule 3: RNA polymerase beta subunit

Chain D: 23% 51% 16% 9%



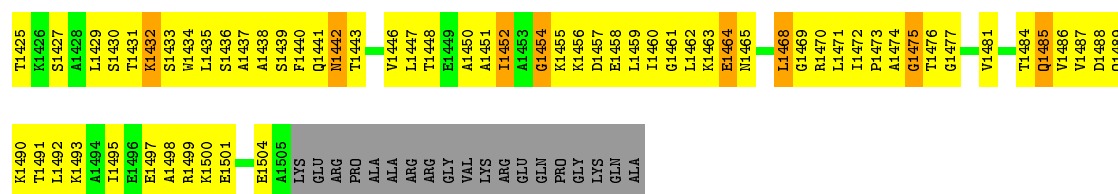
GLU	A192	V126	R65	V1487	V1424	G1360	L1290	A1225	V1155	G1092	R1029	4967	L389
LEU	P193	L127	Q66	D1468	T1425	V1361	EL295	A1226	L1156		G1030		1900
GLU	G194	Y128	R67	Q1489	S1427	L1362	EL295	Q1227	V1158		R1031	D968	Q901
GLY	V195	F129	F68	K1490	K1426	L1363	EL295	Q1227	V1158		P1032	D968	1902
ALA	V196	S130	E69	T1491	A1428	H1364	F1299	I1229	R1159		Q1033	K970	D903
ALA	S197	K131	G70	L1492	L1429	D1365	S1300	G1230	L1160		Q1034	L971	V904
PRO	R198	Y132	K71	K1493	S1430	K1366	K1301	E1231	E1161		H1035	L972	P905
LEU	L199	L133	V72	A1494	T1431	H1367	K1304	P1232	E1162		A1036	Q973	Q906
VAL	D200	I134	C73	A1495	K1432	L1368	K1304	P1232	E1162		Q1037		Q907
LEU	G201	E74	R9	T1495	K1432	H1368	L1306	Q1233	G1163		Q1037		Q908
ARG	V202	D136	R75	E1496	S1433	L1369	L1306	Q1233	R1164		H1038	Q976	1909
ARG	A203	P137	C76	E1497	V1434	L1369	P1306	Q1235	V1165		G1039	A977	1910
GLY	K138	K137	G77	R1498	A1435	V1372	K1307	L1236	L1166		G1040	Y978	S910
ASP	Y205	G139	V78	R1499	S1436	V1373	E1308	T1237	S1167		L1041	E979	1911
GLU	R206	A140	E79	K1500	A1437	Q1374	A1309	M1238	M1168		K1042		1914
PRO	F207	V141	V80	E1501	A1438	M1375	R1310	R1239	D1169		G1043	F982	V915
VAL	P208	L142	T81	A1502	S1439	M1376	L1311	R1240	D1170		L1044	L983	Y916
ALA	R209	K143	K82	V1503	F1440	K1377	L1312	F1241	V1171		M1045	T984	1917
THR	R210	E144	S83	E1504	Q1441	Y1378	V1313	H1242			Q1046	D985	1918
THR	V211	V145	I84	A1505	T1442	V1379	K1314	T1243	E1179		K1047	R986	1919
PRO	R212	P146	V85	LYS	T1443	E1380	D1315	G1244			P1048	E987	1920
LEU	V213	V147	R86	GLU	T1444	V1381	G1316	G1248	E1182		S1049	Y988	1921
LEU	E214	E148	R87	ARG	H1445	D1382	D1317		I1183		G1050	D989	1922
VAL	Y215	K149	Y88	PRO	V1446	D1383	Y1318		T1115		E1051	1991	1923
GLY	V216	R150	R89	ALA	A1451	P1384	V1319	D1251	V1186		T1052	1992	1924
MET	E217	Q151	M90	ALA	T1452	G1385	E1320	T1252	P1187		F1053	1993	1925
THR	K218	L152	G91	ARG	T1452	D1386	Q1323	T1253	V1188		P1056	Q994	1926
PRO	E219	L153	R92	GLY	A1453	S1387	P1324	P1257	R1189		V1057	1995	1930
LEU	R220	T154	I93	VAL	G1454	R1388	L1325	R1258	S1190		R1058	Y996	1931
VAL	A221	D155	E94	LYS	K1455	L1389	T1326	V1259	P1191		S1059	T997	1932
VAL	L227	E156	L95	ARG	D1457	E1391	R1327	I1260	L1192		S1060	E998	1933
HIS	A228	E157	A96	GLU	E1458	Q1392	R1327	E1261	G1194		F1061	T999	1934
GLY	K233	Y159	T97	GLN	L1459	G1393	I1330	L1262	Q1195		R1062	1999	1935
ILE	E234	L161	P88	PRO	L1460	V1394	D1331	P1268	P1125		L1065	K1001	Y936
VAL	P238	Y163	H01	GLY	G1461	L1395	P1332	E1264	E1127		L1066	K1002	Y937
LYS	G239	Q166	I102	LYS	L1462	E1396	H1333	A1265	Y1198		T1067	V1003	Y938
GLY	E240	E167	W103	ALA	K1463	K1397	L1336	R1266	G1199		T1067	T1004	Y939
PRO	I241	T168	F104	ALA	E1464	D1398		R1267	V1200		L1068	Q1005	Y940
LEU	L242	Y169	P170	GLN	E1465	D1399	K1339	P1268	Q1201		E1069	Q1005	Y941
ALA	A243	P171	V108	ALA	L1466	V1400	G1340	K1270	Q1202		Y1070	V1007	Y942
ALA	P246	P172	V109	ALA	L1467	E1401	G1340	A1270	K1203		S1073	F1008	1946
LYS	Y249	P173	K111	ALA	L1472	R1406	E1345	S1275	S1209		S1074	K1009	1947
GLY	L250	A177	I112	LEU	P1473	L1407	P1346	E1276	M1211		G1076	F1011	Y948
LEU	P251	L178	G113	LEU	A1474	L1408	L1348	I1277	A1212		S1077	E1012	1949
ARG	ALA	V179	T114	LEU	G1475	A1409	L1348	D1278	R1213		K1079	M1014	1951
MET	GLU	K180	L115	ARG	T1476	E1410	V1349	G1279	G1081		G1080	P1016	D952
PRO	ALA	D181	L116	ARG	G1477	G1411	E1350	V1280	P1214		F1017	F1017	Y954
ARG	GLU	G182	D117	PRO	S1478	K1412	E1350	V1281	V1215		A1082	M1018	Y955
GLN	GLU	L118	L118	ARG	D1479	T1413	I1352	R1282	S1216		D1083	P1019	Y956
VAL	GLY	S119	S119	GLN	F1480	P1414	Q1353	G1283	R1147		T1084	L1020	P957
VAL	GLY	A120	Y56	VAL	V1481	V1415	K1354	E1284	G1218		A1085	Y1021	Y958
ARG	VAL	T121	E57	VAL	V1482	A1416	V1355	E1285	A1220		L1086	V1022	Y959
ALA	VAL	E122	C58	VAL	F1483		Y1356	T1286	V1221		T1088	M1023	Y960
ALA	GLU	L123	A59	VAL	T1484	L1421	R1357	E1287	G1222		A1089	S1026	Y961
GLN	LEU	E124	Q1485	VAL	Q1485	M1422	A1358	E1288	V1153		D1090	G1027	Y962
VAL	LNS	L191	Q125	VAL	V1486	G1423	Q1359	K1289	V1224		S1091	A1028	1964

• Molecule 3: RNA polymerase beta subunit

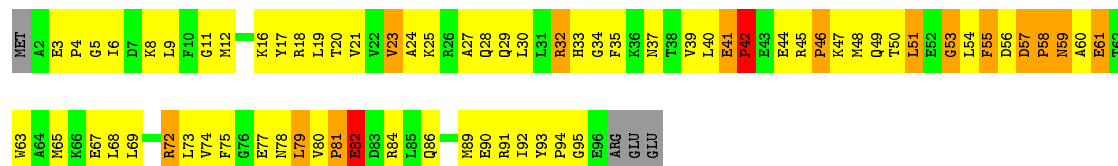
Chain N:  23% 51% 16% 9%

GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LEU	GLU	LE
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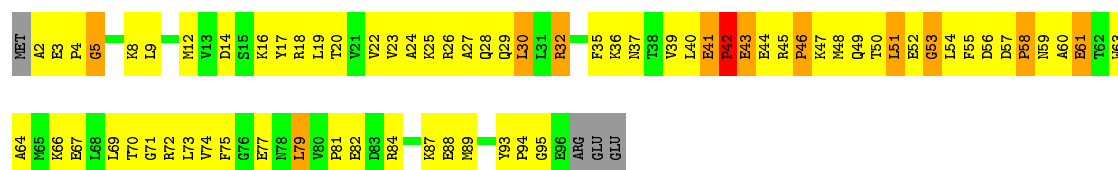
WORLDWIDE
PDB
PROTEIN DATA BANK



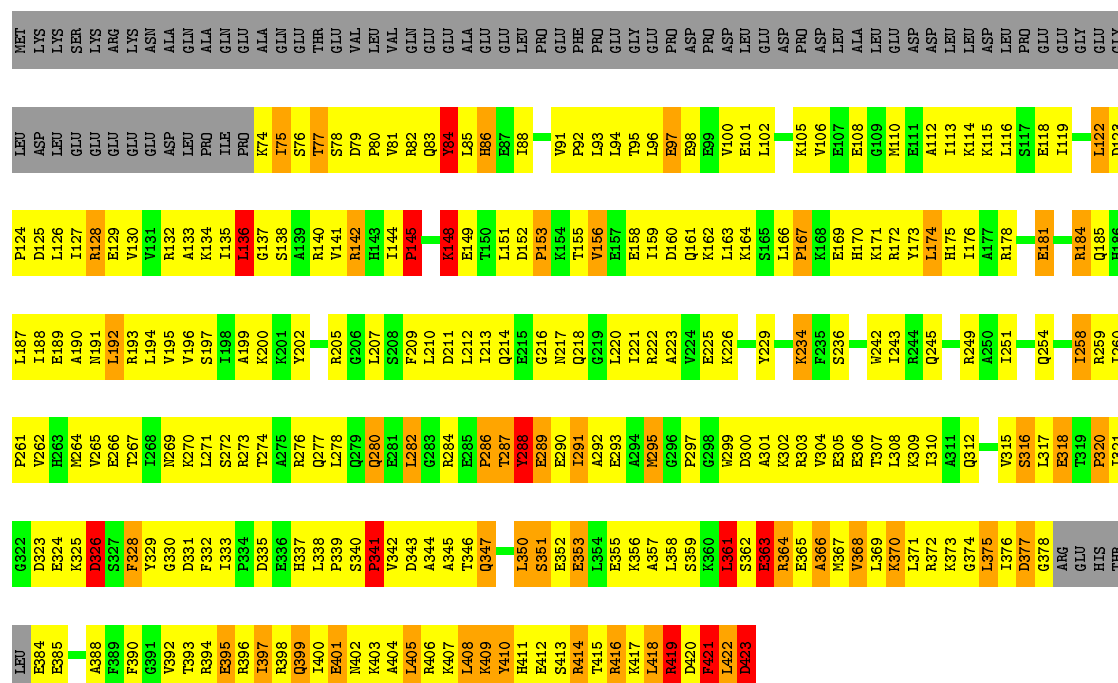
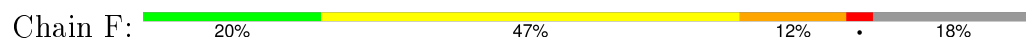
• Molecule 4: RNA polymerase omega subunit




• Molecule 4: RNA polymerase omega subunit



• Molecule 5: RNA polymerase sigma-70 subunit



● Molecule 5: RNA polymerase sigma-70 subunit

Chain P:  21% 44% 14% 18%

WET	LEU	L126	E189	P261	I326	F390
LYS	ASP	I127	A190	P262	S327	G391
LYS	LEU	E128	M191	H263	F328	V392
SER	GLU	L129	L192	M264	G330	T393
LYS	GLU	V130	V265	V266	D331	E394
ARG	GLU	V131	L194	E266	F332	E395
LYS	GLU	R132	V195	T267	I333	R396
ASN	GLU	A133	V196	A268	P334	I397
ALA	ASP	K134	S197	M269	D335	Q398
GLN	LEU	I135	I198	T270	E336	Q399
ALA	PRO	L136	A199	L271	H337	I400
GLN	ILE	G137	K200	T274	L338	E401
GLU	PRO	S138	G204	A275	P339	N402
ALA	K74	A139	R205	R276	S340	K403
GLN	I75	R140	G206	Q277	P341	A404
GLU	S76	V141	L207	L278	V342	L405
THR	T77	R142	S208	Q279	D343	R406
GLU	S78	H143	F209	Q280	A344	K407
VAL	D79	I144	L210	E281	Q347	L408
LEU	P80	P145	L211	L282	S348	K409
VAL	V81	L146	L212	G283	L349	T410
GLN	R82	L147	I213	R284	L349	H411
GLU	Q83	K148	Q214	E285	L350	E412
GLU	Y84	E149	E215	P286	S351	S413
ALA	L85	T150	G216	T287	L354	R414
GLU	H86	L151	N217	Y288	E355	T415
GLU	E87	D152	Q218	E289	A366	R416
LEU	I88	P153	G219	E290	M367	K417
PRO	G89	K154	L220	I291	L368	L418
GLU	Q90	T155	T221	A292	L369	R419
PHE	V91	V156	R222	L293	K370	D420
PRO	P92	I159	A223	M295	L371	F421
GLU	L93	D160	V224	G296	R364	L422
GLY	L94	Q161	E225	P297	E365	D423
GLU	T95	P162	K226	G298	A366	
PRO	L96	L163	R232	H299	A366	
ASP	E97	K164	F233	D300	M367	
PRO	E98	S165	R234	A301	L368	
ASP	E99	L166	F235	R303	L369	
LEU	V100	P167	S236	V304	K370	
GLU	E101	K168	A239	E305	L371	
ASP	L102	E169	T240	E306	R372	
PRO	K105	H170	W241	L307	K373	
ASP	V106	K171	W242	K309	G374	
LEU	M110	Y173	I243	I310	L375	
ALA	M110	L174	R249	P314	I376	
GLU	I113	H175	R249	V315	D377	
ASP	K114	I176	A250	V315	G378	
LEU	S117	R178	I251	L317	ARG	
LEU	E118	A252	D253	E318	GLU	
ASP	I119	E181	R256	T319	HIS	
LEU	T120	A182	T257	P320	THR	
PRO	G121	R184	I258	I321	LEU	
GLU	L122	L187	R259	E324	E384	
GLY	D123	I188	I260	K325	E385	
GLY	P124				A388	
GLY	D125				F389	

4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section will therefore be incomplete.

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	236.35Å 236.35Å 249.04Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.00 – 2.60	Depositor
% Data completeness (in resolution range)	(Not available) (40.00-2.60)	Depositor
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.228 , 0.274	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	59529	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: PB, 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	0.68	0/1838	0.87	4/2498 (0.2%)
1	B	0.68	0/1838	0.85	7/2498 (0.3%)
1	K	0.66	1/1838 (0.1%)	0.85	5/2498 (0.2%)
1	L	0.67	0/1838	0.90	4/2498 (0.2%)
2	C	0.72	3/8997 (0.0%)	0.97	30/12164 (0.2%)
2	M	0.73	2/8997 (0.0%)	0.97	26/12164 (0.2%)
3	D	0.71	8/10979 (0.1%)	1.01	52/14844 (0.4%)
3	N	0.73	6/10979 (0.1%)	1.02	38/14844 (0.3%)
4	E	0.72	0/783	1.01	2/1054 (0.2%)
4	O	0.71	0/783	1.02	2/1054 (0.2%)
5	F	0.90	8/2812 (0.3%)	1.08	20/3781 (0.5%)
5	P	0.85	4/2812 (0.1%)	1.12	20/3781 (0.5%)
All	All	0.73	32/54494 (0.1%)	0.99	210/73678 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	D	0	3
3	N	0	3
5	F	0	1
All	All	0	7

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	401	GLU	CG-CD	13.42	1.72	1.51
5	F	401	GLU	CB-CG	13.27	1.77	1.52
5	P	401	GLU	CG-CD	13.01	1.71	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	P	401	GLU	CB-CG	12.94	1.76	1.52
5	F	423	ASP	C-OXT	11.47	1.45	1.23
5	F	419	ARG	CB-CG	8.88	1.76	1.52
5	P	423	ASP	C-OXT	8.52	1.39	1.23
3	D	380	GLU	C-N	-7.36	1.17	1.34
5	F	350	LEU	CG-CD1	-7.22	1.25	1.51
3	N	380	GLU	C-N	-7.18	1.17	1.34
1	K	229	GLN	C-O	6.39	1.35	1.23
3	D	378	ILE	C-O	6.24	1.35	1.23
2	M	264	PRO	CB-CG	-6.12	1.19	1.50
3	N	177	ALA	CA-CB	-6.04	1.39	1.52
3	N	372	ASP	C-N	6.03	1.45	1.34
5	F	419	ARG	CG-CD	5.98	1.66	1.51
3	D	372	ASP	C-N	5.85	1.45	1.34
5	P	421	PHE	CB-CG	-5.71	1.41	1.51
3	D	380	GLU	C-O	5.63	1.34	1.23
3	N	378	ILE	C-O	5.47	1.33	1.23
2	M	291	ALA	CA-CB	-5.47	1.41	1.52
3	D	379	ALA	C-N	-5.37	1.21	1.34
3	N	1101	VAL	CB-CG2	-5.34	1.41	1.52
2	C	58	ASP	CA-C	-5.33	1.39	1.52
3	N	380	GLU	C-O	5.26	1.33	1.23
5	F	366	ALA	CA-CB	-5.25	1.41	1.52
2	C	291	ALA	CA-CB	-5.23	1.41	1.52
3	D	245	LEU	C-N	-5.17	1.24	1.34
3	D	208	PRO	CA-C	5.10	1.63	1.52
3	D	891	GLU	CB-CG	5.08	1.61	1.52
5	F	363	GLU	CB-CG	5.02	1.61	1.52
2	C	57	GLU	CG-CD	-5.01	1.44	1.51

All (210) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	229	GLN	CA-C-O	17.63	157.12	120.10
5	P	416	ARG	NE-CZ-NH1	13.69	127.14	120.30
2	C	243	ARG	C-N-CD	-12.01	94.19	120.60
2	M	163	ILE	C-N-CD	-11.12	96.14	120.60
3	D	380	GLU	CA-C-O	-11.07	96.85	120.10
5	P	419	ARG	NE-CZ-NH1	10.92	125.76	120.30
2	C	163	ILE	C-N-CD	-10.81	96.81	120.60
3	N	380	GLU	CA-C-O	-10.59	97.86	120.10
3	D	603	LEU	CA-CB-CG	-10.39	91.41	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	199	LEU	CA-CB-CG	-10.29	91.64	115.30
5	F	361	LEU	CA-CB-CG	10.04	138.40	115.30
2	M	243	ARG	C-N-CD	-9.86	98.92	120.60
3	D	199	LEU	CA-CB-CG	-9.77	92.84	115.30
5	F	423	ASP	CA-C-O	9.62	140.29	120.10
3	D	637	LEU	CA-CB-CG	9.56	137.29	115.30
2	C	49	ARG	NE-CZ-NH1	9.17	124.89	120.30
3	D	171	LEU	CA-CB-CG	9.13	136.31	115.30
5	F	84	TYR	CA-CB-CG	8.73	129.98	113.40
3	N	639	LEU	CA-CB-CG	8.71	135.34	115.30
5	P	423	ASP	CB-CG-OD2	8.63	126.07	118.30
3	N	380	GLU	CA-C-N	8.43	135.75	117.20
2	C	269	LEU	CA-CB-CG	8.42	134.66	115.30
3	D	380	GLU	CA-C-N	8.35	135.57	117.20
5	P	410	TYR	CA-CB-CG	-8.34	97.56	113.40
3	N	132	TYR	CA-CB-CG	-8.26	97.70	113.40
3	N	1124	GLN	C-N-CD	-8.22	102.51	120.60
3	D	208	PRO	N-CA-C	8.04	133.01	112.10
3	D	378	ILE	CA-C-N	8.00	134.81	117.20
3	N	1420	LEU	CA-CB-CG	7.98	133.66	115.30
3	N	637	LEU	CA-CB-CG	7.95	133.58	115.30
3	N	378	ILE	CA-C-N	7.88	134.53	117.20
3	D	831	GLY	N-CA-C	-7.85	93.47	113.10
3	N	831	GLY	N-CA-C	-7.81	93.58	113.10
2	C	18	LEU	CA-CB-CG	-7.76	97.46	115.30
3	N	208	PRO	N-CA-C	7.54	131.72	112.10
5	F	421	PHE	CB-CG-CD2	-7.54	115.52	120.80
2	M	319	GLY	N-CA-C	-7.53	94.28	113.10
5	P	411	HIS	CB-CA-C	7.53	125.45	110.40
3	D	639	LEU	CA-CB-CG	7.48	132.50	115.30
5	F	136	LEU	CA-CB-CG	7.47	132.47	115.30
1	A	229	GLN	CA-C-O	7.43	135.71	120.10
2	M	360	LEU	CA-CB-CG	7.42	132.36	115.30
3	D	554	LEU	CA-CB-CG	7.40	132.33	115.30
5	F	410	TYR	CA-CB-CG	-7.35	99.43	113.40
1	B	229	GLN	CA-C-O	7.31	135.45	120.10
5	F	401	GLU	OE1-CD-OE2	-7.27	114.58	123.30
2	C	319	GLY	N-CA-C	-7.24	95.00	113.10
5	P	419	ARG	NH1-CZ-NH2	-7.18	111.50	119.40
3	D	1124	GLN	C-N-CD	-7.11	104.97	120.60
3	N	209	ARG	N-CA-C	6.98	129.84	111.00
3	D	209	ARG	N-CA-C	6.97	129.82	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	100	LEU	CA-CB-CG	6.93	131.23	115.30
3	N	1126	ASP	N-CA-C	6.84	129.48	111.00
4	O	49	GLN	N-CA-C	6.81	129.40	111.00
3	D	739	ASP	CB-CG-OD1	6.79	124.42	118.30
5	F	184	ARG	NE-CZ-NH2	-6.67	116.97	120.30
3	D	132	TYR	CA-CB-CG	-6.65	100.77	113.40
4	E	49	GLN	N-CA-C	6.63	128.91	111.00
3	D	644	LEU	CA-CB-CG	6.63	130.54	115.30
3	D	1166	LEU	CA-CB-CG	6.62	130.52	115.30
2	C	1021	LEU	CA-CB-CG	-6.60	100.11	115.30
3	N	371	ILE	CA-C-N	6.58	131.67	117.20
5	F	419	ARG	CB-CG-CD	6.55	128.62	111.60
3	N	619	LEU	CA-CB-CG	6.53	130.33	115.30
5	P	418	LEU	CA-CB-CG	6.50	130.25	115.30
5	P	401	GLU	OE1-CD-OE2	-6.50	115.50	123.30
2	C	244	PRO	CA-N-CD	-6.45	102.47	111.50
3	N	171	LEU	CA-CB-CG	6.39	129.99	115.30
3	D	201	GLY	N-CA-C	-6.34	97.26	113.10
2	C	853	LEU	CA-CB-CG	6.33	129.85	115.30
3	D	1395	LEU	CA-CB-CG	6.31	129.81	115.30
3	D	371	ILE	CA-C-N	6.30	131.07	117.20
3	N	201	GLY	N-CA-C	-6.28	97.40	113.10
2	M	73	LEU	CA-CB-CG	6.22	129.61	115.30
5	P	421	PHE	CB-CG-CD2	-6.21	116.45	120.80
2	C	455	LEU	CA-CB-CG	6.20	129.55	115.30
2	M	260	LEU	N-CA-C	6.18	127.70	111.00
3	D	1126	ASP	N-CA-C	6.16	127.64	111.00
5	F	423	ASP	CB-CG-OD2	6.13	123.82	118.30
5	F	377	ASP	N-CA-C	-6.13	94.45	111.00
3	N	1290	LEU	CA-CB-CG	6.11	129.35	115.30
3	N	1087	ARG	NE-CZ-NH2	-6.10	117.25	120.30
3	N	1166	LEU	CA-CB-CG	6.07	129.25	115.30
2	C	1102	LEU	CA-CB-CG	-6.03	101.44	115.30
5	P	411	HIS	CA-CB-CG	6.01	123.82	113.60
1	A	2	LEU	N-CA-C	6.00	127.20	111.00
2	M	917	LEU	CA-CB-CG	-6.00	101.51	115.30
5	F	419	ARG	NE-CZ-NH1	6.00	123.30	120.30
2	C	260	LEU	N-CA-C	5.99	127.18	111.00
3	N	199	LEU	C-N-CA	-5.98	106.75	121.70
3	D	245	LEU	CA-C-O	-5.93	107.65	120.10
1	A	187	GLY	N-CA-C	5.91	127.88	113.10
5	P	371	LEU	CB-CG-CD1	-5.91	100.96	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	199	LEU	CA-C-N	5.90	130.18	117.20
1	B	197	LEU	CA-CB-CG	5.89	128.85	115.30
1	K	187	GLY	N-CA-C	5.88	127.79	113.10
3	D	378	ILE	O-C-N	-5.87	113.30	122.70
3	D	468	LEU	CA-CB-CG	5.86	128.79	115.30
3	D	581	LEU	CA-CB-CG	5.83	128.72	115.30
5	P	410	TYR	CB-CG-CD2	-5.83	117.50	121.00
1	L	138	LEU	CA-CB-CG	5.82	128.69	115.30
2	C	100	LEU	CA-CB-CG	5.82	128.69	115.30
3	D	899	LEU	CA-CB-CG	5.79	128.63	115.30
3	N	1209	LEU	N-CA-C	-5.79	95.36	111.00
3	N	902	LEU	CA-CB-CG	5.76	128.55	115.30
3	N	813	LEU	CA-CB-CG	5.74	128.51	115.30
3	N	378	ILE	O-C-N	-5.74	113.52	122.70
3	D	1209	LEU	N-CA-C	-5.73	95.53	111.00
3	D	1389	LEU	N-CA-C	5.71	126.42	111.00
3	N	468	LEU	CA-CB-CG	5.69	128.39	115.30
3	D	1068	LEU	CA-CB-CG	-5.67	102.25	115.30
1	L	2	LEU	N-CA-C	5.66	126.29	111.00
3	D	217	LYS	CA-C-N	5.66	129.65	117.20
1	B	186	LEU	CA-CB-CG	-5.65	102.31	115.30
2	M	244	PRO	CA-N-CD	-5.65	103.59	111.50
1	A	197	LEU	CA-CB-CG	5.64	128.27	115.30
1	K	218	LEU	CA-CB-CG	5.64	128.27	115.30
2	M	795	GLY	N-CA-C	-5.63	99.02	113.10
1	L	198	ARG	NE-CZ-NH2	-5.63	117.48	120.30
3	N	899	LEU	CA-CB-CG	5.61	128.21	115.30
3	D	1311	LEU	CA-CB-CG	5.61	128.21	115.30
1	K	90	LEU	CA-CB-CG	-5.61	102.39	115.30
3	D	218	LYS	CA-C-N	5.60	129.53	117.20
3	D	711	LEU	CA-CB-CG	5.60	128.19	115.30
3	N	1389	LEU	N-CA-C	5.60	126.13	111.00
5	P	354	LEU	CA-CB-CG	5.60	128.19	115.30
3	D	1116	ASN	N-CA-C	-5.60	95.89	111.00
3	D	583	ASP	CB-CG-OD1	-5.59	113.26	118.30
1	B	127	LEU	CA-CB-CG	5.58	128.13	115.30
5	P	416	ARG	NH1-CZ-NH2	-5.58	113.27	119.40
2	C	165	LEU	C-N-CD	-5.57	108.35	120.60
3	D	839	LEU	CA-CB-CG	5.56	128.09	115.30
1	K	2	LEU	N-CA-C	5.55	125.98	111.00
1	B	2	LEU	N-CA-C	5.54	125.95	111.00
5	F	419	ARG	CB-CA-C	-5.51	99.39	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	138	LEU	CA-CB-CG	5.49	127.93	115.30
2	C	57	GLU	C-N-CA	-5.49	107.98	121.70
5	F	75	ILE	C-N-CA	5.47	135.38	121.70
3	N	920	LEU	CA-CB-CG	5.47	127.88	115.30
2	M	261	ILE	N-CA-C	5.46	125.75	111.00
2	C	728	HIS	CA-C-N	5.46	129.21	117.20
2	C	261	ILE	N-CA-C	5.46	125.73	111.00
2	M	728	HIS	N-CA-C	5.46	125.73	111.00
2	C	235	LEU	CA-CB-CG	5.45	127.83	115.30
2	C	310	LEU	CA-CB-CG	-5.45	102.77	115.30
2	M	737	LEU	CA-CB-CG	5.43	127.79	115.30
3	D	448	GLU	N-CA-C	5.43	125.66	111.00
2	M	886	LEU	CA-CB-CG	-5.42	102.83	115.30
3	N	371	ILE	O-C-N	-5.42	114.02	122.70
2	C	243	ARG	C-N-CA	5.42	144.75	122.00
3	D	199	LEU	CA-C-N	5.39	129.06	117.20
5	F	419	ARG	N-CA-CB	5.39	120.31	110.60
2	C	950	LEU	CA-CB-CG	5.39	127.70	115.30
2	M	728	HIS	CA-C-N	5.38	129.04	117.20
2	C	728	HIS	N-CA-C	5.38	125.52	111.00
5	F	337	HIS	CB-CA-C	-5.35	99.70	110.40
2	M	1118	LYS	C-N-CA	5.32	134.99	121.70
2	C	737	LEU	CA-CB-CG	5.31	127.52	115.30
2	M	264	PRO	CA-N-CD	-5.31	104.07	111.50
3	D	199	LEU	N-CA-C	5.31	125.33	111.00
2	C	178	PRO	N-CA-C	5.30	125.88	112.10
3	D	1038	LEU	CA-CB-CG	5.30	127.49	115.30
2	M	729	LEU	N-CA-C	5.30	125.31	111.00
5	P	75	ILE	C-N-CA	5.30	134.95	121.70
2	C	1118	LYS	C-N-CA	5.30	134.94	121.70
5	F	91	VAL	C-N-CD	5.29	139.52	128.40
3	D	813	LEU	CA-CB-CG	5.29	127.47	115.30
3	N	393	ILE	CB-CA-C	-5.29	101.03	111.60
3	N	448	GLU	N-CA-C	5.28	125.25	111.00
3	D	581	LEU	CB-CG-CD2	-5.27	102.04	111.00
2	C	73	LEU	C-N-CA	-5.27	111.23	122.30
4	O	49	GLN	CA-C-N	5.27	128.79	117.20
5	F	368	VAL	CG1-CB-CG2	-5.25	102.50	110.90
3	D	1087	ARG	CA-CB-CG	-5.22	101.91	113.40
5	P	377	ASP	N-CA-C	-5.22	96.90	111.00
3	D	618	LEU	CA-CB-CG	-5.21	103.33	115.30
3	N	207	PHE	C-N-CA	5.20	143.86	122.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	729	LEU	N-CA-C	5.18	124.99	111.00
3	D	198	ARG	C-N-CA	-5.18	108.75	121.70
3	D	371	ILE	O-C-N	-5.18	114.41	122.70
3	N	199	LEU	N-CA-C	5.18	124.97	111.00
5	P	337	HIS	CB-CA-C	-5.17	100.06	110.40
2	C	795	GLY	N-CA-C	-5.17	100.18	113.10
3	N	1389	LEU	CA-C-N	5.16	128.56	117.20
4	E	49	GLN	CA-C-N	5.16	128.54	117.20
1	B	138	LEU	CA-CB-CG	5.15	127.15	115.30
5	P	367	MET	CG-SD-CE	5.15	108.44	100.20
5	F	350	LEU	CD1-CG-CD2	-5.14	95.08	110.50
2	M	178	PRO	N-CA-C	5.12	125.42	112.10
2	M	165	LEU	C-N-CD	-5.12	109.34	120.60
3	D	804	LEU	CA-CB-CG	5.12	127.07	115.30
3	D	132	TYR	CA-C-N	-5.10	105.97	117.20
2	C	266	ARG	N-CA-C	-5.10	97.23	111.00
2	C	464	LEU	CA-CB-CG	-5.10	103.58	115.30
5	F	361	LEU	CB-CA-C	-5.09	100.53	110.20
1	B	176	ARG	NE-CZ-NH2	-5.08	117.76	120.30
2	M	114	PHE	CA-C-N	-5.08	106.02	117.20
2	M	266	ARG	N-CA-C	-5.08	97.28	111.00
5	P	91	VAL	C-N-CD	5.07	139.04	128.40
5	P	136	LEU	CA-CB-CG	5.06	126.94	115.30
3	D	81	THR	N-CA-C	-5.05	97.36	111.00
2	M	464	LEU	CA-CB-CG	-5.05	103.68	115.30
3	D	904	VAL	CB-CA-C	-5.04	101.82	111.40
3	D	508	ARG	C-N-CA	5.04	143.16	122.00
3	N	118	LEU	CA-CB-CG	5.03	126.86	115.30
3	N	554	LEU	CA-CB-CG	5.02	126.84	115.30
2	M	455	LEU	CA-CB-CG	5.02	126.84	115.30
3	D	244	GLU	C-N-CA	-5.00	109.19	121.70
2	M	1118	LYS	N-CA-C	5.00	124.51	111.00
2	M	1118	LYS	CA-C-N	-5.00	106.19	117.20

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	D	132	TYR	Sidechain
3	D	379	ALA	Peptide
3	D	380	GLU	Mainchain
5	F	421	PHE	Sidechain

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Mol	Chain	Res	Type	Group
3	N	132	TYR	Sidechain
3	N	379	ALA	Peptide
3	N	380	GLU	Mainchain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	247	0
1	B	1806	0	1861	213	0
1	K	1806	0	1861	216	0
1	L	1806	0	1861	213	0
2	C	8829	0	8933	1312	0
2	M	8829	0	8933	1273	0
3	D	10801	0	10887	1543	0
3	N	10801	0	10885	1539	0
4	E	769	0	775	94	0
4	O	769	0	775	106	0
5	F	2771	0	2843	392	0
5	P	2771	0	2844	429	0
6	A	18	0	0	0	0
6	B	24	0	0	0	0
6	C	63	0	0	0	0
6	D	118	0	0	1	0
6	E	6	0	0	0	0
6	F	31	0	0	0	0
6	K	20	0	0	0	0
6	L	19	0	0	0	0
6	M	64	0	0	0	0
6	N	92	0	0	0	0
6	O	8	0	0	0	0
6	P	22	0	0	0	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	A	194	0	0	44	0
8	B	193	0	0	50	0
8	C	869	0	0	254	0
8	D	1163	0	0	325	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	E	114	0	0	30	0
8	F	381	0	0	67	0
8	K	161	0	0	49	0
8	L	157	0	0	52	0
8	M	822	0	0	266	0
8	N	983	0	0	291	0
8	O	114	0	0	30	0
8	P	325	0	0	75	0
All	All	59529	0	54319	7072	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 65.

All (7072) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:419:ARG:CG	5:F:419:ARG:CB	1.76	1.60
5:P:401:GLU:CB	5:P:401:GLU:CG	1.76	1.56
5:F:401:GLU:CB	5:F:401:GLU:CG	1.77	1.55
3:N:218:LYS:CB	8:N:9902:HOH:O	1.85	1.18
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.26	1.16
5:F:358:LEU:HD11	5:F:370:LYS:HD2	1.28	1.15
5:F:361:LEU:HD12	5:F:366:ALA:HB2	1.24	1.15
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.29	1.14
3:N:218:LYS:CB	3:N:372:ASP:O	1.94	1.14
1:L:94:LEU:HD21	1:L:119:ASP:HB3	1.16	1.11
1:L:1:MET:O	1:L:6:LEU:HB2	1.51	1.10
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.34	1.08
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.32	1.08
2:M:328:LEU:HD13	2:M:433:THR:HB	1.36	1.08
3:D:972:LEU:HG	3:D:976:GLN:NE2	1.69	1.07
3:D:972:LEU:HG	3:D:976:GLN:HE22	0.94	1.07
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.13	1.06
1:B:1:MET:O	1:B:6:LEU:HB2	1.55	1.06
1:K:1:MET:O	1:K:6:LEU:HB2	1.56	1.06
3:N:616:GLN:HB2	5:P:326:ASP:HB2	1.36	1.06
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.21	1.05
5:P:76:SER:O	5:P:80:PRO:HD2	1.58	1.04
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.38	1.03
5:P:402:ASN:O	5:P:406:ARG:HD2	1.58	1.03
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.39	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.41	1.03
1:A:1:MET:O	1:A:6:LEU:HB2	1.60	1.02
2:C:368:THR:HB	2:C:369:PRO:HD3	1.41	1.02
3:N:87:ARG:O	3:N:521:PRO:HB3	1.59	1.02
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.41	1.02
3:D:370:ALA:HB1	6:D:9039:MG:MG	0.80	1.01
3:D:87:ARG:O	3:D:521:PRO:HB3	1.60	1.01
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.40	1.01
5:P:394:ARG:HD2	5:P:394:ARG:H	1.22	1.00
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.44	1.00
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.44	1.00
2:M:1055:LEU:HA	8:M:9570:HOH:O	1.62	0.99
5:P:411:HIS:HA	5:P:414:ARG:HG3	1.41	0.99
2:C:207:LEU:HD13	2:C:221:LEU:HD11	1.45	0.99
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.42	0.99
1:B:50:GLY:HA3	1:B:171:PHE:O	1.62	0.99
2:C:145:GLY:H	2:C:163:ILE:HG23	1.28	0.99
5:P:416:ARG:HD3	5:P:419:ARG:HG3	1.44	0.98
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.44	0.98
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.45	0.98
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	1.61	0.98
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.28	0.98
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.46	0.97
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.45	0.97
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.47	0.97
1:A:180:GLN:NE2	2:C:934:PHE:HB2	1.78	0.97
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.41	0.97
3:D:972:LEU:CG	3:D:976:GLN:HE22	1.78	0.97
1:K:35:THR:HB	8:K:1009:HOH:O	1.64	0.97
3:N:481:MET:HE3	3:N:493:ARG:HH21	1.27	0.97
1:K:54:THR:HG23	1:K:158:ILE:HG13	1.46	0.97
5:F:420:ASP:O	5:F:422:LEU:HD23	1.63	0.96
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.44	0.96
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.48	0.96
1:K:176:ARG:HD3	2:M:864:GLY:HA3	1.48	0.96
2:C:770:GLU:HG2	3:D:65:ARG:HH22	1.26	0.96
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.45	0.96
1:A:181:VAL:O	2:C:937:ASP:HA	1.65	0.96
2:M:51:THR:HB	2:M:348:LEU:HD23	1.48	0.95
3:D:1033:GLN:HE21	3:D:1036:ARG:HH11	0.99	0.95
4:E:39:VAL:HB	4:E:72:ARG:HD2	1.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.29	0.95
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.45	0.95
3:D:861:GLN:H	3:D:861:GLN:HE21	1.13	0.95
5:P:94:LEU:HD13	5:P:96:LEU:H	1.28	0.95
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.81	0.95
3:D:699:VAL:H	3:D:756:GLN:HE22	0.98	0.94
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.47	0.94
1:B:54:THR:HG23	1:B:158:ILE:HG13	1.47	0.94
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.48	0.94
3:N:137:PRO:HD2	3:N:453:ASP:CB	1.98	0.94
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.50	0.94
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.47	0.94
3:N:1389:LEU:HD23	3:N:1389:LEU:H	1.33	0.94
3:N:1209:LEU:HD13	3:N:1216:SER:H	1.32	0.94
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.49	0.94
3:N:425:GLY:HA3	5:P:135:ILE:HD13	1.49	0.94
2:C:640:ARG:HH11	2:C:642:ARG:HH12	1.03	0.93
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.48	0.93
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.48	0.93
3:D:126:VAL:HG13	3:D:132:TYR:HB2	1.51	0.93
2:M:269:LEU:HA	2:M:288:ARG:HE	1.31	0.93
2:M:274:ARG:HB2	2:M:288:ARG:HH12	1.32	0.93
3:D:861:GLN:H	3:D:861:GLN:NE2	1.66	0.93
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.50	0.93
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.50	0.93
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.51	0.92
2:M:572:ILE:HD11	2:M:701:THR:HB	1.51	0.92
3:N:465:LEU:HD23	3:N:468:LEU:HD11	1.49	0.92
5:P:369:LEU:HD11	5:P:401:GLU:HG3	1.50	0.92
3:D:65:ARG:HB2	5:F:375:LEU:HA	1.49	0.92
2:M:73:LEU:HB3	2:M:93:PRO:O	1.68	0.92
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.49	0.92
3:N:161:LEU:O	3:N:449:SER:HB2	1.70	0.92
2:M:100:LEU:HD23	2:M:372:LEU:HD11	1.49	0.92
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.50	0.92
3:N:861:GLN:H	3:N:861:GLN:HE21	0.94	0.92
2:M:1005:MET:HB3	8:N:9578:HOH:O	1.67	0.92
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.51	0.92
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.35	0.92
3:N:1304:LYS:H	3:N:1304:LYS:HD3	1.35	0.92
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.51	0.92
3:N:784:ASP:HA	8:N:2330:HOH:O	1.69	0.92
3:N:1090:ASP:HB3	3:N:1093:TYR:HB2	1.50	0.91
3:N:138:LYS:H	3:N:138:LYS:HD2	1.35	0.91
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.50	0.91
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.49	0.91
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.52	0.91
3:D:101:HIS:CD2	3:D:582:LEU:HD13	2.05	0.91
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.34	0.91
5:P:413:SER:HA	5:P:419:ARG:HE	1.35	0.91
8:M:2268:HOH:O	5:P:342:VAL:HA	1.71	0.91
1:L:12:THR:HG23	1:L:24:VAL:HB	1.49	0.91
2:M:328:LEU:H	2:M:433:THR:HG21	1.36	0.91
2:M:130:ASN:HA	8:M:9667:HOH:O	1.70	0.91
3:N:422:ALA:H	3:N:427:VAL:HG11	1.36	0.91
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.51	0.91
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.34	0.91
3:D:1304:LYS:HD3	3:D:1304:LYS:H	1.36	0.91
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.49	0.91
5:P:416:ARG:HH11	5:P:419:ARG:HD2	1.34	0.90
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.01	0.90
2:M:145:GLY:H	2:M:163:ILE:HG23	1.36	0.90
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.51	0.90
2:C:436:GLY:HA2	2:C:538:GLN:O	1.71	0.90
3:N:699:VAL:H	3:N:756:GLN:HE22	1.19	0.90
3:N:1087:ARG:NH2	3:N:1256:LEU:HD22	1.85	0.90
2:M:108:ILE:HB	2:M:368:THR:OG1	1.70	0.90
3:D:132:TYR:HA	8:D:9952:HOH:O	1.72	0.90
3:N:868:TYR:HD1	3:N:869:MET:H	1.16	0.90
5:F:76:SER:O	5:F:80:PRO:HD2	1.69	0.90
2:M:420:ARG:HD2	2:M:420:ARG:H	1.37	0.90
2:M:66:LEU:HD22	2:M:372:LEU:HD13	1.54	0.89
1:L:108:GLU:HB3	1:L:128:HIS:HE1	1.36	0.89
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.52	0.89
4:E:40:LEU:HB2	4:E:45:ARG:HD2	1.53	0.89
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.52	0.89
2:M:1015:LEU:HA	5:P:335:ASP:HB3	1.55	0.89
2:C:585:GLU:HB3	8:C:9492:HOH:O	1.72	0.89
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.55	0.89
5:F:278:LEU:HD13	5:F:290:GLU:HB3	1.50	0.88
2:C:140:ILE:HG23	2:C:333:ILE:HD12	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.55	0.88
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.02	0.88
2:M:73:LEU:HD23	2:M:94:LEU:HB2	1.55	0.88
4:O:51:LEU:HG	4:O:53:GLY:H	1.38	0.88
3:N:799:LYS:HA	8:N:2140:HOH:O	1.71	0.88
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.38	0.88
3:N:565:ILE:H	3:N:565:ILE:HD12	1.36	0.88
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.52	0.88
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.56	0.88
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.53	0.88
2:C:100:LEU:HG	2:C:368:THR:HG23	1.56	0.88
2:C:15:LEU:HD22	2:C:15:LEU:H	1.39	0.88
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.38	0.88
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.38	0.87
3:N:556:LYS:HA	8:N:9490:HOH:O	1.72	0.87
3:N:39:PRO:HB3	3:N:45:PHE:O	1.75	0.87
3:N:197:SER:HB2	3:N:205:TYR:CE1	2.08	0.87
3:N:126:VAL:HG13	3:N:132:TYR:HB2	1.57	0.87
1:B:133:GLU:HG3	1:B:134:GLU:H	1.38	0.87
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.56	0.87
3:D:119:SER:HB2	3:D:123:LEU:H	1.37	0.87
3:N:1385:GLY:HA2	8:N:9997:HOH:O	1.73	0.87
3:N:704:ARG:HG3	8:N:9496:HOH:O	1.74	0.87
3:N:616:GLN:O	3:N:619:LEU:HB3	1.75	0.87
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.14	0.87
3:D:1394:VAL:HB	3:D:1397:LYS:HG3	1.56	0.87
2:C:586:ARG:HD3	2:C:590:ASP:OD2	1.75	0.87
2:C:413:LEU:HD12	2:C:413:LEU:H	1.40	0.87
2:M:432:ARG:HH12	3:N:1047:LYS:HE2	1.35	0.87
3:N:430:ASP:HB2	3:N:432:TYR:CE2	2.09	0.87
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.56	0.87
2:C:650:ARG:H	2:C:650:ARG:HD3	1.39	0.87
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.39	0.87
1:B:132:LEU:HD21	1:B:138:LEU:HD22	1.57	0.87
1:K:143:ARG:HH11	1:K:143:ARG:HG3	1.40	0.87
1:A:5:LYS:HE3	1:A:5:LYS:HA	1.56	0.86
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.54	0.86
3:N:994:GLN:HG3	8:N:2307:HOH:O	1.73	0.86
3:N:1045:MET:CG	3:N:1073:SER:HA	2.05	0.86
3:D:101:HIS:HD2	3:D:582:LEU:HD13	1.41	0.86
3:D:141:ILE:HD13	3:D:449:SER:HA	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.05	0.86
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.57	0.86
3:D:547:LEU:HD22	3:D:581:LEU:HD21	1.56	0.86
2:C:1102:LEU:HD13	3:D:9:ARG:HB3	1.55	0.86
5:P:420:ASP:O	5:P:422:LEU:HD23	1.74	0.86
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.58	0.86
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.56	0.86
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.56	0.86
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.39	0.86
2:C:487:THR:HG22	2:C:489:THR:H	1.38	0.86
3:D:39:PRO:HB3	3:D:45:PHE:O	1.75	0.86
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.38	0.86
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	1.90	0.86
2:M:81:ASP:HA	8:M:9757:HOH:O	1.74	0.86
2:C:420:ARG:HD2	2:C:420:ARG:H	1.40	0.86
3:D:1026:SER:HA	8:D:2030:HOH:O	1.76	0.86
2:C:383:ARG:HH11	2:C:383:ARG:HB2	1.40	0.85
2:M:20:GLU:HG3	8:M:9519:HOH:O	1.76	0.85
2:M:260:LEU:HA	2:M:291:ALA:CB	2.06	0.85
1:L:54:THR:HG23	1:L:158:ILE:HG13	1.57	0.85
1:A:180:GLN:HE22	2:C:934:PHE:HB2	1.39	0.85
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.56	0.85
2:C:517:ARG:HH21	2:C:524:VAL:HG23	1.39	0.85
3:N:422:ALA:HB1	5:P:178:ARG:NH1	1.90	0.85
2:C:734:LEU:HD13	2:C:737:LEU:HD13	1.58	0.85
3:N:52:PRO:HG2	8:N:9939:HOH:O	1.76	0.85
2:C:492:ASP:HA	2:C:518:LYS:HB3	1.57	0.85
5:F:94:LEU:HD13	5:F:96:LEU:H	1.39	0.85
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.58	0.85
5:P:408:LEU:O	5:P:412:GLU:HG2	1.75	0.85
2:C:210:GLU:HG3	8:C:9693:HOH:O	1.75	0.85
2:C:260:LEU:HA	2:C:291:ALA:CB	2.06	0.85
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.55	0.85
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.55	0.85
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.55	0.85
2:C:519:GLY:HA3	8:C:9911:HOH:O	1.77	0.85
3:D:64:LYS:HG2	8:D:9558:HOH:O	1.76	0.85
5:F:408:LEU:O	5:F:412:GLU:HG2	1.76	0.85
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.57	0.85
3:D:139:GLY:HA3	3:D:452:ILE:HD12	1.58	0.85
3:N:197:SER:HB2	3:N:205:TYR:HE1	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.59	0.85
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.57	0.85
3:D:1033:GLN:NE2	3:D:1036:ARG:HH11	1.74	0.85
1:K:193:ASP:HA	2:M:938:LYS:HZ3	1.42	0.85
4:E:51:LEU:HG	4:E:53:GLY:H	1.40	0.85
3:N:1342:GLU:CD	3:N:1342:GLU:H	1.80	0.85
3:D:834:THR:HG22	3:D:838:ARG:HE	1.39	0.84
2:M:396:ASP:HA	2:M:633:GLN:HE22	1.42	0.84
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.56	0.84
2:C:100:LEU:HD21	2:C:368:THR:HA	1.57	0.84
5:P:416:ARG:NH1	5:P:419:ARG:HD2	1.92	0.84
3:D:1389:LEU:H	3:D:1389:LEU:HD23	1.43	0.84
2:C:537:LYS:HA	2:C:545:ASN:HD21	1.40	0.84
3:N:171:LEU:HB3	3:N:390:PRO:HA	1.59	0.84
2:M:140:ILE:HG13	8:M:2237:HOH:O	1.77	0.84
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.59	0.84
2:M:1095:LEU:HA	8:M:9921:HOH:O	1.77	0.84
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.59	0.84
3:D:865:THR:HG22	8:D:2489:HOH:O	1.75	0.84
5:F:148:LYS:O	5:F:148:LYS:HD2	1.78	0.84
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.58	0.84
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.59	0.84
3:D:808:THR:HB	3:D:809:PRO:HD3	1.58	0.84
2:C:904:PRO:HB2	2:C:907:ASP:O	1.78	0.84
3:N:1389:LEU:CD2	3:N:1389:LEU:H	1.91	0.84
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.57	0.84
5:P:141:VAL:O	5:P:145:PRO:HD2	1.76	0.84
3:D:1097:LYS:O	3:D:1101:VAL:HG23	1.78	0.84
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.58	0.84
3:N:836:VAL:HA	3:N:839:LEU:HD12	1.60	0.83
3:N:783:ARG:HB2	8:N:9557:HOH:O	1.78	0.83
1:A:219:ARG:HH12	1:B:219:ARG:HD2	1.40	0.83
3:D:219:GLU:O	3:D:370:ALA:CB	2.26	0.83
2:C:206:THR:HA	8:C:9693:HOH:O	1.78	0.83
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.59	0.83
3:N:810:GLU:O	3:N:813:LEU:HG	1.78	0.83
1:B:46:SER:O	1:B:148:VAL:HB	1.78	0.83
3:D:836:VAL:HA	3:D:839:LEU:HD12	1.60	0.83
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.57	0.83
5:F:407:LYS:HB3	8:F:9529:HOH:O	1.78	0.83
4:O:23:VAL:HG22	8:O:3627:HOH:O	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.42	0.83
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.60	0.83
2:M:41:ASN:HA	8:M:9520:HOH:O	1.77	0.83
5:P:411:HIS:HA	5:P:414:ARG:CG	2.09	0.83
2:C:620:LEU:HA	8:C:9571:HOH:O	1.77	0.83
3:D:561:GLY:HA3	5:F:184:ARG:NH2	1.94	0.83
1:B:153:ALA:HA	1:B:156:HIS:NE2	1.94	0.83
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.41	0.83
2:C:710:ILE:HD12	2:C:790:LEU:HB2	1.61	0.83
3:N:149:LYS:HD3	3:N:149:LYS:H	1.43	0.83
2:M:1092:LEU:HD23	2:M:1099:VAL:HG11	1.59	0.83
2:C:52:PHE:HB3	8:C:9488:HOH:O	1.78	0.83
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.59	0.83
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.12	0.83
5:P:392:VAL:HG22	8:P:9742:HOH:O	1.78	0.83
5:P:369:LEU:CD1	5:P:401:GLU:HG3	2.09	0.83
3:N:170:PRO:O	3:N:391:ALA:HB3	1.79	0.83
2:C:443:THR:HG21	2:C:450:GLY:H	1.41	0.83
3:N:583:ASP:OD1	3:N:604:THR:HB	1.78	0.83
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.60	0.83
3:N:45:PHE:HD1	3:N:86:ARG:HH22	1.26	0.82
2:C:89:THR:HA	2:C:129:ILE:O	1.79	0.82
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.43	0.82
3:D:36:THR:HB	8:D:9731:HOH:O	1.79	0.82
3:N:1075:HIS:HA	8:N:9591:HOH:O	1.79	0.82
2:C:1107:ASN:HB3	8:C:2039:HOH:O	1.78	0.82
2:C:170:PRO:HB3	2:C:186:VAL:HG12	1.60	0.82
3:N:573:MET:HE1	5:P:214:GLN:HG3	1.61	0.82
1:K:18:ARG:O	1:K:207:PRO:HD3	1.79	0.82
3:N:391:ALA:HB1	8:N:2275:HOH:O	1.80	0.82
2:C:139:GLN:HB3	2:C:334:ARG:HG3	1.61	0.82
2:C:288:ARG:HB3	8:C:2156:HOH:O	1.80	0.82
5:F:369:LEU:HD11	5:F:401:GLU:HG3	1.61	0.82
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.60	0.82
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.59	0.82
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.61	0.82
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.59	0.82
2:C:56:GLU:HB2	2:C:64:LEU:HD23	1.59	0.82
2:C:458:TYR:HB3	2:C:470:PRO:HG2	1.62	0.82
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.43	0.82
3:N:988:ARG:NH1	3:N:992:ILE:HD11	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:387:LEU:CB	5:P:94:LEU:HD11	2.09	0.82
3:D:131:LYS:HA	3:D:456:MET:HG3	1.62	0.82
1:B:190:THR:HA	8:B:9553:HOH:O	1.78	0.82
2:C:1076:VAL:HG22	3:D:752:SER:HB3	1.59	0.82
2:M:715:THR:HG22	2:M:717:LEU:H	1.42	0.82
5:F:364:ARG:O	5:F:368:VAL:HG23	1.79	0.82
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.60	0.81
5:P:132:ARG:O	5:P:136:LEU:HG	1.80	0.81
2:C:412:ALA:HB3	8:C:9584:HOH:O	1.80	0.81
2:C:274:ARG:H	2:C:288:ARG:HH12	1.29	0.81
3:D:772:PRO:HB3	3:D:1224:VAL:HG13	1.61	0.81
2:M:368:THR:HB	2:M:369:PRO:HD3	1.61	0.81
2:M:478:VAL:HA	2:M:506:ASN:O	1.81	0.81
3:N:479:GLU:HG2	8:N:2227:HOH:O	1.80	0.81
3:D:202:VAL:O	3:D:204:LEU:HG	1.80	0.81
2:C:169:GLY:HA2	2:C:263:ASP:HB3	1.60	0.81
5:P:395:GLU:O	5:P:399:GLN:HG2	1.80	0.81
5:F:125:ASP:HA	8:F:9482:HOH:O	1.80	0.81
2:M:728:HIS:CE1	5:P:423:ASP:O	2.33	0.81
3:D:1495:ILE:HD11	4:E:84:ARG:HG2	1.62	0.81
5:P:305:GLU:HG2	5:P:309:LYS:HE3	1.62	0.81
1:B:169:ALA:HA	8:B:9642:HOH:O	1.78	0.81
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.60	0.81
4:O:14:ASP:HA	8:O:2164:HOH:O	1.80	0.81
3:N:208:PRO:HB2	3:N:395:VAL:CG1	2.09	0.81
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.45	0.81
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.62	0.81
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.62	0.81
5:F:320:PRO:HA	8:F:9526:HOH:O	1.79	0.81
2:C:57:GLU:HG2	2:C:58:ASP:OD2	1.81	0.81
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.62	0.81
2:M:44:ILE:HD12	8:M:9899:HOH:O	1.80	0.81
3:N:782:SER:O	3:N:786:ILE:HD12	1.80	0.81
3:N:139:GLY:HA3	3:N:452:ILE:HD12	1.61	0.81
3:D:699:VAL:N	3:D:756:GLN:HE22	1.78	0.81
2:C:478:VAL:HA	2:C:506:ASN:O	1.80	0.81
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.61	0.81
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.61	0.81
2:C:1091:GLU:HG2	3:D:606:ILE:HB	1.61	0.81
2:M:778:PHE:CZ	5:P:419:ARG:HD3	2.15	0.81
3:D:422:ALA:H	3:D:427:VAL:HG11	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:77:THR:O	5:F:81:VAL:HG23	1.81	0.81
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.59	0.81
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.44	0.81
5:P:364:ARG:O	5:P:368:VAL:HG23	1.81	0.81
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.60	0.81
2:M:874:LEU:HD11	8:N:2330:HOH:O	1.81	0.81
2:C:345:ARG:HB2	8:C:2085:HOH:O	1.81	0.81
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.46	0.81
2:M:207:LEU:HD13	2:M:221:LEU:HD11	1.63	0.81
3:D:219:GLU:O	3:D:370:ALA:HB2	1.80	0.81
2:M:300:ASP:HA	8:M:9575:HOH:O	1.78	0.81
3:N:1112:CYS:HA	8:N:9585:HOH:O	1.81	0.81
3:D:1442:ASN:HB3	8:D:9715:HOH:O	1.80	0.81
3:N:507:ASN:HB2	8:N:9529:HOH:O	1.81	0.80
3:N:214:GLU:HB3	3:N:390:PRO:HD2	1.64	0.80
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	1.60	0.80
3:N:899:LEU:HD23	3:N:917:GLN:HB3	1.61	0.80
5:P:277:GLN:O	5:P:280:GLN:HB3	1.81	0.80
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.62	0.80
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.63	0.80
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.46	0.80
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.62	0.80
3:N:861:GLN:H	3:N:861:GLN:NE2	1.78	0.80
2:M:427:VAL:HA	8:M:9593:HOH:O	1.81	0.80
2:M:435:TYR:O	2:M:437:ARG:HG2	1.81	0.80
2:C:204:GLN:HG2	8:C:9564:HOH:O	1.80	0.80
2:M:89:THR:HG23	2:M:129:ILE:HA	1.64	0.80
2:M:244:PRO:HD2	2:M:245:GLY:H	1.43	0.80
5:P:266:GLU:HB3	8:P:9668:HOH:O	1.80	0.80
1:A:30:ARG:HH12	1:B:155:LYS:HZ1	1.30	0.80
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.63	0.80
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.64	0.80
2:M:107:LEU:HG	8:M:9718:HOH:O	1.82	0.80
3:D:834:THR:HG22	3:D:838:ARG:NE	1.97	0.80
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.60	0.80
5:P:163:LEU:HD22	5:P:174:LEU:HG	1.62	0.80
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	1.93	0.80
3:N:119:SER:HB3	8:N:9542:HOH:O	1.82	0.80
4:E:30:LEU:O	4:E:35:PHE:HA	1.81	0.80
3:N:132:TYR:HB3	8:N:2215:HOH:O	1.81	0.80
3:D:148:GLU:HG3	8:D:9742:HOH:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ILE:HG23	3:D:948:THR:HB	1.63	0.80
3:D:12:LEU:HD23	3:D:13:ALA:H	1.47	0.80
1:K:104:GLU:HG3	8:K:1171:HOH:O	1.81	0.80
2:C:979:THR:HG23	2:C:981:GLU:H	1.47	0.80
8:A:9594:HOH:O	1:B:39:PRO:HB3	1.82	0.80
5:P:364:ARG:HB2	5:P:365:GLU:OE1	1.81	0.79
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.64	0.79
3:D:374:GLU:HA	8:D:9620:HOH:O	1.83	0.79
3:N:616:GLN:HB2	5:P:326:ASP:CB	2.11	0.79
2:C:767:PRO:HB2	8:C:9776:HOH:O	1.83	0.79
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.27	0.79
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.46	0.79
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.64	0.79
1:K:193:ASP:HA	2:M:938:LYS:NZ	1.97	0.79
2:M:260:LEU:HA	2:M:291:ALA:HB1	1.63	0.79
4:O:30:LEU:O	4:O:35:PHE:HA	1.83	0.79
3:D:1077:ALA:HB2	8:D:9889:HOH:O	1.82	0.79
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.45	0.79
2:M:323:ASP:HB2	8:M:2151:HOH:O	1.82	0.79
2:C:238:LEU:HA	2:C:241:LEU:HD12	1.64	0.79
5:P:129:GLU:HB3	5:P:142:ARG:HH22	1.48	0.79
1:B:22:GLU:HB3	8:B:9505:HOH:O	1.81	0.79
2:M:721:ARG:HE	2:M:783:ARG:NH2	1.80	0.79
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.64	0.79
3:D:962:GLN:HA	8:D:9754:HOH:O	1.82	0.79
3:N:170:PRO:HB2	8:N:9760:HOH:O	1.83	0.79
2:M:274:ARG:HD2	8:M:9866:HOH:O	1.81	0.79
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.46	0.79
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.63	0.79
2:C:198:ARG:HH21	2:C:203:ASP:HB3	1.44	0.79
8:N:9748:HOH:O	4:O:17:TYR:HB3	1.83	0.79
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.65	0.79
3:N:639:LEU:HB2	8:N:9609:HOH:O	1.83	0.79
3:D:542:ASP:O	3:D:546:ARG:HG2	1.83	0.79
2:C:338:GLU:HB2	8:C:9884:HOH:O	1.81	0.79
2:C:511:GLU:O	2:C:526:PRO:HD3	1.82	0.79
2:C:71:TYR:H	2:C:71:TYR:HD2	1.31	0.79
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.65	0.79
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.62	0.78
2:C:627:ARG:HG3	2:C:628:PHE:H	1.48	0.78
5:F:277:GLN:HA	8:F:9625:HOH:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:110:GLU:HG2	2:C:369:PRO:HG3	1.65	0.78
5:F:200:LYS:HA	5:F:209:PHE:HE1	1.48	0.78
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.48	0.78
2:C:411:SER:HB2	2:C:452:ILE:HG23	1.63	0.78
5:P:278:LEU:HD13	5:P:290:GLU:HB3	1.64	0.78
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.49	0.78
2:M:1059:ASP:HB3	8:M:9570:HOH:O	1.82	0.78
3:D:160:GLU:HG2	3:D:165:LYS:HD3	1.66	0.78
3:D:170:PRO:O	3:D:391:ALA:HB3	1.83	0.78
2:C:19:THR:HG22	2:C:23:VAL:HG23	1.66	0.78
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.66	0.78
3:N:732:VAL:HA	8:N:9711:HOH:O	1.82	0.78
1:B:94:LEU:HD21	1:B:119:ASP:CB	2.11	0.78
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.65	0.78
3:N:36:THR:HG22	3:N:38:LYS:HG3	1.65	0.78
3:D:899:LEU:HD23	3:D:917:GLN:HB3	1.63	0.78
1:L:175:ARG:HA	8:L:4017:HOH:O	1.81	0.78
5:F:363:GLU:OE2	5:F:364:ARG:HG2	1.83	0.78
2:M:433:THR:HA	8:M:9545:HOH:O	1.83	0.78
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.13	0.78
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.18	0.78
2:M:775:ARG:HD2	8:M:2224:HOH:O	1.82	0.78
2:M:462:ASP:CG	2:M:463:GLU:H	1.87	0.78
2:C:774:LEU:HD11	5:F:421:PHE:HE2	1.48	0.78
3:N:141:ILE:HD13	3:N:450:TYR:H	1.49	0.78
2:M:660:ALA:O	2:M:667:ALA:HB3	1.84	0.78
5:P:402:ASN:HB3	5:P:406:ARG:NH2	1.99	0.78
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.66	0.78
3:N:426:LYS:HB3	5:P:134:LYS:O	1.82	0.78
1:L:42:ARG:HH11	1:L:42:ARG:HG2	1.49	0.78
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.66	0.78
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.63	0.78
2:C:74:GLY:HA2	8:C:9794:HOH:O	1.82	0.78
3:N:1157:GLY:HA3	8:N:9681:HOH:O	1.84	0.78
2:M:139:GLN:NE2	2:M:414:GLY:HA3	1.98	0.78
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	1.66	0.78
3:D:85:VAL:HG23	8:D:9655:HOH:O	1.84	0.78
5:P:416:ARG:HD3	5:P:419:ARG:CG	2.14	0.78
4:O:40:LEU:HB2	4:O:45:ARG:HD2	1.66	0.78
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.19	0.78
3:N:471:GLU:HB2	8:N:9762:HOH:O	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:608:SER:HB2	8:D:2144:HOH:O	1.81	0.78
5:F:92:PRO:HB3	8:F:9549:HOH:O	1.82	0.78
3:D:144:GLY:HA3	8:D:9577:HOH:O	1.84	0.78
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	1.84	0.78
2:M:492:ASP:HB3	2:M:518:LYS:HD3	1.64	0.78
3:N:24:GLY:HA3	3:N:49:ILE:HG12	1.66	0.77
2:C:1092:LEU:HA	2:C:1095:LEU:HD12	1.65	0.77
3:D:710:ARG:HG3	3:D:711:LEU:HD23	1.66	0.77
5:F:361:LEU:HD12	5:F:366:ALA:CB	2.09	0.77
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.84	0.77
3:D:562:ALA:HB3	8:D:2463:HOH:O	1.84	0.77
3:D:502:PHE:CD2	3:D:509:PRO:HD3	2.19	0.77
3:N:616:GLN:CB	5:P:326:ASP:HB2	2.14	0.77
3:N:192:ALA:O	3:N:195:VAL:HG23	1.83	0.77
2:M:492:ASP:HA	2:M:518:LYS:HB3	1.66	0.77
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.67	0.77
5:F:141:VAL:O	5:F:145:PRO:HD2	1.84	0.77
1:L:132:LEU:HD21	1:L:138:LEU:HD22	1.66	0.77
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.19	0.77
3:D:1198:TYR:HA	8:D:2227:HOH:O	1.85	0.77
5:F:128:ARG:HD3	8:F:9477:HOH:O	1.82	0.77
1:L:132:LEU:HD11	1:L:138:LEU:HD13	1.66	0.77
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.83	0.77
3:N:1116:ASN:H	3:N:1116:ASN:HD22	1.32	0.77
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.47	0.77
3:N:1372:VAL:HA	3:N:1375:MET:SD	2.23	0.77
3:D:1362:LYS:HE3	8:D:9659:HOH:O	1.84	0.77
3:N:561:GLY:HA2	8:N:9520:HOH:O	1.83	0.77
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.47	0.77
2:M:89:THR:HA	2:M:129:ILE:O	1.83	0.77
3:N:539:ASP:HB2	5:P:318:GLU:CD	2.04	0.77
3:N:1116:ASN:H	3:N:1116:ASN:ND2	1.83	0.77
3:N:1173:LEU:HA	8:N:9906:HOH:O	1.83	0.77
5:P:402:ASN:HB3	5:P:406:ARG:CZ	2.15	0.77
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.66	0.77
3:N:1362:LYS:HG3	8:N:9772:HOH:O	1.83	0.77
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.83	0.77
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.84	0.77
3:D:1057:VAL:HG21	8:D:9564:HOH:O	1.84	0.77
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	1.99	0.77
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:940:THR:HG21	8:N:9579:HOH:O	1.84	0.77
3:D:994:GLN:HB2	8:D:9576:HOH:O	1.85	0.77
2:M:9:ILE:HG21	2:M:499:ALA:HB1	1.67	0.77
3:D:171:LEU:HD11	8:D:2193:HOH:O	1.83	0.77
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.67	0.77
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.67	0.76
3:N:205:TYR:HD2	3:N:393:ILE:HG12	1.49	0.76
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.20	0.76
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.67	0.76
2:M:220:GLY:HA3	8:M:2108:HOH:O	1.86	0.76
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	2.00	0.76
3:D:1168:MET:HE3	3:D:1171:VAL:HB	1.68	0.76
4:O:41:GLU:CA	4:O:45:ARG:HG3	2.16	0.76
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.84	0.76
1:B:182:GLU:HA	8:B:9564:HOH:O	1.86	0.76
1:A:229:GLN:HB3	8:A:9609:HOH:O	1.85	0.76
3:D:1243:THR:HB	3:D:1253:THR:HB	1.66	0.76
3:D:383:GLY:HA2	8:D:9900:HOH:O	1.84	0.76
3:D:868:TYR:HD1	3:D:869:MET:H	1.33	0.76
2:C:1057:SER:HB2	3:D:622:ARG:O	1.84	0.76
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.48	0.76
3:D:208:PRO:HB2	3:D:395:VAL:CG1	2.14	0.76
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.00	0.76
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	1.84	0.76
3:D:163:TYR:HB2	8:D:9658:HOH:O	1.86	0.76
3:D:537:THR:HG23	8:D:2538:HOH:O	1.86	0.76
3:D:131:LYS:HG2	3:D:568:ARG:HG2	1.68	0.76
3:D:793:THR:HA	8:D:9489:HOH:O	1.84	0.76
2:M:573:ARG:HG3	2:M:698:ASP:O	1.85	0.76
2:C:568:ALA:HB1	2:C:668:LEU:HB3	1.66	0.76
2:M:710:ILE:HG22	2:M:823:VAL:HB	1.68	0.76
2:M:12:VAL:HG12	2:M:534:VAL:HG13	1.67	0.76
3:N:1166:LEU:HD11	8:N:2033:HOH:O	1.84	0.76
5:P:76:SER:HB2	8:P:9639:HOH:O	1.85	0.76
2:M:1001:VAL:HA	8:M:9560:HOH:O	1.86	0.76
2:C:260:LEU:HA	2:C:291:ALA:HB1	1.66	0.76
1:A:189:ARG:NH2	1:B:155:LYS:HG2	2.01	0.76
3:N:1388:ARG:HG3	3:N:1389:LEU:CD2	2.16	0.76
2:C:269:LEU:HD23	2:C:288:ARG:HB2	1.68	0.76
2:C:660:ALA:O	2:C:667:ALA:HB3	1.85	0.76
8:C:9676:HOH:O	3:D:656:PHE:HA	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1299:PHE:HB3	8:D:2129:HOH:O	1.86	0.76
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.67	0.76
1:L:101:LEU:HD22	1:L:140:MET:HE1	1.67	0.75
3:D:953:ASP:HA	8:D:9507:HOH:O	1.85	0.75
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.85	0.75
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.68	0.75
3:N:1087:ARG:CZ	3:N:1238:MET:HG3	2.16	0.75
1:K:226:SER:O	1:K:228:PRO:HD3	1.86	0.75
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.67	0.75
1:A:226:SER:O	1:A:228:PRO:HD3	1.86	0.75
2:M:600:ASP:HB3	8:M:2091:HOH:O	1.84	0.75
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.67	0.75
2:M:290:LEU:HD22	2:M:302:VAL:HG11	1.67	0.75
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.66	0.75
3:N:219:GLU:O	3:N:370:ALA:CB	2.34	0.75
3:N:1314:LYS:HA	8:N:2212:HOH:O	1.85	0.75
2:C:957:LYS:HD3	2:C:961:GLU:HB3	1.69	0.75
2:M:274:ARG:HB2	2:M:288:ARG:NH1	2.02	0.75
3:N:994:GLN:HE21	3:N:998:GLU:HG3	1.52	0.75
2:M:411:SER:HB3	8:M:2133:HOH:O	1.86	0.75
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.68	0.75
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.68	0.75
1:L:156:HIS:HD2	1:L:157:GLY:H	1.35	0.75
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.67	0.75
2:M:183:SER:HB3	2:M:190:LYS:NZ	2.01	0.75
5:F:376:ILE:HG22	5:F:377:ASP:HB2	1.68	0.75
2:M:778:PHE:CE2	5:P:419:ARG:HD3	2.21	0.75
5:F:210:LEU:HA	5:F:213:ILE:HD12	1.68	0.75
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.68	0.75
5:F:277:GLN:O	5:F:280:GLN:HB3	1.87	0.75
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.67	0.75
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.01	0.75
3:N:119:SER:HB2	3:N:123:LEU:CB	2.16	0.75
4:E:54:LEU:HG	4:E:58:PRO:HD2	1.68	0.75
3:D:812:ALA:HA	8:D:9496:HOH:O	1.85	0.75
2:M:65:VAL:HG23	2:M:101:ILE:HB	1.68	0.75
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.67	0.75
2:C:841:ASN:HD22	2:C:843:HIS:H	1.34	0.75
3:D:646:LYS:HA	3:D:720:LEU:HD23	1.66	0.75
2:M:528:GLU:HB3	8:M:9589:HOH:O	1.85	0.75
3:D:411:THR:HG23	3:D:429:SER:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.50	0.75
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.66	0.75
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.87	0.75
2:C:640:ARG:NH1	2:C:642:ARG:HH12	1.82	0.75
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.17	0.75
3:D:131:LYS:HD2	5:F:83:GLN:OE1	1.86	0.75
2:M:341:THR:HG21	8:M:9646:HOH:O	1.86	0.75
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.86	0.75
2:M:52:PHE:CZ	2:M:98:LEU:HD21	2.21	0.75
2:C:911:GLU:O	2:C:915:LYS:HG2	1.86	0.75
2:C:173:ASP:HB2	8:C:2311:HOH:O	1.87	0.75
2:M:1051:GLU:OE2	3:N:752:SER:HB3	1.86	0.75
3:D:30:GLU:HG3	3:D:41:ARG:HG2	1.69	0.75
2:M:418:LEU:HB3	8:M:9802:HOH:O	1.85	0.75
2:M:423:ALA:HA	8:M:2231:HOH:O	1.86	0.75
2:C:725:ASP:O	2:C:727:PRO:HD3	1.87	0.75
3:D:800:LYS:HE2	3:D:830:ALA:HB3	1.68	0.75
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.86	0.75
2:M:511:GLU:O	2:M:526:PRO:HD3	1.84	0.75
2:M:148:PHE:HZ	2:M:281:LEU:HD22	1.52	0.75
3:N:133:ILE:HD13	8:N:9573:HOH:O	1.86	0.74
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.66	0.74
1:L:220:GLU:O	1:L:223:THR:HG22	1.87	0.74
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	1.96	0.74
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.68	0.74
3:D:699:VAL:H	3:D:756:GLN:NE2	1.81	0.74
2:C:774:LEU:HD11	5:F:421:PHE:CE2	2.21	0.74
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.53	0.74
2:M:723:THR:HG23	2:M:725:ASP:H	1.50	0.74
3:D:429:SER:HB2	8:D:9724:HOH:O	1.85	0.74
3:N:800:LYS:HA	8:N:2379:HOH:O	1.87	0.74
2:C:546:LEU:HD12	2:C:565:GLN:HE22	1.51	0.74
1:A:182:GLU:CD	2:C:934:PHE:HB3	2.07	0.74
2:C:838:LYS:HD2	2:C:997:LEU:HD12	1.69	0.74
2:C:356:ARG:HA	8:C:9554:HOH:O	1.86	0.74
2:M:728:HIS:O	2:M:729:LEU:HD22	1.87	0.74
2:C:195:LEU:HA	8:C:9981:HOH:O	1.88	0.74
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.66	0.74
1:B:70:GLY:HA2	8:B:9650:HOH:O	1.87	0.74
2:M:147:TYR:HA	8:M:2202:HOH:O	1.87	0.74
3:D:657:LEU:HD22	3:D:691:LEU:HD13	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:729:LEU:HD11	5:F:419:ARG:NH2	2.01	0.74
5:F:369:LEU:CD1	5:F:401:GLU:HG3	2.17	0.74
3:N:86:ARG:O	3:N:522:PRO:HD2	1.87	0.74
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.70	0.74
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.69	0.74
1:A:97:VAL:HG23	8:A:9431:HOH:O	1.87	0.74
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.69	0.74
3:N:776:GLU:HG3	8:N:9518:HOH:O	1.88	0.74
3:D:984:THR:HG23	3:D:987:GLU:H	1.52	0.74
2:C:211:LEU:HD11	8:C:9607:HOH:O	1.87	0.74
2:C:889:HIS:CE1	3:D:951:ILE:H	2.06	0.74
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.15	0.74
3:N:112:ILE:HG22	3:N:512:MET:SD	2.28	0.74
3:D:192:ALA:O	3:D:195:VAL:HG23	1.88	0.74
3:N:469:ASP:HB3	8:N:9534:HOH:O	1.87	0.74
2:C:480:THR:HG22	2:C:482:GLU:H	1.52	0.74
5:P:297:PRO:HB2	8:P:9575:HOH:O	1.87	0.74
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.02	0.74
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.16	0.74
2:M:130:ASN:HB3	8:M:9869:HOH:O	1.88	0.74
3:D:1101:VAL:CG1	3:D:1427:SER:HB3	2.17	0.74
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.68	0.74
3:D:172:PRO:HB3	3:D:178:LEU:HB3	1.69	0.74
5:P:260:ILE:HG12	5:P:264:MET:HB2	1.67	0.74
5:P:361:LEU:HD13	5:P:404:ALA:HB1	1.70	0.74
5:F:371:LEU:HD11	8:F:9822:HOH:O	1.87	0.74
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.16	0.74
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.17	0.74
2:C:629:TYR:HB2	8:C:9559:HOH:O	1.86	0.74
2:M:1025:ALA:HA	8:M:9816:HOH:O	1.87	0.74
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.87	0.74
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.28	0.73
3:N:698:LYS:HA	3:N:756:GLN:NE2	2.03	0.73
5:P:395:GLU:HA	8:P:9476:HOH:O	1.87	0.73
1:L:185:ARG:HD2	8:L:3631:HOH:O	1.88	0.73
5:P:410:TYR:HA	5:P:413:SER:OG	1.88	0.73
2:M:56:GLU:HB2	2:M:64:LEU:HD23	1.69	0.73
2:C:1074:GLU:HB3	8:C:2223:HOH:O	1.87	0.73
2:M:795:GLY:O	2:M:796:GLU:HG2	1.86	0.73
2:M:536:PRO:HB3	2:M:906:PHE:HB2	1.70	0.73
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:427:VAL:HB	3:D:435:VAL:HB	1.71	0.73
3:D:1209:LEU:HD13	3:D:1216:SER:H	1.54	0.73
3:N:219:GLU:O	3:N:370:ALA:HB2	1.88	0.73
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.70	0.73
2:C:881:ASN:HD22	2:C:881:ASN:N	1.84	0.73
3:D:32:ILE:O	5:F:258:ILE:HG23	1.89	0.73
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.70	0.73
3:D:544:TYR:CE1	3:D:581:LEU:HD13	2.23	0.73
2:M:66:LEU:HD13	2:M:100:LEU:HB3	1.70	0.73
3:N:563:PRO:HG2	5:P:188:ILE:HG21	1.69	0.73
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.69	0.73
2:C:811:PRO:HD3	8:C:2192:HOH:O	1.87	0.73
2:M:148:PHE:HB2	8:M:9596:HOH:O	1.88	0.73
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.53	0.73
1:K:39:PRO:HG2	1:L:39:PRO:HG2	1.70	0.73
1:L:190:THR:HG21	8:L:5177:HOH:O	1.87	0.73
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG11	2.23	0.73
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.71	0.73
3:N:216:VAL:HG13	8:N:9883:HOH:O	1.87	0.73
5:P:119:ILE:HG13	8:P:9609:HOH:O	1.86	0.73
3:N:1353:GLN:HE21	3:N:1357:ARG:NE	1.86	0.73
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.70	0.73
2:C:110:GLU:CG	2:C:369:PRO:HG3	2.18	0.73
1:A:198:ARG:HH22	2:C:932:GLU:HB3	1.54	0.73
3:N:897:TRP:CZ2	3:N:902:LEU:HD21	2.23	0.73
3:D:1380:GLU:OE2	3:D:1390:LEU:HD22	1.88	0.73
2:C:762:LYS:NZ	2:C:762:LYS:HB2	2.01	0.73
1:L:101:LEU:HB3	1:L:140:MET:SD	2.28	0.73
2:M:418:LEU:HB2	8:M:9616:HOH:O	1.88	0.73
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.23	0.73
2:C:1030:GLN:HE22	3:D:628:ARG:HE	1.35	0.73
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.08	0.73
3:D:789:LEU:HD12	3:D:911:LEU:HD21	1.69	0.73
1:L:27:PRO:HB3	1:L:192:LEU:HD13	1.70	0.73
5:P:82:ARG:O	5:P:86:HIS:HB2	1.88	0.73
3:N:573:MET:SD	5:P:210:LEU:HB3	2.29	0.73
2:M:660:ALA:HB1	2:M:667:ALA:O	1.89	0.73
2:M:1053:LEU:HA	8:M:9509:HOH:O	1.87	0.73
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.04	0.73
1:A:88:ARG:HG3	1:A:204:SER:O	1.88	0.73
5:F:357:ALA:HB2	5:F:412:GLU:OE2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.01	0.73
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.04	0.73
2:M:405:ARG:NH2	2:M:409:ARG:HH21	1.86	0.73
3:N:177:ALA:HB1	3:N:199:LEU:HD13	1.70	0.73
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.69	0.73
2:M:250:ARG:HG3	8:M:2200:HOH:O	1.87	0.73
2:C:748:GLU:HA	2:C:799:ILE:HG22	1.70	0.73
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.04	0.73
3:D:1003:VAL:O	3:D:1007:VAL:HG13	1.89	0.73
1:A:206:THR:HG22	1:A:209:GLU:H	1.54	0.73
2:C:500:ASN:HB3	8:C:9512:HOH:O	1.89	0.73
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.71	0.73
2:C:943:VAL:HG22	2:C:985:GLY:H	1.53	0.73
2:M:84:ARG:HD2	8:M:9757:HOH:O	1.89	0.73
5:F:140:ARG:HG3	5:F:141:VAL:H	1.53	0.73
5:F:205:ARG:HD2	5:F:251:ILE:HG21	1.71	0.73
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.70	0.73
2:C:1028:GLY:HA2	8:C:2253:HOH:O	1.88	0.73
1:A:54:THR:HG23	1:A:158:ILE:HG13	1.70	0.73
1:L:95:GLN:HG3	8:L:1866:HOH:O	1.89	0.73
8:C:2215:HOH:O	3:D:1047:LYS:HE2	1.89	0.73
5:P:401:GLU:O	5:P:405:LEU:HB2	1.89	0.72
3:N:496:LEU:HB3	8:N:9704:HOH:O	1.89	0.72
5:P:358:LEU:HD21	5:P:370:LYS:NZ	2.03	0.72
3:D:68:PHE:HB2	8:D:9549:HOH:O	1.90	0.72
5:F:408:LEU:HD23	5:F:409:LYS:N	2.04	0.72
2:C:266:ARG:HG3	2:C:266:ARG:HH11	1.54	0.72
5:F:292:ALA:HB2	8:F:9565:HOH:O	1.89	0.72
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.24	0.72
5:F:200:LYS:HA	5:F:209:PHE:CE1	2.24	0.72
2:C:241:LEU:HD11	8:C:9948:HOH:O	1.89	0.72
3:N:1144:LEU:HB3	8:N:2033:HOH:O	1.89	0.72
3:N:800:LYS:HE2	3:N:830:ALA:HB3	1.71	0.72
2:M:262:ALA:HB2	8:M:2129:HOH:O	1.90	0.72
2:M:170:PRO:HB3	2:M:186:VAL:HG12	1.70	0.72
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.70	0.72
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.55	0.72
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.24	0.72
8:K:2135:HOH:O	1:L:10:VAL:HG13	1.89	0.72
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.72	0.72
5:F:419:ARG:C	5:F:419:ARG:HG3	2.09	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:361:LEU:HD13	5:F:404:ALA:HB1	1.69	0.72
3:N:126:VAL:HG11	3:N:152:LEU:CD1	2.20	0.72
5:P:416:ARG:HH11	5:P:419:ARG:CD	2.03	0.72
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.72	0.72
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.53	0.72
2:M:314:THR:HG23	8:M:9735:HOH:O	1.90	0.72
3:D:796:ARG:HD3	3:D:862:ASP:OD2	1.89	0.72
3:D:810:GLU:O	3:D:813:LEU:HG	1.89	0.72
5:P:84:TYR:O	5:P:88:ILE:HD12	1.90	0.72
2:M:205:GLU:O	2:M:209:ARG:HD2	1.89	0.72
3:D:471:GLU:HB3	8:D:9613:HOH:O	1.90	0.72
2:C:368:THR:HB	2:C:369:PRO:CD	2.18	0.72
2:M:269:LEU:HA	2:M:288:ARG:NE	2.02	0.72
3:D:683:ILE:HG22	3:D:687:VAL:HG21	1.72	0.72
3:D:172:PRO:HD2	3:D:389:GLU:O	1.90	0.72
2:C:660:ALA:HB1	2:C:667:ALA:O	1.90	0.72
3:D:798:GLU:HG2	3:D:799:LYS:H	1.55	0.72
3:D:430:ASP:HB2	3:D:432:TYR:CE2	2.25	0.72
5:F:82:ARG:O	5:F:86:HIS:HB2	1.89	0.72
1:B:23:PHE:HE1	1:B:208:LEU:HD13	1.53	0.72
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.72	0.72
3:N:1269:LYS:HA	3:N:1269:LYS:HE2	1.71	0.72
1:A:94:LEU:HD21	1:A:119:ASP:CB	2.14	0.72
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.70	0.72
2:M:266:ARG:HD2	8:M:9502:HOH:O	1.90	0.72
2:M:10:ARG:HD2	8:M:9719:HOH:O	1.88	0.72
2:M:250:ARG:NH2	2:M:253:ALA:HB1	2.05	0.72
2:M:490:GLU:HA	2:M:493:ARG:HD2	1.71	0.72
2:M:1110:ASP:HA	8:M:9592:HOH:O	1.90	0.72
2:C:690:ILE:HG21	2:C:833:LEU:HD21	1.72	0.71
2:M:727:PRO:HG2	2:M:785:VAL:HG12	1.70	0.71
3:D:218:LYS:CB	3:D:373:PRO:HA	2.20	0.71
4:E:40:LEU:HB2	4:E:45:ARG:CD	2.20	0.71
2:C:1054:THR:HG23	2:C:1059:ASP:HB2	1.71	0.71
2:C:829:GLN:NE2	2:C:831:ARG:HD3	2.04	0.71
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.72	0.71
5:P:368:VAL:O	5:P:372:ARG:HB2	1.90	0.71
5:P:350:LEU:CD1	5:P:422:LEU:HB3	2.19	0.71
3:N:808:THR:HB	3:N:809:PRO:HD3	1.70	0.71
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.72	0.71
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.72	0.71
5:P:94:LEU:HD13	5:P:96:LEU:N	2.05	0.71
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.70	0.71
2:C:386:PHE:HA	8:C:9659:HOH:O	1.89	0.71
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.91	0.71
2:M:943:VAL:HG13	2:M:985:GLY:H	1.56	0.71
1:K:110:LYS:HD3	8:K:2970:HOH:O	1.90	0.71
2:C:971:LYS:HA	2:C:988:VAL:HA	1.72	0.71
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.71	0.71
3:N:1440:PHE:HB2	3:N:1442:ASN:HD21	1.56	0.71
3:N:1459:LEU:HD11	3:N:1468:LEU:HD13	1.73	0.71
2:C:442:GLU:HB3	8:C:9551:HOH:O	1.88	0.71
2:C:477:GLY:HA3	8:C:9519:HOH:O	1.90	0.71
2:M:14:PRO:HA	8:M:9924:HOH:O	1.89	0.71
5:F:393:THR:HG22	5:F:394:ARG:N	2.06	0.71
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	1.99	0.71
1:K:34:VAL:HG22	1:K:181:VAL:HG21	1.73	0.71
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.72	0.71
2:C:328:LEU:HD13	2:C:433:THR:HB	1.71	0.71
2:C:53:PRO:HB3	8:C:2065:HOH:O	1.91	0.71
3:D:119:SER:HB2	3:D:123:LEU:N	2.05	0.71
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.06	0.71
3:D:1398:TRP:CH2	3:D:1415:VAL:HG11	2.26	0.71
1:A:65:PHE:HE1	2:C:799:ILE:HD11	1.55	0.71
2:M:204:GLN:CD	2:M:222:MET:HB3	2.11	0.71
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.72	0.71
5:F:347:GLN:HB3	8:F:9613:HOH:O	1.90	0.71
5:P:413:SER:CB	5:P:419:ARG:HH21	2.02	0.71
3:N:902:LEU:HA	8:N:9832:HOH:O	1.90	0.71
1:K:143:ARG:HH11	1:K:143:ARG:CG	2.02	0.71
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.71
5:P:161:GLN:HG2	8:P:9608:HOH:O	1.89	0.71
2:C:876:VAL:H	2:C:877:PRO:HD2	1.54	0.71
5:P:205:ARG:HG3	5:P:251:ILE:HD13	1.72	0.71
2:M:21:ILE:HG22	8:M:9955:HOH:O	1.90	0.71
3:D:152:LEU:HD23	3:D:152:LEU:H	1.56	0.71
4:E:40:LEU:HD21	4:E:67:GLU:HA	1.73	0.71
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.06	0.71
2:M:260:LEU:CA	2:M:291:ALA:HB1	2.19	0.71
3:N:145:VAL:HG13	3:N:146:PRO:HD2	1.72	0.71
5:F:358:LEU:HD11	5:F:370:LYS:CD	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:PRO:HG2	1:B:39:PRO:HG2	1.73	0.70
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.06	0.70
3:D:742:GLY:HA3	8:D:2298:HOH:O	1.90	0.70
3:N:1320:GLU:HB3	8:N:9773:HOH:O	1.91	0.70
3:D:676:MET:HG3	8:D:9511:HOH:O	1.89	0.70
2:C:198:ARG:NH2	2:C:203:ASP:HB3	2.05	0.70
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.73	0.70
3:N:806:PHE:HA	8:N:9498:HOH:O	1.91	0.70
2:C:929:ARG:HG3	8:C:9628:HOH:O	1.91	0.70
3:N:728:LEU:HD22	3:N:745:MET:SD	2.31	0.70
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.05	0.70
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.72	0.70
3:D:879:ARG:HG2	8:D:9489:HOH:O	1.89	0.70
3:N:1465:ASN:ND2	3:N:1473:PRO:HG3	2.06	0.70
3:N:955:VAL:O	3:N:1039:CYS:HB3	1.90	0.70
3:D:924:MET:HG2	8:D:9757:HOH:O	1.90	0.70
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.72	0.70
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.26	0.70
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.92	0.70
1:K:127:LEU:HD12	1:K:128:HIS:N	2.07	0.70
3:N:1209:LEU:CD1	3:N:1216:SER:H	2.03	0.70
2:M:874:LEU:HD21	3:N:787:LEU:HD22	1.72	0.70
1:B:78:ILE:HA	8:B:9519:HOH:O	1.91	0.70
4:E:25:LYS:HA	4:E:28:GLN:CD	2.10	0.70
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.73	0.70
5:P:408:LEU:HD23	5:P:409:LYS:N	2.07	0.70
2:C:1018:GLN:HG3	2:C:1083:GLU:HG3	1.74	0.70
2:C:139:GLN:O	2:C:333:ILE:HA	1.90	0.70
5:F:92:PRO:HG2	8:F:9678:HOH:O	1.91	0.70
3:N:1348:LEU:HG	3:N:1375:MET:HE1	1.74	0.70
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.72	0.70
3:N:491:LYS:HE3	8:N:2434:HOH:O	1.91	0.70
2:C:475:VAL:HA	8:C:2211:HOH:O	1.91	0.70
3:D:474:GLU:HA	8:D:9706:HOH:O	1.91	0.70
1:A:14:ARG:HB3	8:A:9617:HOH:O	1.92	0.70
3:D:18:ILE:HD12	3:D:518:PRO:HG3	1.72	0.70
3:N:1490:LYS:NZ	4:O:39:VAL:HA	2.05	0.70
3:N:777:PRO:HG2	3:N:915:VAL:HB	1.72	0.70
2:M:123:GLU:HA	8:M:9669:HOH:O	1.91	0.70
3:N:508:ARG:HG2	3:N:509:PRO:HD2	1.73	0.70
1:K:67:THR:HG22	8:K:913:HOH:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.22	0.70
2:C:254:VAL:O	2:C:257:VAL:HG23	1.91	0.70
1:L:80:LEU:HB3	8:N:9812:HOH:O	1.91	0.70
2:M:904:PRO:HB2	2:M:907:ASP:O	1.91	0.70
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.74	0.70
5:P:371:LEU:HD22	5:P:375:LEU:CD1	2.22	0.70
5:F:137:GLY:HA3	5:F:140:ARG:HH12	1.56	0.70
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.57	0.70
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.73	0.70
3:D:379:ALA:HB3	8:D:2234:HOH:O	1.91	0.70
2:C:588:VAL:HB	8:C:9533:HOH:O	1.92	0.70
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.73	0.70
3:N:477:LEU:HD22	3:N:492:ALA:HB1	1.72	0.70
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.07	0.70
2:C:91:GLN:OE1	2:C:117:HIS:HB3	1.92	0.70
2:C:881:ASN:HD22	2:C:881:ASN:H	1.38	0.70
3:N:30:GLU:HG3	3:N:41:ARG:HE	1.57	0.70
3:N:490:ALA:HA	8:N:9506:HOH:O	1.92	0.70
3:N:675:ARG:O	3:N:678:GLU:HG2	1.92	0.70
2:C:391:LEU:HA	8:C:9691:HOH:O	1.92	0.70
2:C:73:LEU:HB3	2:C:93:PRO:O	1.91	0.70
2:M:1014:SER:HB3	2:M:1017:THR:O	1.92	0.70
5:P:366:ALA:O	5:P:370:LYS:HB3	1.92	0.69
2:C:34:VAL:HG12	8:C:9992:HOH:O	1.92	0.69
1:K:34:VAL:HG21	2:M:939:ARG:NH2	2.07	0.69
2:C:428:ARG:HH21	2:C:451:LEU:HD11	1.56	0.69
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.27	0.69
2:M:563:ASN:HB3	8:M:2167:HOH:O	1.90	0.69
2:M:729:LEU:HD11	8:P:9571:HOH:O	1.92	0.69
3:D:1299:PHE:HB2	8:D:2268:HOH:O	1.92	0.69
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.27	0.69
5:P:162:LYS:HG3	8:P:9778:HOH:O	1.92	0.69
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.27	0.69
2:M:829:GLN:HB2	8:M:9535:HOH:O	1.90	0.69
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.21	0.69
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.54	0.69
2:C:266:ARG:H	2:C:266:ARG:HD2	1.57	0.69
2:C:260:LEU:CA	2:C:291:ALA:HB1	2.22	0.69
3:D:196:VAL:HG13	3:D:202:VAL:HG11	1.72	0.69
3:D:171:LEU:HB3	3:D:390:PRO:HA	1.72	0.69
2:C:454:SER:HB3	8:C:9803:HOH:O	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:348:SER:HA	8:P:9549:HOH:O	1.91	0.69
2:M:580:MET:O	2:M:903:SER:N	2.25	0.69
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.55	0.69
3:N:1061:PHE:HA	8:N:9640:HOH:O	1.90	0.69
2:M:832:LYS:HB2	8:M:2063:HOH:O	1.92	0.69
3:N:1045:MET:HE3	8:N:9780:HOH:O	1.90	0.69
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.74	0.69
3:D:168:THR:HB	3:D:393:ILE:HG13	1.75	0.69
2:C:1101:THR:HG22	3:D:8:VAL:HG22	1.74	0.69
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.74	0.69
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.74	0.69
2:M:768:THR:HB	2:M:771:GLU:HB3	1.75	0.69
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.73	0.69
5:F:371:LEU:HD22	5:F:375:LEU:CD1	2.22	0.69
2:M:461:VAL:CG1	2:M:465:GLY:HA2	2.22	0.69
3:N:18:ILE:HG21	3:N:516:ALA:O	1.92	0.69
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.07	0.69
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.74	0.69
2:M:580:MET:HB3	2:M:584:GLU:CD	2.13	0.69
3:D:35:ARG:HD2	8:D:9736:HOH:O	1.92	0.69
5:P:87:GLU:O	5:P:91:VAL:HG23	1.92	0.69
2:C:341:THR:HG23	2:C:345:ARG:NH2	2.08	0.69
2:C:557:ARG:NH1	2:C:879:ARG:HG2	2.07	0.69
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.72	0.69
3:N:177:ALA:CB	3:N:199:LEU:HD22	2.21	0.69
3:N:624:ASP:N	8:N:2406:HOH:O	2.25	0.69
3:D:459:GLU:HB3	8:D:2363:HOH:O	1.92	0.69
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.73	0.69
2:M:848:VAL:HB	3:N:740:PHE:O	1.91	0.69
3:D:1410:GLU:HG3	8:D:2074:HOH:O	1.92	0.69
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.74	0.69
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.75	0.69
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.22	0.69
4:O:94:PRO:HA	8:O:893:HOH:O	1.93	0.69
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.74	0.69
3:D:1307:LYS:HE3	8:D:2368:HOH:O	1.91	0.69
2:C:42:VAL:HG12	2:C:43:GLY:H	1.58	0.69
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.23	0.69
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.74	0.69
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.28	0.69
1:K:94:LEU:HD21	1:K:119:ASP:CB	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:PHE:CE1	1:B:208:LEU:HD13	2.27	0.69
8:K:4458:HOH:O	1:L:11:PHE:HB2	1.93	0.69
5:F:330:GLY:HA2	5:F:333:ILE:HD12	1.75	0.69
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.27	0.69
3:D:148:GLU:HB3	3:D:151:GLN:CB	2.20	0.69
3:N:984:THR:HG23	3:N:987:GLU:H	1.58	0.69
2:C:149:THR:HB	8:C:9648:HOH:O	1.91	0.69
2:C:1054:THR:HG21	2:C:1079:PRO:CB	2.22	0.69
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.28	0.69
1:L:59:GLU:HG3	1:L:60:ASP:H	1.57	0.69
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.74	0.69
2:M:930:LYS:HA	8:M:2157:HOH:O	1.91	0.69
2:M:570:PRO:HA	8:M:9977:HOH:O	1.91	0.69
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.75	0.69
3:N:997:THR:HG23	8:N:9593:HOH:O	1.93	0.69
1:K:59:GLU:HG3	1:K:60:ASP:H	1.57	0.69
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.23	0.69
5:F:209:PHE:O	5:F:213:ILE:HG13	1.93	0.69
2:C:283:ILE:HG22	2:C:284:ARG:HG3	1.75	0.69
3:N:52:PRO:HG3	3:N:80:VAL:HG23	1.75	0.69
3:N:171:LEU:HD23	3:N:390:PRO:HG3	1.75	0.69
3:N:1327:ARG:HB3	8:N:9839:HOH:O	1.93	0.69
3:N:1264:GLU:O	3:N:1266:ARG:HG3	1.92	0.69
3:D:474:GLU:O	3:D:478:LEU:HG	1.92	0.69
2:M:1105:LYS:HD2	8:M:9576:HOH:O	1.92	0.69
5:P:351:SER:O	5:P:355:GLU:HB2	1.92	0.69
3:N:125:GLN:HG2	8:N:9888:HOH:O	1.93	0.69
3:N:404:GLU:OE1	3:N:414:ARG:HD3	1.92	0.69
3:N:218:LYS:CB	3:N:373:PRO:HA	2.23	0.69
3:N:496:LEU:HD23	3:N:500:ARG:HG3	1.75	0.69
2:C:1094:ALA:HB3	3:D:603:LEU:HD22	1.75	0.69
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.73	0.69
1:B:176:ARG:HH22	3:D:884:ARG:NE	1.90	0.69
3:N:149:LYS:CD	3:N:149:LYS:H	2.01	0.69
2:C:575:GLN:H	2:C:667:ALA:HB1	1.58	0.69
3:D:432:TYR:HD2	8:D:9724:HOH:O	1.76	0.69
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.57	0.69
2:M:553:ASP:HA	2:M:881:ASN:HA	1.74	0.69
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.58	0.69
4:E:82:GLU:CD	4:E:82:GLU:H	1.95	0.69
5:F:273:ARG:HA	5:F:276:ARG:HG3	1.76	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.58	0.68
3:D:702:LEU:HD23	3:D:745:MET:CE	2.22	0.68
8:C:9511:HOH:O	3:D:13:ALA:HA	1.92	0.68
2:C:730:SER:O	2:C:734:LEU:HD23	1.92	0.68
5:F:93:LEU:HG	5:F:190:ALA:CB	2.22	0.68
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.74	0.68
5:P:316:SER:OG	5:P:318:GLU:HG3	1.93	0.68
2:M:783:ARG:O	2:M:785:VAL:N	2.26	0.68
1:K:95:GLN:HG3	8:K:802:HOH:O	1.92	0.68
2:C:490:GLU:HB3	8:C:9678:HOH:O	1.92	0.68
3:D:223:LEU:HA	8:D:9492:HOH:O	1.93	0.68
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.58	0.68
1:B:5:LYS:O	1:B:8:ALA:HB2	1.92	0.68
1:K:5:LYS:O	1:K:8:ALA:HB2	1.93	0.68
5:P:413:SER:HA	5:P:419:ARG:NE	2.07	0.68
4:O:41:GLU:HB3	8:O:3641:HOH:O	1.94	0.68
2:C:283:ILE:HG21	8:C:9739:HOH:O	1.93	0.68
1:B:59:GLU:HG3	1:B:60:ASP:H	1.58	0.68
3:D:1162:GLU:HB2	8:D:9602:HOH:O	1.92	0.68
2:C:292:ARG:NH1	2:C:299:LYS:HD3	2.09	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.27	0.68
3:D:1009:LYS:O	3:D:1013:GLU:HG2	1.93	0.68
3:D:1218:GLY:HA2	8:D:9761:HOH:O	1.93	0.68
5:P:232:ARG:HG2	8:P:9663:HOH:O	1.93	0.68
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.76	0.68
2:C:760:SER:O	2:C:785:VAL:HG22	1.93	0.68
2:M:725:ASP:O	2:M:727:PRO:HD3	1.92	0.68
2:C:876:VAL:HG22	2:C:884:GLN:NE2	2.08	0.68
5:F:118:GLU:HB3	8:F:9490:HOH:O	1.92	0.68
1:K:139:ASN:HB2	8:K:845:HOH:O	1.92	0.68
1:B:191:ASP:HB2	8:B:9576:HOH:O	1.93	0.68
1:B:90:LEU:HD12	8:B:9478:HOH:O	1.94	0.68
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.74	0.68
2:C:728:HIS:O	2:C:729:LEU:HD22	1.93	0.68
3:N:135:LEU:HD11	3:N:452:ILE:HD11	1.75	0.68
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.74	0.68
1:L:106:PRO:HB2	8:L:1100:HOH:O	1.92	0.68
3:N:660:LYS:HD3	8:N:9491:HOH:O	1.91	0.68
2:M:231:PRO:HA	8:M:9534:HOH:O	1.93	0.68
3:D:550:ARG:HD3	8:D:9518:HOH:O	1.93	0.68
3:D:1312:LEU:HD12	3:D:1326:THR:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1327:ARG:HD2	8:D:9883:HOH:O	1.91	0.68
2:C:31:GLN:OE1	2:C:40:GLU:HB2	1.93	0.68
3:N:861:GLN:N	3:N:861:GLN:HE21	1.79	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.75	0.68
3:D:1412:LYS:HD2	3:D:1414:PRO:HG3	1.74	0.68
2:M:250:ARG:HB3	2:M:253:ALA:CB	2.24	0.68
3:N:824:ASN:HB2	8:N:9847:HOH:O	1.93	0.68
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.76	0.68
5:P:169:GLU:H	5:P:169:GLU:CD	1.96	0.68
3:D:863:VAL:HG23	8:D:9469:HOH:O	1.93	0.68
3:D:443:VAL:HG21	8:D:9877:HOH:O	1.93	0.68
5:F:401:GLU:O	5:F:405:LEU:HB2	1.92	0.68
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	2.29	0.68
3:N:1397:LYS:HZ1	3:N:1432:LYS:HB3	1.55	0.68
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.08	0.68
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.74	0.68
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.74	0.68
3:D:235:ALA:HA	8:D:9481:HOH:O	1.93	0.68
1:L:94:LEU:HD21	1:L:119:ASP:CB	2.09	0.68
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.76	0.68
3:D:149:LYS:H	3:D:149:LYS:CD	2.06	0.68
2:C:12:VAL:HG12	8:C:2224:HOH:O	1.94	0.68
1:L:137:ARG:HH12	1:L:139:ASN:CB	2.07	0.68
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.76	0.68
1:K:227:ASN:HD22	1:K:227:ASN:H	1.39	0.68
4:E:74:VAL:HG12	4:E:79:LEU:HD21	1.75	0.68
2:C:326:ASP:HB2	8:C:9825:HOH:O	1.92	0.68
2:M:73:LEU:CD2	2:M:94:LEU:HB2	2.24	0.68
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.24	0.68
2:C:432:ARG:HG3	8:C:9911:HOH:O	1.93	0.68
2:C:694:LEU:HD23	2:C:697:ARG:HH21	1.58	0.68
2:C:589:ARG:HD3	2:C:596:TYR:CE1	2.29	0.68
3:N:1422:MET:CE	3:N:1427:SER:HA	2.23	0.68
5:P:148:LYS:HD2	8:P:9482:HOH:O	1.92	0.68
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.76	0.68
3:N:386:HIS:O	5:P:96:LEU:HD12	1.94	0.68
3:N:795:VAL:HG23	3:N:879:ARG:NH2	2.09	0.68
3:D:422:ALA:HB1	5:F:178:ARG:HH12	1.59	0.68
2:C:65:VAL:O	2:C:101:ILE:HG12	1.93	0.68
3:D:33:ASN:HB2	3:D:40:GLU:OE1	1.93	0.68
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG22	1:L:209:GLU:H	1.57	0.68
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.68
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.58	0.68
3:N:908:LYS:HG2	8:N:9858:HOH:O	1.94	0.68
2:C:889:HIS:HE1	3:D:951:ILE:H	1.38	0.68
1:K:98:THR:HG21	8:K:2063:HOH:O	1.93	0.68
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.76	0.68
3:D:417:PRO:HB2	8:D:9534:HOH:O	1.92	0.68
3:N:1083:ASP:O	3:N:1087:ARG:HG2	1.93	0.67
2:C:734:LEU:HA	2:C:737:LEU:HD12	1.76	0.67
2:M:198:ARG:HG2	8:M:9515:HOH:O	1.93	0.67
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.76	0.67
2:C:691:SER:HB2	2:C:858:MET:SD	2.34	0.67
2:M:135:VAL:HB	2:M:406:HIS:CE1	2.29	0.67
1:B:123:MET:C	1:B:125:PRO:HD3	2.14	0.67
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.77	0.67
5:P:234:LYS:HE3	5:P:236:SER:HB2	1.74	0.67
2:C:1095:LEU:HA	3:D:582:LEU:HD22	1.73	0.67
3:N:558:LEU:HB3	5:P:145:PRO:HB3	1.75	0.67
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.24	0.67
3:N:861:GLN:HA	8:N:9914:HOH:O	1.94	0.67
2:C:342:ASP:HA	2:C:345:ARG:HE	1.59	0.67
4:O:51:LEU:HD12	4:O:52:GLU:H	1.57	0.67
3:D:133:ILE:HD12	8:D:2265:HOH:O	1.94	0.67
2:C:1005:MET:SD	3:D:648:MET:HB2	2.34	0.67
1:B:195:LEU:HD12	1:B:196:THR:N	2.08	0.67
3:D:1162:GLU:HB3	8:D:2357:HOH:O	1.93	0.67
2:M:484:VAL:HG22	8:M:9670:HOH:O	1.94	0.67
2:C:1081:VAL:HB	2:C:1086:ARG:HH21	1.59	0.67
1:B:11:PHE:HD1	1:B:25:LEU:HD12	1.58	0.67
3:D:818:ARG:HA	8:D:2054:HOH:O	1.94	0.67
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.29	0.67
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.75	0.67
2:C:64:LEU:HD11	8:C:9904:HOH:O	1.94	0.67
2:C:221:LEU:HG	8:C:9564:HOH:O	1.94	0.67
3:D:149:LYS:HE2	3:D:149:LYS:H	1.59	0.67
2:M:568:ALA:HB3	2:M:668:LEU:HD22	1.75	0.67
1:B:39:PRO:O	1:B:43:ILE:HG12	1.94	0.67
3:D:1452:ILE:HD12	8:D:9532:HOH:O	1.94	0.67
1:K:11:PHE:HB3	8:L:679:HOH:O	1.95	0.67
1:A:93:SER:HB3	8:A:9454:HOH:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.76	0.67
5:F:356:LYS:HG2	8:F:9639:HOH:O	1.95	0.67
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.75	0.67
5:F:419:ARG:CG	5:F:419:ARG:C	2.62	0.67
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.76	0.67
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.25	0.67
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.76	0.67
3:D:154:THR:HG22	3:D:156:GLU:H	1.60	0.67
1:L:73:GLU:OE1	1:L:130:ALA:HA	1.95	0.67
1:A:227:ASN:H	1:A:227:ASN:HD22	1.40	0.67
2:M:655:LEU:HD11	8:M:9608:HOH:O	1.94	0.67
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.60	0.67
3:D:756:GLN:O	3:D:760:ARG:HG2	1.95	0.67
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.24	0.67
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.60	0.67
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.24	0.67
2:C:185:LYS:HD2	8:C:9927:HOH:O	1.93	0.67
2:M:148:PHE:CZ	2:M:281:LEU:HD22	2.29	0.67
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.10	0.67
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.07	0.67
2:M:1004:LYS:HE2	2:M:1027:PHE:CZ	2.29	0.67
1:A:110:LYS:HE2	8:A:9467:HOH:O	1.93	0.67
3:D:93:ILE:HG12	3:D:548:ILE:HD11	1.77	0.67
3:N:1389:LEU:HD23	3:N:1389:LEU:N	2.06	0.67
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.23	0.67
1:B:176:ARG:HH22	3:D:884:ARG:CD	2.08	0.67
3:D:1459:LEU:HB3	3:D:1465:ASN:HD22	1.59	0.67
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.09	0.67
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.76	0.67
1:A:123:MET:C	1:A:125:PRO:HD3	2.14	0.67
1:A:59:GLU:HG3	1:A:60:ASP:H	1.59	0.67
3:N:1295:GLU:HB3	3:N:1300:SER:OG	1.94	0.67
1:B:172:SER:HB2	8:B:9529:HOH:O	1.94	0.67
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.76	0.67
1:B:133:GLU:HG3	1:B:134:GLU:N	2.09	0.67
2:M:135:VAL:HB	2:M:406:HIS:HE1	1.60	0.67
2:M:136:ILE:HD13	2:M:392:SER:HB2	1.76	0.67
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.59	0.67
3:N:1489:GLN:HE22	3:N:1492:LEU:HG	1.60	0.67
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.77	0.67
5:F:366:ALA:O	5:F:370:LYS:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:550:ARG:HA	8:D:9518:HOH:O	1.94	0.67
3:N:777:PRO:HD2	3:N:912:LYS:HG2	1.75	0.67
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.75	0.67
2:M:445:GLU:HG2	8:M:9829:HOH:O	1.94	0.67
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.76	0.67
5:P:257:THR:HB	5:P:314:PRO:HG2	1.75	0.67
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.76	0.67
3:N:699:VAL:N	3:N:756:GLN:HE22	1.92	0.67
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.77	0.67
2:M:185:LYS:HD2	8:M:9773:HOH:O	1.95	0.67
3:D:817:GLU:O	3:D:821:VAL:HG23	1.95	0.67
1:A:18:ARG:NH1	1:A:88:ARG:HE	1.93	0.67
1:A:191:ASP:HB2	8:C:9606:HOH:O	1.95	0.67
3:N:675:ARG:HD3	8:N:9600:HOH:O	1.94	0.67
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.13	0.67
1:B:32:PHE:HB3	8:B:9655:HOH:O	1.94	0.67
3:N:233:LYS:HA	8:N:2413:HOH:O	1.95	0.67
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.77	0.67
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.78	0.66
2:C:163:ILE:HG12	2:C:163:ILE:O	1.95	0.66
3:D:449:SER:HB3	8:D:9476:HOH:O	1.94	0.66
5:F:291:ILE:CG2	5:F:304:VAL:HG21	2.23	0.66
1:K:123:MET:C	1:K:125:PRO:HD3	2.16	0.66
3:N:785:ILE:HD12	3:N:785:ILE:H	1.59	0.66
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.76	0.66
2:C:961:GLU:HG2	8:C:9994:HOH:O	1.94	0.66
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.76	0.66
3:D:1307:LYS:HA	8:D:9947:HOH:O	1.95	0.66
5:F:115:LYS:HD2	8:F:9528:HOH:O	1.95	0.66
3:N:1025:GLN:HA	3:N:1025:GLN:OE1	1.94	0.66
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.77	0.66
2:M:730:SER:O	2:M:734:LEU:HD23	1.94	0.66
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.77	0.66
1:L:94:LEU:CD2	1:L:119:ASP:HB3	2.09	0.66
1:A:5:LYS:O	1:A:8:ALA:HB2	1.93	0.66
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.59	0.66
2:C:288:ARG:HA	2:C:288:ARG:NE	2.10	0.66
2:C:758:ARG:HB3	2:C:788:THR:O	1.95	0.66
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.78	0.66
3:D:1203:LYS:HG3	8:D:2468:HOH:O	1.92	0.66
5:F:209:PHE:CD2	5:F:213:ILE:HD11	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.59	0.66
2:M:289:THR:HG23	8:M:9502:HOH:O	1.95	0.66
2:C:172:ILE:H	2:C:172:ILE:HD12	1.60	0.66
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.75	0.66
3:D:705:ALA:HB2	8:D:9759:HOH:O	1.94	0.66
2:M:247:PRO:HG3	8:M:9717:HOH:O	1.94	0.66
5:P:167:PRO:HB2	5:P:169:GLU:OE1	1.95	0.66
2:C:715:THR:HG22	2:C:717:LEU:H	1.60	0.66
5:P:102:LEU:O	5:P:106:VAL:HG23	1.95	0.66
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.76	0.66
1:A:18:ARG:O	1:A:207:PRO:HD3	1.96	0.66
1:L:123:MET:C	1:L:125:PRO:HD3	2.16	0.66
3:N:864:VAL:HG12	3:N:865:THR:H	1.60	0.66
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.77	0.66
5:P:200:LYS:HG3	5:P:209:PHE:CZ	2.30	0.66
3:D:1126:ASP:OD1	3:D:1129:THR:HA	1.95	0.66
1:L:89:PHE:CB	1:L:94:LEU:HD22	2.25	0.66
3:N:393:ILE:HG21	8:N:2370:HOH:O	1.95	0.66
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.10	0.66
3:N:119:SER:H	3:N:123:LEU:CD1	2.08	0.66
3:N:133:ILE:HG22	3:N:455:ARG:N	2.10	0.66
3:N:984:THR:CG2	3:N:987:GLU:H	2.09	0.66
3:D:161:LEU:O	3:D:449:SER:HB2	1.96	0.66
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.77	0.66
3:D:1269:LYS:HA	3:D:1269:LYS:HE2	1.77	0.66
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.78	0.66
3:D:979:GLU:HG3	8:D:9614:HOH:O	1.95	0.66
2:C:453:THR:HG21	8:C:9979:HOH:O	1.95	0.66
2:M:693:GLU:HG2	8:M:9913:HOH:O	1.96	0.66
1:L:162:ILE:HG23	8:L:4097:HOH:O	1.93	0.66
5:F:260:ILE:HG12	5:F:264:MET:HB2	1.78	0.66
5:P:415:THR:O	5:P:417:LYS:HG3	1.95	0.66
1:B:89:PHE:CB	1:B:94:LEU:HD22	2.26	0.66
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.25	0.66
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.77	0.66
2:C:626:ARG:HB3	8:C:9559:HOH:O	1.96	0.66
2:M:798:GLY:H	2:M:827:VAL:HG11	1.59	0.66
3:D:63:TYR:HB3	3:D:68:PHE:HD1	1.60	0.66
3:N:543:LEU:HD21	3:N:600:LEU:HB2	1.77	0.66
3:N:1497:GLU:O	3:N:1501:GLU:HG3	1.96	0.66
1:L:162:ILE:HG21	8:L:5120:HOH:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:63:GLY:O	2:C:103:LYS:HE2	1.95	0.66
2:C:577:PRO:HA	2:C:671:ASN:HD21	1.60	0.66
5:F:262:VAL:HG23	8:F:9481:HOH:O	1.95	0.66
5:F:199:ALA:HA	8:F:9547:HOH:O	1.95	0.66
2:M:360:LEU:HD21	8:M:2232:HOH:O	1.95	0.66
2:C:368:THR:HG22	8:C:9664:HOH:O	1.95	0.66
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.58	0.66
2:M:1003:ASP:HB3	8:M:2181:HOH:O	1.95	0.66
1:L:23:PHE:HE1	1:L:208:LEU:HD13	1.60	0.66
3:D:456:MET:HG2	3:D:568:ARG:NH1	2.11	0.66
3:D:422:ALA:H	3:D:427:VAL:CG1	2.09	0.66
3:N:1312:LEU:HA	8:N:2142:HOH:O	1.96	0.66
2:M:36:PRO:CG	2:M:70:GLU:HB3	2.25	0.66
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.77	0.66
8:N:2375:HOH:O	5:P:374:GLY:HA3	1.95	0.66
1:L:77:GLU:HB2	3:N:872:ARG:HH21	1.60	0.66
3:N:210:ARG:HG3	3:N:398:ALA:H	1.60	0.66
2:C:128:ILE:HG22	8:C:9592:HOH:O	1.94	0.66
2:M:353:ARG:HG2	8:M:9875:HOH:O	1.95	0.66
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.07	0.66
2:M:420:ARG:HD2	2:M:420:ARG:N	2.11	0.66
3:D:1459:LEU:HD12	3:D:1470:ARG:HH11	1.61	0.66
2:C:301:GLU:HB2	8:C:9986:HOH:O	1.95	0.66
5:P:222:ARG:HA	8:P:9484:HOH:O	1.96	0.66
2:C:729:LEU:HD11	5:F:419:ARG:HH22	1.59	0.66
5:F:406:ARG:O	5:F:409:LYS:HG2	1.96	0.66
3:D:526:PRO:O	3:D:537:THR:HA	1.95	0.66
3:D:149:LYS:HB3	8:D:2307:HOH:O	1.95	0.66
3:D:510:GLU:O	3:D:513:ILE:HD12	1.95	0.66
3:D:1197:ARG:HD3	3:D:1396:GLU:HB2	1.77	0.66
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.61	0.66
2:M:599:GLU:HB3	8:M:2119:HOH:O	1.95	0.66
1:A:27:PRO:HB2	8:A:9548:HOH:O	1.95	0.66
2:C:51:THR:HB	2:C:348:LEU:HD23	1.76	0.66
2:C:650:ARG:N	2:C:650:ARG:HD3	2.11	0.65
5:P:350:LEU:HD12	5:P:422:LEU:HD12	1.77	0.65
2:M:194:VAL:HG13	2:M:221:LEU:HD12	1.77	0.65
5:F:92:PRO:HB2	8:F:9823:HOH:O	1.95	0.65
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.60	0.65
1:A:58:ILE:HB	1:A:61:VAL:HB	1.79	0.65
3:N:1398:TRP:CE3	3:N:1415:VAL:HG11	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:873:LEU:HD21	8:D:9775:HOH:O	1.97	0.65
4:O:41:GLU:HA	4:O:45:ARG:HG3	1.79	0.65
3:D:481:MET:HG2	3:D:493:ARG:NH2	2.11	0.65
1:K:97:VAL:HG23	8:K:1185:HOH:O	1.95	0.65
3:D:805:GLU:HB2	8:D:2175:HOH:O	1.95	0.65
3:D:842:VAL:HG23	8:D:2600:HOH:O	1.95	0.65
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.78	0.65
3:D:1359:GLN:HG2	8:D:9842:HOH:O	1.96	0.65
3:N:87:ARG:HB2	3:N:523:ASP:HB2	1.78	0.65
3:N:525:ARG:HE	3:N:541:ASN:HD21	1.43	0.65
3:D:87:ARG:HG3	3:D:88:TYR:N	2.12	0.65
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.11	0.65
3:D:1400:VAL:HG12	8:D:9583:HOH:O	1.95	0.65
2:M:411:SER:OG	2:M:452:ILE:HG23	1.96	0.65
2:M:172:ILE:HA	2:M:185:LYS:O	1.96	0.65
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.78	0.65
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.11	0.65
5:P:367:MET:CE	5:P:371:LEU:HD11	2.26	0.65
3:D:1481:VAL:HG22	8:E:9450:HOH:O	1.97	0.65
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.93	0.65
5:F:138:SER:O	5:F:141:VAL:HG12	1.97	0.65
2:C:1005:MET:HE3	3:D:724:GLN:O	1.96	0.65
3:N:28:LYS:CD	3:N:41:ARG:HD2	2.26	0.65
3:D:1132:LEU:HD23	8:D:9601:HOH:O	1.95	0.65
3:D:613:ARG:HG3	3:D:613:ARG:HH11	1.61	0.65
2:C:120:LEU:HD13	8:C:2036:HOH:O	1.95	0.65
5:P:406:ARG:HA	5:P:409:LYS:CG	2.26	0.65
2:M:1087:VAL:HA	8:M:9750:HOH:O	1.95	0.65
3:D:814:ALA:O	3:D:818:ARG:HG3	1.97	0.65
2:C:399:ASN:ND2	2:C:568:ALA:HB3	2.12	0.65
3:N:693:GLU:HG2	4:O:48:MET:SD	2.37	0.65
2:M:1:MET:HE1	8:M:2194:HOH:O	1.96	0.65
1:A:90:LEU:HD21	8:A:9506:HOH:O	1.96	0.65
5:F:295:MET:HE2	5:F:295:MET:HA	1.77	0.65
2:M:805:ARG:HD3	8:M:2083:HOH:O	1.96	0.65
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.27	0.65
5:F:234:LYS:HD2	5:F:236:SER:H	1.61	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.77	0.65
4:O:40:LEU:HD12	4:O:40:LEU:O	1.97	0.65
1:A:65:PHE:CE1	2:C:799:ILE:HD11	2.31	0.65
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1033:GLY:O	2:C:1037:VAL:HG23	1.95	0.65
5:F:371:LEU:HD22	5:F:375:LEU:HD13	1.78	0.65
2:C:464:LEU:HD12	2:C:465:GLY:N	2.11	0.65
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.12	0.65
3:N:601:ARG:HH11	3:N:613:ARG:HH21	1.44	0.65
2:M:43:GLY:HA2	2:M:341:THR:CG2	2.27	0.65
3:N:786:ILE:CD1	3:N:908:LYS:HB3	2.26	0.65
2:M:107:LEU:HD11	8:M:9696:HOH:O	1.96	0.65
3:N:1271:LYS:HE3	3:N:1334:GLN:HE22	1.62	0.65
5:F:403:LYS:HB3	8:F:9814:HOH:O	1.95	0.65
2:M:804:VAL:HB	2:M:824:ARG:HB2	1.79	0.65
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.97	0.65
2:C:100:LEU:HD13	8:C:9627:HOH:O	1.96	0.65
3:N:168:THR:C	3:N:170:PRO:HD3	2.17	0.65
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.10	0.65
2:C:420:ARG:HD2	2:C:420:ARG:N	2.09	0.65
2:C:383:ARG:HD2	8:C:2220:HOH:O	1.95	0.65
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.78	0.65
3:N:414:ARG:HG3	3:N:418:GLY:O	1.97	0.65
1:B:226:SER:O	1:B:228:PRO:HD3	1.96	0.65
1:L:152:PRO:HD2	1:L:155:LYS:HB2	1.79	0.65
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.97	0.65
3:N:119:SER:CB	3:N:123:LEU:HB2	2.21	0.65
2:M:17:PRO:HD2	8:M:9519:HOH:O	1.96	0.65
2:C:274:ARG:H	2:C:288:ARG:NH1	1.94	0.65
2:C:290:LEU:H	2:C:290:LEU:HD23	1.62	0.65
2:C:721:ARG:HE	2:C:783:ARG:HH21	1.44	0.65
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.79	0.65
3:N:54:LYS:HD3	3:N:57:GLU:HB2	1.79	0.65
3:N:864:VAL:HG12	3:N:865:THR:N	2.12	0.65
2:M:593:ALA:HA	8:M:9732:HOH:O	1.96	0.65
2:C:909:ALA:HB1	2:C:914:ILE:HD11	1.79	0.65
2:M:504:GLU:HB2	2:M:507:ARG:HD2	1.77	0.65
2:C:112:GLU:HG2	8:C:2042:HOH:O	1.97	0.65
2:M:820:ARG:HA	8:M:9511:HOH:O	1.95	0.65
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.77	0.65
1:A:184:THR:O	1:A:192:LEU:HD12	1.97	0.65
3:D:534:ARG:HG2	5:F:312:GLN:NE2	2.12	0.65
2:C:554:ASP:OD2	2:C:556:ASN:HB3	1.97	0.65
1:A:34:VAL:HG22	1:A:181:VAL:HG21	1.78	0.64
3:D:1432:LYS:HZ3	3:D:1460:ILE:HB	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:396:VAL:HG22	3:D:447:VAL:HB	1.79	0.64
3:N:1378:TYR:O	3:N:1420:LEU:HB3	1.97	0.64
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.18	0.64
1:A:56:VAL:HG22	1:A:142:VAL:HG12	1.78	0.64
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.79	0.64
2:M:1085:PHE:CZ	3:N:1468:LEU:HG	2.31	0.64
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.78	0.64
2:M:412:ALA:HA	8:M:9833:HOH:O	1.96	0.64
2:C:172:ILE:HA	2:C:185:LYS:O	1.97	0.64
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	2.12	0.64
2:C:810:ASP:HA	8:C:2192:HOH:O	1.97	0.64
3:D:657:LEU:O	3:D:661:MET:HG2	1.97	0.64
2:M:798:GLY:H	2:M:827:VAL:CG1	2.10	0.64
3:N:1127:GLU:HB3	8:N:2461:HOH:O	1.95	0.64
2:C:227:PHE:HB2	8:C:2150:HOH:O	1.96	0.64
3:N:553:ARG:HH21	5:P:215:GLU:HG2	1.61	0.64
3:D:212:ARG:HD2	3:D:445:ARG:HH12	1.62	0.64
2:M:601:GLY:O	2:M:648:ARG:HA	1.97	0.64
3:N:1454:GLY:HA3	8:N:9670:HOH:O	1.97	0.64
5:P:409:LYS:HB3	8:P:9577:HOH:O	1.98	0.64
3:N:423:ASP:OD1	5:P:175:HIS:HA	1.98	0.64
2:C:34:VAL:HG23	8:C:2231:HOH:O	1.98	0.64
3:D:425:GLY:HA3	5:F:135:ILE:HD13	1.79	0.64
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.32	0.64
2:M:290:LEU:HD22	2:M:302:VAL:CG1	2.27	0.64
1:K:102:LYS:HG2	8:K:1171:HOH:O	1.97	0.64
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.79	0.64
3:D:415:VAL:HG11	8:D:2050:HOH:O	1.96	0.64
2:C:1088:LEU:HD12	8:D:2415:HOH:O	1.96	0.64
3:N:73:CYS:HB3	3:N:76:CYS:O	1.96	0.64
4:O:95:GLY:HA3	8:O:830:HOH:O	1.97	0.64
1:B:20:TYR:HB3	8:B:9497:HOH:O	1.96	0.64
5:F:361:LEU:HD22	5:F:404:ALA:HB1	1.79	0.64
3:D:524:LEU:C	3:D:526:PRO:HD3	2.18	0.64
2:C:1095:LEU:HG	3:D:603:LEU:HB3	1.79	0.64
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.78	0.64
2:M:670:GLN:HB3	2:M:699:PHE:CE2	2.32	0.64
3:D:1412:LYS:HE3	8:D:2116:HOH:O	1.96	0.64
3:D:566:ILE:HD13	5:F:217:ASN:HB3	1.78	0.64
2:M:767:PRO:HG2	8:M:2141:HOH:O	1.98	0.64
3:N:60:CYS:HB2	8:N:9509:HOH:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:817:GLU:O	3:N:821:VAL:HG23	1.98	0.64
2:C:66:LEU:HB2	8:C:9904:HOH:O	1.97	0.64
3:N:185:VAL:HG11	8:N:2341:HOH:O	1.97	0.64
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.78	0.64
2:M:110:GLU:CB	2:M:369:PRO:HG3	2.27	0.64
5:P:279:GLN:HG3	8:P:9541:HOH:O	1.98	0.64
3:D:1304:LYS:CD	3:D:1304:LYS:H	2.07	0.64
3:N:486:ARG:HH21	3:N:489:ARG:CZ	2.09	0.64
2:M:1089:VAL:HG13	2:M:1099:VAL:CG2	2.26	0.64
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.62	0.64
5:P:220:LEU:HD12	5:P:243:ILE:HD11	1.79	0.64
3:D:988:ARG:O	3:D:992:ILE:HG13	1.98	0.64
5:F:289:GLU:HA	8:F:9486:HOH:O	1.96	0.64
2:M:1090:LYS:HE3	3:N:88:TYR:O	1.98	0.64
2:C:1095:LEU:HD21	3:D:604:THR:N	2.12	0.64
1:A:198:ARG:NH2	2:C:932:GLU:HB3	2.13	0.64
2:M:158:TYR:HB2	2:M:313:LEU:HD21	1.79	0.64
3:D:813:LEU:HD11	8:D:9968:HOH:O	1.98	0.64
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.80	0.64
1:K:171:PHE:O	1:K:173:PRO:HD3	1.98	0.64
2:C:961:GLU:HG3	8:C:9735:HOH:O	1.96	0.64
3:N:1243:THR:HB	3:N:1253:THR:HB	1.79	0.64
5:F:270:LYS:HA	8:F:9592:HOH:O	1.96	0.64
1:B:189:ARG:HD2	8:B:9558:HOH:O	1.98	0.64
3:N:1192:LEU:HD22	3:N:1345:GLU:CD	2.18	0.64
2:C:1031:ARG:HD3	3:D:619:LEU:HD21	1.79	0.64
1:L:90:LEU:HD13	8:L:1194:HOH:O	1.96	0.64
1:A:73:GLU:OE1	1:A:130:ALA:HA	1.97	0.64
2:C:247:PRO:HD2	8:C:9536:HOH:O	1.97	0.64
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.80	0.64
3:N:617:ASN:C	3:N:619:LEU:H	2.01	0.64
2:M:139:GLN:HB3	2:M:334:ARG:HD2	1.79	0.64
2:M:269:LEU:H	2:M:269:LEU:HD23	1.62	0.64
2:C:841:ASN:C	2:C:841:ASN:HD22	2.01	0.64
3:D:658:LEU:HD13	3:D:670:VAL:HG13	1.78	0.64
5:F:205:ARG:HG3	5:F:251:ILE:HD13	1.79	0.64
3:N:28:LYS:HD3	3:N:41:ARG:HD2	1.79	0.64
2:M:630:ARG:HD3	2:M:705:ILE:HG22	1.79	0.64
2:M:1045:ALA:HA	3:N:758:GLU:CD	2.17	0.64
3:N:694:VAL:HG13	8:N:9768:HOH:O	1.96	0.64
2:C:599:GLU:HG3	2:C:600:ASP:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.32	0.64
3:D:972:LEU:HD23	3:D:973:GLN:N	2.11	0.64
3:N:1388:ARG:HG3	3:N:1389:LEU:HD23	1.80	0.64
3:N:422:ALA:HB1	5:P:178:ARG:CZ	2.28	0.64
3:D:1312:LEU:HD21	8:D:2130:HOH:O	1.98	0.64
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.79	0.64
2:M:129:ILE:HG22	2:M:130:ASN:N	2.13	0.64
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	1.98	0.64
3:N:598:ARG:HG2	8:N:9783:HOH:O	1.97	0.64
5:P:160:ASP:O	5:P:164:LYS:HG3	1.97	0.64
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.98	0.64
3:N:369:ALA:O	3:N:370:ALA:HB2	1.98	0.64
1:K:58:ILE:HB	1:K:61:VAL:HB	1.80	0.64
2:M:332:ARG:NE	2:M:464:LEU:HD21	2.13	0.64
5:F:393:THR:HG22	5:F:394:ARG:H	1.63	0.64
1:L:5:LYS:O	1:L:8:ALA:HB2	1.98	0.64
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.11	0.64
3:D:369:ALA:O	3:D:370:ALA:HB2	1.98	0.64
3:D:584:ASN:HD21	3:D:590:PRO:HB2	1.61	0.64
3:N:116:LEU:CD2	3:N:468:LEU:HD21	2.28	0.64
1:A:194:LYS:HG2	8:A:9445:HOH:O	1.98	0.64
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.79	0.64
3:D:422:ALA:HB2	8:F:9563:HOH:O	1.98	0.64
1:L:175:ARG:HD2	8:N:2419:HOH:O	1.97	0.64
1:B:130:ALA:HB2	8:B:9503:HOH:O	1.98	0.64
2:M:707:ARG:HD2	2:M:824:ARG:HH11	1.63	0.64
1:B:103:ALA:HB2	8:B:9640:HOH:O	1.96	0.64
3:D:63:TYR:HB3	3:D:68:PHE:CD1	2.33	0.64
1:A:89:PHE:HB3	1:A:94:LEU:HD22	1.80	0.64
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.29	0.64
3:N:787:LEU:HD21	3:N:947:ILE:HD11	1.80	0.64
2:C:14:PRO:HA	8:C:9630:HOH:O	1.98	0.64
2:C:650:ARG:CD	2:C:650:ARG:H	2.00	0.64
3:N:1314:LYS:N	3:N:1314:LYS:HD3	2.13	0.64
3:N:1101:VAL:HG11	3:N:1424:VAL:CG2	2.28	0.64
2:C:442:GLU:HG3	8:C:2023:HOH:O	1.97	0.64
2:C:244:PRO:HD2	2:C:245:GLY:H	1.62	0.64
4:O:50:THR:HG22	8:O:4507:HOH:O	1.98	0.64
2:C:834:GLN:HG2	8:C:9652:HOH:O	1.97	0.64
2:C:866:PRO:HD2	8:C:9576:HOH:O	1.98	0.64
3:N:440:VAL:HG13	8:N:9706:HOH:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:696:HIS:HA	8:D:2155:HOH:O	1.98	0.64
5:P:358:LEU:O	5:P:358:LEU:HD23	1.97	0.63
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.33	0.63
1:B:10:VAL:HG12	1:B:12:THR:HG22	1.81	0.63
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.80	0.63
2:M:571:LEU:CD2	2:M:700:TYR:HA	2.28	0.63
2:C:73:LEU:HG	2:C:94:LEU:HD13	1.80	0.63
3:D:404:GLU:HB3	3:D:414:ARG:NE	2.13	0.63
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.28	0.63
1:A:34:VAL:HG23	8:A:9440:HOH:O	1.97	0.63
4:E:47:LYS:HE3	8:E:9392:HOH:O	1.97	0.63
2:C:36:PRO:CG	2:C:70:GLU:HB3	2.26	0.63
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.79	0.63
1:K:73:GLU:OE1	1:K:130:ALA:HA	1.98	0.63
3:N:227:LEU:HA	8:N:9599:HOH:O	1.97	0.63
1:L:58:ILE:HB	1:L:61:VAL:HB	1.80	0.63
3:N:421:LEU:O	3:N:421:LEU:HD23	1.99	0.63
2:C:536:PRO:HB3	2:C:906:PHE:CD1	2.30	0.63
2:C:441:VAL:O	2:C:559:LEU:HD13	1.99	0.63
3:N:829:VAL:HA	8:N:9503:HOH:O	1.99	0.63
2:M:670:GLN:HB3	2:M:699:PHE:HE2	1.62	0.63
2:C:607:ASP:HB3	2:C:609:ASN:H	1.63	0.63
1:K:66:SER:HA	8:K:913:HOH:O	1.99	0.63
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.79	0.63
3:N:1055:VAL:HG12	8:N:9865:HOH:O	1.97	0.63
3:D:54:LYS:HG2	3:D:55:ASP:H	1.63	0.63
3:N:1046:GLN:NE2	3:N:1050:GLY:HA2	2.13	0.63
1:B:123:MET:HE1	8:B:9499:HOH:O	1.98	0.63
3:D:185:VAL:HG11	8:D:9744:HOH:O	1.99	0.63
2:M:712:ALA:O	2:M:820:ARG:N	2.30	0.63
3:D:1407:LEU:HA	8:D:2362:HOH:O	1.98	0.63
3:N:646:LYS:HA	3:N:720:LEU:CD2	2.25	0.63
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.26	0.63
3:D:683:ILE:HB	8:D:2010:HOH:O	1.97	0.63
3:N:1100:ASP:HB2	8:N:9612:HOH:O	1.97	0.63
3:D:179:VAL:HG11	8:D:9501:HOH:O	1.97	0.63
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.63	0.63
3:D:177:ALA:HB1	3:D:199:LEU:HD13	1.81	0.63
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.81	0.63
3:N:1191:PRO:HB3	3:N:1370:ILE:HD13	1.79	0.63
3:N:833:GLU:HB3	8:N:2025:HOH:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:9:ILE:HG13	2:C:9:ILE:O	1.97	0.63
2:C:580:MET:HB3	2:C:584:GLU:CD	2.18	0.63
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.79	0.63
2:C:204:GLN:HE21	2:C:228:ALA:CB	2.12	0.63
4:E:46:PRO:HD2	8:E:9375:HOH:O	1.99	0.63
3:N:148:GLU:HB3	3:N:151:GLN:CB	2.27	0.63
2:C:605:LYS:CB	2:C:610:ARG:HH12	2.12	0.63
1:L:171:PHE:HB2	8:L:5023:HOH:O	1.98	0.63
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	1.80	0.63
1:K:127:LEU:HD12	1:K:128:HIS:H	1.61	0.63
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.13	0.63
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.13	0.63
3:N:1110:ALA:HB1	8:N:9775:HOH:O	1.98	0.63
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.34	0.63
3:D:893:GLU:HG2	8:D:9710:HOH:O	1.98	0.63
2:M:347:GLY:HA2	2:M:350:ARG:HD2	1.80	0.63
2:C:591:SER:HB2	8:C:9725:HOH:O	1.98	0.63
3:N:420:VAL:HG13	8:P:9538:HOH:O	1.98	0.63
3:D:1208:ASP:HB2	8:D:9803:HOH:O	1.99	0.63
3:N:422:ALA:CB	5:P:178:ARG:HH12	2.07	0.63
2:M:290:LEU:HB3	8:M:9575:HOH:O	1.98	0.63
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.64	0.63
3:N:1440:PHE:HA	8:N:9784:HOH:O	1.97	0.63
5:F:276:ARG:HH11	5:F:276:ARG:HG3	1.63	0.63
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.80	0.63
1:K:223:THR:HG22	8:K:1154:HOH:O	1.98	0.63
1:B:58:ILE:HB	1:B:61:VAL:HB	1.80	0.63
2:M:1061:GLU:HG2	8:M:2175:HOH:O	1.98	0.63
3:D:73:CYS:HB2	3:D:76:CYS:O	1.98	0.63
3:N:493:ARG:NE	3:N:1389:LEU:HD21	2.14	0.63
2:C:1095:LEU:HA	3:D:582:LEU:HD23	1.80	0.63
3:N:423:ASP:OD2	5:P:178:ARG:HG3	1.99	0.63
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.80	0.63
5:P:393:THR:HG23	5:P:394:ARG:HD2	1.79	0.63
2:M:368:THR:HB	2:M:369:PRO:CD	2.29	0.63
3:D:131:LYS:HG2	3:D:568:ARG:HD3	1.81	0.63
4:E:48:MET:CB	4:E:54:LEU:HB2	2.29	0.63
4:E:60:ALA:O	4:E:63:TRP:HB2	1.98	0.63
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.79	0.63
1:L:39:PRO:O	1:L:43:ILE:HG12	1.98	0.63
1:K:206:THR:HG22	1:K:209:GLU:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:659:LYS:HE2	3:N:663:GLU:HG2	1.80	0.63
1:B:201:THR:HG22	1:B:203:GLY:H	1.64	0.63
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.81	0.63
3:D:1503:VAL:HG22	8:D:2106:HOH:O	1.99	0.63
5:F:365:GLU:HB2	5:F:400:ILE:CG2	2.29	0.63
2:C:573:ARG:HD2	8:C:9990:HOH:O	1.97	0.63
1:A:229:GLN:O	8:A:9443:HOH:O	2.15	0.63
2:C:299:LYS:HG3	8:C:2020:HOH:O	1.98	0.63
1:A:108:GLU:HB3	8:A:9467:HOH:O	1.98	0.63
2:M:332:ARG:HB2	2:M:466:PHE:CE1	2.34	0.63
3:D:1095:THR:OG1	3:D:1230:GLY:HA3	1.99	0.63
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.29	0.63
3:D:1112:CYS:HA	8:D:9721:HOH:O	1.99	0.63
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.34	0.63
1:K:212:ASN:O	1:K:215:VAL:HG22	1.98	0.63
3:N:545:ARG:NH1	3:N:545:ARG:HB3	2.14	0.63
3:D:149:LYS:H	3:D:149:LYS:CE	2.12	0.63
2:M:143:SER:CB	2:M:276:LYS:HZ3	2.11	0.63
3:D:162:ARG:HG2	8:D:9658:HOH:O	1.99	0.63
3:D:1432:LYS:HD3	3:D:1460:ILE:HD12	1.81	0.63
8:K:5027:HOH:O	1:L:215:VAL:HG21	1.97	0.63
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.94	0.63
3:D:495:ARG:HB2	8:D:2090:HOH:O	1.98	0.63
1:L:186:LEU:HB2	1:L:192:LEU:CD1	2.29	0.63
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.34	0.63
5:P:226:LYS:HG3	5:P:242:TRP:CZ2	2.34	0.63
1:K:115:LEU:O	1:K:115:LEU:HD12	1.99	0.63
3:D:812:ALA:HB1	8:D:9956:HOH:O	1.98	0.62
2:C:911:GLU:HB2	8:C:9947:HOH:O	1.99	0.62
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.81	0.62
3:N:694:VAL:HA	8:N:9485:HOH:O	1.98	0.62
1:L:30:ARG:HE	2:M:854:PRO:HG3	1.63	0.62
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	1.79	0.62
3:N:956:ILE:HD13	8:N:9750:HOH:O	1.99	0.62
2:M:23:VAL:HG12	8:M:9500:HOH:O	1.98	0.62
3:D:1405:GLU:HA	8:D:9486:HOH:O	1.98	0.62
1:A:89:PHE:CB	1:A:94:LEU:HD22	2.30	0.62
3:N:126:VAL:HG11	3:N:152:LEU:HD13	1.81	0.62
2:C:468:ARG:HG2	2:C:487:THR:HA	1.82	0.62
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.34	0.62
2:C:601:GLY:O	2:C:648:ARG:HA	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1271:LYS:HZ1	3:N:1273:VAL:HA	1.63	0.62
3:D:486:ARG:O	3:D:489:ARG:HG2	2.00	0.62
3:D:1412:LYS:HG3	3:D:1412:LYS:O	1.99	0.62
2:M:250:ARG:HB3	2:M:253:ALA:HB3	1.81	0.62
2:M:1071:ILE:HG23	3:N:670:VAL:HG21	1.80	0.62
3:N:1052:THR:HG22	8:N:9487:HOH:O	1.99	0.62
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.80	0.62
3:D:152:LEU:HD23	3:D:152:LEU:N	2.13	0.62
2:M:971:LYS:HA	2:M:988:VAL:HA	1.80	0.62
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.82	0.62
3:N:556:LYS:HE2	5:P:218:GLN:HE22	1.64	0.62
5:F:81:VAL:O	5:F:85:LEU:HG	1.99	0.62
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.30	0.62
1:B:81:ASN:HA	8:B:9514:HOH:O	1.99	0.62
3:D:1489:GLN:O	3:D:1493:LYS:HE2	2.00	0.62
2:M:472:ARG:HD2	2:M:480:THR:O	1.99	0.62
5:F:344:ALA:HA	8:F:9487:HOH:O	1.98	0.62
5:P:402:ASN:O	5:P:406:ARG:CD	2.43	0.62
3:N:127:LEU:HD12	3:N:457:GLY:H	1.62	0.62
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.81	0.62
2:C:338:GLU:HA	2:C:341:THR:HG22	1.81	0.62
1:L:54:THR:CG2	1:L:158:ILE:HG13	2.29	0.62
3:N:58:CYS:SG	3:N:59:ALA:N	2.71	0.62
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.81	0.62
3:N:1472:ILE:HG22	3:N:1475:GLY:H	1.63	0.62
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.81	0.62
3:D:199:LEU:HD23	3:D:199:LEU:O	1.98	0.62
2:C:512:ARG:CD	2:C:523:ILE:HD11	2.29	0.62
5:F:405:LEU:O	5:F:408:LEU:HD22	1.98	0.62
1:B:91:ASN:OD1	1:B:93:SER:HB2	1.99	0.62
3:D:862:ASP:O	3:D:877:PRO:HD2	2.00	0.62
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.14	0.62
2:C:443:THR:HG23	2:C:444:PRO:HD2	1.80	0.62
4:O:51:LEU:HD21	8:O:709:HOH:O	2.00	0.62
4:O:40:LEU:HB2	4:O:45:ARG:CD	2.30	0.62
5:P:350:LEU:HD12	5:P:422:LEU:HB3	1.81	0.62
5:P:395:GLU:O	5:P:399:GLN:CG	2.45	0.62
1:A:167:VAL:HA	8:A:9446:HOH:O	1.99	0.62
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.65	0.62
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.98	0.62
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:27:PRO:HB2	8:K:1253:HOH:O	1.97	0.62
3:N:440:VAL:HA	8:N:2151:HOH:O	1.99	0.62
3:D:1346:ARG:HA	3:D:1346:ARG:HH11	1.65	0.62
3:N:179:VAL:HG13	8:N:9757:HOH:O	1.99	0.62
2:M:598:GLU:O	2:M:651:LYS:HG3	2.00	0.62
2:M:1101:THR:CB	3:N:5:VAL:HG13	2.21	0.62
5:P:416:ARG:HH11	5:P:419:ARG:HB3	1.63	0.62
2:C:197:LEU:HD22	2:C:202:TYR:CD2	2.34	0.62
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.34	0.62
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.34	0.62
3:D:774:SER:HB3	3:D:1362:LYS:O	2.00	0.62
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.81	0.62
4:E:23:VAL:CG2	4:E:65:MET:HG2	2.30	0.62
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.82	0.62
1:B:107:LYS:HB3	8:B:9534:HOH:O	1.98	0.62
2:M:1013:TYR:HE2	5:P:341:PRO:HD2	1.65	0.62
1:K:23:PHE:O	1:K:196:THR:HA	1.98	0.62
3:N:1418:LYS:HB3	8:N:9558:HOH:O	1.99	0.62
4:E:4:PRO:HD2	8:E:9453:HOH:O	1.98	0.62
1:K:47:SER:HB2	1:K:217:ILE:HD13	1.81	0.62
3:N:558:LEU:HD22	5:P:145:PRO:HG3	1.80	0.62
5:P:376:ILE:HD12	8:P:9528:HOH:O	2.00	0.62
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.31	0.62
2:M:91:GLN:OE1	2:M:117:HIS:HB3	2.00	0.62
3:D:131:LYS:HB3	3:D:456:MET:CE	2.30	0.62
2:M:396:ASP:HA	2:M:633:GLN:NE2	2.13	0.62
3:D:670:VAL:O	3:D:674:ARG:HG3	2.00	0.62
3:N:404:GLU:HB3	8:N:2350:HOH:O	2.00	0.62
3:N:1030:GLY:HA3	8:N:9601:HOH:O	1.98	0.62
1:B:159:LYS:HB2	8:B:9544:HOH:O	1.98	0.62
2:M:25:SER:OG	2:M:336:VAL:HB	2.00	0.62
3:N:195:VAL:HG13	8:N:9862:HOH:O	1.98	0.62
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.82	0.62
3:N:484:PRO:O	3:N:489:ARG:HD2	1.99	0.62
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.65	0.62
3:N:543:LEU:O	3:N:546:ARG:HB2	2.00	0.62
5:P:304:VAL:O	5:P:308:LEU:HG	2.00	0.62
2:C:957:LYS:CD	2:C:961:GLU:HB3	2.30	0.62
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.64	0.62
2:M:931:GLY:HA3	8:M:9835:HOH:O	1.99	0.62
3:N:961:LYS:HA	8:N:2262:HOH:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:926:PHE:HE1	2:M:929:ARG:NH2	1.97	0.62
1:A:6:LEU:C	1:A:8:ALA:H	2.02	0.62
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.82	0.62
2:C:443:THR:HG21	2:C:450:GLY:N	2.14	0.62
2:M:341:THR:HG23	8:M:9899:HOH:O	1.99	0.62
3:N:781:PRO:HG2	3:N:934:LEU:HD22	1.81	0.62
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.81	0.62
2:M:536:PRO:HD2	8:M:9912:HOH:O	2.00	0.62
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.30	0.62
1:L:77:GLU:CB	3:N:872:ARG:HH21	2.11	0.62
8:M:9750:HOH:O	3:N:524:LEU:HD11	2.00	0.62
3:N:181:ASP:CG	3:N:198:ARG:HB2	2.21	0.62
3:D:83:SER:HB2	8:D:9611:HOH:O	2.00	0.62
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.81	0.62
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.64	0.62
2:C:886:LEU:HA	8:C:9674:HOH:O	1.98	0.62
2:C:881:ASN:N	2:C:881:ASN:ND2	2.47	0.62
3:D:32:ILE:HG22	5:F:258:ILE:HD13	1.81	0.62
2:M:841:ASN:ND2	2:M:843:HIS:CD2	2.68	0.62
3:D:986:ARG:HG3	3:D:990:ASP:OD1	2.00	0.62
2:M:92:ALA:HB2	2:M:120:LEU:HD21	1.79	0.62
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.00	0.61
3:N:434:ARG:CB	3:N:447:VAL:HG22	2.27	0.61
5:P:94:LEU:HD12	5:P:97:GLU:N	2.15	0.61
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.30	0.61
3:N:868:TYR:CD1	3:N:869:MET:HG3	2.34	0.61
3:D:565:ILE:HD13	5:F:192:LEU:CD1	2.30	0.61
2:C:444:PRO:HG2	2:C:452:ILE:HD12	1.82	0.61
2:M:1097:LEU:HB3	3:N:10:ILE:HG23	1.81	0.61
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.82	0.61
2:C:759:THR:HG21	2:C:783:ARG:NH1	2.15	0.61
3:N:539:ASP:HB2	5:P:318:GLU:OE2	1.99	0.61
2:M:101:ILE:HG22	2:M:102:HIS:H	1.65	0.61
3:D:58:CYS:SG	3:D:78:VAL:HB	2.40	0.61
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.15	0.61
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.82	0.61
1:B:175:ARG:O	3:D:851:LEU:HD21	2.00	0.61
2:M:181:VAL:HG23	8:M:9655:HOH:O	2.00	0.61
3:D:546:ARG:O	3:D:550:ARG:HG2	2.00	0.61
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.35	0.61
3:D:470:LEU:HD23	8:D:9988:HOH:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:ASP:O	1:B:78:ILE:HG13	2.00	0.61
3:D:438:ASP:OD2	3:D:440:VAL:HB	2.00	0.61
3:D:66:GLN:HB2	8:D:2184:HOH:O	2.00	0.61
5:P:369:LEU:O	5:P:373:LYS:HD3	2.00	0.61
3:N:87:ARG:HG3	3:N:88:TYR:N	2.14	0.61
5:P:365:GLU:HB2	5:P:400:ILE:CG2	2.30	0.61
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.35	0.61
2:M:30:LEU:HD12	2:M:30:LEU:O	2.00	0.61
3:D:770:LEU:HB2	3:D:1210:SER:O	2.00	0.61
1:A:14:ARG:HH22	1:A:24:VAL:CG2	2.13	0.61
2:C:645:VAL:HG23	8:C:9746:HOH:O	2.00	0.61
2:M:480:THR:HG22	2:M:482:GLU:H	1.64	0.61
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.65	0.61
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.00	0.61
1:A:185:ARG:HD2	8:A:9484:HOH:O	2.00	0.61
2:C:893:ALA:O	2:C:897:LEU:HB2	1.99	0.61
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.81	0.61
1:K:6:LEU:C	1:K:8:ALA:H	2.02	0.61
2:C:110:GLU:HG2	2:C:369:PRO:CG	2.30	0.61
2:C:1090:LYS:HG3	3:D:521:PRO:HG2	1.82	0.61
3:D:581:LEU:O	3:D:603:LEU:HD12	2.00	0.61
5:P:393:THR:CG2	5:P:394:ARG:HD2	2.30	0.61
2:M:30:LEU:HD22	2:M:118:ILE:HD11	1.82	0.61
3:D:572:ARG:CZ	5:F:80:PRO:HD3	2.30	0.61
4:E:41:GLU:N	4:E:45:ARG:HG3	2.14	0.61
3:D:1377:LYS:HE2	3:D:1378:TYR:OH	2.00	0.61
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.65	0.61
3:D:770:LEU:HD23	3:D:777:PRO:HA	1.82	0.61
3:N:789:LEU:HD13	3:N:934:LEU:HD23	1.81	0.61
2:C:624:PRO:O	2:C:625:LEU:HD23	2.00	0.61
2:C:1109:VAL:HA	8:C:2004:HOH:O	2.00	0.61
2:M:1019:GLN:HE22	3:N:621:LYS:HE3	1.65	0.61
1:L:125:PRO:HD2	8:L:2988:HOH:O	2.00	0.61
2:C:722:ILE:O	2:C:722:ILE:HD13	2.00	0.61
1:A:154:GLU:HA	8:C:9698:HOH:O	1.99	0.61
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.15	0.61
5:P:371:LEU:HD22	5:P:375:LEU:HD13	1.82	0.61
2:C:1094:ALA:CB	3:D:603:LEU:HD13	2.31	0.61
3:N:568:ARG:CZ	8:N:2401:HOH:O	2.47	0.61
2:C:676:ILE:O	2:C:676:ILE:HG23	2.00	0.61
4:E:47:LYS:N	4:E:54:LEU:HD22	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:333:ILE:HD13	2:C:467:ILE:HD11	1.80	0.61
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.15	0.61
3:N:769:LEU:HG	3:N:931:LEU:HD11	1.83	0.61
3:D:1243:THR:CB	3:D:1253:THR:HB	2.31	0.61
1:B:73:GLU:OE1	1:B:130:ALA:HA	2.00	0.61
2:C:859:PRO:O	2:C:867:VAL:HG22	2.01	0.61
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.81	0.61
3:D:190:GLU:CD	3:D:190:GLU:H	2.03	0.61
4:O:87:LYS:HA	8:O:728:HOH:O	2.00	0.61
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.82	0.61
3:N:436:GLU:HB2	3:N:445:ARG:HB3	1.81	0.61
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	2.31	0.61
2:M:164:PRO:HG2	8:M:9585:HOH:O	2.00	0.61
2:C:431:HIS:CE1	2:C:432:ARG:HG2	2.36	0.61
3:N:1332:PRO:HB3	3:N:1421:LEU:HD21	1.83	0.61
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.01	0.61
5:P:289:GLU:HA	8:P:9504:HOH:O	2.00	0.61
3:N:1409:ALA:HB3	8:N:9829:HOH:O	2.01	0.61
5:F:350:LEU:CD1	5:F:422:LEU:HB2	2.30	0.61
5:F:361:LEU:CD1	5:F:366:ALA:HB2	2.16	0.61
5:P:377:ASP:HB3	8:P:9661:HOH:O	2.00	0.61
3:D:1377:LYS:HE2	3:D:1378:TYR:CZ	2.36	0.61
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.82	0.61
3:N:1267:ARG:NH1	3:N:1271:LYS:HG3	2.16	0.61
2:M:916:GLU:O	2:M:919:ALA:HB3	2.01	0.61
3:D:984:THR:HG22	3:D:987:GLU:CG	2.31	0.61
1:L:186:LEU:HB2	1:L:192:LEU:HD11	1.83	0.61
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.31	0.61
2:M:380:ALA:O	2:M:384:GLU:HB2	2.00	0.61
1:A:101:LEU:HD23	1:A:102:LYS:N	2.16	0.61
4:O:57:ASP:HB3	8:O:5269:HOH:O	1.99	0.61
3:D:551:ASN:O	3:D:554:LEU:HB3	2.00	0.61
8:C:9889:HOH:O	3:D:659:LYS:HG2	2.00	0.61
3:D:675:ARG:O	3:D:678:GLU:HG2	2.01	0.61
3:N:191:LEU:CB	3:N:195:VAL:HG21	2.30	0.61
5:P:340:SER:O	5:P:342:VAL:N	2.33	0.61
5:F:135:ILE:HD11	5:F:178:ARG:HB3	1.82	0.61
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.66	0.61
2:M:264:PRO:HB2	2:M:289:THR:OG1	2.00	0.61
1:L:212:ASN:O	1:L:215:VAL:HG22	2.00	0.61
2:C:723:THR:HG21	2:C:783:ARG:HH22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:HIS:HD2	1:B:157:GLY:H	1.49	0.61
1:B:212:ASN:O	1:B:215:VAL:HG22	2.01	0.61
1:L:101:LEU:HD23	1:L:102:LYS:N	2.15	0.61
1:A:123:MET:HE3	1:A:203:GLY:O	2.01	0.61
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.82	0.61
3:D:1286:THR:HG22	3:D:1287:GLU:H	1.66	0.61
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.00	0.61
1:K:219:ARG:HG3	8:L:961:HOH:O	2.00	0.61
3:D:583:ASP:OD2	3:D:604:THR:HB	2.01	0.61
3:N:422:ALA:HB1	5:P:178:ARG:NH2	2.15	0.61
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.81	0.61
2:C:15:LEU:CD2	2:C:15:LEU:H	2.11	0.61
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.83	0.61
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.83	0.61
2:C:18:LEU:HD23	2:C:542:VAL:HG21	1.83	0.61
1:B:101:LEU:HD23	1:B:102:LYS:N	2.15	0.61
3:N:804:LEU:HD11	8:N:9675:HOH:O	1.99	0.61
3:N:560:GLN:HA	3:N:560:GLN:HE21	1.66	0.61
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.83	0.61
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.83	0.61
2:C:1038:TRP:CZ2	3:D:1096:ARG:HD2	2.36	0.61
3:N:65:ARG:HG3	3:N:66:GLN:H	1.65	0.61
5:P:324:GLU:HG3	8:P:9622:HOH:O	2.00	0.61
1:A:23:PHE:O	1:A:196:THR:HA	2.00	0.61
1:B:86:VAL:HG23	8:B:9484:HOH:O	2.00	0.61
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.16	0.61
2:M:266:ARG:HB3	8:M:9764:HOH:O	2.00	0.61
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.83	0.61
2:C:1005:MET:HE3	3:D:645:PRO:HG2	1.83	0.61
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.82	0.60
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.82	0.60
3:D:1309:ALA:HB1	3:D:1326:THR:HG23	1.82	0.60
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.82	0.60
3:N:814:ALA:HB2	8:N:9621:HOH:O	2.01	0.60
2:C:129:ILE:HB	8:C:2312:HOH:O	2.00	0.60
2:C:89:THR:O	2:C:91:GLN:HG3	2.01	0.60
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.16	0.60
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.82	0.60
3:N:1309:ALA:HB1	3:N:1326:THR:HG23	1.82	0.60
3:N:639:LEU:HD11	3:N:931:LEU:HD12	1.82	0.60
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.01	0.60
2:M:1018:GLN:NE2	2:M:1063:ARG:NH2	2.49	0.60
3:N:1147:ARG:H	3:N:1166:LEU:HD23	1.66	0.60
5:P:118:GLU:HB3	8:P:9609:HOH:O	2.01	0.60
1:B:67:THR:HB	8:B:9510:HOH:O	2.01	0.60
3:D:970:LYS:HG2	8:D:2147:HOH:O	2.00	0.60
3:N:1095:THR:OG1	3:N:1230:GLY:HA3	2.01	0.60
2:M:195:LEU:O	2:M:199:VAL:HG23	2.00	0.60
2:M:176:VAL:C	2:M:178:PRO:HD3	2.21	0.60
1:L:74:ASP:O	1:L:78:ILE:HG13	2.01	0.60
3:D:636:GLN:HB2	8:D:2028:HOH:O	2.01	0.60
3:D:466:LYS:HE2	8:D:9933:HOH:O	2.00	0.60
5:F:346:THR:HG21	5:F:422:LEU:O	2.01	0.60
2:C:1090:LYS:HB3	3:D:521:PRO:HD2	1.83	0.60
3:D:547:LEU:CD2	3:D:581:LEU:HD21	2.31	0.60
3:N:422:ALA:H	3:N:427:VAL:CG1	2.13	0.60
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.82	0.60
1:A:182:GLU:OE1	2:C:934:PHE:HB3	2.00	0.60
2:C:49:ARG:HD3	8:C:2304:HOH:O	2.00	0.60
2:M:288:ARG:HD2	8:M:2222:HOH:O	2.01	0.60
2:C:528:GLU:O	2:C:530:GLU:HG3	2.01	0.60
1:L:108:GLU:HB3	1:L:128:HIS:CE1	2.27	0.60
3:D:1459:LEU:HB3	3:D:1465:ASN:ND2	2.16	0.60
3:D:710:ARG:HG3	3:D:711:LEU:N	2.15	0.60
3:N:834:THR:HB	3:N:838:ARG:HB2	1.83	0.60
3:D:556:LYS:HD2	8:D:2572:HOH:O	2.01	0.60
5:F:350:LEU:HD13	5:F:422:LEU:HB2	1.82	0.60
2:C:1096:ALA:HB3	3:D:101:HIS:ND1	2.16	0.60
2:C:205:GLU:HB2	8:C:9906:HOH:O	2.00	0.60
3:D:119:SER:CB	3:D:123:LEU:HB2	2.32	0.60
2:M:254:VAL:O	2:M:257:VAL:HG23	2.00	0.60
5:F:140:ARG:HG3	5:F:141:VAL:N	2.15	0.60
2:C:876:VAL:HG22	2:C:884:GLN:HE21	1.65	0.60
1:K:39:PRO:O	1:K:43:ILE:HG12	2.02	0.60
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.31	0.60
2:C:73:LEU:HD23	2:C:94:LEU:HB2	1.83	0.60
2:M:846:LYS:NZ	3:N:741:ASP:O	2.34	0.60
3:N:960:LYS:HG2	3:N:964:LEU:HD12	1.83	0.60
8:C:2084:HOH:O	3:D:3:LYS:HG3	2.01	0.60
3:D:584:ASN:HB2	3:D:602:SER:OG	2.02	0.60
3:D:148:GLU:HA	3:D:149:LYS:HE2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:110:GLU:H	2:M:368:THR:HG21	1.66	0.60
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.83	0.60
3:D:512:MET:HB3	8:D:2085:HOH:O	1.99	0.60
2:M:313:LEU:HD13	2:M:321:GLU:O	2.02	0.60
2:C:498:GLN:HB3	8:C:9751:HOH:O	2.02	0.60
3:N:868:TYR:HD1	3:N:869:MET:HG3	1.66	0.60
3:D:572:ARG:HH22	5:F:83:GLN:NE2	2.00	0.60
4:E:41:GLU:HB3	4:E:42:PRO:HD3	1.84	0.60
3:N:798:GLU:HG2	3:N:799:LYS:H	1.65	0.60
5:F:160:ASP:O	5:F:164:LYS:HG3	2.01	0.60
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.36	0.60
2:C:379:GLU:O	2:C:383:ARG:HB3	2.01	0.60
2:M:405:ARG:HH21	2:M:409:ARG:HH21	1.47	0.60
3:D:772:PRO:O	3:D:1367:HIS:NE2	2.34	0.60
1:L:216:GLU:HG3	1:L:220:GLU:OE1	2.01	0.60
4:O:60:ALA:O	4:O:63:TRP:HB2	2.01	0.60
3:N:535:PHE:O	5:P:314:PRO:HA	2.01	0.60
3:D:894:LYS:HG2	8:D:9710:HOH:O	2.01	0.60
5:F:114:LYS:HE3	8:F:9811:HOH:O	2.01	0.60
1:K:12:THR:HG23	1:K:24:VAL:HB	1.84	0.60
3:D:1357:ARG:HG3	8:D:2490:HOH:O	2.01	0.60
3:N:1033:GLN:HG2	8:N:2106:HOH:O	2.00	0.60
2:C:1009:SER:HB2	3:D:651:GLU:O	2.02	0.60
1:L:89:PHE:HB3	1:L:120:VAL:HG22	1.82	0.60
2:M:432:ARG:NH1	3:N:1047:LYS:HE2	2.12	0.60
2:C:49:ARG:CZ	2:C:49:ARG:HB2	2.31	0.60
3:N:1092:GLY:O	3:N:1096:ARG:HB2	2.01	0.60
2:M:398:THR:HG23	2:M:635:THR:HG21	1.82	0.60
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.83	0.60
2:M:905:ILE:HG12	8:M:9571:HOH:O	2.00	0.60
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.32	0.60
2:C:4:LYS:HD3	8:C:2222:HOH:O	2.00	0.60
2:M:1096:ALA:O	3:N:13:ALA:HB2	2.01	0.60
1:B:6:LEU:C	1:B:8:ALA:H	2.03	0.60
2:C:1115:LEU:HG	8:C:9518:HOH:O	2.01	0.60
2:M:93:PRO:HG3	2:M:117:HIS:CE1	2.32	0.60
4:E:44:GLU:N	8:E:9370:HOH:O	2.33	0.60
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.37	0.60
2:M:42:VAL:HG12	2:M:43:GLY:H	1.65	0.60
3:N:786:ILE:HG21	3:N:1027:GLY:N	2.16	0.60
2:M:206:THR:HB	8:M:9850:HOH:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:208:ALA:HB1	2:M:218:VAL:HG11	1.82	0.60
2:M:1019:GLN:HE22	3:N:621:LYS:CE	2.14	0.60
4:E:74:VAL:CG1	4:E:79:LEU:HD21	2.31	0.60
2:C:244:PRO:HA	8:C:2250:HOH:O	2.01	0.60
2:C:176:VAL:HG12	2:C:182:VAL:CG1	2.31	0.60
1:A:115:LEU:O	1:A:115:LEU:HD12	2.00	0.60
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.30	0.60
2:C:462:ASP:HB2	8:C:9962:HOH:O	2.02	0.60
2:C:776:SER:HA	2:C:780:GLU:HB3	1.83	0.60
3:N:1388:ARG:O	3:N:1391:GLU:HG2	2.00	0.60
4:E:46:PRO:HB3	4:E:54:LEU:HD21	1.84	0.60
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.17	0.60
1:B:185:ARG:HA	8:B:9553:HOH:O	2.01	0.60
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.83	0.60
2:M:686:ASP:O	3:N:740:PHE:HB2	2.02	0.60
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.36	0.60
1:B:206:THR:HG22	1:B:209:GLU:CG	2.32	0.60
1:B:206:THR:HG22	1:B:209:GLU:HG3	1.83	0.60
5:F:156:VAL:HG13	8:F:9476:HOH:O	2.02	0.60
1:K:29:GLU:N	8:K:1204:HOH:O	2.34	0.60
3:D:380:GLU:O	3:D:382:GLU:N	2.34	0.60
3:N:1346:ARG:O	3:N:1350:GLU:HG3	2.01	0.60
5:P:406:ARG:HA	5:P:409:LYS:HD3	1.83	0.60
1:K:96:THR:OG1	1:K:143:ARG:NH1	2.35	0.60
3:D:560:GLN:O	5:F:184:ARG:NH2	2.35	0.60
1:B:215:VAL:HG23	8:B:9526:HOH:O	2.01	0.60
1:A:218:LEU:CD2	1:B:222:LEU:HD11	2.31	0.60
2:C:1050:GLN:HB2	8:D:2065:HOH:O	2.02	0.60
5:F:277:GLN:HG3	8:F:9724:HOH:O	2.00	0.60
3:D:477:LEU:HD21	3:D:495:ARG:NH1	2.17	0.60
8:M:9822:HOH:O	3:N:651:GLU:HB3	2.01	0.60
4:O:48:MET:HB3	4:O:54:LEU:HB2	1.83	0.60
1:L:18:ARG:O	1:L:207:PRO:HD3	2.01	0.60
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.84	0.60
1:L:226:SER:HA	8:L:3072:HOH:O	2.02	0.60
1:K:197:LEU:HD23	1:K:197:LEU:H	1.66	0.60
1:B:18:ARG:O	1:B:207:PRO:HD3	2.02	0.60
2:M:803:THR:HG22	2:M:825:VAL:HG22	1.82	0.60
2:M:397:GLU:HG3	2:M:631:SER:HB2	1.83	0.60
3:N:1441:GLN:HB2	8:N:9617:HOH:O	2.01	0.60
1:K:1:MET:O	1:K:6:LEU:HD22	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:18:ILE:HG21	3:D:516:ALA:O	2.02	0.60
1:L:86:VAL:HA	8:L:1948:HOH:O	2.01	0.60
3:N:1397:LYS:HG2	8:N:2381:HOH:O	2.01	0.60
3:N:785:ILE:HD12	3:N:785:ILE:N	2.16	0.60
2:M:535:SER:HB2	8:M:9912:HOH:O	2.02	0.60
1:A:212:ASN:O	1:A:215:VAL:HG22	2.02	0.60
1:L:162:ILE:HD13	8:L:5120:HOH:O	2.01	0.60
5:F:419:ARG:O	5:F:421:PHE:N	2.35	0.60
5:P:376:ILE:HG22	5:P:377:ASP:CB	2.31	0.60
2:M:443:THR:HG22	2:M:452:ILE:O	2.02	0.60
3:N:52:PRO:HB3	3:N:80:VAL:HB	1.83	0.60
5:F:94:LEU:HD13	5:F:96:LEU:N	2.15	0.60
2:C:841:ASN:ND2	2:C:843:HIS:H	2.00	0.60
1:L:185:ARG:HH12	3:N:692:GLU:HG3	1.67	0.60
1:K:108:GLU:O	1:K:110:LYS:HG3	2.01	0.60
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.83	0.60
2:M:878:SER:HA	3:N:1034:GLN:OE1	2.02	0.60
4:E:50:THR:HG22	8:E:9360:HOH:O	2.01	0.60
3:N:538:SER:N	5:P:317:LEU:HD12	2.16	0.60
3:N:984:THR:HG22	3:N:987:GLU:CG	2.29	0.59
2:C:288:ARG:HA	2:C:288:ARG:HE	1.66	0.59
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.82	0.59
3:N:1046:GLN:HB3	8:N:9803:HOH:O	2.01	0.59
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.31	0.59
3:D:601:ARG:HD3	3:D:613:ARG:HH21	1.67	0.59
2:C:462:ASP:CG	2:C:463:GLU:H	2.05	0.59
3:N:380:GLU:O	3:N:382:GLU:N	2.35	0.59
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.84	0.59
2:C:41:ASN:O	2:C:46:ALA:HB2	2.02	0.59
2:M:49:ARG:NH2	8:M:9564:HOH:O	2.35	0.59
1:L:108:GLU:O	1:L:110:LYS:HG3	2.02	0.59
3:N:47:GLU:HB2	3:N:78:VAL:HG22	1.84	0.59
5:P:166:LEU:O	5:P:171:LYS:HB2	2.02	0.59
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.31	0.59
1:K:101:LEU:HD23	1:K:102:LYS:N	2.17	0.59
2:M:1009:SER:HB2	3:N:651:GLU:OE1	2.02	0.59
2:C:1001:VAL:HG12	8:C:2021:HOH:O	2.02	0.59
3:D:594:PRO:HB2	8:D:2420:HOH:O	2.02	0.59
3:N:111:LYS:HA	3:N:111:LYS:HE2	1.85	0.59
2:M:1083:GLU:O	2:M:1087:VAL:HG23	2.02	0.59
3:D:525:ARG:HA	3:D:538:SER:OG	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:546:ARG:NH2	3:D:550:ARG:HH22	2.00	0.59
3:N:555:LYS:HA	3:N:558:LEU:HD12	1.84	0.59
2:C:208:ALA:HB1	2:C:218:VAL:HG11	1.85	0.59
2:M:376:ARG:HH12	5:P:285:GLU:HG2	1.66	0.59
5:F:184:ARG:O	5:F:188:ILE:HG13	2.02	0.59
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.83	0.59
1:B:38:ASN:HB2	8:C:2221:HOH:O	2.00	0.59
3:N:177:ALA:HB1	3:N:199:LEU:CG	2.32	0.59
2:C:42:VAL:HG11	8:C:9546:HOH:O	2.01	0.59
3:N:1489:GLN:HA	3:N:1489:GLN:NE2	2.16	0.59
1:B:7:LYS:NZ	1:B:186:LEU:HD13	2.18	0.59
2:C:1042:ALA:O	3:D:1220:ALA:HB3	2.01	0.59
3:D:4:GLU:HB2	8:D:9671:HOH:O	2.02	0.59
3:D:407:VAL:HA	8:D:9600:HOH:O	2.01	0.59
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.32	0.59
3:N:58:CYS:SG	3:N:78:VAL:HB	2.43	0.59
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.83	0.59
2:C:101:ILE:HG22	2:C:102:HIS:H	1.67	0.59
2:M:250:ARG:CZ	2:M:253:ALA:HB1	2.31	0.59
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.15	0.59
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.16	0.59
3:D:1022:VAL:HG21	8:D:9500:HOH:O	2.02	0.59
2:M:297:GLU:HB2	8:M:9925:HOH:O	2.03	0.59
5:P:359:SER:HB3	8:P:9756:HOH:O	2.00	0.59
3:D:488:ARG:HD3	8:D:2340:HOH:O	2.01	0.59
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.32	0.59
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.32	0.59
2:C:34:VAL:HB	2:C:38:LYS:CG	2.29	0.59
3:D:168:THR:C	3:D:170:PRO:HD3	2.23	0.59
2:C:751:PRO:HB2	3:D:680:GLN:CG	2.30	0.59
3:N:756:GLN:O	3:N:760:ARG:HG2	2.02	0.59
3:D:1264:GLU:HB3	3:D:1266:ARG:HD2	1.84	0.59
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.37	0.59
3:D:452:ILE:HG23	3:D:452:ILE:O	2.01	0.59
3:D:1390:LEU:HG	8:D:9868:HOH:O	2.02	0.59
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.34	0.59
2:M:571:LEU:HD22	2:M:670:GLN:OE1	2.02	0.59
1:K:89:PHE:HB3	1:K:120:VAL:HG22	1.84	0.59
3:N:146:PRO:HA	8:N:9562:HOH:O	2.03	0.59
5:P:200:LYS:HA	5:P:209:PHE:HE1	1.67	0.59
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.84	0.59
3:N:75:ARG:HH11	3:N:75:ARG:HG3	1.67	0.59
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.22	0.59
1:K:53:VAL:HG12	1:K:167:VAL:HG21	1.83	0.59
3:D:783:ARG:HH21	3:D:1029:ARG:HG2	1.68	0.59
3:D:65:ARG:HB2	5:F:375:LEU:CA	2.28	0.59
3:D:23:TYR:O	3:D:49:ILE:HG23	2.02	0.59
3:N:116:LEU:HD23	3:N:468:LEU:HD21	1.84	0.59
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.11	0.59
3:D:126:VAL:HG13	3:D:132:TYR:CB	2.31	0.59
2:M:676:ILE:O	2:M:676:ILE:HG23	2.02	0.59
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.32	0.59
3:D:423:ASP:O	3:D:425:GLY:N	2.30	0.59
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.83	0.59
2:M:266:ARG:HD3	2:M:273:GLY:HA3	1.85	0.59
3:D:481:MET:HG2	3:D:493:ARG:HH21	1.65	0.59
3:D:829:VAL:HG13	8:D:2203:HOH:O	2.03	0.59
2:C:57:GLU:O	2:C:62:GLY:HA3	2.02	0.59
2:M:8:ARG:HG2	8:M:9832:HOH:O	2.02	0.59
2:M:691:SER:HB2	2:M:858:MET:HE1	1.83	0.59
2:M:250:ARG:HH21	2:M:253:ALA:HB1	1.67	0.59
2:C:42:VAL:HG12	2:C:43:GLY:N	2.18	0.59
2:C:120:LEU:HB2	8:C:2229:HOH:O	2.01	0.59
1:B:102:LYS:HB3	8:B:9575:HOH:O	2.02	0.59
1:B:206:THR:HG22	1:B:209:GLU:H	1.68	0.59
3:N:1286:THR:HG22	3:N:1287:GLU:N	2.17	0.59
3:N:845:ASN:H	3:N:848:GLU:HG3	1.68	0.59
3:N:470:LEU:HD22	3:N:499:VAL:HG22	1.84	0.59
3:N:499:VAL:O	3:N:503:LEU:HB2	2.02	0.59
1:B:176:ARG:NH2	3:D:884:ARG:CZ	2.66	0.59
3:D:730:PRO:HA	3:D:733:CYS:SG	2.42	0.59
1:K:96:THR:CB	1:K:143:ARG:HH12	2.15	0.59
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.16	0.59
2:M:41:ASN:O	2:M:46:ALA:HB2	2.02	0.59
3:N:601:ARG:HH11	3:N:613:ARG:NH2	1.99	0.59
2:C:188:LYS:HE2	2:C:188:LYS:O	2.01	0.59
2:C:19:THR:HG22	2:C:19:THR:O	2.02	0.59
3:D:897:TRP:HZ3	8:D:2492:HOH:O	1.85	0.59
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.31	0.59
1:A:227:ASN:ND2	1:A:227:ASN:H	2.00	0.59
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:195:VAL:HG11	5:F:217:ASN:OD1	2.01	0.59
5:F:367:MET:HE2	5:F:367:MET:N	2.18	0.59
1:B:91:ASN:HB3	8:B:9492:HOH:O	2.02	0.59
2:M:431:HIS:HD2	2:M:433:THR:OG1	1.85	0.59
3:N:498:VAL:HG11	8:N:9878:HOH:O	2.02	0.59
3:N:422:ALA:HB1	5:P:178:ARG:HH22	1.68	0.59
1:A:197:LEU:HD23	1:A:197:LEU:N	2.17	0.59
5:P:94:LEU:H	5:P:98:GLU:HB2	1.67	0.59
3:D:456:MET:HG2	3:D:568:ARG:HH11	1.68	0.59
5:F:163:LEU:HD13	5:F:174:LEU:HG	1.85	0.59
3:D:1101:VAL:HG11	3:D:1427:SER:HB3	1.85	0.59
8:C:9694:HOH:O	3:D:1068:LEU:HD21	2.03	0.59
3:N:820:GLU:HG2	3:N:825:ALA:O	2.03	0.59
2:M:545:ASN:O	2:M:581:THR:HG21	2.03	0.59
2:M:1020:PRO:O	3:N:622:ARG:HD2	2.03	0.59
1:A:227:ASN:HD22	1:A:227:ASN:N	1.97	0.59
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.38	0.59
2:M:238:LEU:O	2:M:242:LEU:HD22	2.03	0.59
2:M:846:LYS:O	3:N:741:ASP:HB3	2.02	0.59
3:N:477:LEU:HB3	3:N:496:LEU:HD12	1.84	0.59
2:C:371:LYS:O	2:C:372:LEU:HD12	2.02	0.59
2:C:194:VAL:HG21	2:C:221:LEU:O	2.02	0.59
3:D:166:GLN:HG2	3:D:207:PHE:HB2	1.85	0.59
3:D:13:ALA:O	3:D:511:TRP:HB3	2.03	0.59
4:E:40:LEU:O	4:E:40:LEU:HD12	2.03	0.59
5:F:267:THR:HA	8:F:9561:HOH:O	2.02	0.59
2:M:1097:LEU:HD21	3:N:103:TRP:HZ3	1.68	0.59
5:F:132:ARG:HG2	5:F:181:GLU:OE1	2.03	0.59
8:D:9617:HOH:O	5:F:141:VAL:HG21	2.02	0.59
2:M:183:SER:HB3	2:M:190:LYS:HZ1	1.66	0.59
1:A:143:ARG:HD3	1:A:160:ASP:OD2	2.03	0.59
2:C:938:LYS:HE3	8:C:9606:HOH:O	2.03	0.59
3:D:379:ALA:HB1	8:D:2450:HOH:O	2.02	0.59
2:C:858:MET:HB2	2:C:859:PRO:HD2	1.84	0.59
2:C:853:LEU:HB3	2:C:858:MET:HE3	1.85	0.59
3:D:1489:GLN:HE21	3:D:1493:LYS:NZ	2.01	0.59
2:M:567:GLN:HB2	2:M:997:LEU:HD22	1.85	0.59
3:D:583:ASP:HA	3:D:602:SER:HB2	1.83	0.59
3:N:646:LYS:CA	3:N:720:LEU:HD22	2.27	0.59
2:C:537:LYS:CA	2:C:545:ASN:HD21	2.15	0.59
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:393:GLN:HE21	2:M:409:ARG:NH1	2.00	0.59
3:D:826:PRO:HD3	8:D:9587:HOH:O	2.01	0.59
5:P:398:ARG:HD2	8:P:9476:HOH:O	2.02	0.59
1:K:50:GLY:O	1:K:146:ARG:HA	2.03	0.59
2:C:162:ILE:HG12	2:C:306:THR:HG21	1.84	0.59
2:C:767:PRO:HG3	8:C:2016:HOH:O	2.02	0.59
3:D:785:ILE:HG12	3:D:935:LYS:HA	1.85	0.59
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.38	0.59
2:C:1081:VAL:HB	2:C:1086:ARG:NH2	2.18	0.59
2:M:242:LEU:HA	8:M:9620:HOH:O	2.02	0.59
2:C:220:GLY:HA3	8:C:9517:HOH:O	2.01	0.59
2:C:583:LEU:O	2:C:587:VAL:HG23	2.03	0.59
3:D:56:TYR:HB2	8:D:9482:HOH:O	2.02	0.59
2:C:798:GLY:H	2:C:827:VAL:CG1	2.16	0.59
1:L:89:PHE:HB3	1:L:94:LEU:HD22	1.85	0.58
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.33	0.58
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.18	0.58
3:N:699:VAL:H	3:N:756:GLN:NE2	1.97	0.58
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	2.03	0.58
3:D:1460:ILE:HA	8:D:9474:HOH:O	2.03	0.58
2:C:266:ARG:NH1	2:C:266:ARG:HG3	2.16	0.58
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.84	0.58
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.18	0.58
1:A:189:ARG:HH22	1:B:155:LYS:HG2	1.67	0.58
2:M:727:PRO:HB3	8:M:9890:HOH:O	2.03	0.58
2:C:19:THR:HG21	2:C:124:ASP:O	2.03	0.58
3:D:502:PHE:CZ	3:D:1452:ILE:HG13	2.38	0.58
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.84	0.58
2:C:679:PHE:N	8:C:9687:HOH:O	2.36	0.58
3:D:416:ALA:H	3:D:417:PRO:CD	2.15	0.58
2:M:613:VAL:HG21	8:M:9608:HOH:O	2.02	0.58
2:C:900:ARG:HD2	8:C:9612:HOH:O	2.02	0.58
2:M:955:PRO:HD3	8:M:9758:HOH:O	2.02	0.58
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.84	0.58
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.68	0.58
3:D:65:ARG:CB	5:F:375:LEU:HA	2.29	0.58
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.85	0.58
3:D:1464:GLU:HA	3:D:1467:ILE:HD12	1.84	0.58
2:C:524:VAL:HB	8:C:2063:HOH:O	2.02	0.58
2:M:909:ALA:HB1	2:M:914:ILE:CD1	2.31	0.58
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1056:LYS:HD3	3:D:623:VAL:HG22	1.85	0.58
2:M:1031:ARG:HD3	3:N:620:GLY:O	2.03	0.58
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.68	0.58
2:M:445:GLU:OE2	2:M:560:MET:HG2	2.02	0.58
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.01	0.58
1:B:41:ARG:HH11	1:B:41:ARG:HG3	1.68	0.58
2:M:256:TYR:HB3	8:M:2097:HOH:O	2.01	0.58
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.84	0.58
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.85	0.58
3:N:813:LEU:HD12	3:N:814:ALA:N	2.18	0.58
3:N:777:PRO:CG	3:N:915:VAL:HB	2.33	0.58
2:M:244:PRO:CD	2:M:245:GLY:H	2.16	0.58
1:L:132:LEU:HD22	8:L:960:HOH:O	2.02	0.58
3:N:1236:LEU:HD11	3:N:1356:TYR:CE2	2.38	0.58
2:M:545:ASN:OD1	2:M:905:ILE:HD13	2.03	0.58
2:C:673:LEU:HD23	2:C:867:VAL:HG12	1.84	0.58
5:F:272:SER:O	5:F:276:ARG:HG2	2.02	0.58
3:D:609:GLY:CA	3:D:613:ARG:HB3	2.33	0.58
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.38	0.58
2:M:354:GLY:HA3	8:M:2246:HOH:O	2.03	0.58
1:L:89:PHE:HB2	1:L:94:LEU:HD22	1.86	0.58
1:L:6:LEU:C	1:L:8:ALA:H	2.05	0.58
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.84	0.58
2:C:218:VAL:O	2:C:221:LEU:HB3	2.02	0.58
3:D:12:LEU:CD2	3:D:13:ALA:H	2.16	0.58
1:K:51:THR:HA	1:K:145:ASP:O	2.03	0.58
4:O:40:LEU:HG	4:O:67:GLU:HG2	1.83	0.58
2:C:129:ILE:HG22	2:C:130:ASN:N	2.18	0.58
1:L:101:LEU:HD22	1:L:140:MET:CE	2.34	0.58
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.84	0.58
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.86	0.58
1:B:78:ILE:HG12	8:B:9503:HOH:O	2.02	0.58
3:N:1148:VAL:HB	3:N:1203:LYS:O	2.04	0.58
2:C:382:ILE:HA	8:C:9515:HOH:O	2.03	0.58
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.03	0.58
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.84	0.58
3:D:1339:LYS:HD2	8:D:2350:HOH:O	2.02	0.58
5:F:310:ILE:HA	8:F:9654:HOH:O	2.03	0.58
2:M:226:VAL:HA	8:M:9817:HOH:O	2.03	0.58
5:F:340:SER:O	5:F:342:VAL:N	2.36	0.58
5:F:415:THR:HG21	5:F:417:LYS:NZ	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:174:LEU:HD22	2:C:193:LEU:HD23	1.85	0.58
3:D:583:ASP:OD1	3:D:604:THR:HB	2.04	0.58
5:P:411:HIS:CB	5:P:414:ARG:HE	2.16	0.58
3:D:195:VAL:HB	3:D:205:TYR:HB2	1.85	0.58
2:C:15:LEU:N	2:C:15:LEU:HD22	2.14	0.58
3:D:507:ASN:HA	8:D:9897:HOH:O	2.03	0.58
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.03	0.58
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.84	0.58
2:C:102:HIS:HB2	2:C:106:GLY:O	2.04	0.58
3:D:379:ALA:HA	8:D:9674:HOH:O	2.02	0.58
3:N:1043:GLY:O	3:N:1056:PRO:HB3	2.04	0.58
5:F:352:GLU:HG2	8:F:9501:HOH:O	2.03	0.58
1:B:206:THR:CG2	1:B:209:GLU:H	2.16	0.58
2:C:165:LEU:HD12	2:C:166:PRO:N	2.18	0.58
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.39	0.58
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.33	0.58
1:A:196:THR:HG21	2:C:934:PHE:CD2	2.39	0.58
1:A:178:ALA:CB	2:C:864:GLY:H	2.16	0.58
2:C:637:LEU:HA	2:C:659:PRO:HG3	1.85	0.58
3:D:112:ILE:HG22	3:D:512:MET:SD	2.43	0.58
2:M:73:LEU:HD23	2:M:94:LEU:CB	2.31	0.58
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.86	0.58
1:A:39:PRO:O	1:A:43:ILE:HG12	2.04	0.58
3:D:897:TRP:CE2	3:D:902:LEU:HD21	2.38	0.58
1:L:76:VAL:O	1:L:80:LEU:HB2	2.04	0.58
5:P:172:ARG:O	5:P:176:ILE:HG13	2.03	0.58
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.39	0.58
2:M:720:GLU:HG2	2:M:760:SER:HB3	1.86	0.58
2:M:588:VAL:HG21	2:M:664:GLY:O	2.02	0.58
2:M:39:ARG:HG3	2:M:39:ARG:O	2.04	0.58
2:C:916:GLU:O	2:C:919:ALA:HB3	2.04	0.58
3:N:212:ARG:HA	8:N:9712:HOH:O	2.04	0.58
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.18	0.58
1:B:89:PHE:HB3	1:B:120:VAL:HG22	1.86	0.58
3:N:1065:LEU:HD12	3:N:1069:GLU:OE2	2.04	0.58
3:N:181:ASP:O	3:N:185:VAL:HG23	2.03	0.58
2:C:742:VAL:HB	8:C:9959:HOH:O	2.03	0.58
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	2.19	0.58
1:A:30:ARG:HH12	1:B:155:LYS:NZ	2.02	0.58
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.68	0.58
3:D:761:ILE:CD1	4:E:23:VAL:HG11	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:734:LEU:HA	2:M:737:LEU:HD12	1.85	0.58
1:B:7:LYS:HE3	1:B:186:LEU:HD13	1.86	0.58
2:M:744:ARG:HG3	2:M:744:ARG:O	2.02	0.58
2:C:512:ARG:HD2	2:C:523:ILE:HD11	1.85	0.58
2:M:354:GLY:HA2	8:M:9663:HOH:O	2.02	0.58
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.69	0.58
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.15	0.58
3:D:1065:LEU:HD12	3:D:1069:GLU:HB3	1.86	0.58
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.86	0.58
3:D:1388:ARG:O	3:D:1391:GLU:HG2	2.04	0.58
2:C:710:ILE:HB	2:C:790:LEU:CD2	2.32	0.58
1:B:156:HIS:CD2	1:B:157:GLY:H	2.22	0.58
3:N:978:TYR:HE1	3:N:985:ASP:HA	1.69	0.58
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.18	0.58
1:A:35:THR:HG22	8:A:9594:HOH:O	2.02	0.58
2:C:195:LEU:O	2:C:199:VAL:HG23	2.04	0.58
1:B:26:GLU:HB3	1:B:194:LYS:HG3	1.86	0.58
2:M:906:PHE:CG	3:N:1067:VAL:HG22	2.38	0.58
3:N:651:GLU:HG2	8:N:2376:HOH:O	2.04	0.58
3:N:28:LYS:O	3:N:43:GLY:HA2	2.04	0.58
2:C:853:LEU:HD23	2:C:858:MET:HE2	1.86	0.58
2:M:352:ALA:O	2:M:355:VAL:HG12	2.04	0.58
5:P:405:LEU:O	5:P:408:LEU:HD22	2.04	0.58
2:C:35:PRO:HD3	8:C:9992:HOH:O	2.04	0.58
2:C:331:ARG:HG2	8:C:2153:HOH:O	2.03	0.58
2:C:443:THR:CG2	2:C:449:ILE:HA	2.33	0.58
3:N:486:ARG:HH21	3:N:489:ARG:NE	2.02	0.58
3:D:135:LEU:HD13	3:D:147:VAL:HG12	1.85	0.58
2:M:1047:HIS:O	2:M:1051:GLU:HG3	2.03	0.58
3:D:1043:GLY:O	3:D:1056:PRO:HB3	2.04	0.58
3:N:1242:HIS:C	3:N:1269:LYS:HD2	2.24	0.58
3:N:25:GLU:O	3:N:27:GLU:HG2	2.03	0.58
1:A:108:GLU:O	1:A:110:LYS:HG3	2.04	0.58
2:M:607:ASP:HB2	2:M:610:ARG:H	1.69	0.58
3:D:828:LYS:N	3:D:828:LYS:HD3	2.19	0.58
2:C:896:PHE:CD2	2:C:925:TYR:HB2	2.39	0.58
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.04	0.58
3:D:86:ARG:O	3:D:522:PRO:HD2	2.04	0.58
3:N:554:LEU:O	3:N:558:LEU:HG	2.03	0.58
3:N:704:ARG:NE	3:N:705:ALA:H	2.02	0.58
2:C:647:GLN:HA	8:C:9499:HOH:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:422:ALA:N	3:D:427:VAL:HG11	2.17	0.58
2:M:913:GLU:O	2:M:916:GLU:HB3	2.03	0.58
2:C:549:PHE:CZ	2:C:886:LEU:HB3	2.39	0.58
2:M:872:ASN:HB3	8:M:9634:HOH:O	2.04	0.58
2:C:18:LEU:HD12	2:C:18:LEU:N	2.18	0.58
2:M:332:ARG:CZ	2:M:464:LEU:HD21	2.34	0.58
3:N:466:LYS:HG3	3:N:510:GLU:HG2	1.85	0.58
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.85	0.58
2:M:583:LEU:O	2:M:587:VAL:HG23	2.04	0.58
3:N:662:GLU:HB2	8:N:9492:HOH:O	2.04	0.58
3:N:888:GLU:HG2	8:N:2229:HOH:O	2.04	0.58
3:N:12:LEU:HB2	8:N:9529:HOH:O	2.02	0.57
2:M:367:LEU:O	2:M:371:LYS:HB3	2.04	0.57
2:C:333:ILE:HG12	2:C:410:ILE:HD13	1.86	0.57
3:N:704:ARG:CD	3:N:705:ALA:H	2.17	0.57
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.39	0.57
3:D:825:ALA:HA	8:D:9587:HOH:O	2.03	0.57
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.34	0.57
2:M:54:ILE:HG23	2:M:54:ILE:O	2.03	0.57
2:M:69:LEU:HD13	2:M:97:ARG:CZ	2.34	0.57
3:N:1243:THR:CB	3:N:1253:THR:HB	2.34	0.57
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.39	0.57
2:M:1107:ASN:HB3	8:M:9586:HOH:O	2.02	0.57
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.34	0.57
3:N:1159:ARG:HG3	3:N:1159:ARG:O	2.04	0.57
8:M:2233:HOH:O	3:N:532:GLY:HA3	2.02	0.57
5:P:371:LEU:HD12	8:P:9520:HOH:O	2.04	0.57
3:D:68:PHE:CZ	5:F:375:LEU:HD23	2.39	0.57
2:M:1085:PHE:HE1	2:M:1111:ILE:HG21	1.69	0.57
5:P:136:LEU:HD12	5:P:137:GLY:N	2.19	0.57
2:C:762:LYS:HZ2	2:C:762:LYS:HB2	1.68	0.57
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.34	0.57
2:M:290:LEU:H	2:M:290:LEU:HD23	1.69	0.57
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.18	0.57
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.33	0.57
3:N:177:ALA:HB1	3:N:199:LEU:CD1	2.34	0.57
2:C:605:LYS:HB2	2:C:610:ARG:HH12	1.68	0.57
1:B:208:LEU:HB2	8:B:9488:HOH:O	2.04	0.57
3:D:223:LEU:CB	8:D:9844:HOH:O	2.51	0.57
3:D:1478:SER:HB2	8:D:9761:HOH:O	2.03	0.57
3:N:473:LEU:HD11	8:N:9502:HOH:O	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1155:VAL:CG1	3:N:1183:ILE:HD11	2.35	0.57
3:N:153:LEU:HD12	3:N:158:TYR:HB2	1.86	0.57
3:N:1354:LYS:HE3	8:N:9859:HOH:O	2.04	0.57
5:F:373:LYS:HB3	8:F:9489:HOH:O	2.03	0.57
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.33	0.57
2:C:342:ASP:O	2:C:346:VAL:HG23	2.04	0.57
2:C:1106:ASP:CG	3:D:1456:LYS:HD3	2.24	0.57
2:C:285:LEU:HD11	2:C:290:LEU:HA	1.86	0.57
3:D:817:GLU:HG3	3:D:839:LEU:HD13	1.85	0.57
3:N:609:GLY:HA2	3:N:613:ARG:HB3	1.86	0.57
2:M:462:ASP:CG	2:M:463:GLU:N	2.57	0.57
3:N:895:VAL:HG23	8:N:2399:HOH:O	2.05	0.57
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.86	0.57
1:B:74:ASP:HB2	8:B:9510:HOH:O	2.04	0.57
3:N:508:ARG:CG	3:N:509:PRO:HD2	2.34	0.57
3:D:95:LEU:HA	3:D:551:ASN:HD21	1.68	0.57
1:B:115:LEU:O	1:B:115:LEU:HD12	2.03	0.57
2:C:913:GLU:HA	8:C:9822:HOH:O	2.04	0.57
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.20	0.57
2:M:627:ARG:HD2	8:M:2249:HOH:O	2.03	0.57
5:P:310:ILE:HA	8:P:9658:HOH:O	2.04	0.57
2:C:359:MET:HB2	8:C:9554:HOH:O	2.03	0.57
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.34	0.57
1:A:26:GLU:HB3	1:A:194:LYS:HG3	1.85	0.57
3:D:864:VAL:HG12	3:D:865:THR:H	1.69	0.57
3:N:486:ARG:O	3:N:489:ARG:HG2	2.04	0.57
2:M:101:ILE:HG22	2:M:102:HIS:N	2.19	0.57
1:K:89:PHE:CB	1:K:94:LEU:HD22	2.33	0.57
1:A:18:ARG:HH12	1:A:88:ARG:NH2	2.02	0.57
3:N:29:PRO:HB3	3:N:545:ARG:HG2	1.86	0.57
2:C:176:VAL:C	2:C:178:PRO:HD3	2.24	0.57
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.87	0.57
2:C:370:ALA:HB3	8:C:9960:HOH:O	2.02	0.57
3:N:1437:ALA:HB3	3:N:1446:VAL:HG11	1.86	0.57
1:A:178:ALA:HB2	2:C:864:GLY:H	1.69	0.57
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.27	0.57
3:D:861:GLN:HE21	3:D:861:GLN:N	1.92	0.57
5:F:94:LEU:HD12	5:F:97:GLU:N	2.20	0.57
2:M:193:LEU:O	2:M:193:LEU:HD13	2.05	0.57
2:C:431:HIS:H	2:C:434:HIS:CE1	2.22	0.57
1:K:104:GLU:HG2	1:K:137:ARG:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:36:PRO:HA	8:M:9498:HOH:O	2.03	0.57
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.85	0.57
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.86	0.57
3:D:984:THR:HG22	3:D:987:GLU:CD	2.24	0.57
3:N:1242:HIS:NE2	3:N:1266:ARG:HD2	2.19	0.57
5:F:351:SER:HA	8:F:9585:HOH:O	2.04	0.57
2:M:1008:ARG:NH2	2:M:1020:PRO:HB3	2.20	0.57
2:M:580:MET:SD	2:M:584:GLU:HG3	2.45	0.57
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.69	0.57
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.85	0.57
2:C:584:GLU:H	2:C:584:GLU:CD	2.08	0.57
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.05	0.57
3:D:1092:GLY:O	3:D:1096:ARG:HB2	2.03	0.57
3:N:75:ARG:HG2	8:N:2006:HOH:O	2.05	0.57
1:B:121:GLU:HB2	8:B:9495:HOH:O	2.05	0.57
4:E:34:GLY:HA3	8:E:9401:HOH:O	2.03	0.57
1:K:132:LEU:HD11	1:K:138:LEU:HD22	1.86	0.57
5:F:367:MET:SD	5:F:370:LYS:HD3	2.44	0.57
3:D:972:LEU:C	3:D:972:LEU:HD23	2.24	0.57
3:N:185:VAL:HB	8:N:2354:HOH:O	2.03	0.57
3:N:135:LEU:HD21	3:N:452:ILE:CD1	2.35	0.57
3:N:112:ILE:HD13	3:N:461:ILE:HG21	1.86	0.57
3:D:1373:ARG:HG2	3:D:1374:GLN:HE21	1.68	0.57
3:N:1173:LEU:HG	8:N:9906:HOH:O	2.04	0.57
3:D:171:LEU:CB	3:D:390:PRO:HA	2.33	0.57
2:C:1007:ALA:HB1	3:D:652:LEU:HD13	1.85	0.57
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.34	0.57
3:N:1440:PHE:HB2	3:N:1442:ASN:ND2	2.19	0.57
2:M:553:ASP:OD2	2:M:881:ASN:HB2	2.04	0.57
3:D:52:PRO:HG2	3:D:80:VAL:HB	1.86	0.57
3:N:822:ALA:HB1	8:N:9817:HOH:O	2.04	0.57
1:K:27:PRO:HG3	1:K:186:LEU:HD13	1.85	0.57
1:L:52:ALA:HB2	1:L:170:VAL:O	2.04	0.57
3:N:1041:LEU:O	3:N:1041:LEU:HD23	2.05	0.57
2:M:364:GLU:HA	8:M:9849:HOH:O	2.03	0.57
2:C:183:SER:HB3	2:C:190:LYS:HD3	1.87	0.57
3:N:534:ARG:HG2	8:N:9604:HOH:O	2.04	0.57
3:N:112:ILE:HD11	3:N:124:GLU:OE1	2.04	0.57
1:B:176:ARG:NH2	3:D:884:ARG:NE	2.53	0.57
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.70	0.57
2:C:905:ILE:HG22	2:C:906:PHE:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:260:LEU:HG	2:C:261:ILE:HG12	1.86	0.57
3:N:550:ARG:NE	3:N:573:MET:HB3	2.20	0.57
1:K:119:ASP:HB3	8:K:742:HOH:O	2.05	0.57
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.05	0.57
3:N:1320:GLU:O	3:N:1323:GLN:HB2	2.04	0.57
3:D:440:VAL:HA	8:D:2292:HOH:O	2.04	0.57
5:F:266:GLU:HA	5:F:269:ASN:HD22	1.69	0.57
4:E:59:ASN:HB2	8:E:9410:HOH:O	2.04	0.57
2:C:770:GLU:HG2	3:D:65:ARG:NH2	2.09	0.57
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.05	0.57
2:M:270:GLY:H	2:M:288:ARG:NH2	2.03	0.57
2:C:328:LEU:CD1	2:C:433:THR:HB	2.35	0.57
3:D:1498:ALA:HB1	8:E:9390:HOH:O	2.04	0.57
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.34	0.57
3:D:904:VAL:HG12	3:D:905:PRO:HD2	1.85	0.57
2:M:183:SER:HB3	2:M:190:LYS:HZ3	1.70	0.57
3:N:177:ALA:HB1	3:N:199:LEU:CD2	2.33	0.57
2:C:605:LYS:HD3	2:C:610:ARG:HH22	1.69	0.57
3:D:1489:GLN:HG3	8:D:2185:HOH:O	2.04	0.57
3:N:441:ARG:O	3:N:443:VAL:N	2.38	0.57
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.05	0.57
2:M:585:GLU:HG3	2:M:665:PHE:CE2	2.39	0.57
5:F:74:LYS:HB2	8:F:9509:HOH:O	2.04	0.57
1:K:116:PRO:HD2	8:K:5139:HOH:O	2.03	0.57
2:M:740:GLU:HB3	8:M:9868:HOH:O	2.05	0.57
1:K:162:ILE:HG13	1:K:163:ASN:N	2.19	0.57
3:N:1205:TYR:O	3:N:1366:LYS:HD3	2.04	0.57
3:N:1045:MET:SD	3:N:1073:SER:HA	2.44	0.57
3:N:205:TYR:HB3	3:N:393:ILE:HD13	1.85	0.57
1:L:23:PHE:O	1:L:196:THR:HA	2.05	0.57
3:D:1197:ARG:CD	3:D:1396:GLU:HB2	2.35	0.57
5:F:166:LEU:O	5:F:171:LYS:HB2	2.05	0.57
3:D:7:LYS:HD3	3:D:1458:GLU:OE1	2.05	0.57
2:M:710:ILE:HB	2:M:790:LEU:HD23	1.85	0.57
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.19	0.57
2:C:571:LEU:CD2	2:C:700:TYR:HA	2.35	0.57
3:D:1500:LYS:O	3:D:1503:VAL:HG23	2.05	0.57
3:N:75:ARG:NH1	3:N:75:ARG:HG3	2.20	0.57
5:P:331:ASP:HB2	8:P:9474:HOH:O	2.05	0.57
2:M:436:GLY:HA2	2:M:538:GLN:O	2.05	0.57
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:140:ARG:HG3	5:P:141:VAL:H	1.69	0.57
2:M:100:LEU:HD23	2:M:372:LEU:CD1	2.28	0.57
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.34	0.57
3:D:1377:LYS:HG2	3:D:1378:TYR:CE1	2.39	0.57
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.87	0.57
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.87	0.57
3:D:1471:LEU:HA	8:D:2065:HOH:O	2.04	0.57
1:A:88:ARG:HA	8:A:9600:HOH:O	2.05	0.57
3:D:58:CYS:SG	3:D:59:ALA:N	2.78	0.57
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.87	0.57
1:B:127:LEU:HD12	1:B:128:HIS:N	2.20	0.57
2:C:430:VAL:HG11	8:D:9725:HOH:O	2.05	0.57
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.35	0.57
2:C:352:ALA:O	2:C:356:ARG:HG3	2.05	0.56
2:C:1016:ILE:HG21	5:F:317:LEU:HD21	1.87	0.56
5:P:393:THR:HG22	5:P:394:ARG:N	2.19	0.56
2:C:216:GLU:HG2	2:C:217:LEU:HD23	1.87	0.56
5:P:94:LEU:HD22	5:P:95:THR:H	1.69	0.56
3:N:1083:ASP:OD1	3:N:1238:MET:HB3	2.05	0.56
3:N:704:ARG:HH21	3:N:706:PRO:HD3	1.69	0.56
2:M:20:GLU:HG3	2:M:460:ARG:HH21	1.69	0.56
1:K:201:THR:HG22	1:K:203:GLY:H	1.69	0.56
2:M:717:LEU:HB3	2:M:761:PHE:HB2	1.87	0.56
2:M:710:ILE:HB	2:M:790:LEU:CD2	2.35	0.56
2:M:893:ALA:O	2:M:897:LEU:HB2	2.05	0.56
1:K:186:LEU:HB2	1:K:192:LEU:CD1	2.35	0.56
3:D:1500:LYS:HB3	8:D:2094:HOH:O	2.05	0.56
1:K:46:SER:HB3	2:M:856:GLU:CD	2.25	0.56
2:C:176:VAL:HB	8:C:9957:HOH:O	2.04	0.56
3:N:574:LEU:O	3:N:578:VAL:HG23	2.05	0.56
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.87	0.56
3:N:617:ASN:O	3:N:619:LEU:N	2.38	0.56
5:P:411:HIS:HB2	5:P:414:ARG:HE	1.70	0.56
2:M:108:ILE:HB	2:M:368:THR:HG1	1.66	0.56
1:A:177:VAL:O	2:C:864:GLY:HA3	2.04	0.56
3:D:127:LEU:CD1	3:D:457:GLY:H	2.17	0.56
2:C:273:GLY:HA2	2:C:276:LYS:HD3	1.87	0.56
3:N:890:VAL:HG12	3:N:926:LYS:CG	2.33	0.56
5:F:88:ILE:HD13	5:F:193:ARG:CB	2.35	0.56
2:C:573:ARG:NH1	8:C:2347:HOH:O	2.38	0.56
3:D:658:LEU:HA	3:D:661:MET:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:PRO:HA	1:A:148:VAL:HG22	1.88	0.56
1:L:50:GLY:HA3	1:L:171:PHE:O	2.05	0.56
3:N:41:ARG:O	8:N:9493:HOH:O	2.18	0.56
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.39	0.56
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.38	0.56
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.88	0.56
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.40	0.56
3:D:1324:PRO:HB3	8:D:2070:HOH:O	2.04	0.56
2:M:918:LEU:HB3	2:M:968:LEU:HD23	1.87	0.56
3:N:683:ILE:HG22	3:N:687:VAL:HG21	1.86	0.56
5:F:185:GLN:O	5:F:189:GLU:HG3	2.05	0.56
5:F:393:THR:CG2	5:F:394:ARG:H	2.18	0.56
5:F:394:ARG:NH1	8:F:9729:HOH:O	2.37	0.56
3:N:39:PRO:HB3	3:N:45:PHE:C	2.25	0.56
2:C:1115:LEU:CD2	3:D:85:VAL:HA	2.35	0.56
2:C:1015:LEU:HB3	2:C:1016:ILE:HD13	1.87	0.56
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.88	0.56
5:P:354:LEU:HG	8:P:9633:HOH:O	2.06	0.56
5:P:413:SER:OG	5:P:419:ARG:NH2	2.32	0.56
3:N:879:ARG:HD2	3:N:902:LEU:O	2.05	0.56
5:F:282:LEU:HB3	5:F:284:ARG:HB2	1.87	0.56
4:O:51:LEU:HD12	4:O:52:GLU:N	2.19	0.56
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.87	0.56
2:C:250:ARG:HH22	2:C:254:VAL:HG23	1.70	0.56
3:N:829:VAL:HG13	8:N:9503:HOH:O	2.06	0.56
3:D:957:PRO:HG3	8:D:9477:HOH:O	2.04	0.56
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.40	0.56
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.40	0.56
2:C:958:THR:HB	8:C:2248:HOH:O	2.05	0.56
3:N:1320:GLU:HG2	8:N:9694:HOH:O	2.05	0.56
2:M:1056:LYS:HE2	3:N:623:VAL:HG13	1.87	0.56
3:N:46:ASP:N	8:N:9483:HOH:O	2.37	0.56
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.86	0.56
2:M:841:ASN:ND2	2:M:843:HIS:H	2.03	0.56
3:D:1416:ALA:HA	8:D:9707:HOH:O	2.05	0.56
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.87	0.56
1:B:108:GLU:O	1:B:110:LYS:HG3	2.04	0.56
1:K:29:GLU:CA	8:K:1204:HOH:O	2.53	0.56
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.87	0.56
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.35	0.56
3:N:770:LEU:HD11	3:N:919:PHE:CG	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:90:GLU:HG2	8:E:9383:HOH:O	2.04	0.56
1:B:65:PHE:HB2	8:B:9631:HOH:O	2.04	0.56
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.35	0.56
3:N:162:ARG:HE	3:N:434:ARG:HH21	1.52	0.56
2:C:141:HIS:CE1	2:C:332:ARG:HD3	2.41	0.56
3:D:162:ARG:HA	8:D:9476:HOH:O	2.05	0.56
3:D:1101:VAL:HG13	3:D:1427:SER:HB3	1.85	0.56
2:M:762:LYS:HZ3	2:M:784:ASP:C	2.09	0.56
3:D:214:GLU:CB	3:D:390:PRO:HD2	2.35	0.56
1:A:123:MET:O	1:A:125:PRO:HD3	2.05	0.56
2:M:1071:ILE:CG2	3:N:670:VAL:HG21	2.35	0.56
3:D:400:VAL:HG22	3:D:441:ARG:HG2	1.87	0.56
2:C:1081:VAL:HB	2:C:1086:ARG:NE	2.20	0.56
3:N:1133:ARG:HG2	3:N:1134:LEU:O	2.05	0.56
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.06	0.56
2:C:918:LEU:HD23	2:C:967:PHE:O	2.05	0.56
5:P:124:PRO:HB3	8:P:9525:HOH:O	2.04	0.56
5:P:81:VAL:HG13	8:P:9754:HOH:O	2.05	0.56
5:F:368:VAL:O	5:F:372:ARG:HB2	2.05	0.56
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.87	0.56
4:E:41:GLU:CA	4:E:45:ARG:HG3	2.35	0.56
2:C:139:GLN:HA	2:C:411:SER:O	2.05	0.56
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.05	0.56
3:N:89:ARG:NE	8:N:9574:HOH:O	2.38	0.56
3:N:172:PRO:HD3	8:N:9638:HOH:O	2.05	0.56
2:M:441:VAL:HG22	2:M:559:LEU:HA	1.87	0.56
3:N:613:ARG:HA	8:P:9750:HOH:O	2.06	0.56
5:P:270:LYS:NZ	8:P:9668:HOH:O	2.37	0.56
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.86	0.56
1:L:156:HIS:CD2	1:L:157:GLY:H	2.19	0.56
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.86	0.56
4:O:48:MET:CB	4:O:54:LEU:HB2	2.36	0.56
3:N:853:VAL:HG13	3:N:858:VAL:O	2.06	0.56
2:C:1:MET:SD	2:C:900:ARG:HD3	2.44	0.56
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.87	0.56
3:D:1267:ARG:HH21	3:D:1271:LYS:HD2	1.70	0.56
5:F:101:GLU:O	5:F:105:LYS:HG3	2.06	0.56
5:P:367:MET:HE2	5:P:371:LEU:HD11	1.87	0.56
1:L:92:PRO:HD3	8:L:879:HOH:O	2.04	0.56
5:P:376:ILE:HG22	5:P:377:ASP:HB2	1.87	0.56
3:D:871:LYS:HB3	3:D:873:LEU:HG	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:708:LEU:HD12	3:D:1231:GLU:HG2	1.87	0.56
3:N:631:ILE:HG21	3:N:745:MET:SD	2.46	0.56
3:N:706:PRO:HG2	8:N:2226:HOH:O	2.04	0.56
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.70	0.56
2:C:710:ILE:CD1	2:C:758:ARG:HE	2.19	0.56
2:M:571:LEU:HD23	2:M:700:TYR:HA	1.86	0.56
3:D:650:LEU:HD12	3:D:657:LEU:CD2	2.35	0.56
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.88	0.56
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.06	0.56
2:M:685:GLU:N	8:M:9693:HOH:O	2.38	0.56
2:M:719:PRO:HB3	2:M:820:ARG:NE	2.21	0.56
2:C:182:VAL:HG22	8:C:9517:HOH:O	2.05	0.56
5:F:415:THR:HG21	5:F:417:LYS:HZ1	1.71	0.56
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.88	0.56
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.70	0.56
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.41	0.56
5:F:364:ARG:HB2	5:F:365:GLU:OE1	2.06	0.56
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.40	0.56
3:D:12:LEU:HD11	3:D:104:PHE:HE1	1.71	0.56
2:M:979:THR:HG23	2:M:981:GLU:H	1.71	0.56
2:M:833:LEU:HD13	2:M:996:LYS:HD2	1.86	0.56
1:A:219:ARG:HH12	1:B:219:ARG:CD	2.14	0.56
5:P:398:ARG:HD3	5:P:399:GLN:N	2.20	0.56
3:D:1442:ASN:HA	8:D:9499:HOH:O	2.04	0.56
1:A:209:GLU:HA	8:A:9590:HOH:O	2.05	0.56
2:M:1004:LYS:HE2	2:M:1027:PHE:CE1	2.40	0.56
3:N:42:ASP:O	3:N:46:ASP:HB2	2.06	0.56
2:M:503:LEU:HD13	2:M:507:ARG:O	2.06	0.56
2:C:72:ARG:NH1	2:C:95:TYR:HE1	2.03	0.56
1:L:98:THR:HB	8:L:1011:HOH:O	2.04	0.56
3:N:775:GLY:HA2	8:N:9633:HOH:O	2.04	0.56
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.06	0.56
3:D:1195:GLN:HA	8:D:9914:HOH:O	2.05	0.56
1:L:91:ASN:HB2	1:L:92:PRO:HD2	1.86	0.56
1:A:1:MET:O	1:A:6:LEU:HD22	2.05	0.56
3:N:565:ILE:CD1	3:N:565:ILE:H	2.11	0.56
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.34	0.56
3:D:1266:ARG:HA	8:D:2318:HOH:O	2.06	0.56
3:D:1412:LYS:HB3	8:D:9962:HOH:O	2.05	0.56
1:B:23:PHE:O	1:B:196:THR:HA	2.06	0.56
1:B:101:LEU:HD21	8:B:9640:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.25	0.56
1:L:115:LEU:O	1:L:115:LEU:HD12	2.04	0.56
1:L:166:PRO:HB2	8:L:705:HOH:O	2.04	0.56
2:M:159:ILE:HG21	2:M:175:GLU:OE1	2.05	0.56
3:N:1115:THR:HG22	3:N:1151:ARG:HH21	1.71	0.56
3:D:684:LYS:HG3	8:D:9823:HOH:O	2.06	0.56
5:F:413:SER:O	5:F:416:ARG:HG2	2.06	0.56
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.21	0.56
3:D:583:ASP:CG	3:D:604:THR:HB	2.26	0.56
2:C:677:MET:HB3	2:C:987:ILE:HD13	1.88	0.56
2:C:31:GLN:HB2	8:C:9887:HOH:O	2.05	0.56
2:C:141:HIS:O	2:C:331:ARG:HA	2.05	0.56
4:O:51:LEU:HG	4:O:53:GLY:N	2.16	0.56
2:C:14:PRO:HG3	8:C:9667:HOH:O	2.06	0.56
5:P:420:ASP:OD2	5:P:420:ASP:N	2.35	0.56
3:D:138:LYS:HD2	3:D:138:LYS:H	1.70	0.56
1:L:211:LEU:O	1:L:215:VAL:HG13	2.06	0.56
2:M:43:GLY:HA2	2:M:341:THR:HG21	1.87	0.56
2:M:102:HIS:HB2	2:M:106:GLY:O	2.05	0.56
2:M:97:ARG:HH21	2:M:109:LYS:HD2	1.71	0.56
2:M:250:ARG:NE	2:M:253:ALA:HB1	2.21	0.56
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.87	0.56
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.20	0.56
2:M:585:GLU:O	2:M:588:VAL:HG22	2.06	0.56
3:N:863:VAL:HG12	8:N:9933:HOH:O	2.06	0.56
3:N:1049:SER:HB2	8:N:2290:HOH:O	2.06	0.56
2:M:265:ARG:HE	2:M:267:TYR:HA	1.69	0.56
5:F:419:ARG:HG3	5:F:420:ASP:N	2.20	0.56
3:N:182:GLY:O	3:N:186:VAL:HB	2.06	0.56
2:C:1060:ILE:HG12	2:C:1063:ARG:NH2	2.20	0.56
3:N:131:LYS:O	3:N:133:ILE:HG12	2.05	0.56
5:P:376:ILE:HG22	5:P:377:ASP:N	2.20	0.56
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.88	0.56
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.87	0.56
3:D:1042:ARG:HH11	3:D:1065:LEU:HD22	1.71	0.56
2:M:448:ASN:HB2	8:M:9510:HOH:O	2.05	0.56
3:D:1374:GLN:HA	8:D:2457:HOH:O	2.05	0.56
2:C:516:ARG:NH1	2:C:521:PRO:HB3	2.21	0.56
1:K:123:MET:HB3	8:K:4466:HOH:O	2.05	0.56
3:D:1440:PHE:HB2	3:D:1442:ASN:HD21	1.70	0.56
1:B:178:ALA:HB3	1:B:198:ARG:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.87	0.56
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.87	0.56
3:D:43:GLY:N	8:D:2541:HOH:O	2.39	0.56
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.35	0.56
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.05	0.56
4:O:84:ARG:HG2	8:O:1862:HOH:O	2.04	0.56
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.88	0.56
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.36	0.56
3:N:1098:LEU:O	3:N:1102:THR:HB	2.06	0.56
3:D:1149:LEU:HG	3:D:1166:LEU:HD22	1.88	0.56
2:M:283:ILE:HG22	2:M:284:ARG:CG	2.35	0.56
3:N:642:CYS:HB3	3:N:716:PHE:CD2	2.40	0.56
4:E:68:LEU:HD13	4:E:73:LEU:HD12	1.87	0.56
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.36	0.55
3:N:111:LYS:HE2	8:N:9878:HOH:O	2.06	0.55
1:A:1:MET:O	1:A:6:LEU:CB	2.45	0.55
5:P:137:GLY:HA2	5:P:140:ARG:NH2	2.21	0.55
3:N:1209:LEU:HD13	3:N:1216:SER:N	2.14	0.55
4:E:54:LEU:HD12	4:E:58:PRO:HB2	1.88	0.55
2:C:250:ARG:HB3	2:C:253:ALA:HB3	1.87	0.55
2:C:89:THR:HG23	2:C:129:ILE:HA	1.86	0.55
2:C:133:ASP:N	2:C:632:ASN:HD21	2.04	0.55
2:M:218:VAL:O	2:M:221:LEU:HB3	2.05	0.55
2:M:700:TYR:N	8:M:2053:HOH:O	2.38	0.55
2:C:704:HIS:CD2	2:C:831:ARG:HH22	2.23	0.55
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.46	0.55
1:B:123:MET:O	1:B:125:PRO:HD3	2.06	0.55
5:F:195:VAL:HG22	5:F:243:ILE:HD11	1.88	0.55
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.87	0.55
2:C:396:ASP:OD1	2:C:402:SER:HB3	2.06	0.55
3:N:562:ALA:CB	3:N:567:ILE:HD11	2.32	0.55
5:P:138:SER:H	5:P:140:ARG:CZ	2.19	0.55
1:K:42:ARG:HG2	1:K:42:ARG:NH1	2.17	0.55
2:M:280:LYS:HB3	8:M:9645:HOH:O	2.05	0.55
2:M:474:VAL:HG13	2:M:530:GLU:C	2.26	0.55
1:K:96:THR:HB	1:K:143:ARG:HH12	1.70	0.55
3:N:32:ILE:HD12	3:N:527:MET:CG	2.34	0.55
1:A:128:HIS:HB2	8:A:9598:HOH:O	2.06	0.55
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.34	0.55
3:N:912:LYS:HB3	3:N:912:LYS:NZ	2.21	0.55
3:N:1236:LEU:HD21	3:N:1356:TYR:CD2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:102:LYS:HB2	1:L:139:ASN:OD1	2.06	0.55
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.87	0.55
3:D:28:LYS:N	8:D:2541:HOH:O	2.39	0.55
3:D:951:ILE:HG23	3:D:1062:ARG:HH21	1.71	0.55
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.69	0.55
2:M:567:GLN:CB	2:M:997:LEU:HD22	2.36	0.55
2:C:193:LEU:HD13	2:C:193:LEU:O	2.06	0.55
4:E:17:TYR:O	4:E:21:VAL:HG23	2.05	0.55
3:N:416:ALA:H	3:N:417:PRO:CD	2.19	0.55
3:D:25:GLU:O	3:D:27:GLU:HG2	2.06	0.55
5:F:376:ILE:HG22	5:F:377:ASP:N	2.20	0.55
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.87	0.55
2:C:1016:ILE:HD12	5:F:317:LEU:HD11	1.88	0.55
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.87	0.55
5:F:94:LEU:H	5:F:98:GLU:HB2	1.71	0.55
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.71	0.55
2:M:672:VAL:HG23	2:M:868:ASP:OD2	2.06	0.55
1:A:50:GLY:O	1:A:146:ARG:HA	2.07	0.55
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.87	0.55
3:D:667:ALA:HB2	8:D:9511:HOH:O	2.05	0.55
2:M:719:PRO:HB3	2:M:820:ARG:HE	1.70	0.55
2:M:815:LEU:HD21	2:M:821:GLU:HA	1.88	0.55
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.36	0.55
5:P:339:PRO:HB3	5:P:343:ASP:HB2	1.87	0.55
3:D:803:GLY:HA2	8:D:9895:HOH:O	2.06	0.55
8:M:9602:HOH:O	3:N:618:LEU:HB2	2.06	0.55
8:N:2195:HOH:O	5:P:90:GLN:HG2	2.05	0.55
3:D:679:ARG:HH12	3:D:681:ARG:HD2	1.70	0.55
5:P:361:LEU:HD12	5:P:366:ALA:HB2	1.88	0.55
2:C:1090:LYS:NZ	3:D:90:MET:HG3	2.21	0.55
3:N:567:ILE:HG22	3:N:571:LYS:NZ	2.22	0.55
5:F:160:ASP:OD2	5:F:178:ARG:NH2	2.39	0.55
3:N:1490:LYS:HZ1	4:O:39:VAL:HA	1.70	0.55
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.71	0.55
2:M:16:PRO:O	2:M:18:LEU:HD12	2.06	0.55
2:C:759:THR:HB	2:C:785:VAL:HG11	1.89	0.55
3:D:114:THR:O	3:D:495:ARG:HG3	2.06	0.55
3:N:1472:ILE:CG2	3:N:1475:GLY:H	2.19	0.55
3:N:1353:GLN:NE2	3:N:1357:ARG:HE	2.03	0.55
1:L:149:GLY:N	8:L:5023:HOH:O	2.40	0.55
2:C:858:MET:HB2	2:C:859:PRO:CD	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:858:VAL:HG12	3:N:859:ASP:O	2.06	0.55
2:C:16:PRO:O	2:C:18:LEU:HD12	2.07	0.55
3:N:99:ALA:HB1	3:N:575:GLN:OE1	2.06	0.55
4:E:86:GLN:HB3	8:E:9362:HOH:O	2.06	0.55
2:M:1103:ASP:CG	2:M:1104:GLU:H	2.07	0.55
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.70	0.55
2:M:229:MET:HA	8:M:2154:HOH:O	2.07	0.55
5:P:282:LEU:HD12	5:P:284:ARG:CD	2.36	0.55
1:A:137:ARG:HD3	8:A:9486:HOH:O	2.06	0.55
3:N:221:ALA:HA	8:N:9545:HOH:O	2.05	0.55
2:C:774:LEU:HD13	2:C:774:LEU:C	2.27	0.55
5:F:361:LEU:CD1	5:F:404:ALA:HB1	2.37	0.55
3:N:133:ILE:HG23	3:N:456:MET:SD	2.46	0.55
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.89	0.55
3:N:649:ALA:CB	3:N:720:LEU:HD21	2.36	0.55
2:C:326:ASP:HA	2:C:331:ARG:HD3	1.88	0.55
2:M:127:PHE:O	2:M:133:ASP:HA	2.07	0.55
4:E:45:ARG:HG2	8:E:9370:HOH:O	2.07	0.55
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.33	0.55
5:F:128:ARG:HD2	8:F:9482:HOH:O	2.06	0.55
3:N:1267:ARG:HH12	3:N:1271:LYS:HE3	1.71	0.55
2:M:721:ARG:HD2	8:M:9788:HOH:O	2.06	0.55
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.71	0.55
3:D:793:THR:HG22	3:D:879:ARG:HA	1.88	0.55
2:C:889:HIS:HB2	8:C:9674:HOH:O	2.07	0.55
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.21	0.55
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.89	0.55
3:N:29:PRO:HG2	3:N:549:ASN:ND2	2.20	0.55
2:M:722:ILE:HD13	2:M:722:ILE:O	2.06	0.55
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.88	0.55
2:C:217:LEU:HB2	2:C:311:PHE:CZ	2.42	0.55
3:N:691:LEU:HG	3:N:720:LEU:HD11	1.88	0.55
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.88	0.55
2:M:18:LEU:N	2:M:18:LEU:HD12	2.22	0.55
2:M:721:ARG:HE	2:M:783:ARG:HH22	1.54	0.55
3:D:1154:GLU:OE2	3:D:1159:ARG:HG2	2.06	0.55
1:A:41:ARG:HG3	1:A:41:ARG:HH11	1.70	0.55
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.88	0.55
2:C:510:ALA:HB3	2:C:513:VAL:CG2	2.37	0.55
2:C:1018:GLN:HE21	2:C:1063:ARG:HH22	1.53	0.55
2:C:476:GLY:HA2	8:C:9625:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:530:GLU:C	2:C:531:PHE:HD1	2.09	0.55
3:D:131:LYS:HG2	3:D:568:ARG:CG	2.37	0.55
5:F:282:LEU:HD12	5:F:284:ARG:HD2	1.88	0.55
4:O:41:GLU:N	4:O:45:ARG:HG3	2.22	0.55
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.36	0.55
3:D:500:ARG:HH22	3:D:1388:ARG:HH11	1.55	0.55
3:D:1495:ILE:CD1	4:E:84:ARG:HG2	2.36	0.55
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.27	0.55
2:M:69:LEU:C	2:M:70:GLU:HG3	2.26	0.55
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.42	0.55
3:D:28:LYS:O	3:D:43:GLY:HA2	2.07	0.55
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.37	0.55
3:D:1286:THR:HG22	3:D:1287:GLU:N	2.21	0.55
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.06	0.55
1:L:170:VAL:O	1:L:170:VAL:HG23	2.07	0.55
1:A:46:SER:HB3	8:A:9595:HOH:O	2.06	0.55
5:F:369:LEU:HD11	8:F:9847:HOH:O	2.06	0.55
2:M:432:ARG:NE	3:N:1048:PRO:HD2	2.21	0.55
2:M:514:VAL:HB	8:M:9879:HOH:O	2.06	0.55
3:D:213:VAL:HG23	3:D:391:ALA:HA	1.89	0.55
3:N:1476:THR:HA	8:N:9748:HOH:O	2.07	0.55
3:N:1209:LEU:CD2	4:O:16:LYS:HD2	2.37	0.55
2:M:77:PRO:HD2	2:M:91:GLN:O	2.06	0.55
2:M:100:LEU:HD12	2:M:100:LEU:O	2.06	0.55
2:C:474:VAL:HG13	2:C:530:GLU:C	2.27	0.55
3:N:1084:THR:HA	3:N:1087:ARG:HG2	1.89	0.55
3:D:135:LEU:HD11	3:D:452:ILE:HD11	1.88	0.55
3:D:806:PHE:O	3:D:806:PHE:CG	2.60	0.55
3:D:563:PRO:HG3	5:F:188:ILE:HG21	1.88	0.55
3:D:711:LEU:HD11	8:D:2469:HOH:O	2.06	0.55
3:N:199:LEU:HD23	3:N:199:LEU:O	2.07	0.55
2:C:799:ILE:HG12	2:C:799:ILE:O	2.07	0.55
2:M:385:PHE:O	2:M:389:SER:HB3	2.07	0.55
2:M:738:ASP:HB3	8:M:9801:HOH:O	2.07	0.55
5:F:225:GLU:HG2	5:F:226:LYS:NZ	2.22	0.55
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.70	0.55
2:M:228:ALA:HB3	8:M:9807:HOH:O	2.06	0.55
2:M:967:PHE:HD1	2:M:972:VAL:HG12	1.72	0.55
3:D:584:ASN:H	3:D:602:SER:CB	2.20	0.55
3:D:98:PRO:HD3	8:D:9851:HOH:O	2.07	0.55
2:C:47:ALA:HB1	8:C:2085:HOH:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:643:VAL:HG13	2:C:647:GLN:NE2	2.21	0.55
2:C:250:ARG:NH2	2:C:254:VAL:HG23	2.22	0.55
2:C:328:LEU:N	2:C:328:LEU:HD12	2.21	0.55
2:M:34:VAL:HB	2:M:38:LYS:CG	2.35	0.55
2:C:725:ASP:HB2	2:C:783:ARG:HH12	1.72	0.55
5:F:181:GLU:O	5:F:184:ARG:HB3	2.06	0.55
5:F:128:ARG:HG2	8:F:9604:HOH:O	2.07	0.55
2:C:568:ALA:CB	2:C:668:LEU:HB3	2.36	0.55
1:L:169:ALA:HB1	1:L:171:PHE:CE1	2.42	0.55
5:F:276:ARG:NH1	5:F:276:ARG:HG3	2.22	0.55
1:A:9:PRO:HB2	1:B:224:TYR:HB3	1.89	0.55
2:M:752:GLY:O	2:M:791:ARG:HD2	2.06	0.55
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.07	0.55
3:D:618:LEU:HD23	8:D:2051:HOH:O	2.06	0.55
3:D:555:LYS:HE2	8:D:2118:HOH:O	2.06	0.55
3:D:1049:SER:OG	3:D:1051:GLU:HG2	2.07	0.55
2:C:630:ARG:NE	2:C:705:ILE:O	2.40	0.55
1:A:89:PHE:HB3	1:A:120:VAL:HG22	1.88	0.55
1:B:52:ALA:HB2	1:B:170:VAL:O	2.06	0.55
2:C:949:LYS:HD2	3:D:859:ASP:OD2	2.07	0.55
2:C:418:LEU:HD12	8:C:9500:HOH:O	2.06	0.55
3:N:897:TRP:CH2	3:N:902:LEU:HD21	2.41	0.55
2:C:275:TYR:OH	2:C:487:THR:HG21	2.07	0.55
2:M:164:PRO:CB	8:M:9843:HOH:O	2.55	0.55
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.36	0.55
3:D:645:PRO:HB3	3:D:723:GLY:O	2.07	0.55
4:E:3:GLU:HB3	8:E:9453:HOH:O	2.06	0.55
5:P:124:PRO:HG2	8:P:9646:HOH:O	2.07	0.55
1:L:176:ARG:HB2	8:L:2002:HOH:O	2.06	0.55
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.71	0.55
3:D:804:LEU:HD12	3:D:804:LEU:O	2.07	0.55
2:C:598:GLU:O	2:C:651:LYS:HG3	2.06	0.55
2:C:135:VAL:HB	2:C:406:HIS:CE1	2.42	0.55
2:C:233:GLU:HG2	8:C:9873:HOH:O	2.07	0.55
3:N:625:TYR:O	3:N:749:VAL:HG23	2.06	0.55
8:M:9821:HOH:O	3:N:3:LYS:HB3	2.07	0.54
3:N:87:ARG:O	3:N:521:PRO:CB	2.46	0.54
3:N:162:ARG:NE	3:N:434:ARG:HH21	2.03	0.54
2:C:31:GLN:NE2	8:C:2231:HOH:O	2.40	0.54
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.07	0.54
2:M:17:PRO:O	2:M:20:GLU:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.37	0.54
2:M:442:GLU:HG3	2:M:442:GLU:O	2.06	0.54
3:N:1265:ALA:HB1	3:N:1332:PRO:HB2	1.87	0.54
3:D:179:VAL:HG22	8:D:9925:HOH:O	2.07	0.54
1:A:27:PRO:CG	1:A:186:LEU:HD22	2.37	0.54
3:D:55:ASP:CA	3:D:82:LYS:HG2	2.37	0.54
3:D:181:ASP:O	3:D:185:VAL:HG23	2.07	0.54
2:M:726:ILE:HD11	2:M:737:LEU:HD11	1.89	0.54
3:N:1377:LYS:HG2	3:N:1378:TYR:CD1	2.42	0.54
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.07	0.54
4:E:91:ARG:HG2	8:E:9368:HOH:O	2.06	0.54
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.07	0.54
2:M:113:VAL:HG13	8:M:9704:HOH:O	2.06	0.54
2:M:497:ALA:HA	2:M:515:ALA:HA	1.88	0.54
1:L:41:ARG:HH11	1:L:41:ARG:HG3	1.71	0.54
1:A:47:SER:HB2	1:A:217:ILE:HD13	1.88	0.54
1:B:89:PHE:HB2	1:B:94:LEU:HD22	1.89	0.54
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.21	0.54
2:M:333:ILE:O	2:M:465:GLY:HA3	2.06	0.54
2:C:108:ILE:HD11	2:C:365:ASP:OD1	2.07	0.54
3:N:195:VAL:O	3:N:205:TYR:HD1	1.90	0.54
5:P:413:SER:O	5:P:416:ARG:HG2	2.07	0.54
3:D:118:LEU:HA	3:D:123:LEU:HD13	1.88	0.54
2:C:274:ARG:N	2:C:288:ARG:HH12	2.01	0.54
3:N:827:ILE:HG22	3:N:837:GLY:HA2	1.87	0.54
3:N:149:LYS:N	3:N:149:LYS:HD3	2.19	0.54
2:C:172:ILE:N	2:C:172:ILE:HD12	2.21	0.54
2:C:999:HIS:HE1	8:C:9820:HOH:O	1.89	0.54
3:D:743:ASP:HA	8:D:9498:HOH:O	2.08	0.54
1:L:50:GLY:O	1:L:146:ARG:HA	2.07	0.54
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.42	0.54
2:M:789:SER:O	2:M:791:ARG:HG2	2.08	0.54
2:M:480:THR:HG22	2:M:481:ASP:N	2.23	0.54
2:M:284:ARG:O	2:M:301:GLU:HB3	2.08	0.54
3:N:645:PRO:HB3	3:N:723:GLY:O	2.08	0.54
3:N:381:ALA:HB1	8:N:9952:HOH:O	2.08	0.54
1:A:131:THR:HG21	8:A:9522:HOH:O	2.07	0.54
3:N:154:THR:HG22	3:N:155:ASP:N	2.22	0.54
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.43	0.54
3:N:139:GLY:CA	3:N:452:ILE:HD12	2.36	0.54
2:C:983:ILE:HG21	2:C:987:ILE:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:51:THR:HG22	2:M:51:THR:O	2.07	0.54
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.88	0.54
2:C:11:GLU:HA	8:C:2224:HOH:O	2.07	0.54
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.72	0.54
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.07	0.54
3:N:80:VAL:HG12	8:N:2191:HOH:O	2.07	0.54
2:M:164:PRO:HB2	8:M:9843:HOH:O	2.08	0.54
1:K:18:ARG:HH22	1:K:88:ARG:HH21	1.54	0.54
2:C:101:ILE:HG22	2:C:102:HIS:N	2.21	0.54
1:A:18:ARG:HH12	1:A:88:ARG:HH21	1.54	0.54
1:L:169:ALA:HB1	1:L:171:PHE:CZ	2.42	0.54
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.07	0.54
3:N:660:LYS:HA	3:N:663:GLU:HG3	1.88	0.54
2:M:510:ALA:O	2:M:513:VAL:HG23	2.08	0.54
3:N:703:ASN:HD22	3:N:713:ILE:HG12	1.72	0.54
2:C:4:LYS:HG3	8:C:9575:HOH:O	2.07	0.54
2:M:587:VAL:O	2:M:591:SER:HB3	2.07	0.54
3:N:1437:ALA:HB3	3:N:1446:VAL:CG1	2.36	0.54
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.07	0.54
3:D:1409:ALA:HB2	8:D:9593:HOH:O	2.07	0.54
5:F:369:LEU:HG	8:F:9532:HOH:O	2.07	0.54
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.43	0.54
3:N:434:ARG:NH1	8:N:2094:HOH:O	2.41	0.54
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.35	0.54
3:D:169:TYR:CG	3:D:169:TYR:O	2.60	0.54
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.22	0.54
5:F:290:GLU:HB2	8:F:9483:HOH:O	2.07	0.54
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.89	0.54
3:D:710:ARG:HH21	3:D:1224:VAL:HG21	1.71	0.54
5:P:288:TYR:CD1	5:P:288:TYR:N	2.74	0.54
1:B:24:VAL:HG23	8:B:9505:HOH:O	2.06	0.54
3:N:1332:PRO:CB	3:N:1421:LEU:HD21	2.38	0.54
2:M:897:LEU:HD23	2:M:899:GLN:NE2	2.22	0.54
2:M:415:PRO:HA	8:M:9730:HOH:O	2.07	0.54
3:D:628:ARG:HG2	3:D:629:SER:N	2.22	0.54
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.41	0.54
3:D:799:LYS:HD2	8:D:2525:HOH:O	2.07	0.54
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.90	0.54
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	2.07	0.54
2:M:722:ILE:HG23	2:M:722:ILE:O	2.08	0.54
1:K:65:PHE:CE2	2:M:830:LYS:HG3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:231:PRO:HB2	8:C:9804:HOH:O	2.08	0.54
2:C:44:ILE:HD12	2:C:44:ILE:H	1.73	0.54
2:M:1111:ILE:HG13	2:M:1112:PHE:N	2.22	0.54
2:C:207:LEU:HB3	2:C:221:LEU:HD21	1.88	0.54
3:D:763:MET:HA	8:D:9596:HOH:O	2.08	0.54
3:N:738:ALA:HB2	8:N:9496:HOH:O	2.08	0.54
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.72	0.54
5:P:267:THR:HG23	5:P:299:TRP:HH2	1.73	0.54
3:N:1320:GLU:HA	8:N:9629:HOH:O	2.07	0.54
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.41	0.54
3:D:54:LYS:HG2	3:D:55:ASP:OD1	2.08	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.07	0.54
2:M:507:ARG:HG3	8:M:9565:HOH:O	2.06	0.54
2:M:820:ARG:HG3	8:M:9511:HOH:O	2.08	0.54
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.73	0.54
4:O:87:LYS:HB2	8:O:724:HOH:O	2.08	0.54
2:C:869:VAL:HG22	2:C:871:LEU:HD13	1.89	0.54
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.90	0.54
5:P:325:LYS:HD3	8:P:9772:HOH:O	2.07	0.54
5:F:399:GLN:HG3	8:F:9828:HOH:O	2.08	0.54
5:F:412:GLU:HG3	5:F:418:LEU:HD13	1.89	0.54
1:L:91:ASN:HA	8:L:879:HOH:O	2.07	0.54
2:M:1090:LYS:HE2	2:M:1112:PHE:CE2	2.43	0.54
2:M:1062:GLY:HA3	8:M:9570:HOH:O	2.06	0.54
2:C:163:ILE:HG13	2:C:171:TRP:HZ3	1.71	0.54
3:D:638:LYS:HE3	8:D:2552:HOH:O	2.06	0.54
3:N:1020:LEU:HD21	3:N:1038:LEU:CD2	2.37	0.54
5:F:192:LEU:O	5:F:196:VAL:HG23	2.08	0.54
2:C:443:THR:CG2	2:C:450:GLY:H	2.15	0.54
3:D:11:ALA:HB1	3:D:507:ASN:OD1	2.07	0.54
2:C:328:LEU:HD22	2:C:437:ARG:HD3	1.89	0.54
3:N:1455:LYS:HD2	8:N:2323:HOH:O	2.08	0.54
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.38	0.54
1:L:156:HIS:CD2	1:L:157:GLY:N	2.75	0.54
1:L:156:HIS:HD2	1:L:157:GLY:N	2.04	0.54
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.42	0.54
2:C:889:HIS:NE2	2:C:970:GLY:HA3	2.23	0.54
5:P:130:VAL:HG13	5:P:156:VAL:HG23	1.90	0.54
2:C:93:PRO:HA	8:C:9502:HOH:O	2.08	0.54
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.90	0.54
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:GLY:HA2	8:A:9473:HOH:O	2.07	0.54
3:D:1395:LEU:HG	8:D:2279:HOH:O	2.07	0.54
2:C:1039:ALA:HB2	3:D:707:THR:CG2	2.37	0.54
3:N:444:VAL:O	3:N:444:VAL:HG22	2.07	0.54
3:N:972:LEU:HD12	8:N:2464:HOH:O	2.08	0.54
3:N:496:LEU:CD2	3:N:500:ARG:HG3	2.38	0.54
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.23	0.54
3:D:195:VAL:HG13	8:D:9592:HOH:O	2.07	0.54
3:D:510:GLU:HG2	8:D:2069:HOH:O	2.07	0.54
1:L:196:THR:HG21	8:L:3509:HOH:O	2.07	0.54
2:C:15:LEU:HD22	8:C:9630:HOH:O	2.08	0.54
3:N:704:ARG:HD2	3:N:705:ALA:H	1.72	0.54
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.34	0.54
2:C:1049:LEU:HD23	3:D:1472:ILE:HD11	1.87	0.54
2:C:270:GLY:H	2:C:288:ARG:NH2	2.05	0.54
1:A:42:ARG:HG2	1:A:42:ARG:NH1	2.18	0.54
2:C:22:GLN:HE22	2:C:336:VAL:HG21	1.71	0.54
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.23	0.54
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.90	0.54
5:F:172:ARG:O	5:F:176:ILE:HG13	2.07	0.54
2:C:1021:LEU:HD22	5:F:332:PHE:HA	1.89	0.54
3:N:55:ASP:CA	3:N:82:LYS:HG2	2.37	0.54
2:M:843:HIS:CD2	2:M:884:GLN:HA	2.41	0.54
3:D:77:GLY:O	3:D:78:VAL:HG23	2.07	0.54
1:L:133:GLU:HG3	1:L:134:GLU:H	1.73	0.54
5:F:130:VAL:HG21	5:F:159:ILE:CG2	2.37	0.54
3:D:441:ARG:O	3:D:443:VAL:N	2.41	0.54
3:D:1339:LYS:HG2	3:D:1343:ALA:HB2	1.88	0.54
3:D:1079:LYS:HG3	3:D:1080:GLY:N	2.22	0.54
2:M:283:ILE:HG22	2:M:284:ARG:HG3	1.90	0.54
3:D:797:LYS:HG2	8:D:2474:HOH:O	2.07	0.54
2:C:738:ASP:HB2	2:C:744:ARG:HB3	1.90	0.54
3:N:477:LEU:O	3:N:481:MET:HB2	2.08	0.54
1:K:34:VAL:HG21	2:M:939:ARG:CZ	2.38	0.54
3:D:402:PRO:HB3	8:D:2109:HOH:O	2.07	0.54
3:N:806:PHE:CG	3:N:806:PHE:O	2.61	0.54
5:P:398:ARG:HB3	8:P:9476:HOH:O	2.07	0.54
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.89	0.54
3:D:950:GLY:N	3:D:953:ASP:OD1	2.35	0.54
3:N:1243:THR:O	3:N:1269:LYS:HD3	2.08	0.54
2:C:73:LEU:HD23	2:C:93:PRO:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:80:VAL:HG23	3:D:81:THR:O	2.08	0.54
2:M:503:LEU:HB3	8:M:9597:HOH:O	2.08	0.54
2:M:808:ARG:HH21	2:M:820:ARG:NH2	2.06	0.54
3:N:1420:LEU:HD12	8:N:9548:HOH:O	2.07	0.54
2:M:739:GLU:HG2	8:M:9580:HOH:O	2.08	0.54
2:M:383:ARG:NH2	8:M:9873:HOH:O	2.38	0.54
3:N:1114:THR:HB	3:N:1195:GLN:HB2	1.90	0.54
2:M:211:LEU:HD12	2:M:308:ARG:HD3	1.89	0.54
1:L:94:LEU:HD11	1:L:119:ASP:OD2	2.07	0.54
2:C:1096:ALA:HB3	3:D:101:HIS:CE1	2.43	0.54
2:M:778:PHE:HZ	5:P:419:ARG:HD3	1.68	0.54
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.43	0.54
3:N:950:GLY:O	3:N:953:ASP:N	2.36	0.54
2:M:448:ASN:HA	2:M:451:LEU:HD12	1.89	0.54
2:M:162:ILE:O	2:M:164:PRO:HD2	2.08	0.54
2:C:720:GLU:CD	2:C:758:ARG:HH11	2.11	0.54
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.08	0.54
2:M:203:ASP:HB2	8:M:9850:HOH:O	2.08	0.54
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.90	0.54
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.38	0.54
1:K:205:VAL:HG23	1:K:206:THR:N	2.23	0.54
2:M:19:THR:HG21	2:M:124:ASP:O	2.07	0.54
3:N:1498:ALA:HB1	8:N:2333:HOH:O	2.07	0.54
2:M:501:THR:O	2:M:503:LEU:HD23	2.08	0.54
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.43	0.54
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.90	0.54
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.42	0.54
3:D:659:LYS:C	3:D:659:LYS:HD3	2.28	0.54
3:N:770:LEU:HD11	3:N:919:PHE:CD2	2.42	0.54
5:P:181:GLU:OE2	5:P:184:ARG:HD3	2.07	0.54
2:M:63:GLY:O	2:M:103:LYS:HE2	2.08	0.54
3:D:1439:SER:HB3	8:D:2132:HOH:O	2.07	0.54
1:A:51:THR:HA	1:A:145:ASP:O	2.07	0.54
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.90	0.54
3:N:524:LEU:C	3:N:526:PRO:HD3	2.28	0.54
3:N:166:GLN:HG2	3:N:207:PHE:HB2	1.90	0.54
5:P:134:LYS:HE3	5:P:134:LYS:HA	1.90	0.54
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.37	0.54
3:D:131:LYS:HB3	3:D:456:MET:HE2	1.90	0.54
3:D:131:LYS:HD2	5:F:83:GLN:CD	2.28	0.54
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.28	0.54
3:D:806:PHE:O	3:D:808:THR:N	2.40	0.54
3:N:988:ARG:HH11	3:N:988:ARG:HG2	1.72	0.54
3:N:781:PRO:O	3:N:786:ILE:HG13	2.08	0.54
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.37	0.54
2:M:204:GLN:HG3	8:M:2184:HOH:O	2.08	0.54
2:C:679:PHE:HB2	8:C:9687:HOH:O	2.08	0.54
3:N:1377:LYS:HE2	3:N:1378:TYR:CZ	2.43	0.54
1:K:32:PHE:HB2	8:K:1204:HOH:O	2.08	0.54
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.73	0.54
3:N:711:LEU:HD12	3:N:778:LEU:HD23	1.88	0.54
2:C:749:VAL:HA	8:C:2219:HOH:O	2.07	0.54
2:M:325:ILE:HA	8:M:2182:HOH:O	2.08	0.54
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.90	0.54
5:F:376:ILE:HG22	5:F:377:ASP:CB	2.35	0.53
2:M:432:ARG:HB3	8:M:9836:HOH:O	2.08	0.53
1:A:196:THR:HG22	8:A:9445:HOH:O	2.08	0.53
3:D:865:THR:HG23	3:D:874:GLU:HG2	1.89	0.53
2:M:127:PHE:HB3	2:M:129:ILE:HD13	1.90	0.53
2:C:474:VAL:HG13	2:C:530:GLU:O	2.09	0.53
2:C:534:VAL:N	2:C:538:GLN:HE22	2.05	0.53
3:D:1103:HIS:HD2	3:D:1462:LEU:N	2.01	0.53
2:C:328:LEU:HD13	2:C:433:THR:CB	2.38	0.53
2:C:572:ILE:HD11	2:C:698:ASP:HB3	1.90	0.53
2:C:1013:TYR:HB2	5:F:335:ASP:OD2	2.07	0.53
3:N:1130:ARG:HB2	8:N:2015:HOH:O	2.07	0.53
5:F:361:LEU:HD13	5:F:404:ALA:CB	2.37	0.53
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.37	0.53
3:N:421:LEU:HG	3:N:422:ALA:O	2.08	0.53
3:N:452:ILE:HG23	3:N:452:ILE:O	2.07	0.53
3:D:160:GLU:HG2	3:D:165:LYS:CD	2.37	0.53
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.90	0.53
3:D:421:LEU:HD23	3:D:421:LEU:O	2.09	0.53
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.90	0.53
3:N:827:ILE:HG13	8:N:9926:HOH:O	2.07	0.53
2:M:405:ARG:HD2	2:M:442:GLU:OE1	2.09	0.53
2:M:441:VAL:HA	8:M:9785:HOH:O	2.08	0.53
5:P:392:VAL:CG1	5:P:396:ARG:HB2	2.38	0.53
3:D:774:SER:HB2	3:D:776:GLU:HG2	1.91	0.53
3:D:776:GLU:HG3	8:D:9714:HOH:O	2.09	0.53
2:M:910:LYS:HG3	8:M:9715:HOH:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.90	0.53
2:C:876:VAL:O	2:C:879:ARG:O	2.26	0.53
5:P:83:GLN:O	5:P:87:GLU:HG3	2.08	0.53
2:M:841:ASN:HD21	2:M:843:HIS:CG	2.25	0.53
5:P:99:GLU:OE1	5:P:234:LYS:HB2	2.07	0.53
3:D:181:ASP:CG	3:D:198:ARG:HB2	2.27	0.53
3:D:1489:GLN:HE21	3:D:1493:LYS:HZ1	1.57	0.53
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.91	0.53
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.89	0.53
3:N:1031:ASN:OD1	3:N:1033:GLN:N	2.41	0.53
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.21	0.53
3:D:1114:THR:O	3:D:1114:THR:HG23	2.07	0.53
2:M:554:ASP:N	2:M:880:MET:O	2.28	0.53
2:M:566:THR:HG21	8:M:2185:HOH:O	2.07	0.53
3:N:761:ILE:HD13	4:O:19:LEU:HD23	1.90	0.53
3:D:175:VAL:HG21	8:D:2442:HOH:O	2.08	0.53
5:P:406:ARG:HB3	8:P:9621:HOH:O	2.08	0.53
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.73	0.53
3:D:1033:GLN:NE2	3:D:1036:ARG:NH1	2.44	0.53
3:D:112:ILE:O	3:D:112:ILE:HD12	2.08	0.53
2:M:263:ASP:HB2	2:M:264:PRO:CD	2.39	0.53
2:M:412:ALA:HA	8:M:2237:HOH:O	2.09	0.53
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.43	0.53
5:P:164:LYS:HE2	8:P:9648:HOH:O	2.08	0.53
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.43	0.53
2:C:843:HIS:HD2	2:C:884:GLN:CB	2.21	0.53
3:N:42:ASP:O	3:N:43:GLY:O	2.26	0.53
2:C:43:GLY:HA2	8:C:9879:HOH:O	2.08	0.53
3:N:528:VAL:HG22	8:P:9581:HOH:O	2.07	0.53
5:F:202:TYR:HB2	8:F:9547:HOH:O	2.08	0.53
2:M:501:THR:HG22	2:M:513:VAL:HG11	1.88	0.53
2:M:770:GLU:HB3	8:M:9573:HOH:O	2.08	0.53
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.56	0.53
3:N:564:GLU:H	3:N:564:GLU:CD	2.12	0.53
2:M:153:ALA:O	2:M:155:PRO:HD3	2.08	0.53
2:C:237:ARG:O	2:C:240:THR:HB	2.09	0.53
8:C:9763:HOH:O	5:F:373:LYS:HD2	2.09	0.53
5:F:393:THR:CG2	5:F:394:ARG:N	2.69	0.53
3:N:432:TYR:HA	3:N:448:GLU:O	2.09	0.53
5:P:134:LYS:HB3	5:P:178:ARG:CZ	2.38	0.53
2:C:194:VAL:HG13	2:C:221:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:484:PRO:HB3	8:N:9566:HOH:O	2.09	0.53
3:D:209:ARG:CZ	3:D:397:LYS:HB2	2.38	0.53
3:D:209:ARG:NH2	3:D:397:LYS:HB2	2.23	0.53
3:N:148:GLU:HB3	3:N:151:GLN:CG	2.38	0.53
3:D:1104:GLU:HG3	3:D:1105:ILE:HD13	1.91	0.53
2:M:264:PRO:CB	2:M:289:THR:HG21	2.37	0.53
5:F:292:ALA:HB1	5:F:299:TRP:O	2.08	0.53
3:N:601:ARG:NE	3:N:605:ASP:HB3	2.23	0.53
5:F:142:ARG:HD3	8:F:9733:HOH:O	2.08	0.53
3:N:1232:PRO:HB3	3:N:1361:VAL:HG11	1.89	0.53
3:N:1461:GLY:O	3:N:1473:PRO:HG2	2.08	0.53
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.39	0.53
1:L:77:GLU:HB2	3:N:872:ARG:NH2	2.24	0.53
8:N:2187:HOH:O	5:P:90:GLN:HG3	2.07	0.53
2:M:944:LEU:HB3	8:M:9761:HOH:O	2.09	0.53
1:K:28:LEU:HA	8:K:2870:HOH:O	2.08	0.53
1:L:51:THR:HA	1:L:145:ASP:O	2.07	0.53
2:C:497:ALA:HA	2:C:515:ALA:HA	1.90	0.53
2:C:949:LYS:CB	3:D:796:ARG:HH21	2.22	0.53
2:C:195:LEU:HD12	2:C:195:LEU:O	2.08	0.53
2:C:399:ASN:HB3	2:C:568:ALA:O	2.09	0.53
1:L:206:THR:HB	1:L:209:GLU:OE2	2.09	0.53
3:N:535:PHE:HA	8:N:9957:HOH:O	2.08	0.53
2:C:438:ILE:HG21	8:C:9979:HOH:O	2.07	0.53
3:N:560:GLN:CA	3:N:560:GLN:HE21	2.22	0.53
2:M:1104:GLU:HG2	8:M:9503:HOH:O	2.08	0.53
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.90	0.53
3:D:541:ASN:O	3:D:545:ARG:HG3	2.08	0.53
3:N:1017:PHE:HA	3:N:1022:VAL:CG2	2.38	0.53
2:C:569:VAL:HG12	2:C:996:LYS:O	2.09	0.53
1:K:182:GLU:O	1:K:194:LYS:HB3	2.09	0.53
3:D:1011:PHE:HE1	3:D:1018:ASN:ND2	2.05	0.53
3:D:1133:ARG:HB2	8:D:2100:HOH:O	2.08	0.53
3:D:968:ASP:O	3:D:971:LEU:HB3	2.09	0.53
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.89	0.53
3:D:142:LEU:HA	8:D:9493:HOH:O	2.08	0.53
1:B:50:GLY:O	1:B:146:ARG:HA	2.08	0.53
2:M:516:ARG:HG3	3:N:1068:LEU:HD13	1.90	0.53
1:K:181:VAL:O	2:M:938:LYS:HD2	2.08	0.53
2:C:266:ARG:HD3	2:C:273:GLY:HA3	1.88	0.53
2:C:290:LEU:HD12	8:C:9781:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1376:MET:CE	3:N:1421:LEU:HD13	2.38	0.53
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.38	0.53
2:C:911:GLU:HG2	2:C:915:LYS:HE3	1.91	0.53
4:O:74:VAL:CG1	4:O:79:LEU:HD21	2.35	0.53
2:C:704:HIS:CD2	2:C:831:ARG:HH12	2.27	0.53
2:M:1008:ARG:CZ	2:M:1020:PRO:HB3	2.38	0.53
2:C:679:PHE:O	2:C:681:GLY:N	2.41	0.53
2:C:484:VAL:HG12	2:C:486:MET:HG3	1.89	0.53
2:C:286:SER:HB3	2:C:299:LYS:NZ	2.23	0.53
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.43	0.53
2:C:144:PRO:HG2	2:C:165:LEU:HD23	1.91	0.53
2:C:674:VAL:HG23	2:C:869:VAL:O	2.08	0.53
3:N:379:ALA:HB2	8:N:9770:HOH:O	2.09	0.53
3:N:482:LYS:HG2	8:N:9980:HOH:O	2.08	0.53
2:C:768:THR:HB	2:C:771:GLU:HB3	1.89	0.53
5:F:326:ASP:HA	8:F:9543:HOH:O	2.08	0.53
3:N:119:SER:H	3:N:123:LEU:HD12	1.73	0.53
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.29	0.53
2:M:44:ILE:HD11	2:M:340:MET:HE1	1.91	0.53
3:D:895:VAL:O	3:D:899:LEU:HD12	2.08	0.53
3:D:484:PRO:O	3:D:489:ARG:HD2	2.09	0.53
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.39	0.53
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.24	0.53
3:N:40:GLU:OE1	3:N:40:GLU:HA	2.08	0.53
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.09	0.53
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.90	0.53
3:D:1403:LEU:HD22	8:D:9569:HOH:O	2.08	0.53
1:K:220:GLU:HG2	8:K:1270:HOH:O	2.08	0.53
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.74	0.53
2:M:74:GLY:HA2	8:M:9521:HOH:O	2.09	0.53
2:M:890:LEU:HD12	2:M:890:LEU:O	2.09	0.53
2:M:71:TYR:HD2	2:M:71:TYR:H	1.51	0.53
3:D:115:LEU:HD11	3:D:468:LEU:HD13	1.90	0.53
3:D:74:GLU:HB2	3:D:75:ARG:HD2	1.91	0.53
1:L:47:SER:HB2	1:L:217:ILE:HD13	1.91	0.53
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.74	0.53
2:C:1083:GLU:HG2	8:C:9782:HOH:O	2.09	0.53
3:N:141:ILE:HD12	3:N:141:ILE:N	2.24	0.53
3:N:396:VAL:HG22	3:N:447:VAL:HB	1.90	0.53
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.30	0.53
2:M:520:GLU:O	2:M:522:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:598:ARG:NH2	5:P:318:GLU:O	2.42	0.53
3:D:480:GLU:O	3:D:484:PRO:HD2	2.08	0.53
2:C:837:ASP:OD2	2:C:838:LYS:N	2.41	0.53
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.53
2:M:537:LYS:N	2:M:905:ILE:HD11	2.24	0.53
1:K:219:ARG:HH12	1:K:220:GLU:HG3	1.74	0.53
3:N:1485:GLN:HB3	8:N:2188:HOH:O	2.08	0.53
2:M:317:VAL:HG22	2:M:320:HIS:CE1	2.43	0.53
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.74	0.53
2:C:763:GLY:HA3	8:C:2108:HOH:O	2.09	0.53
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.24	0.53
2:M:971:LYS:NZ	3:N:950:GLY:HA3	2.23	0.53
2:M:448:ASN:ND2	2:M:452:ILE:HD11	2.24	0.53
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.91	0.53
2:C:290:LEU:HD13	8:C:9742:HOH:O	2.08	0.53
3:N:820:GLU:CB	3:N:836:VAL:HG21	2.38	0.53
2:C:720:GLU:OE2	2:C:760:SER:HB3	2.08	0.53
3:N:774:SER:HB2	3:N:776:GLU:HG2	1.91	0.53
1:B:211:LEU:O	1:B:215:VAL:HG13	2.09	0.53
1:A:39:PRO:CG	1:B:39:PRO:HG2	2.39	0.53
3:D:42:ASP:O	3:D:43:GLY:O	2.27	0.53
1:L:185:ARG:NH1	3:N:692:GLU:HG3	2.24	0.53
2:M:247:PRO:HG2	8:M:2139:HOH:O	2.09	0.53
2:C:252:LYS:HE2	2:C:296:GLY:HA3	1.89	0.53
2:C:1001:VAL:HA	8:C:9545:HOH:O	2.09	0.53
2:C:1039:ALA:HB2	3:D:707:THR:HG21	1.91	0.53
5:F:122:LEU:HD23	5:F:126:LEU:HB3	1.91	0.53
4:O:70:THR:HG22	4:O:71:GLY:H	1.73	0.53
2:C:322:VAL:HA	8:C:9963:HOH:O	2.08	0.53
2:M:455:LEU:HD13	2:M:456:ALA:O	2.09	0.53
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.91	0.53
3:N:138:LYS:N	3:N:138:LYS:HD2	2.15	0.53
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.34	0.53
3:N:80:VAL:HG23	3:N:81:THR:O	2.09	0.53
3:D:820:GLU:HB3	3:D:836:VAL:HG21	1.91	0.53
3:N:930:LEU:O	3:N:934:LEU:HD12	2.09	0.53
3:N:885:ILE:HG23	3:N:937:TYR:CE1	2.44	0.53
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.39	0.53
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.08	0.53
1:A:212:ASN:HA	8:A:9434:HOH:O	2.09	0.53
1:A:212:ASN:HB2	8:A:9590:HOH:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1035:MET:HB2	2:M:1036:GLU:OE1	2.09	0.53
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.91	0.53
1:B:65:PHE:HB2	8:B:9547:HOH:O	2.08	0.53
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.91	0.53
5:F:412:GLU:CG	5:F:418:LEU:HD13	2.40	0.52
3:N:496:LEU:HD21	3:N:500:ARG:NE	2.25	0.52
3:N:104:PHE:HA	8:N:9484:HOH:O	2.09	0.52
3:N:422:ALA:N	3:N:427:VAL:HG11	2.15	0.52
2:M:358:ARG:HB3	2:M:371:LYS:O	2.09	0.52
4:O:18:ARG:NH1	8:O:4048:HOH:O	2.43	0.52
1:A:72:LYS:HZ1	2:C:644:VAL:HA	1.74	0.52
1:B:132:LEU:CD2	1:B:138:LEU:HD22	2.34	0.52
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.91	0.52
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.74	0.52
3:N:992:ILE:O	3:N:995:LEU:HB3	2.08	0.52
5:P:292:ALA:HB1	5:P:299:TRP:O	2.09	0.52
3:N:908:LYS:O	3:N:912:LYS:HB2	2.09	0.52
5:F:85:LEU:HD22	5:F:193:ARG:HG3	1.90	0.52
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.90	0.52
3:D:1047:LYS:HG2	3:D:1053:PHE:CZ	2.44	0.52
3:D:84:ILE:HA	8:D:2066:HOH:O	2.09	0.52
2:C:909:ALA:HB1	2:C:914:ILE:CD1	2.39	0.52
5:F:289:GLU:O	5:F:293:GLU:HG3	2.09	0.52
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.24	0.52
4:E:4:PRO:HB2	8:E:9361:HOH:O	2.08	0.52
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.24	0.52
2:C:501:THR:HG22	2:C:513:VAL:CG1	2.39	0.52
3:D:529:GLN:HB2	8:D:2263:HOH:O	2.07	0.52
5:F:153:PRO:HB2	8:F:9637:HOH:O	2.09	0.52
3:N:399:ARG:HD3	3:N:402:PRO:HG3	1.91	0.52
2:M:1085:PHE:CE1	2:M:1111:ILE:HG21	2.44	0.52
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.30	0.52
2:C:1115:LEU:O	3:D:89:ARG:HG2	2.09	0.52
3:N:558:LEU:CB	5:P:145:PRO:HB3	2.39	0.52
2:M:100:LEU:HD21	2:M:367:LEU:HG	1.91	0.52
2:C:428:ARG:HH21	2:C:451:LEU:CD1	2.22	0.52
3:D:444:VAL:HG22	3:D:444:VAL:O	2.09	0.52
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.43	0.52
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.91	0.52
3:N:827:ILE:HD12	3:N:828:LYS:NZ	2.24	0.52
3:N:806:PHE:O	3:N:808:THR:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:470:LEU:HD12	3:D:508:ARG:NH1	2.24	0.52
8:A:9609:HOH:O	1:B:12:THR:HG22	2.10	0.52
2:C:1005:MET:O	2:C:1005:MET:HG2	2.07	0.52
2:M:1032:PHE:CE1	2:M:1052:MET:HE2	2.43	0.52
2:M:241:LEU:HB3	8:M:9936:HOH:O	2.09	0.52
2:M:181:VAL:HG12	2:M:182:VAL:H	1.74	0.52
3:N:680:GLN:O	3:N:683:ILE:HG13	2.09	0.52
5:P:282:LEU:HD12	5:P:284:ARG:HD2	1.90	0.52
4:E:8:LYS:O	4:E:12:MET:HG3	2.08	0.52
2:M:617:ASP:HB3	8:M:9992:HOH:O	2.08	0.52
5:P:406:ARG:HA	5:P:409:LYS:CD	2.39	0.52
5:P:405:LEU:O	5:P:408:LEU:CD2	2.58	0.52
2:M:339:LEU:HD21	8:M:9656:HOH:O	2.09	0.52
2:C:359:MET:HE1	8:C:2181:HOH:O	2.09	0.52
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.44	0.52
3:D:708:LEU:O	3:D:1227:GLN:HG2	2.08	0.52
5:F:286:PRO:HB3	5:F:290:GLU:HB2	1.91	0.52
3:D:1432:LYS:NZ	3:D:1460:ILE:HB	2.23	0.52
3:N:584:ASN:H	3:N:602:SER:CB	2.22	0.52
1:K:146:ARG:NH2	1:K:147:GLY:HA2	2.23	0.52
2:M:42:VAL:HG12	2:M:43:GLY:N	2.23	0.52
2:C:281:LEU:CD1	2:C:306:THR:HA	2.39	0.52
2:M:52:PHE:HD2	2:M:68:PHE:HB2	1.71	0.52
2:C:985:GLY:HA3	8:D:9822:HOH:O	2.09	0.52
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.39	0.52
2:M:1014:SER:HB2	8:M:9765:HOH:O	2.09	0.52
2:M:1019:GLN:NE2	3:N:621:LYS:HB3	2.25	0.52
2:M:686:ASP:HB2	8:N:2331:HOH:O	2.09	0.52
1:B:90:LEU:HD11	8:B:9549:HOH:O	2.08	0.52
3:D:1493:LYS:HG3	8:D:9515:HOH:O	2.09	0.52
5:P:261:PRO:O	5:P:265:VAL:HG23	2.10	0.52
3:N:847:ASP:HB2	8:N:2224:HOH:O	2.09	0.52
2:C:1118:LYS:NZ	3:D:20:SER:HA	2.24	0.52
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.91	0.52
3:N:114:THR:O	3:N:495:ARG:HG3	2.09	0.52
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.91	0.52
3:N:1096:ARG:CG	3:N:1096:ARG:HH11	2.21	0.52
1:L:12:THR:CG2	1:L:24:VAL:HB	2.31	0.52
1:L:124:ASN:HA	8:L:932:HOH:O	2.09	0.52
2:C:139:GLN:HB3	2:C:334:ARG:CG	2.38	0.52
2:M:568:ALA:HB1	2:M:668:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:907:GLU:HA	8:D:2030:HOH:O	2.10	0.52
1:A:124:ASN:HB3	1:A:127:LEU:HD23	1.92	0.52
2:M:728:HIS:NE2	5:P:423:ASP:OD1	2.43	0.52
2:M:462:ASP:HB2	8:M:9695:HOH:O	2.09	0.52
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.33	0.52
2:M:65:VAL:O	2:M:101:ILE:HG12	2.08	0.52
2:C:344:PHE:HD2	2:C:382:ILE:HD11	1.74	0.52
3:N:1103:HIS:CE1	3:N:1463:LYS:HE2	2.45	0.52
3:D:17:LYS:HG3	8:D:9805:HOH:O	2.08	0.52
3:D:736:PHE:HA	8:D:9665:HOH:O	2.08	0.52
3:N:119:SER:N	3:N:123:LEU:HB2	2.23	0.52
3:N:131:LYS:HG2	3:N:568:ARG:CG	2.28	0.52
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.91	0.52
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.92	0.52
2:M:448:ASN:CG	2:M:452:ILE:HD11	2.29	0.52
2:C:290:LEU:HG	8:C:9714:HOH:O	2.09	0.52
2:M:266:ARG:HH11	2:M:266:ARG:HG3	1.75	0.52
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.23	0.52
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.92	0.52
3:N:471:GLU:HG2	8:N:9534:HOH:O	2.09	0.52
3:D:1062:ARG:HG3	3:D:1062:ARG:HH11	1.74	0.52
5:P:256:ARG:HD2	8:P:9506:HOH:O	2.10	0.52
2:C:683:ASN:HB2	2:C:687:ALA:O	2.09	0.52
5:P:169:GLU:HA	5:P:172:ARG:NH2	2.25	0.52
3:N:1422:MET:HE3	3:N:1427:SER:HA	1.91	0.52
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.39	0.52
3:N:1286:THR:CG2	3:N:1287:GLU:N	2.71	0.52
3:N:633:VAL:O	3:N:635:PRO:HD3	2.09	0.52
3:N:1500:LYS:HA	8:N:9894:HOH:O	2.09	0.52
2:M:807:ARG:HG2	8:M:9793:HOH:O	2.08	0.52
3:D:64:LYS:HD3	5:F:376:ILE:O	2.09	0.52
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.45	0.52
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.74	0.52
2:M:516:ARG:HG3	3:N:1068:LEU:CD1	2.40	0.52
1:A:33:GLY:O	1:A:195:LEU:HD22	2.10	0.52
3:D:166:GLN:HG3	3:D:168:THR:OG1	2.10	0.52
3:D:112:ILE:HD13	3:D:461:ILE:HG21	1.91	0.52
3:N:777:PRO:HG2	3:N:912:LYS:O	2.08	0.52
2:M:492:ASP:CA	2:M:518:LYS:HB3	2.39	0.52
2:C:837:ASP:HA	8:C:9820:HOH:O	2.09	0.52
2:M:841:ASN:HD21	2:M:843:HIS:CB	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:177:ALA:CB	3:D:199:LEU:HD13	2.40	0.52
3:N:1133:ARG:HG3	8:N:9895:HOH:O	2.08	0.52
3:D:566:ILE:HG23	5:F:217:ASN:HD22	1.75	0.52
1:K:29:GLU:C	8:K:1204:HOH:O	2.48	0.52
2:M:610:ARG:HD3	2:M:622:GLU:OE1	2.09	0.52
5:P:337:HIS:HB2	8:P:9745:HOH:O	2.09	0.52
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.75	0.52
3:D:660:LYS:HA	3:D:663:GLU:HG3	1.91	0.52
2:C:964:LYS:HD2	8:C:9496:HOH:O	2.10	0.52
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.92	0.52
3:D:418:GLY:HA2	8:D:9642:HOH:O	2.09	0.52
3:N:213:VAL:HG23	3:N:391:ALA:HA	1.92	0.52
3:D:864:VAL:HG23	3:D:877:PRO:HD3	1.92	0.52
2:C:139:GLN:NE2	2:C:415:PRO:HD2	2.22	0.52
3:D:9:ARG:HB2	3:D:1456:LYS:HA	1.92	0.52
2:C:468:ARG:HD3	2:C:485:TYR:O	2.10	0.52
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.40	0.52
5:F:331:ASP:N	8:F:9658:HOH:O	2.42	0.52
1:K:206:THR:HG21	8:K:1068:HOH:O	2.10	0.52
3:D:55:ASP:HB3	3:D:82:LYS:HE2	1.92	0.52
5:P:257:THR:O	5:P:258:ILE:HD13	2.09	0.52
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.44	0.52
2:C:671:ASN:HD22	2:C:671:ASN:N	2.08	0.52
5:F:191:ASN:HB3	5:F:220:LEU:HD11	1.91	0.52
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.92	0.52
5:F:416:ARG:NH1	5:F:419:ARG:CB	2.72	0.52
3:N:478:LEU:HD23	3:N:1388:ARG:NH1	2.24	0.52
2:C:352:ALA:O	2:C:355:VAL:HG12	2.10	0.52
2:C:64:LEU:HB2	8:C:9487:HOH:O	2.10	0.52
3:N:23:TYR:HB2	3:N:49:ILE:O	2.10	0.52
3:N:169:TYR:N	3:N:170:PRO:HD3	2.23	0.52
3:N:426:LYS:HE2	3:N:428:LYS:HE3	1.92	0.52
3:N:1093:TYR:CE1	3:N:1097:LYS:HE2	2.45	0.52
2:M:473:ARG:HB3	8:M:9483:HOH:O	2.08	0.52
2:C:435:TYR:C	2:C:437:ARG:H	2.11	0.52
5:P:286:PRO:HB3	5:P:290:GLU:HB2	1.92	0.52
5:F:138:SER:OG	5:F:140:ARG:HG2	2.09	0.52
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.10	0.52
2:C:546:LEU:CD1	2:C:565:GLN:HE22	2.22	0.52
3:N:675:ARG:HA	3:N:678:GLU:OE2	2.09	0.52
3:D:415:VAL:HG12	3:D:416:ALA:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:225:GLU:HB3	5:P:226:LYS:HZ2	1.74	0.52
3:N:1133:ARG:NH1	8:N:2461:HOH:O	2.42	0.52
1:K:150:TYR:HD1	1:K:170:VAL:HG13	1.74	0.52
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.25	0.52
8:D:2217:HOH:O	4:E:92:ILE:HD13	2.10	0.52
1:B:51:THR:HA	1:B:145:ASP:O	2.09	0.52
3:N:19:ARG:HH21	3:N:94:GLU:CD	2.13	0.52
3:N:187:LYS:HE2	8:N:2337:HOH:O	2.08	0.52
3:N:423:ASP:O	3:N:425:GLY:N	2.34	0.52
2:C:676:ILE:O	3:D:948:THR:HG22	2.09	0.52
3:D:838:ARG:HH11	3:D:838:ARG:HG3	1.75	0.52
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.92	0.52
2:M:976:ASP:HB3	2:M:979:THR:CG2	2.39	0.52
3:D:1304:LYS:HD3	3:D:1304:LYS:N	2.16	0.52
3:N:760:ARG:NE	4:O:3:GLU:OE1	2.43	0.52
1:A:72:LYS:O	2:C:608:GLY:HA2	2.10	0.52
2:C:158:TYR:CD1	2:C:313:LEU:HG	2.45	0.52
2:M:862:PRO:HG2	2:M:925:TYR:OH	2.10	0.52
3:D:172:PRO:HG3	3:D:178:LEU:HD22	1.91	0.52
3:D:781:PRO:HB3	3:D:785:ILE:CG2	2.40	0.52
2:M:580:MET:HE2	2:M:902:ILE:HG12	1.91	0.52
3:D:920:LEU:HD21	8:D:9484:HOH:O	2.10	0.52
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.45	0.52
2:M:839:LEU:HD12	2:M:994:ILE:HG21	1.92	0.52
5:P:123:ASP:HB3	5:P:125:ASP:OD1	2.10	0.52
5:F:392:VAL:CG1	5:F:396:ARG:HB2	2.40	0.52
2:C:770:GLU:CG	3:D:65:ARG:HH22	2.11	0.52
8:C:9560:HOH:O	5:F:405:LEU:HD22	2.09	0.52
3:N:496:LEU:HD21	3:N:500:ARG:HE	1.73	0.52
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.75	0.52
2:M:270:GLY:H	2:M:288:ARG:CZ	2.22	0.52
2:M:572:ILE:CD1	2:M:701:THR:HB	2.34	0.52
3:D:1381:VAL:O	3:D:1389:LEU:O	2.28	0.52
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.93	0.52
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.92	0.52
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.45	0.52
2:C:682:TYR:HA	3:D:635:PRO:HG2	1.92	0.52
2:C:1032:PHE:CD1	2:C:1052:MET:HG2	2.44	0.52
3:N:55:ASP:O	3:N:82:LYS:HA	2.10	0.52
3:D:416:ALA:HB3	8:D:2272:HOH:O	2.10	0.52
3:N:75:ARG:HB2	8:N:2407:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.44	0.52
3:N:888:GLU:HB3	8:N:9679:HOH:O	2.09	0.52
8:D:9635:HOH:O	5:F:101:GLU:HG3	2.10	0.52
3:N:850:LEU:CD2	3:N:881:LEU:HD13	2.40	0.52
2:M:554:ASP:OD2	2:M:556:ASN:HB2	2.10	0.52
1:K:187:GLY:HA2	8:K:2920:HOH:O	2.10	0.52
2:M:512:ARG:HD3	2:M:523:ILE:HD11	1.92	0.52
2:M:714:ASP:N	2:M:818:GLY:O	2.41	0.52
5:P:147:LEU:HD12	8:P:9554:HOH:O	2.10	0.52
3:N:638:LYS:HD3	8:N:9823:HOH:O	2.10	0.52
2:C:1016:ILE:HG23	3:D:526:PRO:HG2	1.92	0.51
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.45	0.51
5:P:94:LEU:HD22	5:P:95:THR:N	2.25	0.51
3:D:637:LEU:HD11	3:D:642:CYS:HA	1.91	0.51
2:C:528:GLU:HB3	8:C:2302:HOH:O	2.09	0.51
1:L:42:ARG:NH1	1:L:42:ARG:HG2	2.19	0.51
5:P:218:GLN:HA	5:P:221:ILE:HD12	1.91	0.51
2:C:69:LEU:C	2:C:70:GLU:HG3	2.30	0.51
2:M:536:PRO:CB	2:M:906:PHE:HB2	2.38	0.51
1:A:91:ASN:HB3	8:A:9436:HOH:O	2.09	0.51
1:L:178:ALA:HB3	1:L:198:ARG:HB2	1.90	0.51
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.23	0.51
3:N:1286:THR:HB	8:N:2263:HOH:O	2.08	0.51
2:M:596:TYR:HD1	8:M:2274:HOH:O	1.92	0.51
3:N:163:TYR:OH	3:N:394:LEU:HD21	2.10	0.51
2:M:211:LEU:O	2:M:211:LEU:HG	2.11	0.51
3:D:528:VAL:O	3:D:535:PHE:HA	2.10	0.51
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.10	0.51
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.40	0.51
1:L:91:ASN:H	1:L:94:LEU:HD13	1.76	0.51
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.10	0.51
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.91	0.51
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.25	0.51
3:D:844:ALA:O	3:D:867:ARG:HB3	2.10	0.51
3:N:953:ASP:OD2	3:N:1019:PRO:HD2	2.09	0.51
3:N:1020:LEU:HA	3:N:1023:MET:HE3	1.92	0.51
3:D:1304:LYS:HB2	8:D:9970:HOH:O	2.09	0.51
3:D:118:LEU:CA	3:D:123:LEU:HD13	2.40	0.51
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.35	0.51
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.40	0.51
3:D:411:THR:HG22	8:D:9544:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1353:GLN:NE2	3:N:1357:ARG:NE	2.55	0.51
8:D:2493:HOH:O	5:F:264:MET:HE2	2.10	0.51
3:N:711:LEU:HD21	8:N:2357:HOH:O	2.09	0.51
5:P:337:HIS:HA	8:P:9567:HOH:O	2.09	0.51
2:C:1084:SER:HA	8:C:2139:HOH:O	2.09	0.51
3:D:1270:ALA:HB3	8:D:9570:HOH:O	2.10	0.51
3:D:669:ASN:HD22	3:D:672:ALA:H	1.56	0.51
5:F:363:GLU:O	5:F:367:MET:HG2	2.10	0.51
2:C:358:ARG:HB3	2:C:371:LYS:O	2.10	0.51
5:F:316:SER:C	5:F:318:GLU:N	2.64	0.51
3:D:131:LYS:HB3	3:D:456:MET:HE3	1.91	0.51
3:D:826:PRO:O	3:D:836:VAL:HG13	2.10	0.51
3:D:1241:PHE:O	3:D:1243:THR:N	2.44	0.51
3:D:434:ARG:HB3	8:D:9567:HOH:O	2.09	0.51
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.45	0.51
1:A:156:HIS:CD2	1:A:158:ILE:HG12	2.46	0.51
5:F:276:ARG:HB3	8:F:9780:HOH:O	2.10	0.51
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.10	0.51
3:N:1191:PRO:O	3:N:1373:ARG:HD2	2.10	0.51
2:M:177:GLU:N	2:M:178:PRO:HD3	2.26	0.51
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.40	0.51
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.25	0.51
2:M:379:GLU:O	2:M:383:ARG:HB3	2.11	0.51
2:C:225:SER:HB2	2:C:229:MET:CE	2.41	0.51
2:C:1051:GLU:HB3	8:C:9565:HOH:O	2.10	0.51
5:P:402:ASN:HB2	8:P:9753:HOH:O	2.09	0.51
2:M:25:SER:HB2	2:M:335:THR:OG1	2.10	0.51
3:N:1381:VAL:O	3:N:1389:LEU:O	2.29	0.51
3:N:12:LEU:HD11	3:N:104:PHE:CE1	2.46	0.51
5:P:135:ILE:HG12	5:P:178:ARG:HD3	1.92	0.51
3:N:1068:LEU:HD23	3:N:1072:ILE:HD13	1.92	0.51
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.93	0.51
3:N:1209:LEU:HB3	3:N:1211:MET:HB2	1.93	0.51
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.75	0.51
2:M:266:ARG:HG3	2:M:266:ARG:NH1	2.24	0.51
3:N:1397:LYS:HZ2	3:N:1432:LYS:HB3	1.74	0.51
3:D:820:GLU:HG2	3:D:825:ALA:O	2.10	0.51
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.93	0.51
3:D:983:LEU:HA	3:D:987:GLU:OE2	2.09	0.51
3:N:1357:ARG:HG2	8:N:2014:HOH:O	2.09	0.51
5:F:287:THR:O	5:F:289:GLU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1441:GLN:HG3	3:N:1441:GLN:O	2.11	0.51
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.93	0.51
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.74	0.51
5:F:392:VAL:HG22	8:F:9801:HOH:O	2.10	0.51
2:M:1029:GLY:HA2	8:M:2100:HOH:O	2.10	0.51
3:D:164:GLY:HA2	8:D:9590:HOH:O	2.09	0.51
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.41	0.51
5:F:194:LEU:HD23	8:F:9810:HOH:O	2.10	0.51
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.11	0.51
2:C:939:ARG:N	2:C:939:ARG:HE	2.08	0.51
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.24	0.51
5:P:133:ALA:O	5:P:137:GLY:O	2.27	0.51
5:P:372:ARG:O	5:P:377:ASP:O	2.29	0.51
8:M:9948:HOH:O	5:P:354:LEU:HD11	2.10	0.51
4:E:63:TRP:O	4:E:67:GLU:HG3	2.10	0.51
2:C:620:LEU:HD23	8:C:2191:HOH:O	2.09	0.51
3:N:970:LYS:HD2	3:N:995:LEU:HD13	1.93	0.51
5:P:161:GLN:HA	5:P:164:LYS:HD2	1.91	0.51
3:N:779:ALA:O	3:N:931:LEU:HD22	2.11	0.51
3:N:36:THR:CG2	3:N:38:LYS:HG3	2.38	0.51
5:F:137:GLY:HA2	5:F:140:ARG:HH22	1.75	0.51
2:M:418:LEU:HD21	8:M:2225:HOH:O	2.10	0.51
2:C:1030:GLN:OE1	3:D:628:ARG:HB2	2.10	0.51
3:D:781:PRO:HB2	3:D:911:LEU:HD23	1.91	0.51
1:L:184:THR:O	1:L:192:LEU:HB2	2.11	0.51
2:C:610:ARG:HB2	8:C:9839:HOH:O	2.10	0.51
2:M:686:ASP:N	8:N:2331:HOH:O	2.43	0.51
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.11	0.51
3:D:894:LYS:O	3:D:898:GLU:HG3	2.09	0.51
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.93	0.51
2:M:612:VAL:HG21	8:M:9617:HOH:O	2.10	0.51
3:N:154:THR:HG22	3:N:156:GLU:HG2	1.92	0.51
3:N:1463:LYS:HG2	8:N:9565:HOH:O	2.09	0.51
3:D:1429:LEU:HD11	8:D:9681:HOH:O	2.10	0.51
2:M:616:GLU:OE1	2:M:616:GLU:HA	2.11	0.51
2:C:2:GLU:HB2	8:C:2326:HOH:O	2.09	0.51
3:D:1350:GLU:O	3:D:1354:LYS:HG2	2.11	0.51
5:P:367:MET:HA	5:P:370:LYS:HD3	1.93	0.51
5:F:368:VAL:HG13	5:F:388:ALA:O	2.11	0.51
1:L:120:VAL:HG23	8:L:4092:HOH:O	2.10	0.51
3:D:590:PRO:HD2	8:D:9687:HOH:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:12:LEU:HD11	3:N:104:PHE:HE1	1.75	0.51
3:N:162:ARG:HA	3:N:449:SER:HB3	1.92	0.51
2:C:435:TYR:C	2:C:437:ARG:N	2.64	0.51
2:M:396:ASP:OD1	2:M:402:SER:HB2	2.10	0.51
3:N:814:ALA:O	3:N:818:ARG:HG3	2.11	0.51
3:D:36:THR:C	3:D:38:LYS:H	2.13	0.51
1:K:17:GLY:HA3	8:K:1202:HOH:O	2.09	0.51
2:M:341:THR:HB	2:M:345:ARG:NH2	2.26	0.51
2:C:191:PHE:CE1	2:C:238:LEU:HD21	2.46	0.51
2:C:1054:THR:HG23	2:C:1059:ASP:CB	2.41	0.51
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.90	0.51
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.91	0.51
2:C:480:THR:HG22	2:C:482:GLU:N	2.23	0.51
1:A:143:ARG:HH21	1:A:158:ILE:HD12	1.76	0.51
3:D:496:LEU:HD12	8:D:9706:HOH:O	2.11	0.51
1:B:127:LEU:HD12	1:B:128:HIS:H	1.75	0.51
2:M:480:THR:HA	8:M:9505:HOH:O	2.10	0.51
3:N:14:SER:HB3	3:N:511:TRP:CE2	2.45	0.51
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.91	0.51
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.92	0.51
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.92	0.51
3:N:22:SER:OG	3:N:91:GLY:HA2	2.10	0.51
3:D:173:PRO:HG2	3:D:200:ASP:OD2	2.11	0.51
5:F:372:ARG:O	5:F:377:ASP:O	2.29	0.51
2:C:108:ILE:HD13	8:C:9686:HOH:O	2.09	0.51
3:N:96:ALA:H	3:N:551:ASN:ND2	2.09	0.51
3:N:96:ALA:N	3:N:551:ASN:ND2	2.59	0.51
5:P:372:ARG:NH2	8:P:9689:HOH:O	2.44	0.51
2:C:197:LEU:CD1	2:C:207:LEU:HD21	2.41	0.51
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.76	0.51
3:D:152:LEU:HD21	8:D:2093:HOH:O	2.11	0.51
2:C:250:ARG:NE	2:C:253:ALA:CB	2.73	0.51
2:C:648:ARG:HB2	8:C:9859:HOH:O	2.09	0.51
2:C:127:PHE:O	2:C:133:ASP:HA	2.11	0.51
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.93	0.51
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.31	0.51
2:M:244:PRO:HD2	2:M:245:GLY:N	2.18	0.51
8:L:4017:HOH:O	3:N:851:LEU:HD11	2.11	0.51
3:N:1144:LEU:HD22	8:N:2033:HOH:O	2.10	0.51
3:D:432:TYR:HA	3:D:448:GLU:O	2.11	0.51
3:D:1215:VAL:HB	8:D:9589:HOH:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:707:ARG:CZ	2:M:824:ARG:HH12	2.24	0.51
2:M:178:PRO:HB3	8:M:9974:HOH:O	2.10	0.51
3:N:510:GLU:O	3:N:513:ILE:HD12	2.11	0.51
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.46	0.51
5:P:306:GLU:O	5:P:310:ILE:HG13	2.10	0.51
3:N:95:LEU:HD11	3:N:517:VAL:HG23	1.92	0.51
2:C:110:GLU:H	2:C:368:THR:HG21	1.76	0.51
2:C:1083:GLU:O	2:C:1087:VAL:HG23	2.10	0.51
3:N:107:ASP:HB2	8:N:9484:HOH:O	2.09	0.51
3:N:459:GLU:HB2	8:N:9942:HOH:O	2.11	0.51
3:D:1422:MET:CE	3:D:1427:SER:HA	2.41	0.51
3:N:47:GLU:HA	3:N:51:GLY:O	2.10	0.51
2:M:266:ARG:HA	8:M:9486:HOH:O	2.10	0.51
3:N:1274:ILE:CG1	3:N:1334:GLN:HE21	2.22	0.51
2:M:599:GLU:HG3	2:M:600:ASP:OD2	2.11	0.51
2:C:686:ASP:O	3:D:740:PHE:HB2	2.11	0.51
3:D:633:VAL:C	3:D:635:PRO:HD3	2.31	0.51
2:C:848:VAL:HB	3:D:740:PHE:O	2.10	0.51
5:P:82:ARG:HB3	8:P:9558:HOH:O	2.09	0.51
3:N:1242:HIS:CE1	3:N:1266:ARG:HD2	2.45	0.51
2:C:689:VAL:HB	2:C:870:ILE:HD12	1.93	0.51
3:N:404:GLU:HB2	3:N:414:ARG:NH2	2.26	0.51
4:O:54:LEU:O	4:O:54:LEU:HD23	2.10	0.51
2:M:252:LYS:HG2	2:M:296:GLY:HA2	1.93	0.51
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.75	0.51
2:M:707:ARG:CD	2:M:824:ARG:HH11	2.24	0.51
1:B:108:GLU:HB3	1:B:128:HIS:HE1	1.76	0.51
1:B:19:GLU:HG3	1:B:201:THR:O	2.11	0.51
2:M:604:ALA:HB3	2:M:612:VAL:O	2.10	0.51
2:M:787:ASP:HA	8:M:2208:HOH:O	2.10	0.51
3:D:1087:ARG:C	3:D:1089:ALA:N	2.64	0.51
2:M:552:HIS:CE1	2:M:886:LEU:HD13	2.45	0.51
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.93	0.51
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.91	0.51
2:C:290:LEU:HB2	8:C:9836:HOH:O	2.10	0.51
3:N:77:GLY:O	3:N:78:VAL:HG23	2.11	0.51
2:C:832:LYS:HD2	8:C:2228:HOH:O	2.11	0.51
2:C:188:LYS:C	2:C:188:LYS:HE2	2.31	0.51
3:N:754:PHE:HA	4:O:24:ALA:HB1	1.93	0.51
3:D:650:LEU:HD12	3:D:657:LEU:HD23	1.93	0.51
5:P:148:LYS:O	5:P:148:LYS:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:416:ALA:HB2	8:D:9825:HOH:O	2.10	0.51
2:M:751:PRO:HA	2:M:792:VAL:HG12	1.93	0.51
2:C:4:LYS:HA	8:C:9926:HOH:O	2.11	0.51
3:N:466:LYS:CG	3:N:510:GLU:HG2	2.41	0.51
3:N:850:LEU:HD22	3:N:884:ARG:HH22	1.75	0.51
2:M:383:ARG:CZ	8:M:9872:HOH:O	2.58	0.51
2:M:640:ARG:HB3	2:M:640:ARG:HH11	1.74	0.51
5:F:254:GLN:HB3	8:F:9518:HOH:O	2.09	0.51
1:K:30:ARG:HA	8:K:1905:HOH:O	2.10	0.51
3:D:1127:GLU:HB2	8:D:2519:HOH:O	2.11	0.51
5:F:316:SER:C	5:F:318:GLU:H	2.13	0.51
1:A:177:VAL:HG12	8:A:9451:HOH:O	2.09	0.51
2:C:461:VAL:CG1	2:C:465:GLY:HA2	2.31	0.51
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.92	0.51
3:D:907:GLU:HG3	8:D:2030:HOH:O	2.10	0.51
3:N:81:THR:HB	3:N:85:VAL:HG22	1.93	0.51
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.39	0.51
2:M:34:VAL:HG22	8:M:2159:HOH:O	2.10	0.51
1:A:127:LEU:HD12	1:A:128:HIS:N	2.26	0.51
1:K:173:PRO:O	1:K:201:THR:HG23	2.11	0.51
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.26	0.51
2:M:285:LEU:HD13	2:M:302:VAL:HG23	1.93	0.51
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.93	0.51
2:M:64:LEU:HB2	2:M:359:MET:HE3	1.92	0.51
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.41	0.51
2:M:906:PHE:CB	3:N:1067:VAL:HG22	2.41	0.51
3:N:768:ASN:HB3	8:N:2357:HOH:O	2.10	0.51
3:N:850:LEU:HD22	3:N:884:ARG:NH2	2.26	0.51
3:N:519:VAL:HG13	3:N:544:TYR:CZ	2.46	0.51
3:N:873:LEU:HD11	8:N:2008:HOH:O	2.10	0.51
3:N:17:LYS:HG2	8:N:9686:HOH:O	2.10	0.51
2:M:334:ARG:HD3	2:M:339:LEU:HD21	1.94	0.50
3:N:181:ASP:HB2	8:N:2389:HOH:O	2.11	0.50
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.17	0.50
2:C:1115:LEU:HD23	3:D:85:VAL:CG1	2.40	0.50
4:E:48:MET:HG2	8:E:9382:HOH:O	2.11	0.50
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.41	0.50
4:O:42:PRO:HD3	8:O:3641:HOH:O	2.11	0.50
2:C:70:GLU:OE1	2:C:97:ARG:HD3	2.11	0.50
2:C:170:PRO:HG2	2:C:258:TYR:HD2	1.76	0.50
2:M:264:PRO:HG3	8:M:9995:HOH:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:164:PRO:HA	2:M:266:ARG:HH12	1.76	0.50
3:N:820:GLU:HB3	3:N:836:VAL:HG21	1.93	0.50
2:M:1092:LEU:HD23	2:M:1099:VAL:CG1	2.37	0.50
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.41	0.50
3:D:868:TYR:HE1	3:D:869:MET:SD	2.33	0.50
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.45	0.50
3:D:34:TYR:CD1	3:D:35:ARG:N	2.79	0.50
3:D:659:LYS:HD3	3:D:659:LYS:O	2.11	0.50
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.93	0.50
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.46	0.50
2:M:1040:LEU:CD2	2:M:1048:THR:HG22	2.41	0.50
1:A:77:GLU:HG3	8:A:9496:HOH:O	2.10	0.50
2:C:419:THR:HG22	8:C:2202:HOH:O	2.11	0.50
5:P:412:GLU:HA	5:P:412:GLU:OE1	2.10	0.50
3:N:1074:SER:HA	8:N:9822:HOH:O	2.10	0.50
3:N:1304:LYS:N	3:N:1304:LYS:HD3	2.16	0.50
2:C:98:LEU:O	2:C:109:LYS:HG3	2.11	0.50
2:M:254:VAL:HG22	8:M:2121:HOH:O	2.10	0.50
1:L:132:LEU:CD2	1:L:138:LEU:HD22	2.40	0.50
3:N:937:TYR:HA	3:N:940:THR:OG1	2.12	0.50
1:L:180:GLN:OE1	1:L:198:ARG:NH2	2.33	0.50
2:M:355:VAL:HG13	2:M:356:ARG:N	2.26	0.50
3:N:1118:ILE:HD12	3:N:1346:ARG:HE	1.76	0.50
2:C:798:GLY:H	2:C:827:VAL:HG11	1.75	0.50
3:N:1491:THR:HG21	4:O:89:MET:SD	2.51	0.50
2:M:946:ARG:HD2	2:M:984:GLU:HB2	1.94	0.50
3:N:1249:ALA:HB3	8:N:2022:HOH:O	2.10	0.50
2:C:232:GLU:HG3	8:C:9807:HOH:O	2.10	0.50
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.76	0.50
1:K:72:LYS:HA	8:M:9524:HOH:O	2.11	0.50
3:D:671:LYS:HG2	8:F:9767:HOH:O	2.12	0.50
3:N:127:LEU:CD1	3:N:457:GLY:H	2.24	0.50
5:P:372:ARG:NH2	8:P:9523:HOH:O	2.44	0.50
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.41	0.50
2:M:1003:ASP:O	2:M:1005:MET:N	2.44	0.50
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.31	0.50
3:N:85:VAL:HG12	8:N:9574:HOH:O	2.12	0.50
2:C:615:TYR:HB2	2:C:617:ASP:OD1	2.11	0.50
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.42	0.50
2:C:162:ILE:O	2:C:164:PRO:HD2	2.11	0.50
5:F:88:ILE:HG21	5:F:193:ARG:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:10:ARG:NH1	8:M:9832:HOH:O	2.43	0.50
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.14	0.50
3:N:1148:VAL:HG12	3:N:1189:ARG:HG3	1.92	0.50
2:M:472:ARG:NH2	8:M:9697:HOH:O	2.43	0.50
3:N:1283:ILE:C	3:N:1284:GLU:HG2	2.31	0.50
5:F:339:PRO:HB3	5:F:343:ASP:HB2	1.93	0.50
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	1.92	0.50
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.93	0.50
3:D:864:VAL:HG12	3:D:865:THR:N	2.26	0.50
3:D:169:TYR:N	3:D:170:PRO:HD3	2.26	0.50
3:D:513:ILE:HG13	8:D:9594:HOH:O	2.11	0.50
2:M:474:VAL:HG13	2:M:530:GLU:O	2.11	0.50
3:D:39:PRO:HB3	3:D:45:PHE:C	2.31	0.50
2:M:257:VAL:HG22	8:M:9999:HOH:O	2.10	0.50
3:N:214:GLU:HG2	3:N:215:TYR:CE1	2.46	0.50
2:M:393:GLN:NE2	2:M:409:ARG:NH1	2.60	0.50
2:C:158:TYR:O	2:C:310:LEU:HD11	2.12	0.50
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.75	0.50
5:F:133:ALA:O	5:F:137:GLY:O	2.29	0.50
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.93	0.50
3:D:704:ARG:HD2	3:D:705:ALA:H	1.76	0.50
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.93	0.50
3:D:55:ASP:O	3:D:82:LYS:HA	2.11	0.50
5:F:262:VAL:O	5:F:266:GLU:HG3	2.12	0.50
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.77	0.50
2:C:582:GLY:N	2:C:584:GLU:OE2	2.44	0.50
5:F:225:GLU:HG2	5:F:226:LYS:HZ2	1.77	0.50
3:D:919:PHE:C	3:D:919:PHE:HD2	2.15	0.50
1:K:2:LEU:HD22	8:K:3063:HOH:O	2.12	0.50
3:D:113:GLY:HA3	3:D:124:GLU:OE2	2.11	0.50
2:C:1015:LEU:N	5:F:333:ILE:O	2.44	0.50
1:L:108:GLU:HB2	8:L:2022:HOH:O	2.10	0.50
3:D:119:SER:HB2	3:D:123:LEU:CB	2.41	0.50
3:D:1242:HIS:CE1	3:D:1266:ARG:HD3	2.47	0.50
2:M:398:THR:HA	2:M:633:GLN:HG3	1.93	0.50
3:D:36:THR:O	3:D:38:LYS:N	2.44	0.50
2:M:717:LEU:HD11	2:M:763:GLY:O	2.10	0.50
2:C:59:LYS:HE3	8:C:9798:HOH:O	2.09	0.50
3:D:902:LEU:HD23	8:D:2567:HOH:O	2.10	0.50
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.41	0.50
3:D:788:GLY:O	3:D:792:ILE:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:28:LYS:HD2	3:N:41:ARG:HD2	1.94	0.50
2:M:503:LEU:HD21	2:M:508:ILE:HD13	1.94	0.50
3:D:404:GLU:HB3	3:D:414:ARG:HD3	1.92	0.50
1:L:58:ILE:HG21	1:L:68:ILE:HD11	1.92	0.50
2:M:242:LEU:HD12	8:M:9620:HOH:O	2.11	0.50
2:C:1067:TYR:HE2	5:F:345:ALA:HB2	1.77	0.50
3:D:1379:VAL:HG13	3:D:1395:LEU:HB2	1.93	0.50
5:P:282:LEU:HB3	5:P:284:ARG:HB2	1.94	0.50
3:D:1161:GLU:HG2	3:D:1164:ARG:HB2	1.93	0.50
5:P:356:LYS:HD3	8:P:9751:HOH:O	2.10	0.50
2:C:678:PRO:HB2	3:D:942:SER:OG	2.11	0.50
3:D:68:PHE:N	3:D:68:PHE:CD2	2.80	0.50
5:F:373:LYS:HE2	8:F:9560:HOH:O	2.12	0.50
3:N:495:ARG:HG2	3:N:495:ARG:O	2.11	0.50
3:N:45:PHE:HD1	3:N:86:ARG:NH2	2.03	0.50
3:N:169:TYR:O	3:N:169:TYR:CG	2.65	0.50
3:N:425:GLY:HA3	5:P:135:ILE:CD1	2.31	0.50
3:D:858:VAL:HG11	3:D:864:VAL:HG21	1.93	0.50
1:B:133:GLU:CG	1:B:134:GLU:H	2.18	0.50
1:B:132:LEU:HB3	8:B:9645:HOH:O	2.10	0.50
2:M:443:THR:HG21	2:M:450:GLY:H	1.76	0.50
2:C:288:ARG:CA	2:C:288:ARG:NE	2.75	0.50
2:C:516:ARG:HD2	3:D:1068:LEU:HD22	1.94	0.50
5:P:271:LEU:HD23	5:P:295:MET:HG3	1.93	0.50
3:D:477:LEU:HD21	3:D:495:ARG:HH11	1.77	0.50
2:M:897:LEU:HB3	2:M:899:GLN:HG2	1.94	0.50
3:N:1353:GLN:HE21	3:N:1357:ARG:HE	1.54	0.50
3:D:724:GLN:NE2	8:D:9936:HOH:O	2.44	0.50
1:A:156:HIS:CD2	1:A:157:GLY:N	2.79	0.50
2:M:493:ARG:HD3	8:M:9690:HOH:O	2.11	0.50
3:D:47:GLU:OE1	3:D:59:ALA:HB2	2.11	0.50
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.92	0.50
5:F:151:LEU:HB2	5:F:155:THR:HB	1.93	0.50
3:D:488:ARG:HB3	8:D:2340:HOH:O	2.10	0.50
1:A:47:SER:CB	1:A:217:ILE:HD13	2.42	0.50
2:C:374:ASN:O	2:C:377:PRO:HD2	2.12	0.50
3:N:166:GLN:HG3	3:N:168:THR:OG1	2.12	0.50
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	2.11	0.50
2:C:432:ARG:HD3	2:C:432:ARG:H	1.76	0.50
3:N:826:PRO:O	3:N:836:VAL:HG13	2.12	0.50
1:K:101:LEU:HB2	1:K:114:PHE:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:129:GLU:CB	5:P:142:ARG:HH22	2.22	0.50
5:F:141:VAL:HG13	5:F:142:ARG:N	2.25	0.50
3:N:1376:MET:HE3	3:N:1421:LEU:HD13	1.93	0.50
2:C:184:MET:SD	2:C:196:LEU:HD13	2.52	0.50
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.45	0.50
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.94	0.50
3:D:704:ARG:CD	3:D:705:ALA:H	2.25	0.50
3:D:410:SER:CB	3:D:414:ARG:HH21	2.25	0.50
1:B:17:GLY:HA2	8:B:9562:HOH:O	2.11	0.50
5:F:346:THR:CG2	5:F:422:LEU:HB3	2.40	0.50
3:N:207:PHE:HB2	8:N:9756:HOH:O	2.11	0.50
3:N:452:ILE:HG21	8:N:9771:HOH:O	2.12	0.50
3:N:1090:ASP:C	3:N:1092:GLY:N	2.62	0.50
3:D:569:ASN:C	3:D:569:ASN:HD22	2.15	0.50
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.93	0.50
3:D:139:GLY:CA	3:D:452:ILE:HD12	2.38	0.50
3:D:813:LEU:HD12	3:D:814:ALA:N	2.27	0.50
2:M:95:TYR:HD2	2:M:114:PHE:HB3	1.72	0.50
2:M:98:LEU:O	2:M:109:LYS:HG3	2.12	0.50
8:D:9740:HOH:O	5:F:136:LEU:HD21	2.12	0.50
2:C:53:PRO:HG2	8:C:9708:HOH:O	2.10	0.50
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.12	0.50
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.45	0.50
3:N:54:LYS:HD3	3:N:57:GLU:CB	2.40	0.50
2:C:181:VAL:HG12	2:C:182:VAL:N	2.26	0.50
3:N:75:ARG:HD3	8:N:9538:HOH:O	2.11	0.50
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.46	0.50
3:D:920:LEU:HD11	8:D:9608:HOH:O	2.12	0.50
2:M:839:LEU:HD21	2:M:849:VAL:HG22	1.93	0.50
2:M:674:VAL:HB	2:M:869:VAL:HG13	1.93	0.50
5:P:74:LYS:HD3	8:P:9694:HOH:O	2.12	0.50
3:N:118:LEU:O	3:N:120:ALA:N	2.44	0.50
1:A:195:LEU:HD12	1:A:196:THR:H	1.76	0.50
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.12	0.50
3:D:728:LEU:HD12	3:D:729:HIS:H	1.77	0.50
3:N:1304:LYS:H	3:N:1304:LYS:CD	2.16	0.50
2:C:444:PRO:HB2	2:C:448:ASN:O	2.12	0.50
3:D:1472:ILE:HA	8:D:9619:HOH:O	2.10	0.50
2:M:404:LEU:O	2:M:408:ARG:HG2	2.11	0.50
3:N:601:ARG:HE	3:N:605:ASP:HB3	1.77	0.50
3:D:1211:MET:HG2	3:D:1213:ARG:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1043:TYR:CE2	3:D:710:ARG:HD3	2.47	0.50
5:P:295:MET:HB3	5:P:299:TRP:CD1	2.47	0.50
5:F:129:GLU:HB3	5:F:142:ARG:NH2	2.27	0.50
3:N:1236:LEU:HD22	3:N:1355:VAL:HG12	1.93	0.50
2:M:599:GLU:HG3	2:M:600:ASP:H	1.77	0.50
2:C:472:ARG:HD2	2:C:480:THR:O	2.11	0.50
2:C:1021:LEU:HD22	5:F:331:ASP:O	2.12	0.50
1:L:146:ARG:HD2	8:L:1866:HOH:O	2.11	0.50
3:N:1107:VAL:HG22	3:N:1200:VAL:HG12	1.93	0.50
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.12	0.50
3:N:819:GLY:HA3	8:N:9847:HOH:O	2.11	0.50
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.94	0.50
3:D:986:ARG:NH1	8:D:2314:HOH:O	2.44	0.50
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	1.92	0.50
2:C:178:PRO:HA	8:C:9721:HOH:O	2.12	0.50
3:N:1350:GLU:HB3	8:N:9495:HOH:O	2.11	0.50
1:L:116:PRO:HG3	8:L:726:HOH:O	2.10	0.50
1:L:112:ARG:HB2	8:L:5359:HOH:O	2.10	0.50
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.47	0.50
3:D:376:GLU:HA	3:D:384:VAL:HA	1.94	0.50
3:N:1239:ARG:NH1	8:N:9974:HOH:O	2.41	0.50
3:N:123:LEU:CD2	3:N:152:LEU:HD22	2.37	0.49
3:N:465:LEU:CD2	3:N:468:LEU:HD11	2.34	0.49
2:C:971:LYS:HE3	8:C:9513:HOH:O	2.11	0.49
3:D:1327:ARG:NH2	8:D:2130:HOH:O	2.45	0.49
3:D:191:LEU:CB	3:D:195:VAL:HG21	2.29	0.49
1:L:196:THR:HG23	1:L:196:THR:O	2.11	0.49
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.42	0.49
1:K:86:VAL:HG11	8:K:5289:HOH:O	2.11	0.49
3:N:1201:CYS:SG	3:N:1202:GLN:N	2.85	0.49
3:D:1459:LEU:HD11	3:D:1468:LEU:CD1	2.41	0.49
5:F:94:LEU:HD12	5:F:97:GLU:HB2	1.94	0.49
5:F:300:ASP:CG	5:F:301:ALA:N	2.65	0.49
5:P:396:ARG:O	5:P:399:GLN:HB2	2.12	0.49
5:P:214:GLN:O	5:P:217:ASN:HB2	2.11	0.49
3:D:1207:TYR:O	3:D:1213:ARG:O	2.30	0.49
3:D:710:ARG:CG	3:D:711:LEU:HD23	2.37	0.49
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.93	0.49
3:D:470:LEU:HB2	3:D:503:LEU:HD11	1.93	0.49
3:N:1236:LEU:HD21	3:N:1356:TYR:HD2	1.76	0.49
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:82:ARG:HD2	8:P:9475:HOH:O	2.12	0.49
5:P:205:ARG:CG	5:P:251:ILE:HD13	2.41	0.49
3:D:47:GLU:HA	3:D:51:GLY:O	2.11	0.49
1:L:123:MET:O	1:L:125:PRO:HD3	2.11	0.49
2:M:504:GLU:CB	2:M:507:ARG:HD2	2.41	0.49
3:N:1377:LYS:HE2	3:N:1378:TYR:CE1	2.47	0.49
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.47	0.49
2:C:1035:MET:HG3	2:C:1038:TRP:CZ3	2.47	0.49
2:C:1038:TRP:HZ2	3:D:1096:ARG:HD2	1.76	0.49
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.94	0.49
2:C:739:GLU:HA	8:C:2058:HOH:O	2.11	0.49
3:D:194:GLY:H	3:D:206:ARG:HA	1.77	0.49
1:L:91:ASN:OD1	1:L:93:SER:HB2	2.13	0.49
3:N:107:ASP:HA	8:N:2416:HOH:O	2.11	0.49
5:P:416:ARG:NH1	5:P:419:ARG:HB3	2.27	0.49
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.94	0.49
4:E:40:LEU:C	4:E:45:ARG:HG3	2.33	0.49
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.42	0.49
3:D:141:ILE:CD1	3:D:449:SER:HA	2.38	0.49
5:F:94:LEU:CD1	5:F:96:LEU:H	2.19	0.49
3:N:890:VAL:HG23	3:N:890:VAL:O	2.12	0.49
3:N:8:VAL:O	3:N:1434:TRP:HH2	1.95	0.49
2:M:782:ALA:HB2	8:M:2224:HOH:O	2.11	0.49
5:P:163:LEU:CD2	5:P:174:LEU:HG	2.36	0.49
2:M:697:ARG:O	2:M:699:PHE:N	2.44	0.49
1:B:196:THR:O	1:B:196:THR:HG23	2.12	0.49
2:M:1031:ARG:HG2	3:N:621:LYS:O	2.12	0.49
3:D:651:GLU:OE1	3:D:651:GLU:HA	2.12	0.49
2:C:780:GLU:HG3	2:C:781:LYS:H	1.77	0.49
2:C:41:ASN:H	2:C:41:ASN:HD22	1.59	0.49
3:N:1280:VAL:HG13	3:N:1316:GLY:O	2.11	0.49
3:D:153:LEU:HD12	3:D:158:TYR:HB2	1.94	0.49
5:F:303:ARG:HA	8:F:9545:HOH:O	2.12	0.49
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.46	0.49
2:C:757:GLY:HA2	2:C:789:SER:HB3	1.94	0.49
3:N:140:ALA:HA	8:N:9588:HOH:O	2.12	0.49
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.94	0.49
2:C:885:ILE:HG23	3:D:949:ILE:O	2.10	0.49
3:D:671:LYS:HE3	5:F:421:PHE:O	2.12	0.49
3:N:97:THR:CG2	3:N:571:LYS:HD3	2.42	0.49
3:D:683:ILE:HG22	3:D:687:VAL:CG2	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:565:ILE:HD12	3:D:565:ILE:H	1.76	0.49
2:C:710:ILE:CD1	2:C:790:LEU:HB2	2.36	0.49
2:C:136:ILE:HG22	2:C:336:VAL:HG22	1.93	0.49
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.94	0.49
2:M:64:LEU:HD22	2:M:359:MET:CG	2.37	0.49
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.92	0.49
1:L:137:ARG:HH12	1:L:139:ASN:HB2	1.75	0.49
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.13	0.49
2:C:704:HIS:HB3	2:C:831:ARG:NH1	2.27	0.49
2:M:683:ASN:ND2	2:M:872:ASN:HB2	2.27	0.49
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.40	0.49
2:C:1042:ALA:HB2	3:D:1223:ILE:HG22	1.94	0.49
3:D:1092:GLY:O	3:D:1096:ARG:HD3	2.11	0.49
2:M:564:MET:SD	2:M:846:LYS:HD2	2.53	0.49
3:N:1286:THR:CG2	3:N:1287:GLU:H	2.24	0.49
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.93	0.49
2:M:283:ILE:HA	8:M:9830:HOH:O	2.12	0.49
2:M:496:ILE:O	2:M:515:ALA:HB1	2.12	0.49
5:P:276:ARG:HH11	5:P:276:ARG:HG3	1.78	0.49
3:D:65:ARG:HD3	5:F:374:GLY:O	2.12	0.49
1:B:91:ASN:HB2	1:B:92:PRO:HD2	1.94	0.49
2:C:1058:ASP:HB2	3:D:621:LYS:HE3	1.94	0.49
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.42	0.49
2:M:375:SER:H	5:P:279:GLN:HE22	1.61	0.49
4:O:51:LEU:CG	4:O:53:GLY:H	2.17	0.49
3:N:559:ALA:HB3	8:N:9490:HOH:O	2.12	0.49
3:D:1389:LEU:H	3:D:1389:LEU:CD2	2.12	0.49
3:D:806:PHE:O	3:D:806:PHE:CD1	2.65	0.49
3:D:829:VAL:H	3:D:835:SER:HB2	1.78	0.49
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.26	0.49
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.95	0.49
1:K:169:ALA:HB1	1:K:171:PHE:CZ	2.47	0.49
2:M:728:HIS:CE1	2:M:775:ARG:NH1	2.81	0.49
2:M:290:LEU:H	2:M:290:LEU:CD2	2.13	0.49
3:N:36:THR:C	3:N:38:LYS:H	2.16	0.49
3:D:495:ARG:HD2	8:D:2090:HOH:O	2.12	0.49
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.11	0.49
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.21	0.49
3:D:28:LYS:HD3	3:D:41:ARG:HD2	1.93	0.49
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.11	0.49
5:P:156:VAL:HG12	8:P:9471:HOH:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1357:ARG:HD2	8:N:9692:HOH:O	2.12	0.49
2:C:1005:MET:CE	3:D:645:PRO:HG2	2.42	0.49
2:C:1007:ALA:O	2:C:1027:PHE:HD2	1.96	0.49
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.93	0.49
3:D:418:GLY:HA3	8:D:9466:HOH:O	2.12	0.49
2:M:523:ILE:HD13	8:M:2099:HOH:O	2.12	0.49
3:D:1164:ARG:NH2	3:D:1170:ASP:OD1	2.45	0.49
3:D:939:PHE:O	3:D:942:SER:HB3	2.12	0.49
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.94	0.49
3:D:1284:GLU:HB3	8:D:2537:HOH:O	2.10	0.49
2:M:650:ARG:HB2	8:M:9572:HOH:O	2.12	0.49
5:F:361:LEU:CD2	5:F:404:ALA:HB1	2.43	0.49
3:D:165:LYS:HD2	8:D:2157:HOH:O	2.12	0.49
3:D:168:THR:HB	3:D:393:ILE:CG1	2.42	0.49
1:K:183:ASP:OD1	2:M:938:LYS:HE3	2.13	0.49
3:D:572:ARG:HE	5:F:80:PRO:HG3	1.77	0.49
3:D:573:MET:SD	5:F:210:LEU:HB3	2.52	0.49
2:C:944:LEU:HD22	2:C:962:GLN:OE1	2.13	0.49
2:M:204:GLN:OE1	2:M:222:MET:HB3	2.12	0.49
3:N:1462:LEU:HD21	3:N:1474:ALA:HB2	1.93	0.49
2:M:1008:ARG:HH12	3:N:624:ASP:CG	2.15	0.49
1:K:61:VAL:HG11	1:K:75:VAL:HG21	1.93	0.49
3:N:438:ASP:OD2	3:N:440:VAL:HB	2.12	0.49
2:C:501:THR:O	2:C:503:LEU:HD23	2.13	0.49
3:D:1089:ALA:HA	8:D:2088:HOH:O	2.11	0.49
3:N:921:ARG:HG2	8:N:9891:HOH:O	2.11	0.49
3:D:1280:VAL:HG13	3:D:1316:GLY:O	2.13	0.49
1:K:33:GLY:O	1:K:195:LEU:HD22	2.13	0.49
3:N:481:MET:HE3	3:N:493:ARG:NH2	2.10	0.49
5:P:94:LEU:HB3	5:P:98:GLU:HG3	1.95	0.49
2:C:141:HIS:O	2:C:332:ARG:N	2.44	0.49
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.27	0.49
2:C:109:LYS:HE3	8:C:9787:HOH:O	2.12	0.49
2:C:276:LYS:O	2:C:280:LYS:HG3	2.12	0.49
3:D:1194:CYS:HB3	3:D:1373:ARG:CZ	2.42	0.49
3:D:1389:LEU:HG	8:D:9868:HOH:O	2.12	0.49
5:F:148:LYS:HA	8:F:9536:HOH:O	2.11	0.49
3:N:1116:ASN:CG	3:N:1193:THR:HB	2.32	0.49
3:D:473:LEU:HD11	3:D:495:ARG:NH2	2.27	0.49
1:L:139:ASN:HB3	8:L:1052:HOH:O	2.11	0.49
3:N:177:ALA:CB	3:N:199:LEU:HD13	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.93	0.49
2:C:73:LEU:CD2	2:C:94:LEU:HB2	2.42	0.49
3:D:445:ARG:HH11	3:D:445:ARG:HG2	1.77	0.49
3:N:1031:ASN:HB3	3:N:1034:GLN:CG	2.43	0.49
3:N:212:ARG:HD3	3:N:394:LEU:HD13	1.95	0.49
3:N:764:LEU:HD23	3:N:767:HIS:CD2	2.47	0.49
1:L:176:ARG:HH22	3:N:884:ARG:NE	2.10	0.49
3:D:669:ASN:O	3:D:672:ALA:HB3	2.12	0.49
2:M:413:LEU:H	2:M:413:LEU:HD12	1.77	0.49
2:M:1102:LEU:HD22	3:N:7:LYS:HD2	1.95	0.49
3:D:543:LEU:O	3:D:546:ARG:HB2	2.12	0.49
2:C:1083:GLU:OE2	3:D:87:ARG:HD2	2.13	0.49
3:N:162:ARG:HB2	8:N:9771:HOH:O	2.11	0.49
2:C:209:ARG:HB3	8:C:9869:HOH:O	2.12	0.49
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.48	0.49
2:M:288:ARG:HB3	8:M:9987:HOH:O	2.12	0.49
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.94	0.49
2:C:139:GLN:HG3	2:C:411:SER:O	2.11	0.49
4:O:43:GLU:HG2	8:O:5067:HOH:O	2.11	0.49
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.48	0.49
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.20	0.49
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.30	0.49
2:C:721:ARG:HE	2:C:783:ARG:NH2	2.10	0.49
2:M:774:LEU:HD13	2:M:775:ARG:N	2.27	0.49
2:M:102:HIS:NE2	2:M:365:ASP:OD2	2.45	0.49
2:M:759:THR:HB	2:M:785:VAL:HG11	1.93	0.49
3:D:1443:THR:HG23	8:D:2144:HOH:O	2.13	0.49
4:O:54:LEU:HD21	4:O:63:TRP:HE1	1.77	0.49
2:M:724:ARG:O	2:M:734:LEU:HD11	2.13	0.49
2:M:734:LEU:HD13	2:M:737:LEU:HD13	1.94	0.49
2:C:671:ASN:ND2	2:C:671:ASN:N	2.60	0.49
2:M:719:PRO:HB3	2:M:820:ARG:CD	2.43	0.49
2:M:767:PRO:HA	8:M:9989:HOH:O	2.11	0.49
1:A:187:GLY:HA2	8:A:9484:HOH:O	2.13	0.49
3:N:1118:ILE:HD12	3:N:1346:ARG:NE	2.28	0.49
2:M:585:GLU:HG3	2:M:665:PHE:HE2	1.77	0.49
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.77	0.49
2:C:496:ILE:O	2:C:515:ALA:HB1	2.13	0.49
3:D:964:LEU:HD22	3:D:1058:ARG:HH11	1.77	0.49
3:N:626:SER:C	3:N:652:LEU:HD11	2.32	0.49
1:K:159:LYS:HD3	8:K:4474:HOH:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:826:TYR:CD1	2:C:826:TYR:N	2.81	0.49
2:C:945:ARG:HB3	8:D:2414:HOH:O	2.12	0.49
3:N:1456:LYS:HD3	8:N:9815:HOH:O	2.13	0.49
5:F:370:LYS:HG2	5:F:371:LEU:N	2.28	0.49
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.81	0.49
2:M:435:TYR:C	2:M:437:ARG:H	2.15	0.49
3:N:477:LEU:CB	3:N:496:LEU:HD12	2.42	0.49
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.23	0.49
3:N:1448:THR:HG21	8:N:9484:HOH:O	2.12	0.49
3:D:1033:GLN:HG3	3:D:1036:ARG:NH1	2.28	0.49
3:D:131:LYS:HG2	3:D:568:ARG:CD	2.43	0.49
5:F:196:VAL:HG22	5:F:213:ILE:HG21	1.94	0.49
5:F:134:LYS:HG3	5:F:178:ARG:NH2	2.28	0.49
2:M:16:PRO:HB3	2:M:460:ARG:HD2	1.93	0.49
2:C:250:ARG:HE	2:C:253:ALA:CB	2.26	0.49
2:C:260:LEU:CB	2:C:291:ALA:HB1	2.42	0.49
3:N:601:ARG:CD	3:N:613:ARG:HH21	2.26	0.49
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.95	0.49
3:N:36:THR:O	3:N:38:LYS:N	2.46	0.49
5:F:137:GLY:HA3	5:F:140:ARG:NH1	2.25	0.49
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.12	0.49
2:C:876:VAL:N	2:C:877:PRO:HD2	2.27	0.49
3:D:40:GLU:N	8:D:9464:HOH:O	2.45	0.49
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.48	0.49
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.48	0.49
2:M:737:LEU:HA	2:M:743:VAL:HA	1.94	0.49
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.95	0.49
2:C:247:PRO:HB2	8:C:9690:HOH:O	2.12	0.49
3:D:893:GLU:O	3:D:896:ALA:HB3	2.12	0.49
2:M:607:ASP:HB3	2:M:609:ASN:H	1.78	0.49
3:D:1149:LEU:HG	3:D:1166:LEU:CD2	2.42	0.49
2:C:738:ASP:O	2:C:739:GLU:C	2.50	0.49
1:B:184:THR:O	1:B:192:LEU:HB2	2.13	0.49
5:F:162:LYS:NZ	8:F:9643:HOH:O	2.46	0.49
5:F:325:LYS:NZ	8:F:9539:HOH:O	2.46	0.49
2:C:154:ARG:O	2:C:156:GLY:N	2.46	0.49
2:M:437:ARG:HA	2:M:467:ILE:HG21	1.94	0.49
2:M:110:GLU:HG2	2:M:369:PRO:CG	2.32	0.49
3:D:701:LEU:HD21	3:D:763:MET:CE	2.43	0.49
3:N:1020:LEU:HD21	3:N:1038:LEU:HD22	1.95	0.49
2:M:143:SER:HB2	2:M:276:LYS:HZ3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.77	0.49
3:D:1390:LEU:N	8:D:9868:HOH:O	2.45	0.49
1:A:86:VAL:HG21	1:A:202:ASP:O	2.13	0.49
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.78	0.49
3:N:569:ASN:O	3:N:573:MET:HG3	2.13	0.49
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.28	0.49
2:C:1005:MET:HE2	3:D:629:SER:HB2	1.93	0.49
2:C:683:ASN:ND2	2:C:872:ASN:HB2	2.28	0.49
4:E:23:VAL:HG12	4:E:24:ALA:N	2.28	0.49
3:N:33:ASN:CG	3:N:40:GLU:HG2	2.33	0.49
2:C:952:LEU:HD11	8:C:9620:HOH:O	2.13	0.49
2:M:252:LYS:HZ3	2:M:296:GLY:HA3	1.77	0.49
3:N:849:ALA:HB2	8:N:9489:HOH:O	2.12	0.49
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.13	0.49
2:C:604:ALA:HB2	8:C:9615:HOH:O	2.13	0.49
2:M:929:ARG:HH11	2:M:929:ARG:HG3	1.77	0.49
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.77	0.49
1:K:132:LEU:HD11	1:K:138:LEU:CD2	2.43	0.49
1:B:47:SER:HB2	1:B:217:ILE:HD13	1.95	0.49
1:L:7:LYS:HA	8:L:2136:HOH:O	2.12	0.49
2:M:1109:VAL:HG22	3:N:3:LYS:CB	2.43	0.49
2:M:1090:LYS:NZ	8:M:9629:HOH:O	2.46	0.49
2:C:1090:LYS:HB3	3:D:520:LEU:HD12	1.95	0.49
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.42	0.49
3:D:205:TYR:HB3	3:D:393:ILE:HD13	1.94	0.49
2:M:987:ILE:HD12	3:N:948:THR:HG21	1.95	0.49
3:N:1209:LEU:HD21	4:O:16:LYS:HD2	1.95	0.49
2:M:269:LEU:N	2:M:269:LEU:HD23	2.28	0.49
2:C:333:ILE:HD11	2:C:410:ILE:HG21	1.95	0.49
2:C:492:ASP:CA	2:C:518:LYS:HB3	2.36	0.49
2:M:184:MET:CE	2:M:186:VAL:HG22	2.43	0.49
3:D:563:PRO:O	3:D:567:ILE:HG13	2.13	0.49
2:M:290:LEU:HD22	2:M:302:VAL:CB	2.43	0.49
5:P:160:ASP:O	5:P:163:LEU:HB2	2.12	0.49
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.13	0.49
3:D:1047:LYS:HB3	3:D:1048:PRO:HD3	1.94	0.49
3:N:1243:THR:O	3:N:1269:LYS:CD	2.61	0.49
2:C:442:GLU:HG2	2:C:454:SER:CB	2.42	0.49
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.77	0.49
3:N:55:ASP:HB3	3:N:82:LYS:HG2	1.95	0.49
2:M:1038:TRP:NE1	3:N:1099:VAL:HG11	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:929:ARG:NH1	2:M:929:ARG:HG3	2.28	0.49
1:A:154:GLU:OE2	1:A:154:GLU:N	2.46	0.49
2:M:554:ASP:HB3	2:M:880:MET:O	2.13	0.49
5:P:337:HIS:CE1	8:P:9510:HOH:O	2.65	0.49
3:D:1134:LEU:HD11	3:D:1179:GLU:HG2	1.95	0.49
2:M:1087:VAL:HG22	8:M:9750:HOH:O	2.13	0.48
5:P:394:ARG:HG2	5:P:394:ARG:HH11	1.78	0.48
3:D:703:ASN:O	3:D:745:MET:HG2	2.12	0.48
2:C:28:ARG:HG2	2:C:40:GLU:OE1	2.13	0.48
2:M:971:LYS:HD2	8:M:2221:HOH:O	2.13	0.48
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.95	0.48
1:L:24:VAL:CG1	1:L:194:LYS:HE3	2.43	0.48
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.13	0.48
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.36	0.48
3:D:426:LYS:HE3	8:D:2232:HOH:O	2.13	0.48
2:M:430:VAL:HG23	3:N:1078:ARG:NH2	2.28	0.48
5:F:288:TYR:HE2	5:F:305:GLU:HG3	1.78	0.48
2:M:782:ALA:O	2:M:784:ASP:N	2.45	0.48
2:M:728:HIS:NE2	5:P:423:ASP:O	2.46	0.48
5:P:142:ARG:HG3	8:P:9619:HOH:O	2.13	0.48
5:P:274:THR:O	5:P:278:LEU:HG	2.13	0.48
2:M:418:LEU:N	2:M:418:LEU:HD22	2.28	0.48
2:M:906:PHE:CE1	3:N:1067:VAL:HA	2.47	0.48
1:A:224:TYR:HB3	1:B:9:PRO:CB	2.43	0.48
2:C:679:PHE:CE1	2:C:870:ILE:HD13	2.48	0.48
4:E:74:VAL:HG13	8:E:9364:HOH:O	2.12	0.48
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.43	0.48
2:C:176:VAL:HG12	2:C:182:VAL:HG12	1.94	0.48
3:N:715:ALA:O	3:N:764:LEU:HD12	2.12	0.48
3:D:1372:VAL:HG22	3:D:1375:MET:HE3	1.94	0.48
3:D:1166:LEU:HD23	3:D:1166:LEU:N	2.28	0.48
3:D:19:ARG:HH21	3:D:94:GLU:CD	2.16	0.48
8:C:2291:HOH:O	3:D:859:ASP:HA	2.13	0.48
2:M:309:TYR:O	2:M:313:LEU:N	2.40	0.48
5:P:350:LEU:HD12	5:P:422:LEU:CB	2.42	0.48
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.27	0.48
3:N:172:PRO:HB3	3:N:178:LEU:HD13	1.95	0.48
3:N:9:ARG:HA	3:N:1434:TRP:CH2	2.48	0.48
2:M:442:GLU:HG2	2:M:454:SER:CB	2.37	0.48
1:K:123:MET:O	1:K:125:PRO:HD3	2.12	0.48
5:P:152:ASP:HB2	5:P:153:PRO:CD	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:769:LEU:CG	3:N:931:LEU:HD11	2.42	0.48
2:C:1017:THR:OG1	2:C:1019:GLN:HG2	2.13	0.48
2:M:277:ALA:O	2:M:281:LEU:O	2.31	0.48
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.96	0.48
3:N:1241:PHE:O	3:N:1257:PRO:HB3	2.12	0.48
1:L:19:GLU:HG3	1:L:201:THR:O	2.13	0.48
2:M:754:ILE:HD13	2:M:791:ARG:HD3	1.96	0.48
3:D:1203:LYS:HE3	8:D:2355:HOH:O	2.12	0.48
5:F:270:LYS:HD3	5:F:295:MET:HE3	1.95	0.48
2:M:384:GLU:CD	2:M:388:ARG:HH21	2.16	0.48
3:N:1379:VAL:O	3:N:1392:GLY:HA2	2.12	0.48
3:N:871:LYS:HE2	8:N:2008:HOH:O	2.13	0.48
2:M:879:ARG:H	2:M:879:ARG:HD2	1.78	0.48
3:N:1302:GLU:HG3	8:N:9623:HOH:O	2.13	0.48
3:D:65:ARG:CB	5:F:375:LEU:HG	2.44	0.48
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.43	0.48
2:C:939:ARG:CB	2:C:982:PRO:HG3	2.29	0.48
2:C:356:ARG:HD2	8:C:9550:HOH:O	2.12	0.48
3:D:87:ARG:O	3:D:521:PRO:CB	2.48	0.48
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.94	0.48
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.48	0.48
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.78	0.48
3:N:483:HIS:N	3:N:483:HIS:ND1	2.59	0.48
2:C:54:ILE:HG13	2:C:54:ILE:O	2.13	0.48
2:C:98:LEU:HA	8:C:9557:HOH:O	2.13	0.48
2:C:328:LEU:H	2:C:433:THR:HG21	1.76	0.48
3:D:808:THR:HB	3:D:809:PRO:CD	2.39	0.48
3:N:807:ALA:HB3	8:N:2405:HOH:O	2.13	0.48
3:D:826:PRO:CD	3:D:829:VAL:HG22	2.36	0.48
2:C:725:ASP:HB2	2:C:783:ARG:NH1	2.29	0.48
3:D:772:PRO:HB3	3:D:1224:VAL:CG1	2.39	0.48
3:D:179:VAL:HG22	3:D:389:GLU:HG3	1.95	0.48
3:D:786:ILE:HD11	3:D:908:LYS:CB	2.43	0.48
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.47	0.48
1:A:191:ASP:O	1:A:192:LEU:HD23	2.13	0.48
2:C:256:TYR:HD1	8:C:9480:HOH:O	1.96	0.48
2:M:719:PRO:HB3	2:M:820:ARG:HD2	1.95	0.48
3:D:653:PHE:CG	3:D:695:ILE:HD11	2.48	0.48
2:C:193:LEU:CD1	2:C:307:LEU:HD22	2.43	0.48
3:D:1031:ASN:HB3	3:D:1034:GLN:HB2	1.95	0.48
3:D:1283:ILE:C	3:D:1284:GLU:HG2	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:PHE:HZ	1:B:47:SER:HG	1.61	0.48
3:N:939:PHE:O	3:N:942:SER:HB3	2.13	0.48
8:D:2111:HOH:O	4:E:11:GLY:HA2	2.14	0.48
2:C:88:LEU:N	2:C:88:LEU:HD23	2.29	0.48
2:C:574:ALA:HB3	8:C:9508:HOH:O	2.13	0.48
2:C:773:LEU:O	2:C:777:ILE:HG13	2.14	0.48
2:M:328:LEU:HB2	2:M:433:THR:HG21	1.96	0.48
3:D:550:ARG:HG3	3:D:550:ARG:HH11	1.77	0.48
2:M:276:LYS:HG3	8:M:9622:HOH:O	2.13	0.48
3:D:1460:ILE:HG12	8:D:9667:HOH:O	2.12	0.48
2:M:260:LEU:CB	2:M:291:ALA:HB1	2.43	0.48
1:L:143:ARG:HG3	1:L:143:ARG:HH11	1.78	0.48
3:N:102:ILE:HD12	3:N:579:ASP:CG	2.33	0.48
1:L:216:GLU:OE2	1:L:219:ARG:CZ	2.61	0.48
3:N:101:HIS:HD2	3:N:582:LEU:CD1	2.24	0.48
3:D:781:PRO:O	3:D:786:ILE:HG13	2.13	0.48
1:A:169:ALA:HB1	1:A:171:PHE:CZ	2.48	0.48
1:K:67:THR:N	8:K:913:HOH:O	2.46	0.48
2:C:96:ALA:HB2	8:C:9663:HOH:O	2.12	0.48
3:D:1152:GLU:N	8:D:9602:HOH:O	2.46	0.48
3:D:967:ALA:O	3:D:995:LEU:HD21	2.14	0.48
3:N:1354:LYS:HB3	8:N:2203:HOH:O	2.14	0.48
3:N:1150:ALA:O	3:N:1151:ARG:HD3	2.12	0.48
3:D:527:MET:CE	3:D:535:PHE:HB3	2.44	0.48
1:L:7:LYS:O	1:L:7:LYS:HG2	2.14	0.48
3:D:1107:VAL:HA	3:D:1200:VAL:O	2.13	0.48
2:M:595:LEU:HD21	2:M:623:TYR:HB3	1.95	0.48
5:F:369:LEU:O	5:F:373:LYS:CG	2.61	0.48
3:D:543:LEU:HB3	8:D:2488:HOH:O	2.13	0.48
3:N:142:LEU:HG	8:N:9766:HOH:O	2.13	0.48
5:P:384:GLU:O	5:P:388:ALA:N	2.46	0.48
5:P:94:LEU:HB2	8:P:9522:HOH:O	2.14	0.48
3:N:138:LYS:H	3:N:138:LYS:CD	2.07	0.48
5:F:274:THR:O	5:F:278:LEU:HG	2.13	0.48
4:O:52:GLU:OE2	4:O:52:GLU:HA	2.14	0.48
2:M:774:LEU:O	2:M:774:LEU:HD22	2.13	0.48
2:M:194:VAL:HG21	2:M:221:LEU:O	2.13	0.48
2:C:191:PHE:CZ	2:C:238:LEU:HD21	2.49	0.48
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.79	0.48
1:L:59:GLU:OE1	1:L:137:ARG:NH1	2.46	0.48
2:M:578:VAL:HA	2:M:900:ARG:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.94	0.48
3:D:1109:GLU:HA	8:D:9566:HOH:O	2.13	0.48
2:M:352:ALA:C	2:M:355:VAL:HG12	2.34	0.48
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.49	0.48
2:C:993:PHE:HB3	8:C:2157:HOH:O	2.13	0.48
2:M:705:ILE:O	2:M:705:ILE:HG22	2.12	0.48
1:K:189:ARG:NH2	1:L:155:LYS:HD3	2.28	0.48
3:N:194:GLY:H	3:N:206:ARG:HA	1.77	0.48
5:P:282:LEU:O	5:P:282:LEU:HD13	2.13	0.48
3:D:1354:LYS:HE2	8:D:2197:HOH:O	2.13	0.48
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.31	0.48
3:D:1278:ASP:N	3:D:1278:ASP:OD1	2.46	0.48
2:M:435:TYR:C	2:M:437:ARG:N	2.67	0.48
2:M:336:VAL:CA	2:M:339:LEU:HD12	2.42	0.48
3:D:543:LEU:HA	3:D:546:ARG:CG	2.44	0.48
3:D:701:LEU:HD21	3:D:763:MET:HE1	1.94	0.48
4:O:16:LYS:HD3	4:O:17:TYR:CE1	2.49	0.48
2:M:377:PRO:HG3	8:M:9526:HOH:O	2.13	0.48
4:E:47:LYS:HG3	8:E:9443:HOH:O	2.12	0.48
2:C:428:ARG:HA	2:C:450:GLY:HA3	1.94	0.48
2:M:568:ALA:CB	2:M:668:LEU:HB3	2.43	0.48
3:N:79:GLU:HG2	3:N:80:VAL:N	2.28	0.48
3:D:481:MET:SD	3:D:1388:ARG:HG3	2.53	0.48
3:D:500:ARG:NH2	3:D:1388:ARG:HD3	2.29	0.48
5:P:266:GLU:HG2	8:P:9618:HOH:O	2.14	0.48
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.14	0.48
2:M:247:PRO:HB2	8:M:2200:HOH:O	2.13	0.48
5:F:331:ASP:HB2	8:F:9658:HOH:O	2.12	0.48
3:N:819:GLY:O	3:N:822:ALA:HB3	2.13	0.48
1:A:60:ASP:HB3	8:A:9497:HOH:O	2.14	0.48
3:N:14:SER:HB3	3:N:511:TRP:CZ2	2.49	0.48
2:C:1100:GLN:HB2	2:C:1100:GLN:HE21	1.49	0.48
2:M:233:GLU:OE2	2:M:237:ARG:HD3	2.13	0.48
4:O:73:LEU:N	8:O:690:HOH:O	2.46	0.48
5:P:300:ASP:CG	5:P:301:ALA:N	2.66	0.48
3:N:477:LEU:HD11	3:N:495:ARG:HD3	1.95	0.48
2:C:100:LEU:CD2	2:C:368:THR:HA	2.38	0.48
2:M:1054:THR:HG22	2:M:1055:LEU:HD23	1.96	0.48
2:C:198:ARG:HD2	8:C:9779:HOH:O	2.13	0.48
1:A:198:ARG:HH22	2:C:932:GLU:CB	2.21	0.48
3:D:191:LEU:HD22	3:D:195:VAL:CG1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:760:SER:O	2:C:786:LYS:N	2.35	0.48
1:K:18:ARG:HH12	1:K:88:ARG:HE	1.62	0.48
2:M:44:ILE:O	2:M:48:PHE:HB2	2.14	0.48
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.40	0.48
3:N:1243:THR:HG22	8:N:9796:HOH:O	2.14	0.48
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.78	0.48
1:A:107:LYS:HG2	1:A:108:GLU:N	2.28	0.48
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.95	0.48
3:N:1286:THR:N	8:N:2263:HOH:O	2.46	0.48
3:D:669:ASN:ND2	3:D:672:ALA:HB2	2.28	0.48
2:M:875:GLY:HA2	2:M:879:ARG:HH11	1.77	0.48
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.12	0.48
2:M:357:GLU:HA	8:M:2296:HOH:O	2.13	0.48
3:N:1339:LYS:HG2	3:N:1343:ALA:HB2	1.96	0.48
2:M:731:GLU:HB3	8:M:9529:HOH:O	2.13	0.48
5:P:371:LEU:HD22	5:P:375:LEU:HD12	1.95	0.48
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.95	0.48
2:C:64:LEU:HD13	2:C:359:MET:CE	2.43	0.48
3:D:526:PRO:HB2	5:F:317:LEU:CD1	2.43	0.48
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.95	0.48
1:A:22:GLU:OE1	2:C:934:PHE:HZ	1.96	0.48
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.96	0.48
3:D:510:GLU:HB2	3:D:511:TRP:CZ3	2.49	0.48
2:M:89:THR:O	2:M:91:GLN:HG3	2.13	0.48
3:N:1096:ARG:CB	3:N:1096:ARG:HH11	2.26	0.48
1:L:127:LEU:HD12	1:L:128:HIS:H	1.79	0.48
2:M:444:PRO:HB2	8:M:9543:HOH:O	2.12	0.48
2:C:274:ARG:NH2	2:C:284:ARG:HG2	2.28	0.48
2:C:734:LEU:HA	2:C:737:LEU:CD1	2.42	0.48
4:E:51:LEU:HG	4:E:53:GLY:N	2.19	0.48
2:M:43:GLY:HA2	2:M:341:THR:HG23	1.95	0.48
3:N:785:ILE:CD1	3:N:785:ILE:H	2.27	0.48
2:M:203:ASP:O	2:M:207:LEU:HB2	2.13	0.48
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.29	0.48
2:M:603:VAL:HG23	2:M:647:GLN:O	2.14	0.48
1:K:90:LEU:N	8:K:742:HOH:O	2.46	0.48
3:D:1202:GLN:HA	3:D:1215:VAL:CG1	2.44	0.48
2:M:881:ASN:H	2:M:881:ASN:HD22	1.61	0.48
1:L:206:THR:HG23	1:L:207:PRO:HD2	1.94	0.48
3:D:154:THR:HG22	3:D:155:ASP:N	2.28	0.48
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:726:ILE:HD11	2:M:737:LEU:CD1	2.43	0.48
1:L:126:ASP:HB2	8:L:919:HOH:O	2.13	0.48
2:M:76:PRO:HG2	8:M:2023:HOH:O	2.13	0.48
3:N:190:GLU:CD	3:N:190:GLU:H	2.17	0.48
3:N:1499:ARG:HD3	8:N:9594:HOH:O	2.13	0.48
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.94	0.48
5:F:363:GLU:HG2	5:F:364:ARG:N	2.28	0.48
5:F:367:MET:HA	5:F:370:LYS:HD3	1.95	0.48
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.96	0.48
3:N:617:ASN:C	3:N:619:LEU:N	2.67	0.48
2:C:1087:VAL:HG12	2:C:1091:GLU:OE1	2.14	0.48
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.49	0.48
3:N:699:VAL:CG2	3:N:760:ARG:HB3	2.43	0.48
2:C:451:LEU:HB3	8:C:9584:HOH:O	2.12	0.48
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.48
3:D:1198:TYR:OH	3:D:1397:LYS:HE3	2.13	0.48
3:D:397:LYS:CE	3:D:399:ARG:HE	2.27	0.48
5:F:102:LEU:O	5:F:106:VAL:HG23	2.13	0.48
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.44	0.48
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.95	0.48
3:D:1225:ALA:HA	3:D:1367:HIS:ND1	2.29	0.48
3:N:780:LYS:HD3	3:N:912:LYS:HG3	1.95	0.48
2:C:313:LEU:HD12	2:C:313:LEU:O	2.13	0.48
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.14	0.48
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.96	0.48
4:E:24:ALA:O	4:E:28:GLN:HG3	2.14	0.48
3:N:1046:GLN:N	8:N:9803:HOH:O	2.46	0.48
2:C:282:GLY:HA2	2:C:308:ARG:HH21	1.79	0.48
3:D:212:ARG:HB2	3:D:445:ARG:HH22	1.77	0.48
1:B:20:TYR:HE1	8:B:9522:HOH:O	1.97	0.48
5:F:287:THR:C	5:F:289:GLU:H	2.17	0.48
4:O:50:THR:HG23	8:O:1851:HOH:O	2.14	0.48
3:D:1092:GLY:O	3:D:1096:ARG:N	2.47	0.48
3:N:470:LEU:HB2	8:N:9989:HOH:O	2.13	0.48
2:C:159:ILE:HG22	2:C:175:GLU:HG3	1.95	0.48
1:L:214:ALA:HA	1:L:217:ILE:HD12	1.96	0.48
3:D:919:PHE:CD2	3:D:919:PHE:C	2.86	0.48
5:F:325:LYS:HB2	8:F:9479:HOH:O	2.14	0.48
2:C:708:TYR:N	2:C:708:TYR:CD1	2.82	0.48
2:C:493:ARG:HA	8:C:2274:HOH:O	2.14	0.48
3:D:901:GLN:HG3	8:D:9734:HOH:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:433:THR:O	2:M:435:TYR:N	2.47	0.48
3:N:1047:LYS:HG2	3:N:1053:PHE:CE2	2.49	0.48
2:C:355:VAL:HG13	2:C:356:ARG:N	2.28	0.48
3:D:23:TYR:HB2	3:D:49:ILE:O	2.13	0.48
3:D:87:ARG:HB2	3:D:523:ASP:HB2	1.94	0.48
3:N:702:LEU:HD23	3:N:745:MET:HE1	1.94	0.48
1:B:109:VAL:HG23	1:B:132:LEU:HD13	1.96	0.48
4:O:45:ARG:NH1	4:O:72:ARG:HH21	2.12	0.48
3:D:31:THR:HG23	3:D:45:PHE:CE2	2.49	0.48
3:N:827:ILE:HG22	3:N:837:GLY:CA	2.44	0.48
2:M:114:PHE:CE1	5:P:283:GLY:HA3	2.48	0.48
5:F:123:ASP:HB3	5:F:125:ASP:OD1	2.14	0.48
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.96	0.48
1:B:182:GLU:O	1:B:194:LYS:HB3	2.14	0.48
2:C:605:LYS:HB3	2:C:610:ARG:HH12	1.79	0.48
1:A:18:ARG:HD3	1:A:123:MET:HE3	1.96	0.48
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.43	0.48
1:A:206:THR:CG2	1:A:209:GLU:H	2.23	0.48
1:K:9:PRO:CB	1:L:224:TYR:HB3	2.43	0.48
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.78	0.48
2:M:724:ARG:HG2	2:M:734:LEU:HD12	1.95	0.48
3:D:891:GLU:O	3:D:893:GLU:N	2.46	0.48
2:M:177:GLU:HG3	8:M:9679:HOH:O	2.13	0.48
3:D:175:VAL:N	8:D:2366:HOH:O	2.44	0.48
5:P:252:ALA:HB1	5:P:265:VAL:HG21	1.96	0.48
2:C:79:PRO:O	2:C:83:CYS:SG	2.69	0.48
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.46	0.48
3:D:549:ASN:ND2	5:F:254:GLN:NE2	2.62	0.48
5:P:333:ILE:HA	5:P:334:PRO:HD3	1.77	0.48
5:F:112:ALA:O	5:F:116:LEU:HG	2.13	0.48
2:C:716:LYS:HD3	2:C:716:LYS:HA	1.70	0.48
2:C:21:ILE:HD12	2:C:21:ILE:H	1.79	0.48
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.24	0.47
2:M:431:HIS:CD2	2:M:433:THR:OG1	2.67	0.47
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.94	0.47
3:N:131:LYS:HD3	3:N:456:MET:HE2	1.96	0.47
3:N:104:PHE:CD1	3:N:512:MET:HG2	2.49	0.47
8:N:9520:HOH:O	5:P:136:LEU:HD21	2.14	0.47
2:M:773:LEU:HD23	5:P:354:LEU:HD13	1.96	0.47
1:K:176:ARG:NE	8:K:1966:HOH:O	2.45	0.47
2:C:35:PRO:HD2	2:C:38:LYS:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:O	2:C:559:LEU:HD11	2.14	0.47
1:A:72:LYS:HE2	2:C:643:VAL:O	2.13	0.47
5:F:171:LYS:HG3	5:F:175:HIS:CD2	2.48	0.47
2:M:444:PRO:HB3	8:M:9878:HOH:O	2.14	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.96	0.47
2:C:458:TYR:CB	2:C:470:PRO:HG2	2.38	0.47
3:D:1264:GLU:OE2	3:D:1425:THR:N	2.44	0.47
5:P:395:GLU:HA	5:P:398:ARG:HD2	1.95	0.47
3:N:970:LYS:HD2	3:N:995:LEU:CD1	2.44	0.47
2:C:195:LEU:CD1	2:C:234:ALA:HB1	2.44	0.47
2:C:1014:SER:HB3	2:C:1017:THR:O	2.14	0.47
2:M:11:GLU:HG2	2:M:537:LYS:HZ1	1.78	0.47
3:N:145:VAL:HG13	3:N:146:PRO:CD	2.43	0.47
4:O:54:LEU:HG	4:O:58:PRO:CD	2.43	0.47
3:D:969:ARG:HG3	3:D:970:LYS:N	2.29	0.47
3:D:416:ALA:HB1	8:D:2533:HOH:O	2.13	0.47
3:N:865:THR:HG23	3:N:874:GLU:HG2	1.96	0.47
5:F:216:GLY:O	5:F:243:ILE:HG12	2.13	0.47
2:C:780:GLU:HG3	2:C:781:LYS:N	2.29	0.47
3:D:955:VAL:HG21	3:D:1015:TYR:CD2	2.49	0.47
3:N:792:ILE:HG23	3:N:793:THR:N	2.29	0.47
2:M:650:ARG:CG	2:M:653:ASP:HB2	2.44	0.47
3:N:1145:TYR:HA	3:N:1171:VAL:HG21	1.95	0.47
4:O:25:LYS:O	4:O:28:GLN:HB2	2.14	0.47
2:M:575:GLN:HA	2:M:662:GLU:HG3	1.96	0.47
3:N:669:ASN:O	3:N:672:ALA:HB3	2.13	0.47
2:C:403:SER:HB2	2:C:407:LYS:NZ	2.29	0.47
2:C:113:VAL:HB	2:C:115:LEU:HD23	1.95	0.47
2:M:154:ARG:O	2:M:156:GLY:N	2.47	0.47
2:M:681:GLY:HA2	8:M:2103:HOH:O	2.14	0.47
3:N:205:TYR:HB3	3:N:393:ILE:CD1	2.44	0.47
5:P:413:SER:CB	5:P:419:ARG:NH2	2.74	0.47
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.33	0.47
2:C:539:VAL:HG21	3:D:1067:VAL:CG1	2.43	0.47
3:D:446:VAL:HG11	8:D:2498:HOH:O	2.13	0.47
2:M:84:ARG:HB3	8:M:9692:HOH:O	2.14	0.47
2:M:442:GLU:HB3	8:M:9508:HOH:O	2.13	0.47
3:D:1495:ILE:HG12	4:E:80:VAL:HG13	1.95	0.47
3:N:895:VAL:O	3:N:899:LEU:HD12	2.14	0.47
2:C:164:PRO:HG2	8:C:2104:HOH:O	2.13	0.47
3:N:1274:ILE:HG13	3:N:1334:GLN:HE21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:136:LEU:HD12	5:F:137:GLY:N	2.29	0.47
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.96	0.47
2:C:841:ASN:HD21	2:C:845:ASN:H	1.63	0.47
3:D:932:ASP:HA	3:D:935:LYS:HB3	1.97	0.47
1:A:133:GLU:HG2	1:A:134:GLU:N	2.28	0.47
1:A:19:GLU:HG3	1:A:201:THR:O	2.14	0.47
2:C:292:ARG:HD2	2:C:299:LYS:HG2	1.95	0.47
1:A:10:VAL:HG13	1:B:229:GLN:NE2	2.28	0.47
3:N:440:VAL:HG21	8:N:2202:HOH:O	2.14	0.47
3:N:1111:ASP:HB3	3:N:1203:LYS:HG3	1.97	0.47
1:A:170:VAL:CG1	2:C:696:LYS:HD3	2.44	0.47
2:C:512:ARG:HD3	2:C:523:ILE:HD11	1.97	0.47
3:N:66:GLN:O	3:N:67:ARG:C	2.52	0.47
3:D:636:GLN:HB3	8:D:2240:HOH:O	2.13	0.47
2:C:861:LEU:HD23	2:C:862:PRO:HD2	1.96	0.47
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.28	0.47
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.96	0.47
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.30	0.47
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.41	0.47
3:N:168:THR:HG23	8:N:2247:HOH:O	2.14	0.47
2:C:1016:ILE:HD13	2:C:1016:ILE:N	2.29	0.47
2:C:1092:LEU:HG	3:D:607:LEU:HD11	1.95	0.47
3:D:22:SER:OG	3:D:91:GLY:HA2	2.14	0.47
3:N:129:PHE:O	3:N:572:ARG:HG3	2.14	0.47
5:P:377:ASP:O	5:P:378:GLY:C	2.52	0.47
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.95	0.47
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.96	0.47
2:M:1000:MET:HB3	2:M:1002:GLU:HG2	1.96	0.47
3:N:1087:ARG:NH1	3:N:1238:MET:HG3	2.29	0.47
5:F:84:TYR:HE1	5:F:196:VAL:CG2	2.26	0.47
2:M:430:VAL:O	2:M:430:VAL:HG12	2.14	0.47
3:D:1263:PHE:O	3:D:1424:VAL:HB	2.13	0.47
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.96	0.47
2:C:572:ILE:HG12	2:C:701:THR:O	2.14	0.47
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.40	0.47
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.29	0.47
5:P:305:GLU:O	5:P:309:LYS:HG3	2.14	0.47
2:M:419:THR:HG23	8:M:9802:HOH:O	2.13	0.47
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.50	0.47
3:D:1062:ARG:HD3	3:D:1062:ARG:C	2.34	0.47
2:C:1052:MET:CE	3:D:623:VAL:HG21	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:679:PHE:HE1	2:C:859:PRO:HD3	1.79	0.47
2:M:881:ASN:N	2:M:881:ASN:HD22	2.11	0.47
1:L:106:PRO:HG2	1:L:134:GLU:OE1	2.15	0.47
5:P:148:LYS:O	5:P:148:LYS:CG	2.62	0.47
1:L:201:THR:HG22	1:L:203:GLY:H	1.79	0.47
1:B:76:VAL:O	1:B:80:LEU:HB2	2.14	0.47
2:C:177:GLU:N	2:C:178:PRO:HD3	2.29	0.47
2:M:921:ALA:HB3	2:M:967:PHE:HE2	1.78	0.47
3:N:871:LYS:HB3	3:N:873:LEU:HG	1.96	0.47
3:D:249:TYR:CB	8:D:9465:HOH:O	2.61	0.47
2:C:455:LEU:HD13	2:C:456:ALA:O	2.15	0.47
2:M:934:PHE:N	2:M:934:PHE:CD1	2.82	0.47
3:D:1005:GLN:HG2	8:D:9660:HOH:O	2.15	0.47
1:A:165:ILE:O	1:A:165:ILE:HG13	2.13	0.47
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.35	0.47
3:N:496:LEU:O	3:N:496:LEU:HD23	2.14	0.47
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.42	0.47
3:D:523:ASP:O	3:D:526:PRO:HG3	2.14	0.47
3:N:133:ILE:HG21	8:N:9573:HOH:O	2.14	0.47
8:N:9520:HOH:O	5:P:132:ARG:HD3	2.13	0.47
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.44	0.47
3:N:565:ILE:N	3:N:565:ILE:HD12	2.17	0.47
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.44	0.47
3:D:1465:ASN:HB3	8:D:9619:HOH:O	2.15	0.47
2:M:460:ARG:NH2	8:M:9491:HOH:O	2.46	0.47
2:M:264:PRO:HB2	2:M:289:THR:CB	2.43	0.47
2:C:435:TYR:O	2:C:437:ARG:HG3	2.14	0.47
3:D:481:MET:SD	3:D:1388:ARG:CG	3.02	0.47
2:M:393:GLN:OE1	2:M:393:GLN:N	2.47	0.47
2:C:626:ARG:H	2:C:639:GLN:HE21	1.63	0.47
3:D:441:ARG:HG3	8:D:2480:HOH:O	2.14	0.47
3:D:181:ASP:OD2	3:D:199:LEU:HD12	2.13	0.47
2:M:752:GLY:H	2:M:792:VAL:HB	1.78	0.47
5:P:200:LYS:HG3	5:P:209:PHE:CE1	2.49	0.47
5:P:225:GLU:HB3	5:P:226:LYS:NZ	2.29	0.47
3:N:1124:GLN:HE21	3:N:1133:ARG:HD2	1.80	0.47
2:C:176:VAL:O	2:C:176:VAL:HG23	2.14	0.47
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.79	0.47
5:F:395:GLU:O	5:F:399:GLN:HB2	2.14	0.47
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.43	0.47
4:O:36:LYS:HE2	8:O:2142:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:25:LEU:HD13	1:B:225:PHE:CE2	2.50	0.47
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.79	0.47
3:N:114:THR:HB	8:N:9878:HOH:O	2.13	0.47
3:N:475:LYS:O	3:N:478:LEU:HB2	2.15	0.47
2:M:1087:VAL:HG12	2:M:1091:GLU:OE2	2.13	0.47
3:N:558:LEU:HD22	5:P:145:PRO:CG	2.43	0.47
5:P:368:VAL:HG13	5:P:388:ALA:O	2.14	0.47
3:D:890:VAL:CG1	3:D:926:LYS:HG2	2.34	0.47
2:C:643:VAL:HG22	2:C:647:GLN:HE22	1.79	0.47
2:M:169:GLY:HA3	2:M:263:ASP:O	2.14	0.47
5:F:288:TYR:CD1	5:F:288:TYR:N	2.82	0.47
2:M:442:GLU:HG3	8:M:9552:HOH:O	2.13	0.47
3:N:598:ARG:HD2	8:N:2171:HOH:O	2.14	0.47
2:M:728:HIS:CE1	2:M:775:ARG:HH12	2.33	0.47
3:N:899:LEU:HD13	3:N:900:ILE:HG23	1.96	0.47
3:N:729:HIS:HB3	3:N:732:VAL:HG22	1.96	0.47
3:D:899:LEU:HD23	3:D:917:GLN:CB	2.41	0.47
3:D:661:MET:CE	3:D:673:ALA:HB1	2.44	0.47
1:A:18:ARG:HH22	1:A:88:ARG:HH21	1.62	0.47
1:A:14:ARG:HH12	1:A:24:VAL:HG21	1.80	0.47
3:N:30:GLU:HG3	3:N:41:ARG:NE	2.25	0.47
2:M:848:VAL:HG11	3:N:632:VAL:HG22	1.95	0.47
5:F:273:ARG:HD3	8:F:9778:HOH:O	2.13	0.47
3:N:693:GLU:CG	4:O:48:MET:HE1	2.45	0.47
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.97	0.47
1:L:206:THR:HG21	8:L:5234:HOH:O	2.15	0.47
3:D:154:THR:CG2	3:D:155:ASP:N	2.78	0.47
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.44	0.47
2:C:282:GLY:HA2	2:C:308:ARG:NH2	2.28	0.47
2:C:227:PHE:HB3	8:C:9481:HOH:O	2.15	0.47
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.97	0.47
2:M:342:ASP:O	2:M:346:VAL:HG23	2.14	0.47
2:C:739:GLU:O	2:C:741:GLY:N	2.47	0.47
3:D:1429:LEU:HD23	3:D:1429:LEU:O	2.14	0.47
2:M:1040:LEU:HD23	2:M:1048:THR:HG22	1.96	0.47
2:C:1065:ALA:CB	2:C:1077:PRO:HG2	2.44	0.47
2:C:108:ILE:HB	2:C:368:THR:OG1	2.14	0.47
3:N:205:TYR:CD2	3:N:393:ILE:HG12	2.39	0.47
5:P:94:LEU:N	5:P:98:GLU:HB2	2.29	0.47
3:N:701:LEU:CD1	3:N:750:PRO:HD3	2.45	0.47
2:M:577:PRO:HG2	2:M:842:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:119:ILE:HD13	5:F:170:HIS:CG	2.49	0.47
3:N:601:ARG:HD2	3:N:613:ARG:HH21	1.79	0.47
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.96	0.47
1:A:30:ARG:NH1	1:B:155:LYS:HZ1	2.06	0.47
5:F:140:ARG:NH1	8:F:9661:HOH:O	2.47	0.47
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.29	0.47
2:C:910:LYS:HB3	2:C:912:PRO:HD2	1.96	0.47
1:L:216:GLU:HA	8:L:1203:HOH:O	2.14	0.47
1:A:171:PHE:O	1:A:173:PRO:HD3	2.14	0.47
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.14	0.47
3:N:843:PHE:CD1	3:N:864:VAL:HG11	2.49	0.47
1:L:161:ARG:HG2	8:L:4097:HOH:O	2.14	0.47
1:K:211:LEU:O	1:K:215:VAL:HG13	2.14	0.47
2:M:854:PRO:C	2:M:856:GLU:N	2.67	0.47
5:F:110:MET:HG3	8:F:9811:HOH:O	2.13	0.47
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.50	0.47
3:D:964:LEU:HD22	3:D:1058:ARG:NH1	2.29	0.47
3:D:74:GLU:HG3	3:D:74:GLU:H	1.33	0.47
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.49	0.47
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.96	0.47
4:O:8:LYS:O	4:O:12:MET:HG3	2.15	0.47
3:N:971:LEU:O	3:N:975:GLU:HG2	2.15	0.47
1:B:45:LEU:HD21	1:B:177:VAL:HG23	1.96	0.47
2:M:328:LEU:HB2	2:M:433:THR:CG2	2.44	0.47
2:C:100:LEU:HD22	2:C:367:LEU:HD12	1.96	0.47
3:D:526:PRO:HD2	3:D:538:SER:OG	2.15	0.47
3:D:85:VAL:HB	3:D:89:ARG:HE	1.80	0.47
3:N:119:SER:CB	3:N:123:LEU:H	2.28	0.47
3:N:572:ARG:HB2	8:N:2401:HOH:O	2.13	0.47
3:N:96:ALA:H	3:N:551:ASN:HD22	1.62	0.47
2:C:218:VAL:HG23	2:C:311:PHE:HE1	1.78	0.47
2:M:369:PRO:HD2	8:M:2250:HOH:O	2.15	0.47
2:C:34:VAL:CB	2:C:38:LYS:HG3	2.33	0.47
3:D:186:VAL:HG13	3:D:187:LYS:N	2.29	0.47
3:D:211:VAL:HG13	3:D:393:ILE:HG23	1.97	0.47
3:D:127:LEU:HD13	3:D:457:GLY:H	1.77	0.47
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.31	0.47
1:L:42:ARG:CZ	8:L:4157:HOH:O	2.62	0.47
1:L:182:GLU:O	1:L:194:LYS:HB3	2.15	0.47
3:D:131:LYS:CA	3:D:456:MET:HG3	2.40	0.47
1:L:111:ALA:HB3	1:L:124:ASN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:474:VAL:HG23	2:M:478:VAL:O	2.15	0.47
3:D:1066:THR:HA	8:D:9463:HOH:O	2.13	0.47
3:N:556:LYS:CE	5:P:218:GLN:HE22	2.27	0.47
3:D:118:LEU:O	3:D:120:ALA:N	2.48	0.47
3:D:427:VAL:CB	3:D:435:VAL:HB	2.43	0.47
2:M:1115:LEU:HD22	3:N:85:VAL:HG13	1.96	0.47
2:M:569:VAL:HG23	2:M:635:THR:HG22	1.97	0.47
2:M:1097:LEU:HD21	3:N:103:TRP:CZ3	2.49	0.47
3:D:826:PRO:HD2	3:D:829:VAL:CG2	2.41	0.47
3:D:563:PRO:HG3	5:F:188:ILE:CG2	2.45	0.47
2:C:879:ARG:HB3	8:C:9530:HOH:O	2.15	0.47
3:D:646:LYS:HA	3:D:720:LEU:CD2	2.41	0.47
3:D:30:GLU:HG3	3:D:41:ARG:CG	2.40	0.47
1:A:19:GLU:O	1:A:207:PRO:HG3	2.15	0.47
1:A:156:HIS:HD2	1:A:157:GLY:N	2.12	0.47
2:C:683:ASN:HD22	2:C:872:ASN:N	2.12	0.47
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.96	0.47
2:M:580:MET:O	2:M:902:ILE:HA	2.14	0.47
2:C:675:ALA:O	2:C:870:ILE:HA	2.14	0.47
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.41	0.47
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.44	0.47
2:M:332:ARG:HE	2:M:464:LEU:HD11	1.78	0.47
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.80	0.47
2:C:816:LYS:O	2:C:819:VAL:HB	2.15	0.47
3:N:1155:VAL:HG11	3:N:1183:ILE:HD11	1.94	0.47
2:C:370:ALA:HB1	8:C:2217:HOH:O	2.14	0.47
2:M:304:LEU:HD23	2:M:305:PRO:N	2.30	0.47
2:M:301:GLU:O	2:M:305:PRO:HG2	2.15	0.47
3:N:633:VAL:C	3:N:635:PRO:HD3	2.34	0.47
2:C:525:SER:O	2:C:529:VAL:HG23	2.15	0.47
3:D:428:LYS:HB2	8:D:2076:HOH:O	2.15	0.47
2:C:636:ALA:HB2	2:C:703:ILE:HG22	1.96	0.47
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.96	0.47
3:N:958:GLU:OE2	3:N:958:GLU:HA	2.14	0.47
2:C:167:LYS:O	2:C:167:LYS:HE2	2.15	0.47
1:K:172:SER:N	8:K:5034:HOH:O	2.48	0.47
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.15	0.47
2:C:30:LEU:O	2:C:30:LEU:HD12	2.14	0.47
3:D:100:ALA:N	8:D:9989:HOH:O	2.42	0.47
2:M:88:LEU:HD23	2:M:814:GLU:HG2	1.97	0.47
2:C:155:PRO:HB3	8:C:2281:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.96	0.47
1:A:197:LEU:HD23	1:A:197:LEU:H	1.79	0.47
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.31	0.47
3:D:728:LEU:HD22	3:D:745:MET:SD	2.55	0.47
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.96	0.47
2:M:1046:ALA:HB2	3:N:1476:THR:H	1.79	0.47
3:D:462:GLN:CG	3:D:513:ILE:HD13	2.38	0.47
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.44	0.47
3:D:444:VAL:HG22	3:D:446:VAL:HG23	1.97	0.47
4:O:45:ARG:HH12	4:O:72:ARG:NH2	2.12	0.47
2:C:257:VAL:HG12	2:C:263:ASP:CG	2.35	0.47
2:M:193:LEU:HD12	2:M:307:LEU:HD22	1.95	0.47
3:N:828:LYS:N	3:N:828:LYS:HD3	2.29	0.47
2:C:695:LEU:HD21	2:C:833:LEU:O	2.15	0.47
1:K:88:ARG:HG3	1:K:204:SER:O	2.14	0.47
2:M:721:ARG:HG3	2:M:721:ARG:HH11	1.79	0.47
2:C:627:ARG:HG3	2:C:628:PHE:N	2.25	0.47
2:C:173:ASP:O	2:C:184:MET:HA	2.14	0.47
1:A:186:LEU:H	1:A:192:LEU:HD12	1.79	0.47
2:M:841:ASN:HD21	2:M:843:HIS:HB2	1.80	0.47
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.50	0.47
3:D:440:VAL:HG12	3:D:441:ARG:N	2.29	0.47
3:D:445:ARG:NH1	3:D:445:ARG:HG2	2.30	0.47
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.15	0.47
2:C:523:ILE:O	2:C:523:ILE:HG12	2.14	0.47
3:D:1357:ARG:HB3	8:D:2102:HOH:O	2.14	0.47
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.14	0.47
4:O:70:THR:HG22	4:O:71:GLY:N	2.29	0.47
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.29	0.47
5:F:384:GLU:N	8:F:9689:HOH:O	2.47	0.47
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.15	0.47
3:N:507:ASN:H	3:N:507:ASN:ND2	2.12	0.47
1:A:182:GLU:O	1:A:194:LYS:HB3	2.15	0.47
3:D:838:ARG:HG3	3:D:838:ARG:NH1	2.30	0.47
2:M:288:ARG:NE	2:M:288:ARG:HA	2.28	0.47
2:C:537:LYS:H	2:C:537:LYS:HD3	1.80	0.47
2:C:443:THR:HG23	2:C:444:PRO:CD	2.45	0.47
3:N:899:LEU:HD21	3:N:914:LEU:HD23	1.97	0.47
2:M:672:VAL:HG23	2:M:868:ASP:CB	2.43	0.47
3:N:679:ARG:HD3	8:N:2378:HOH:O	2.15	0.47
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:54:LYS:HD3	3:D:57:GLU:HB2	1.97	0.47
3:N:822:ALA:HA	8:N:9525:HOH:O	2.15	0.47
3:D:441:ARG:HB3	3:D:443:VAL:CG2	2.45	0.47
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.15	0.47
3:N:960:LYS:HE2	3:N:964:LEU:HD11	1.97	0.47
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.50	0.47
3:D:1058:ARG:HG3	3:D:1058:ARG:HH11	1.80	0.47
2:M:512:ARG:HD2	8:M:9619:HOH:O	2.13	0.47
2:C:789:SER:O	2:C:791:ARG:HG2	2.15	0.47
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.50	0.47
3:N:958:GLU:N	8:N:2345:HOH:O	2.48	0.47
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.78	0.47
3:D:999:THR:O	3:D:1002:LYS:HB2	2.15	0.47
2:M:1109:VAL:HG22	3:N:3:LYS:HB2	1.97	0.47
3:N:1258:ARG:HG3	3:N:1258:ARG:HH11	1.80	0.47
3:N:198:ARG:HG2	8:N:9544:HOH:O	2.14	0.47
3:N:447:VAL:HG11	8:N:2391:HOH:O	2.14	0.47
3:D:1377:LYS:HB3	8:D:2457:HOH:O	2.14	0.47
2:M:266:ARG:H	2:M:266:ARG:HD2	1.80	0.47
5:P:130:VAL:HG21	5:P:159:ILE:CG2	2.42	0.47
3:D:724:GLN:HA	8:D:9554:HOH:O	2.15	0.47
5:P:86:HIS:HB3	8:P:9560:HOH:O	2.14	0.47
3:N:623:VAL:HA	8:N:2406:HOH:O	2.14	0.47
1:B:73:GLU:HB3	8:B:9545:HOH:O	2.15	0.47
1:L:227:ASN:N	8:L:679:HOH:O	2.48	0.47
1:K:184:THR:O	1:K:192:LEU:HD12	2.15	0.47
3:N:553:ARG:NH2	5:P:215:GLU:HG2	2.26	0.47
2:M:181:VAL:HG11	8:M:9805:HOH:O	2.14	0.47
2:M:1103:ASP:CG	2:M:1104:GLU:N	2.67	0.47
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.97	0.47
5:F:401:GLU:CG	5:F:402:ASN:OD1	2.62	0.46
5:F:412:GLU:OE1	5:F:412:GLU:HA	2.15	0.46
1:K:6:LEU:C	1:K:8:ALA:N	2.68	0.46
3:D:603:LEU:HD23	3:D:606:ILE:HD12	1.97	0.46
5:F:316:SER:HB3	5:F:318:GLU:O	2.16	0.46
3:N:450:TYR:O	3:N:452:ILE:N	2.48	0.46
5:P:135:ILE:HD11	5:P:178:ARG:CB	2.36	0.46
5:P:285:GLU:HG2	8:P:9682:HOH:O	2.15	0.46
2:C:342:ASP:HA	2:C:345:ARG:NE	2.27	0.46
3:D:1066:THR:O	3:D:1070:TYR:N	2.45	0.46
2:M:260:LEU:O	2:M:260:LEU:HD12	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:83:SER:HA	8:N:9939:HOH:O	2.13	0.46
2:M:173:ASP:O	2:M:184:MET:HA	2.15	0.46
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.57	0.46
2:C:1054:THR:HG21	2:C:1079:PRO:CA	2.45	0.46
5:F:280:GLN:O	5:F:280:GLN:HG2	2.15	0.46
2:M:573:ARG:HB2	2:M:670:GLN:HE22	1.80	0.46
3:N:1186:VAL:HG11	8:N:2033:HOH:O	2.15	0.46
1:L:219:ARG:HG3	8:L:3455:HOH:O	2.15	0.46
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.45	0.46
3:D:786:ILE:CD1	3:D:908:LYS:HB3	2.45	0.46
3:D:177:ALA:HB1	3:D:199:LEU:CG	2.45	0.46
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.46	0.46
5:F:356:LYS:HE3	8:F:9501:HOH:O	2.14	0.46
3:D:3:LYS:N	3:D:3:LYS:HD3	2.30	0.46
3:D:175:VAL:HG11	8:D:2442:HOH:O	2.14	0.46
3:N:1001:GLU:HG2	8:N:2177:HOH:O	2.15	0.46
3:N:476:GLU:HG2	8:N:9610:HOH:O	2.15	0.46
2:C:769:PRO:HD2	8:D:9888:HOH:O	2.15	0.46
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.15	0.46
2:C:1096:ALA:HB2	3:D:514:LEU:HD11	1.97	0.46
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.46	0.46
2:C:464:LEU:HD22	8:C:9598:HOH:O	2.15	0.46
1:L:107:LYS:HG2	1:L:108:GLU:N	2.30	0.46
2:M:191:PHE:HE2	2:M:196:LEU:HD12	1.81	0.46
2:M:36:PRO:HD2	8:M:9886:HOH:O	2.15	0.46
2:C:697:ARG:O	2:C:699:PHE:N	2.46	0.46
3:D:1441:GLN:HA	8:D:2144:HOH:O	2.15	0.46
3:N:1232:PRO:CB	3:N:1361:VAL:HG11	2.44	0.46
2:C:704:HIS:CG	2:C:831:ARG:HH22	2.33	0.46
4:O:46:PRO:HB3	4:O:54:LEU:CD2	2.45	0.46
3:D:177:ALA:HB1	3:D:199:LEU:CB	2.45	0.46
2:M:757:GLY:HA2	2:M:789:SER:OG	2.16	0.46
2:C:817:PRO:C	2:C:819:VAL:H	2.19	0.46
3:N:1441:GLN:HB3	8:N:9662:HOH:O	2.14	0.46
3:N:538:SER:HA	5:P:317:LEU:HB2	1.97	0.46
2:C:26:TYR:HE1	2:C:340:MET:HE3	1.81	0.46
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.46
1:K:2:LEU:HD11	8:K:5314:HOH:O	2.15	0.46
2:M:286:SER:O	2:M:299:LYS:HE3	2.15	0.46
2:M:61:LYS:HD2	8:M:9710:HOH:O	2.15	0.46
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:229:GLN:HG3	8:L:2218:HOH:O	2.13	0.46
1:L:62:LEU:HD12	1:L:62:LEU:H	1.81	0.46
2:C:31:GLN:HE21	2:C:31:GLN:HB3	1.42	0.46
1:L:42:ARG:NE	8:L:4157:HOH:O	2.49	0.46
2:M:163:ILE:HG13	2:M:171:TRP:HZ3	1.80	0.46
2:C:11:GLU:HG2	2:C:537:LYS:HZ2	1.77	0.46
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.14	0.46
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.97	0.46
3:N:1348:LEU:HG	3:N:1375:MET:CE	2.43	0.46
1:K:43:ILE:HD12	1:L:32:PHE:CZ	2.50	0.46
1:K:90:LEU:HD11	8:K:2043:HOH:O	2.15	0.46
3:D:781:PRO:HG2	3:D:911:LEU:HD23	1.98	0.46
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.49	0.46
1:L:80:LEU:HD23	8:N:9812:HOH:O	2.14	0.46
2:M:1019:GLN:NE2	3:N:621:LYS:HE3	2.31	0.46
3:N:55:ASP:CB	3:N:82:LYS:HG2	2.46	0.46
2:C:484:VAL:CG1	2:C:486:MET:HG3	2.46	0.46
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.16	0.46
4:O:48:MET:HG2	4:O:54:LEU:HB2	1.97	0.46
3:N:1495:ILE:HD13	4:O:88:GLU:HG3	1.96	0.46
2:C:304:LEU:HD23	2:C:305:PRO:N	2.31	0.46
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.97	0.46
2:C:815:LEU:HD23	2:C:819:VAL:O	2.14	0.46
1:K:14:ARG:HA	8:K:2767:HOH:O	2.14	0.46
2:M:944:LEU:HD22	2:M:962:GLN:HG2	1.96	0.46
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.79	0.46
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.97	0.46
5:P:402:ASN:OD1	5:P:402:ASN:N	2.48	0.46
5:P:405:LEU:HA	5:P:408:LEU:HD22	1.98	0.46
3:N:195:VAL:HB	3:N:205:TYR:HB2	1.98	0.46
3:N:205:TYR:HD2	3:N:393:ILE:CG1	2.26	0.46
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.49	0.46
3:N:412:GLY:O	3:N:421:LEU:HB3	2.16	0.46
5:P:393:THR:HG23	5:P:394:ARG:CD	2.44	0.46
2:M:270:GLY:N	2:M:288:ARG:NH2	2.63	0.46
2:C:905:ILE:CG2	2:C:906:PHE:N	2.78	0.46
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.97	0.46
1:K:111:ALA:HB3	1:K:124:ASN:O	2.16	0.46
2:M:408:ARG:NH1	2:M:542:VAL:HG23	2.30	0.46
5:F:94:LEU:N	5:F:98:GLU:HB2	2.30	0.46
2:C:260:LEU:HD12	2:C:260:LEU:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:433:THR:O	2:C:435:TYR:N	2.49	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.14	0.46
2:M:345:ARG:HG2	8:M:9798:HOH:O	2.15	0.46
3:D:171:LEU:CD2	3:D:390:PRO:HG3	2.45	0.46
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.96	0.46
2:M:1031:ARG:HA	3:N:621:LYS:O	2.15	0.46
2:C:853:LEU:HD23	2:C:858:MET:HB3	1.97	0.46
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.78	0.46
2:M:1096:ALA:HB1	3:N:13:ALA:HB3	1.98	0.46
3:N:153:LEU:H	3:N:153:LEU:HD23	1.78	0.46
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.98	0.46
3:N:1115:THR:O	3:N:1151:ARG:NH2	2.48	0.46
2:C:26:TYR:CE1	2:C:340:MET:HE3	2.51	0.46
2:M:816:LYS:O	2:M:819:VAL:HB	2.16	0.46
2:C:142:ARG:HB2	8:C:9877:HOH:O	2.15	0.46
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.45	0.46
3:N:684:LYS:HE2	8:N:2408:HOH:O	2.16	0.46
2:M:157:ARG:HB2	8:M:9963:HOH:O	2.15	0.46
3:N:523:ASP:O	3:N:526:PRO:HG3	2.15	0.46
3:D:621:LYS:N	8:D:9762:HOH:O	2.48	0.46
2:M:129:ILE:HD11	2:M:386:PHE:CD2	2.51	0.46
2:M:89:THR:N	8:M:9667:HOH:O	2.49	0.46
2:C:341:THR:HG23	2:C:345:ARG:HH22	1.81	0.46
5:P:188:ILE:HD11	5:P:221:ILE:HA	1.97	0.46
3:D:426:LYS:HB3	5:F:134:LYS:O	2.15	0.46
2:C:52:PHE:CE1	2:C:98:LEU:HD21	2.51	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
2:M:398:THR:N	2:M:633:GLN:OE1	2.48	0.46
2:C:620:LEU:HD23	2:C:620:LEU:O	2.15	0.46
1:B:156:HIS:HD2	1:B:157:GLY:N	2.14	0.46
1:A:202:ASP:HA	8:A:9549:HOH:O	2.15	0.46
3:N:546:ARG:NH1	3:N:550:ARG:HH22	2.14	0.46
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.98	0.46
5:F:88:ILE:HD13	5:F:193:ARG:CG	2.45	0.46
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.57	0.46
3:D:899:LEU:HB2	3:D:917:GLN:HG2	1.97	0.46
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.36	0.46
2:C:880:MET:N	8:C:9530:HOH:O	2.47	0.46
5:F:347:GLN:O	5:F:351:SER:HB2	2.16	0.46
3:N:145:VAL:HG12	8:N:2383:HOH:O	2.15	0.46
3:D:72:VAL:HG22	3:D:78:VAL:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:959:GLU:HG3	3:N:1006:ALA:HB1	1.97	0.46
5:P:287:THR:O	5:P:289:GLU:N	2.49	0.46
2:M:63:GLY:CA	2:M:103:LYS:HE2	2.46	0.46
3:N:22:SER:HA	3:N:90:MET:O	2.16	0.46
2:M:15:LEU:N	2:M:15:LEU:HD12	2.30	0.46
2:M:217:LEU:HA	8:M:9626:HOH:O	2.16	0.46
5:P:409:LYS:HG3	8:P:9621:HOH:O	2.16	0.46
5:F:384:GLU:O	5:F:388:ALA:N	2.48	0.46
2:M:333:ILE:HD11	2:M:410:ILE:HG21	1.98	0.46
3:N:116:LEU:HA	8:N:9831:HOH:O	2.15	0.46
3:N:132:TYR:N	3:N:132:TYR:CD1	2.79	0.46
3:N:428:LYS:HD3	3:N:451:ASP:OD1	2.16	0.46
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.98	0.46
3:D:149:LYS:HE2	3:D:149:LYS:N	2.27	0.46
2:C:476:GLY:C	2:C:478:VAL:H	2.19	0.46
3:N:1092:GLY:O	3:N:1096:ARG:N	2.48	0.46
2:M:939:ARG:CB	2:M:982:PRO:HG3	2.33	0.46
2:C:650:ARG:HG2	2:C:653:ASP:HB2	1.97	0.46
2:C:69:LEU:HG	8:C:9557:HOH:O	2.15	0.46
5:P:316:SER:C	5:P:318:GLU:H	2.19	0.46
2:M:762:LYS:HZ3	2:M:784:ASP:HB3	1.81	0.46
1:A:222:LEU:CD1	1:B:215:VAL:HB	2.42	0.46
2:M:56:GLU:HB3	8:M:2105:HOH:O	2.15	0.46
2:C:670:GLN:O	2:C:672:VAL:HG12	2.13	0.46
2:M:901:TYR:N	2:M:901:TYR:CD1	2.82	0.46
2:C:886:LEU:HD23	8:C:9674:HOH:O	2.15	0.46
1:A:88:ARG:NE	8:A:9503:HOH:O	2.49	0.46
1:L:172:SER:N	8:L:5023:HOH:O	2.46	0.46
2:C:953:VAL:CG1	2:C:966:LEU:HD13	2.44	0.46
3:N:41:ARG:HG3	3:N:42:ASP:N	2.31	0.46
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.97	0.46
2:M:950:LEU:HB3	2:M:952:LEU:CD2	2.44	0.46
3:D:177:ALA:HB1	3:D:199:LEU:CD2	2.43	0.46
3:D:1132:LEU:N	8:D:9601:HOH:O	2.48	0.46
5:P:415:THR:HG22	5:P:417:LYS:CG	2.46	0.46
2:M:707:ARG:CZ	2:M:824:ARG:NH1	2.79	0.46
1:B:103:ALA:HB1	8:B:9534:HOH:O	2.16	0.46
3:D:1405:GLU:HG2	8:D:9486:HOH:O	2.15	0.46
3:D:66:GLN:O	3:D:67:ARG:C	2.53	0.46
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.45	0.46
3:N:154:THR:CG2	3:N:156:GLU:HG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:744:ARG:HD2	8:C:9769:HOH:O	2.16	0.46
5:P:151:LEU:HB2	5:P:155:THR:HB	1.98	0.46
2:M:99:GLN:HG3	2:M:99:GLN:O	2.15	0.46
3:D:106:LYS:HE2	3:D:125:GLN:OE1	2.16	0.46
3:D:525:ARG:HA	3:D:538:SER:CB	2.46	0.46
3:N:139:GLY:N	3:N:147:VAL:HG11	2.30	0.46
3:D:701:LEU:O	3:D:747:VAL:HA	2.16	0.46
2:M:986:PRO:C	2:M:987:ILE:HD13	2.35	0.46
2:M:428:ARG:O	3:N:1078:ARG:NH1	2.48	0.46
2:C:274:ARG:HD2	8:C:9567:HOH:O	2.15	0.46
2:M:541:SER:HB2	8:M:9853:HOH:O	2.14	0.46
3:N:546:ARG:NH2	3:N:576:GLU:OE1	2.48	0.46
3:N:590:PRO:HB3	8:N:2178:HOH:O	2.16	0.46
1:K:44:LEU:HD23	1:K:48:ILE:CD1	2.46	0.46
2:M:338:GLU:HA	2:M:341:THR:OG1	2.16	0.46
2:M:244:PRO:CD	2:M:245:GLY:N	2.79	0.46
2:C:480:THR:HG23	8:C:9749:HOH:O	2.14	0.46
1:K:94:LEU:HD21	1:K:119:ASP:HB3	1.97	0.46
2:C:500:ASN:HA	8:C:9900:HOH:O	2.16	0.46
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.98	0.46
3:N:804:LEU:O	3:N:804:LEU:HD12	2.15	0.46
1:L:74:ASP:HB2	8:L:5263:HOH:O	2.14	0.46
2:M:739:GLU:O	2:M:741:GLY:N	2.49	0.46
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.50	0.46
2:C:44:ILE:HD11	2:C:340:MET:HE1	1.97	0.46
3:D:632:VAL:O	3:D:727:GLN:HA	2.15	0.46
2:M:816:LYS:HE3	8:M:9538:HOH:O	2.14	0.46
2:M:876:VAL:O	2:M:879:ARG:O	2.34	0.46
4:O:12:MET:O	4:O:75:PHE:HZ	1.98	0.46
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.30	0.46
3:D:240:GLU:O	3:D:242:LEU:N	2.49	0.46
3:D:1385:GLY:HA2	8:D:9913:HOH:O	2.15	0.46
2:M:278:GLU:HB2	8:M:2038:HOH:O	2.15	0.46
3:D:675:ARG:NH2	5:F:420:ASP:OD2	2.48	0.46
5:P:358:LEU:HD11	5:P:370:LYS:CD	2.44	0.46
5:P:358:LEU:HD11	5:P:370:LYS:CE	2.45	0.46
1:A:89:PHE:HB2	1:A:94:LEU:HD22	1.98	0.46
2:M:1106:ASP:CA	3:N:7:LYS:HE3	2.46	0.46
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.97	0.46
2:C:1115:LEU:CB	3:D:85:VAL:HG12	2.38	0.46
3:N:12:LEU:HD23	3:N:12:LEU:HA	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:140:ARG:NH1	5:P:141:VAL:HG23	2.31	0.46
2:M:773:LEU:HD23	8:M:9948:HOH:O	2.16	0.46
5:F:96:LEU:O	5:F:100:VAL:HG23	2.15	0.46
2:C:615:TYR:N	8:C:9571:HOH:O	2.40	0.46
1:K:171:PHE:HZ	8:K:972:HOH:O	1.97	0.46
1:K:19:GLU:HG3	1:K:201:THR:O	2.16	0.46
2:C:626:ARG:HD3	8:C:9724:HOH:O	2.16	0.46
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.97	0.46
3:D:389:GLU:HG3	8:D:9925:HOH:O	2.16	0.46
2:M:909:ALA:HA	2:M:913:GLU:OE1	2.16	0.46
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.96	0.46
3:D:81:THR:HG22	3:D:82:LYS:N	2.29	0.46
3:N:1024:ALA:HB2	8:N:9601:HOH:O	2.14	0.46
2:C:897:LEU:HB3	2:C:899:GLN:CD	2.36	0.46
1:A:154:GLU:H	1:A:154:GLU:CD	2.20	0.46
3:N:960:LYS:HE2	3:N:964:LEU:CD1	2.46	0.46
5:F:151:LEU:HG	5:F:155:THR:OG1	2.16	0.46
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.50	0.46
3:D:1118:ILE:CD1	3:D:1192:LEU:HD12	2.45	0.46
3:D:1118:ILE:HG13	8:D:9509:HOH:O	2.15	0.46
3:D:1087:ARG:C	3:D:1089:ALA:H	2.17	0.46
2:M:1064:ASN:HD21	5:P:344:ALA:CB	2.28	0.46
4:E:32:ARG:CZ	4:E:32:ARG:HB2	2.46	0.46
1:K:7:LYS:O	1:K:7:LYS:HG2	2.16	0.46
5:F:265:VAL:HG12	8:F:9687:HOH:O	2.16	0.46
1:A:183:ASP:HB3	8:A:9448:HOH:O	2.15	0.46
5:P:358:LEU:HD23	5:P:358:LEU:C	2.35	0.46
3:N:1057:VAL:HG12	3:N:1069:GLU:OE2	2.15	0.46
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.46	0.46
3:N:422:ALA:HB3	3:N:427:VAL:HG13	1.98	0.46
2:M:773:LEU:O	2:M:777:ILE:HG13	2.16	0.46
3:D:794:GLN:O	3:D:861:GLN:HB3	2.16	0.46
3:D:850:LEU:HD13	3:D:884:ARG:NH2	2.31	0.46
3:D:639:LEU:N	3:D:729:HIS:CD2	2.84	0.46
2:M:1046:ALA:HB3	3:N:1476:THR:HB	1.98	0.46
4:E:30:LEU:HD21	4:E:63:TRP:HE3	1.80	0.46
3:N:737:ASN:C	8:N:9496:HOH:O	2.53	0.46
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.50	0.46
2:C:726:ILE:HG13	2:C:734:LEU:HD21	1.96	0.46
2:C:730:SER:N	8:C:9532:HOH:O	2.49	0.46
3:N:806:PHE:O	3:N:806:PHE:CD1	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.98	0.46
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.34	0.46
3:D:1141:GLU:HG2	3:D:1168:MET:HE2	1.97	0.46
3:D:710:ARG:HH21	3:D:1224:VAL:CG2	2.28	0.46
3:D:204:LEU:HD12	8:D:2181:HOH:O	2.16	0.46
3:D:991:GLN:HG3	8:D:9597:HOH:O	2.16	0.46
2:M:10:ARG:O	2:M:12:VAL:N	2.49	0.46
3:D:782:SER:O	3:D:786:ILE:HD12	2.15	0.46
3:D:906:GLN:OE1	3:D:906:GLN:HA	2.16	0.46
1:A:173:PRO:O	1:A:201:THR:HG23	2.16	0.46
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.83	0.46
1:A:192:LEU:HA	8:A:9591:HOH:O	2.15	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.56	0.46
2:M:352:ALA:O	2:M:356:ARG:HG3	2.16	0.46
3:D:1130:ARG:HD2	8:D:9601:HOH:O	2.14	0.46
1:L:176:ARG:HH22	3:N:884:ARG:CD	2.28	0.46
3:D:100:ALA:HB3	8:D:9989:HOH:O	2.15	0.46
3:N:676:MET:O	3:N:676:MET:SD	2.74	0.46
2:C:298:PHE:N	2:C:298:PHE:CD1	2.84	0.46
3:N:891:GLU:HG3	3:N:891:GLU:O	2.16	0.46
2:M:261:ILE:H	2:M:261:ILE:HG13	1.63	0.46
5:F:377:ASP:O	5:F:378:GLY:C	2.53	0.46
1:B:119:ASP:N	1:B:119:ASP:OD1	2.49	0.46
2:M:335:THR:HG22	2:M:461:VAL:HG11	1.98	0.46
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.30	0.46
3:D:859:ASP:HB3	3:D:861:GLN:HE22	1.81	0.46
3:D:873:LEU:N	8:D:2489:HOH:O	2.48	0.46
5:P:94:LEU:HD12	5:P:97:GLU:HG2	1.98	0.46
2:C:31:GLN:HG3	8:C:9887:HOH:O	2.15	0.46
3:D:182:GLY:O	3:D:186:VAL:HB	2.16	0.46
2:M:73:LEU:HD23	2:M:94:LEU:HD13	1.98	0.46
3:N:794:GLN:O	3:N:861:GLN:HB3	2.15	0.46
2:C:338:GLU:HA	2:C:341:THR:CG2	2.43	0.46
3:N:1490:LYS:HZ2	4:O:39:VAL:HA	1.79	0.46
3:D:1436:SER:OG	3:D:1463:LYS:HD2	2.16	0.46
2:C:264:PRO:HG2	8:C:9714:HOH:O	2.16	0.46
2:M:412:ALA:CA	8:M:2237:HOH:O	2.64	0.46
2:M:441:VAL:O	2:M:559:LEU:HD13	2.16	0.46
2:C:134:ARG:HH12	2:C:392:SER:C	2.20	0.46
5:P:291:ILE:HG23	5:P:292:ALA:N	2.31	0.46
2:M:54:ILE:HD13	8:M:9525:HOH:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:54:ILE:HG23	2:M:64:LEU:HD21	1.98	0.46
2:C:1054:THR:HG22	2:C:1055:LEU:HD23	1.97	0.46
3:N:472:ALA:N	8:N:9762:HOH:O	2.48	0.46
2:M:691:SER:HB2	2:M:858:MET:CE	2.45	0.46
2:M:906:PHE:HB3	3:N:1067:VAL:HG22	1.95	0.46
2:C:679:PHE:CZ	2:C:853:LEU:HD21	2.51	0.46
2:M:683:ASN:HB2	2:M:687:ALA:O	2.16	0.46
2:M:850:ALA:HA	3:N:632:VAL:HG11	1.98	0.46
3:N:125:GLN:CD	3:N:587:ARG:HH21	2.19	0.46
1:L:206:THR:HB	1:L:209:GLU:CD	2.36	0.46
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.80	0.46
2:M:755:LEU:HA	2:M:755:LEU:HD23	1.76	0.46
1:B:7:LYS:HZ2	1:B:186:LEU:HD13	1.81	0.46
3:D:1346:ARG:NH1	3:D:1346:ARG:HA	2.31	0.46
1:K:219:ARG:HH12	1:K:220:GLU:CG	2.28	0.46
1:K:14:ARG:HH12	1:K:24:VAL:HG21	1.81	0.46
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.45	0.46
2:M:554:ASP:CB	2:M:880:MET:O	2.64	0.46
2:M:817:PRO:C	2:M:819:VAL:H	2.20	0.46
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.85	0.46
5:P:151:LEU:HB2	5:P:155:THR:CB	2.45	0.46
1:A:118:ALA:HB2	8:A:9586:HOH:O	2.15	0.46
1:K:62:LEU:H	1:K:62:LEU:HD12	1.81	0.46
3:N:1408:ILE:HG21	8:N:9555:HOH:O	2.16	0.46
2:M:772:ARG:HG3	8:P:9568:HOH:O	2.16	0.46
3:D:1393:GLN:NE2	8:D:2138:HOH:O	2.46	0.46
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.15	0.46
3:N:396:VAL:HG13	3:N:447:VAL:CA	2.42	0.45
3:N:456:MET:C	8:N:9942:HOH:O	2.55	0.45
2:M:778:PHE:HA	8:M:9540:HOH:O	2.15	0.45
2:C:949:LYS:HB3	3:D:796:ARG:HH21	1.79	0.45
2:C:474:VAL:HG23	2:C:478:VAL:O	2.16	0.45
2:C:449:ILE:N	8:C:9931:HOH:O	2.48	0.45
4:O:52:GLU:HB2	4:O:55:PHE:HE2	1.79	0.45
3:D:119:SER:H	3:D:123:LEU:CD1	2.29	0.45
2:C:647:GLN:NE2	2:C:650:ARG:NH2	2.64	0.45
5:P:170:HIS:HA	5:P:173:TYR:CD1	2.51	0.45
2:M:1099:VAL:HG13	8:M:9533:HOH:O	2.15	0.45
5:P:318:GLU:HB2	5:P:328:PHE:HE2	1.81	0.45
3:D:1086:LEU:N	3:D:1086:LEU:CD1	2.79	0.45
2:C:843:HIS:HD2	2:C:884:GLN:HB3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1241:PHE:O	3:N:1243:THR:N	2.49	0.45
4:O:46:PRO:HD2	8:O:707:HOH:O	2.15	0.45
3:D:609:GLY:HA3	3:D:613:ARG:HB3	1.97	0.45
3:D:613:ARG:HB2	8:D:9728:HOH:O	2.15	0.45
3:N:956:ILE:HD11	3:N:1062:ARG:HB3	1.98	0.45
2:M:226:VAL:HG13	2:M:227:PHE:CE1	2.51	0.45
2:M:589:ARG:HB2	2:M:589:ARG:HH11	1.81	0.45
3:D:1031:ASN:HB3	3:D:1034:GLN:CG	2.46	0.45
2:M:738:ASP:O	2:M:739:GLU:C	2.52	0.45
1:K:65:PHE:HE2	2:M:830:LYS:HG3	1.78	0.45
2:M:63:GLY:HA3	2:M:103:LYS:HG2	1.97	0.45
3:N:544:TYR:CZ	3:N:581:LEU:HD11	2.51	0.45
2:M:237:ARG:O	2:M:240:THR:HB	2.17	0.45
1:K:149:GLY:N	8:K:5034:HOH:O	2.45	0.45
5:F:261:PRO:O	5:F:265:VAL:HG23	2.16	0.45
2:M:239:PHE:HE1	2:M:246:ASP:HB3	1.80	0.45
1:K:64:GLU:HG2	1:K:64:GLU:O	2.16	0.45
5:F:371:LEU:HD22	5:F:375:LEU:HD12	1.96	0.45
1:L:91:ASN:HB2	1:L:92:PRO:CD	2.46	0.45
5:P:410:TYR:O	5:P:414:ARG:HG2	2.16	0.45
5:P:97:GLU:O	5:P:101:GLU:HB2	2.16	0.45
3:N:1304:LYS:HA	8:N:9663:HOH:O	2.14	0.45
2:M:309:TYR:O	2:M:313:LEU:HB3	2.17	0.45
2:C:341:THR:HG23	2:C:345:ARG:HH21	1.81	0.45
2:C:428:ARG:HE	2:C:451:LEU:HG	1.80	0.45
2:C:54:ILE:HG12	8:C:9524:HOH:O	2.17	0.45
2:C:516:ARG:HB2	8:C:9494:HOH:O	2.15	0.45
2:C:516:ARG:HH11	2:C:521:PRO:HG3	1.81	0.45
2:C:854:PRO:C	2:C:856:GLU:N	2.69	0.45
2:C:277:ALA:O	2:C:281:LEU:O	2.33	0.45
5:P:163:LEU:HD22	5:P:174:LEU:CG	2.39	0.45
3:D:902:LEU:N	8:D:2567:HOH:O	2.48	0.45
2:C:575:GLN:HA	2:C:662:GLU:OE2	2.17	0.45
2:M:691:SER:HB2	2:M:858:MET:SD	2.56	0.45
3:N:101:HIS:CD2	3:N:582:LEU:CD1	2.96	0.45
1:A:70:GLY:H	2:C:607:ASP:CG	2.19	0.45
2:C:679:PHE:CD1	2:C:870:ILE:HD13	2.51	0.45
1:K:191:ASP:O	1:K:192:LEU:HD23	2.16	0.45
1:K:213:GLN:O	1:K:217:ILE:HG13	2.15	0.45
1:A:162:ILE:HG13	1:A:163:ASN:N	2.31	0.45
3:N:804:LEU:C	3:N:804:LEU:HD12	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.99	0.45
1:L:222:LEU:HB2	8:L:2116:HOH:O	2.15	0.45
3:D:469:ASP:N	8:D:2520:HOH:O	2.48	0.45
2:C:1044:GLY:O	2:C:1046:ALA:N	2.49	0.45
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.98	0.45
3:D:65:ARG:CD	5:F:374:GLY:O	2.65	0.45
3:D:186:VAL:CG1	3:D:187:LYS:N	2.79	0.45
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.97	0.45
2:C:474:VAL:HA	2:C:478:VAL:O	2.16	0.45
2:M:318:PRO:HB2	2:M:321:GLU:OE1	2.16	0.45
2:M:606:VAL:CG2	2:M:645:VAL:HG13	2.35	0.45
2:M:473:ARG:HG3	2:M:474:VAL:N	2.30	0.45
3:D:1073:SER:HB2	8:D:9564:HOH:O	2.15	0.45
2:M:1097:LEU:HD13	2:M:1097:LEU:N	2.30	0.45
3:N:809:PRO:HD2	8:N:9498:HOH:O	2.14	0.45
3:N:576:GLU:O	3:N:579:ASP:HB2	2.16	0.45
1:K:44:LEU:HD23	1:K:48:ILE:HD12	1.99	0.45
3:D:1207:TYR:H	3:D:1366:LYS:NZ	2.14	0.45
3:N:786:ILE:HD13	3:N:1027:GLY:HA3	1.99	0.45
2:C:148:PHE:CE1	2:C:309:TYR:HB3	2.50	0.45
3:D:984:THR:CG2	3:D:987:GLU:H	2.25	0.45
2:M:3:ILE:HD13	2:M:900:ARG:O	2.16	0.45
2:M:1043:TYR:CZ	3:N:763:MET:HG3	2.51	0.45
2:C:1031:ARG:HH11	2:C:1031:ARG:HG2	1.81	0.45
3:D:1503:VAL:HG11	8:D:2173:HOH:O	2.16	0.45
3:N:1159:ARG:CZ	3:N:1159:ARG:HB2	2.46	0.45
3:D:1437:ALA:HB3	3:D:1446:VAL:CG1	2.47	0.45
3:N:379:ALA:HB2	8:N:9622:HOH:O	2.15	0.45
3:D:549:ASN:ND2	8:D:9505:HOH:O	2.48	0.45
3:N:893:GLU:O	3:N:896:ALA:HB3	2.16	0.45
5:F:365:GLU:HB2	5:F:400:ILE:HG21	1.97	0.45
1:B:6:LEU:C	1:B:8:ALA:N	2.70	0.45
5:P:393:THR:CG2	5:P:394:ARG:N	2.79	0.45
3:N:1209:LEU:O	3:N:1210:SER:C	2.52	0.45
2:M:276:LYS:HG2	2:M:280:LYS:HE3	1.97	0.45
2:C:10:ARG:O	2:C:12:VAL:N	2.49	0.45
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.98	0.45
2:C:338:GLU:CA	2:C:341:THR:HG22	2.45	0.45
2:C:413:LEU:HD11	2:C:451:LEU:HB3	1.99	0.45
3:D:397:LYS:HG2	3:D:397:LYS:O	2.15	0.45
3:N:9:ARG:HA	3:N:1434:TRP:HH2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:64:ALA:C	8:O:3627:HOH:O	2.53	0.45
3:D:567:ILE:HG22	3:D:571:LYS:HE3	1.99	0.45
2:M:711:GLU:HB2	8:M:9684:HOH:O	2.16	0.45
2:C:309:TYR:O	2:C:313:LEU:N	2.37	0.45
5:P:161:GLN:HG3	5:P:164:LYS:HZ2	1.81	0.45
3:N:471:GLU:CG	8:N:9534:HOH:O	2.64	0.45
5:F:141:VAL:CG1	5:F:142:ARG:N	2.79	0.45
3:D:994:GLN:HG2	8:D:9597:HOH:O	2.16	0.45
3:N:414:ARG:HG2	8:N:2350:HOH:O	2.16	0.45
3:D:1162:GLU:HG2	3:D:1163:GLY:N	2.32	0.45
3:D:79:GLU:HG2	3:D:80:VAL:N	2.31	0.45
3:N:865:THR:HG23	3:N:874:GLU:CG	2.45	0.45
1:B:101:LEU:C	1:B:101:LEU:HD23	2.37	0.45
3:D:1111:ASP:O	3:D:1111:ASP:OD2	2.34	0.45
3:N:545:ARG:HH11	3:N:545:ARG:HB3	1.80	0.45
5:P:287:THR:C	5:P:289:GLU:H	2.20	0.45
3:D:2:LYS:HD2	8:D:2092:HOH:O	2.17	0.45
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.98	0.45
2:M:888:THR:HG21	8:M:9676:HOH:O	2.16	0.45
2:M:626:ARG:NH2	8:M:2096:HOH:O	2.50	0.45
3:D:1491:THR:HG21	4:E:89:MET:SD	2.57	0.45
3:N:1436:SER:HA	8:N:2074:HOH:O	2.16	0.45
2:C:774:LEU:HD13	2:C:775:ARG:N	2.32	0.45
1:A:6:LEU:C	1:A:8:ALA:N	2.68	0.45
3:N:525:ARG:NE	3:N:541:ASN:HD21	2.10	0.45
3:N:166:GLN:HB3	3:N:395:VAL:CG2	2.46	0.45
3:D:540:LEU:HA	3:D:540:LEU:HD23	1.84	0.45
3:D:540:LEU:HD23	3:D:543:LEU:HD12	1.99	0.45
3:N:423:ASP:HB2	5:P:178:ARG:HB2	1.98	0.45
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.49	0.45
3:D:1312:LEU:HD11	3:D:1327:ARG:HG3	1.98	0.45
3:N:1476:THR:HG22	3:N:1476:THR:O	2.17	0.45
3:D:161:LEU:O	3:D:449:SER:CB	2.63	0.45
3:N:828:LYS:NZ	3:N:862:ASP:OD1	2.49	0.45
2:C:723:THR:C	2:C:725:ASP:H	2.20	0.45
1:K:18:ARG:N	8:K:1202:HOH:O	2.49	0.45
5:P:84:TYR:CE1	5:P:196:VAL:HG21	2.51	0.45
3:D:914:LEU:O	3:D:914:LEU:HD23	2.17	0.45
2:C:957:LYS:CG	2:C:961:GLU:HB3	2.47	0.45
3:N:754:PHE:HA	4:O:24:ALA:CB	2.47	0.45
3:N:1412:LYS:O	3:N:1412:LYS:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:843:PHE:HB3	8:N:9489:HOH:O	2.16	0.45
2:M:713:ARG:HB2	2:M:720:GLU:OE1	2.17	0.45
3:N:581:LEU:O	3:N:603:LEU:HG	2.17	0.45
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.82	0.45
2:C:397:GLU:H	2:C:633:GLN:CD	2.19	0.45
2:M:928:LYS:O	2:M:932:GLU:HG3	2.16	0.45
2:M:637:LEU:N	2:M:637:LEU:HD23	2.32	0.45
1:A:62:LEU:H	1:A:62:LEU:HD12	1.81	0.45
2:M:873:PRO:HB3	3:N:949:ILE:HG13	1.98	0.45
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.98	0.45
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.99	0.45
1:A:5:LYS:CA	1:A:5:LYS:HE3	2.36	0.45
3:N:130:SER:HB2	3:N:132:TYR:HE1	1.82	0.45
3:N:133:ILE:HA	3:N:455:ARG:O	2.16	0.45
3:N:388:HIS:O	5:P:97:GLU:HG3	2.16	0.45
1:L:124:ASN:OD1	1:L:127:LEU:HB2	2.17	0.45
4:O:40:LEU:HB2	4:O:45:ARG:NE	2.31	0.45
4:O:72:ARG:HG2	4:O:72:ARG:HH11	1.81	0.45
2:M:17:PRO:HB2	8:M:9519:HOH:O	2.17	0.45
2:M:184:MET:HB2	2:M:193:LEU:HD23	1.98	0.45
3:D:500:ARG:HH22	3:D:1388:ARG:HD3	1.80	0.45
3:N:828:LYS:HD2	3:N:862:ASP:OD2	2.17	0.45
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.99	0.45
3:N:539:ASP:HA	8:N:9616:HOH:O	2.16	0.45
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.98	0.45
2:M:44:ILE:HD12	2:M:44:ILE:H	1.82	0.45
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.97	0.45
3:N:1166:LEU:HB2	3:N:1170:ASP:HB2	1.98	0.45
2:C:957:LYS:HG2	2:C:961:GLU:CB	2.47	0.45
2:M:1047:HIS:CG	3:N:754:PHE:HB3	2.52	0.45
2:C:546:LEU:HD12	2:C:565:GLN:NE2	2.24	0.45
1:A:49:PRO:O	1:A:173:PRO:CD	2.65	0.45
2:M:1105:LYS:O	2:M:1107:ASN:N	2.50	0.45
5:P:235:PHE:CE2	5:P:239:ALA:HB2	2.52	0.45
2:M:334:ARG:HB2	8:M:9656:HOH:O	2.17	0.45
3:N:521:PRO:HA	3:N:522:PRO:HD3	1.69	0.45
3:D:580:ALA:HB3	8:D:2488:HOH:O	2.16	0.45
3:N:126:VAL:HG11	3:N:152:LEU:HD12	1.97	0.45
2:C:216:GLU:O	2:C:218:VAL:N	2.49	0.45
1:A:45:LEU:HD21	1:A:177:VAL:HG23	1.98	0.45
3:D:395:VAL:O	3:D:395:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1197:ARG:HG3	3:D:1198:TYR:CD1	2.51	0.45
3:D:1401:GLU:HA	8:D:9583:HOH:O	2.16	0.45
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.46	0.45
2:C:1102:LEU:HD23	2:C:1107:ASN:N	2.32	0.45
2:C:730:SER:HB2	8:C:9654:HOH:O	2.16	0.45
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.98	0.45
2:M:137:VAL:HG21	2:M:393:GLN:HE22	1.81	0.45
2:C:762:LYS:HA	2:C:786:LYS:HG3	1.98	0.45
2:C:121:MET:HB2	2:C:127:PHE:HE2	1.82	0.45
2:C:134:ARG:NH1	2:C:392:SER:OG	2.50	0.45
3:N:1312:LEU:HD13	3:N:1326:THR:O	2.16	0.45
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.16	0.45
3:D:633:VAL:O	3:D:635:PRO:HD3	2.16	0.45
2:C:843:HIS:CD2	2:C:884:GLN:CA	3.00	0.45
1:K:9:PRO:HG2	1:L:224:TYR:HB3	1.98	0.45
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.81	0.45
1:B:7:LYS:HZ2	1:B:186:LEU:HD22	1.82	0.45
3:N:1095:THR:O	3:N:1099:VAL:HG23	2.17	0.45
3:D:898:GLU:HA	8:D:2553:HOH:O	2.16	0.45
5:F:155:THR:HG22	5:F:156:VAL:N	2.31	0.45
2:C:300:ASP:O	2:C:300:ASP:CG	2.55	0.45
3:N:711:LEU:HD12	3:N:778:LEU:CD2	2.47	0.45
2:M:714:ASP:HB2	2:M:818:GLY:O	2.17	0.45
3:N:873:LEU:HD21	8:N:2008:HOH:O	2.17	0.45
4:O:32:ARG:NH2	8:O:1198:HOH:O	2.49	0.45
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.99	0.45
3:N:376:GLU:HA	3:N:384:VAL:HA	1.98	0.45
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.47	0.45
2:M:188:LYS:HB2	8:M:9908:HOH:O	2.17	0.45
2:M:431:HIS:CG	2:M:432:ARG:N	2.85	0.45
2:C:1092:LEU:HA	2:C:1095:LEU:CD1	2.40	0.45
3:D:546:ARG:NH2	3:D:550:ARG:NH2	2.65	0.45
3:N:126:VAL:HG12	3:N:127:LEU:N	2.32	0.45
3:D:750:PRO:HG2	3:D:756:GLN:OE1	2.16	0.45
2:C:474:VAL:HG22	2:C:474:VAL:O	2.17	0.45
1:B:136:GLY:HA3	8:B:9645:HOH:O	2.17	0.45
1:K:143:ARG:NH1	1:K:143:ARG:CG	2.70	0.45
2:C:273:GLY:HA2	2:C:276:LYS:CD	2.45	0.45
2:C:458:TYR:HB3	2:C:470:PRO:CG	2.40	0.45
2:M:263:ASP:CB	2:M:264:PRO:CD	2.95	0.45
3:N:899:LEU:HB2	3:N:917:GLN:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:196:LEU:HD23	2:M:200:LEU:HD11	1.98	0.45
3:N:1271:LYS:HE3	3:N:1334:GLN:NE2	2.31	0.45
2:C:666:LEU:HD11	2:C:668:LEU:HD21	1.99	0.45
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.98	0.45
3:N:1066:THR:OG1	3:N:1067:VAL:N	2.50	0.45
3:N:996:TRP:HB3	3:N:1044:LEU:HD11	1.99	0.45
2:M:749:VAL:HG11	2:M:755:LEU:HD21	1.98	0.45
3:D:107:ASP:O	3:D:108:VAL:C	2.55	0.45
3:N:67:ARG:HD3	8:N:2440:HOH:O	2.17	0.45
3:D:1212:ALA:HB1	8:D:9608:HOH:O	2.17	0.45
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.98	0.45
3:N:1485:GLN:HB2	8:N:2421:HOH:O	2.17	0.45
2:C:752:GLY:H	2:C:792:VAL:HB	1.81	0.45
3:N:249:TYR:HA	8:N:2240:HOH:O	2.16	0.45
2:C:324:ASP:HB2	8:C:9878:HOH:O	2.15	0.45
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.98	0.45
2:C:1097:LEU:HA	2:C:1097:LEU:HD13	1.69	0.45
2:C:1115:LEU:HD22	3:D:88:TYR:HD1	1.82	0.45
3:N:107:ASP:O	3:N:108:VAL:C	2.55	0.45
2:M:1005:MET:CE	3:N:648:MET:HB2	2.47	0.45
2:M:939:ARG:NH1	2:M:981:GLU:HG2	2.32	0.45
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.17	0.45
4:E:41:GLU:HA	4:E:45:ARG:HG3	1.97	0.45
3:D:1460:ILE:HG23	8:D:9667:HOH:O	2.16	0.45
3:D:9:ARG:CZ	3:D:11:ALA:HB2	2.47	0.45
2:C:67:ASP:O	2:C:98:LEU:HD23	2.16	0.45
2:M:460:ARG:NH2	8:M:9519:HOH:O	2.50	0.45
3:N:78:VAL:HG12	8:N:2191:HOH:O	2.17	0.45
2:M:1095:LEU:HD13	3:N:103:TRP:CH2	2.52	0.45
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.99	0.45
3:N:600:LEU:HD23	8:N:9783:HOH:O	2.16	0.45
1:K:123:MET:HE3	1:K:203:GLY:O	2.17	0.45
3:D:1213:ARG:HD3	8:D:9784:HOH:O	2.16	0.45
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.81	0.45
2:C:148:PHE:CZ	2:C:309:TYR:HB3	2.52	0.45
2:M:101:ILE:HD12	2:M:107:LEU:HD22	1.98	0.45
3:N:1271:LYS:HZ3	3:N:1273:VAL:HG12	1.82	0.45
5:P:142:ARG:HD3	5:P:150:THR:OG1	2.17	0.45
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.99	0.45
1:L:109:VAL:HG23	1:L:132:LEU:HD13	1.99	0.45
2:M:710:ILE:CG2	2:M:823:VAL:HB	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:89:PHE:HB2	1:K:94:LEU:HD22	1.99	0.45
2:M:122:THR:HG22	2:M:123:GLU:N	2.32	0.45
2:M:881:ASN:N	2:M:881:ASN:ND2	2.65	0.45
2:C:484:VAL:HG11	8:C:2006:HOH:O	2.17	0.45
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.17	0.45
1:L:19:GLU:O	1:L:207:PRO:HG3	2.16	0.45
3:N:529:GLN:HA	8:N:9957:HOH:O	2.15	0.45
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.82	0.45
5:P:222:ARG:HB3	5:P:242:TRP:CE3	2.52	0.45
5:F:271:LEU:HD23	5:F:295:MET:HG3	1.99	0.45
2:M:625:LEU:CD1	2:M:641:PRO:HG3	2.47	0.45
5:P:114:LYS:HG3	8:P:9525:HOH:O	2.16	0.45
2:C:1118:LYS:NZ	8:C:2317:HOH:O	2.48	0.45
5:P:276:ARG:HG3	5:P:276:ARG:NH1	2.31	0.45
2:C:243:ARG:HG2	2:C:243:ARG:HH11	1.82	0.45
2:C:984:GLU:HG2	2:C:984:GLU:H	1.37	0.45
3:D:819:GLY:O	3:D:822:ALA:HB3	2.16	0.45
3:D:1306:PRO:HG2	8:D:2005:HOH:O	2.17	0.45
5:P:411:HIS:HB2	5:P:414:ARG:NE	2.31	0.45
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.99	0.45
3:D:166:GLN:HB3	3:D:395:VAL:HG21	1.99	0.45
2:M:375:SER:HA	8:M:9662:HOH:O	2.16	0.45
2:M:444:PRO:HD3	2:M:452:ILE:O	2.17	0.45
3:D:135:LEU:HD21	3:D:452:ILE:CD1	2.47	0.45
5:F:291:ILE:HG23	5:F:292:ALA:N	2.31	0.45
3:N:583:ASP:OD1	3:N:604:THR:CB	2.58	0.45
5:F:148:LYS:O	5:F:148:LYS:CD	2.58	0.45
2:M:393:GLN:HE21	2:M:409:ARG:HH12	1.63	0.45
5:P:288:TYR:C	5:P:291:ILE:HG22	2.37	0.45
3:N:914:LEU:HD22	3:N:930:LEU:HD21	1.99	0.45
2:C:666:LEU:HD12	2:C:667:ALA:H	1.82	0.45
3:D:674:ARG:HG2	3:D:674:ARG:HH11	1.82	0.45
1:K:39:PRO:CG	1:L:39:PRO:HG2	2.43	0.45
1:A:50:GLY:HA3	1:A:171:PHE:O	2.17	0.45
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.83	0.45
2:M:1006:HIS:HA	2:M:1027:PHE:CZ	2.51	0.45
4:O:94:PRO:HG3	8:O:4486:HOH:O	2.17	0.45
5:P:209:PHE:CE2	5:P:213:ILE:HD11	2.52	0.45
1:B:107:LYS:HG2	1:B:108:GLU:N	2.32	0.45
3:N:1148:VAL:HG23	3:N:1165:TYR:CD2	2.51	0.45
3:N:778:LEU:HA	3:N:778:LEU:HD12	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:265:ARG:HB3	8:M:9905:HOH:O	2.16	0.45
3:N:1126:ASP:OD1	3:N:1129:THR:O	2.35	0.45
2:C:525:SER:HA	8:C:9516:HOH:O	2.16	0.45
2:C:551:GLU:HG3	2:C:551:GLU:H	1.38	0.45
4:E:27:ALA:HB2	4:E:61:GLU:HB3	1.99	0.45
3:N:240:GLU:O	3:N:242:LEU:N	2.50	0.45
3:D:1102:THR:HG22	3:D:1102:THR:O	2.16	0.45
2:C:774:LEU:CD1	5:F:421:PHE:HE2	2.24	0.44
5:P:367:MET:HE3	5:P:371:LEU:HD11	1.99	0.44
2:C:352:ALA:C	2:C:355:VAL:HG12	2.37	0.44
3:N:141:ILE:H	3:N:141:ILE:HD12	1.80	0.44
3:N:433:GLY:HA3	8:N:2094:HOH:O	2.17	0.44
3:N:1209:LEU:HD21	3:N:1216:SER:HB2	1.99	0.44
3:D:146:PRO:HB2	8:D:9853:HOH:O	2.17	0.44
4:O:3:GLU:HB3	8:O:1282:HOH:O	2.17	0.44
3:N:486:ARG:CA	3:N:489:ARG:HD3	2.47	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.31	0.44
2:M:264:PRO:CB	2:M:289:THR:CB	2.94	0.44
2:M:266:ARG:CD	2:M:273:GLY:HA3	2.47	0.44
3:N:1341:PRO:HD2	3:N:1342:GLU:OE2	2.17	0.44
3:N:1457:ASP:OD1	3:N:1457:ASP:C	2.55	0.44
2:M:41:ASN:HD22	2:M:41:ASN:C	2.21	0.44
2:C:136:ILE:HD11	8:C:9659:HOH:O	2.17	0.44
2:C:625:LEU:O	2:C:627:ARG:N	2.50	0.44
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.32	0.44
2:M:3:ILE:HA	2:M:3:ILE:HD13	1.81	0.44
1:L:27:PRO:HG2	1:L:186:LEU:CD1	2.46	0.44
2:C:926:PHE:HD1	8:C:9628:HOH:O	2.00	0.44
1:B:81:ASN:ND2	8:B:9514:HOH:O	2.50	0.44
2:C:486:MET:HG2	8:C:9678:HOH:O	2.16	0.44
3:D:1336:LEU:HD13	3:D:1344:VAL:HG21	1.99	0.44
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.98	0.44
3:D:695:ILE:HG22	8:D:2155:HOH:O	2.17	0.44
3:N:683:ILE:CG2	3:N:687:VAL:HG21	2.47	0.44
1:L:115:LEU:HB3	8:L:2300:HOH:O	2.16	0.44
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.47	0.44
2:C:230:ARG:HA	2:C:231:PRO:HD3	1.57	0.44
2:C:544:THR:HG22	2:C:547:ILE:HD12	1.99	0.44
5:F:358:LEU:O	5:F:358:LEU:HD23	2.17	0.44
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.52	0.44
3:N:1045:MET:SD	3:N:1073:SER:HB2	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:433:THR:O	2:M:437:ARG:HG3	2.17	0.44
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.30	0.44
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.82	0.44
3:D:637:LEU:HD11	3:D:642:CYS:CA	2.46	0.44
3:D:729:HIS:ND1	3:D:730:PRO:N	2.66	0.44
2:M:939:ARG:HH11	2:M:981:GLU:HG2	1.82	0.44
3:N:436:GLU:HB2	3:N:445:ARG:CB	2.45	0.44
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.99	0.44
2:C:67:ASP:HA	8:C:9488:HOH:O	2.17	0.44
3:D:1097:LYS:HG2	3:D:1097:LYS:H	1.47	0.44
4:E:51:LEU:CG	4:E:53:GLY:H	2.21	0.44
3:N:826:PRO:CD	3:N:829:VAL:HG22	2.41	0.44
3:N:807:ALA:HB1	8:N:2335:HOH:O	2.17	0.44
2:C:89:THR:CA	2:C:129:ILE:O	2.61	0.44
2:M:775:ARG:O	2:M:779:GLY:C	2.55	0.44
2:M:190:LYS:HE2	8:M:2075:HOH:O	2.17	0.44
2:C:843:HIS:NE2	2:C:887:GLU:OE2	2.50	0.44
3:D:447:VAL:HG23	3:D:448:GLU:N	2.32	0.44
3:N:830:ALA:HB2	8:N:9597:HOH:O	2.17	0.44
3:N:1487:VAL:HG21	4:O:79:LEU:HG	2.00	0.44
2:M:858:MET:HB2	2:M:859:PRO:HD2	1.98	0.44
1:A:156:HIS:CD2	1:A:157:GLY:H	2.35	0.44
2:M:136:ILE:CD1	2:M:392:SER:HB2	2.43	0.44
2:M:557:ARG:NE	2:M:560:MET:SD	2.90	0.44
3:N:1148:VAL:HG23	3:N:1165:TYR:CE2	2.52	0.44
3:N:75:ARG:HD3	8:N:2038:HOH:O	2.17	0.44
5:F:415:THR:CG2	5:F:417:LYS:NZ	2.80	0.44
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.52	0.44
2:C:772:ARG:NH2	8:C:2204:HOH:O	2.49	0.44
5:P:358:LEU:CD2	5:P:370:LYS:NZ	2.78	0.44
3:N:1057:VAL:CG1	3:N:1069:GLU:HB3	2.47	0.44
5:P:416:ARG:HH11	5:P:419:ARG:CB	2.27	0.44
5:P:94:LEU:HD12	5:P:97:GLU:H	1.82	0.44
2:C:49:ARG:HB3	8:C:9834:HOH:O	2.18	0.44
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.58	0.44
3:D:207:PHE:HB3	3:D:208:PRO:CD	2.42	0.44
3:N:710:ARG:NH1	3:N:1210:SER:OG	2.50	0.44
3:D:127:LEU:HD12	3:D:457:GLY:H	1.82	0.44
2:M:411:SER:CB	2:M:452:ILE:HG23	2.47	0.44
2:C:260:LEU:HB2	2:C:291:ALA:HB1	2.00	0.44
2:M:172:ILE:HG22	2:M:173:ASP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:51:LEU:HB2	8:E:9429:HOH:O	2.17	0.44
2:M:559:LEU:CD1	2:M:563:ASN:ND2	2.81	0.44
1:A:83:LYS:NZ	2:C:698:ASP:OD2	2.50	0.44
3:D:1209:LEU:O	3:D:1210:SER:C	2.53	0.44
2:C:627:ARG:HD2	8:C:2176:HOH:O	2.17	0.44
5:P:278:LEU:HB3	5:P:286:PRO:HG2	2.00	0.44
1:B:81:ASN:HB2	8:B:9519:HOH:O	2.18	0.44
1:A:9:PRO:HG2	1:B:224:TYR:CG	2.53	0.44
3:N:1062:ARG:HH11	3:N:1062:ARG:HG3	1.83	0.44
2:C:722:ILE:HG21	2:C:821:GLU:OE1	2.18	0.44
3:N:194:GLY:N	3:N:206:ARG:HD3	2.32	0.44
2:M:588:VAL:HG23	2:M:589:ARG:N	2.31	0.44
3:D:804:LEU:HD12	3:D:831:GLY:HA3	1.99	0.44
3:D:964:LEU:O	3:D:968:ASP:HB2	2.17	0.44
2:M:71:TYR:O	2:M:71:TYR:CG	2.70	0.44
2:M:1037:VAL:HG12	2:M:1041:GLU:CD	2.36	0.44
2:C:1024:LYS:HB2	2:C:1024:LYS:HE3	1.88	0.44
3:N:796:ARG:H	3:N:796:ARG:HG2	1.59	0.44
3:N:1504:GLU:HB2	8:N:2110:HOH:O	2.16	0.44
5:P:110:MET:HE1	8:P:9585:HOH:O	2.17	0.44
3:D:937:TYR:HA	3:D:940:THR:OG1	2.17	0.44
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.98	0.44
3:N:3:LYS:HG2	3:N:3:LYS:H	1.37	0.44
2:M:326:ASP:HB3	2:M:431:HIS:CG	2.52	0.44
3:N:524:LEU:O	3:N:526:PRO:HD3	2.18	0.44
3:D:521:PRO:O	3:D:525:ARG:HG2	2.18	0.44
3:D:103:TRP:HZ2	3:D:604:THR:HG1	1.62	0.44
2:C:205:GLU:O	2:C:209:ARG:HD2	2.18	0.44
3:D:637:LEU:HD11	3:D:643:GLY:N	2.32	0.44
3:D:716:PHE:CE2	3:D:765:SER:HB3	2.53	0.44
3:D:680:GLN:O	3:D:683:ILE:HG13	2.18	0.44
3:D:565:ILE:HD13	5:F:192:LEU:HD13	2.00	0.44
3:N:1202:GLN:HE21	3:N:1202:GLN:HB2	1.62	0.44
2:C:1085:PHE:CE2	3:D:1468:LEU:HD23	2.53	0.44
3:D:1101:VAL:O	3:D:1374:GLN:HG3	2.17	0.44
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.99	0.44
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.48	0.44
1:A:81:ASN:ND2	1:A:128:HIS:O	2.51	0.44
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.40	0.44
2:M:259:GLY:O	2:M:290:LEU:O	2.34	0.44
3:D:30:GLU:CB	3:D:40:GLU:HB3	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.83	0.44
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.49	0.44
3:D:1286:THR:CG2	3:D:1287:GLU:H	2.30	0.44
2:M:610:ARG:CZ	8:M:2156:HOH:O	2.65	0.44
3:N:153:LEU:N	3:N:153:LEU:HD23	2.33	0.44
2:C:175:GLU:HB3	2:C:183:SER:OG	2.17	0.44
2:C:630:ARG:HH21	2:C:707:ARG:N	2.15	0.44
5:P:122:LEU:HG	5:P:126:LEU:HD23	1.98	0.44
4:O:28:GLN:HG2	8:O:1198:HOH:O	2.16	0.44
5:F:328:PHE:HA	5:F:328:PHE:HD2	1.71	0.44
5:P:89:GLY:HA3	8:P:9699:HOH:O	2.16	0.44
2:M:1109:VAL:HG13	3:N:3:LYS:O	2.18	0.44
3:N:137:PRO:HA	8:N:9761:HOH:O	2.17	0.44
3:N:86:ARG:HD3	3:N:523:ASP:OD1	2.17	0.44
3:N:11:ALA:HB1	3:N:507:ASN:CG	2.38	0.44
3:N:568:ARG:HB3	8:N:9947:HOH:O	2.17	0.44
5:P:419:ARG:O	5:P:421:PHE:N	2.51	0.44
2:M:516:ARG:CD	3:N:1068:LEU:HD22	2.48	0.44
3:N:649:ALA:HB3	3:N:691:LEU:HD21	1.99	0.44
5:P:105:LYS:HD3	5:P:183:ALA:HB2	1.99	0.44
3:D:699:VAL:HG12	3:D:717:GLN:HA	2.00	0.44
2:M:572:ILE:HG12	2:M:701:THR:O	2.18	0.44
4:E:46:PRO:HB3	4:E:54:LEU:CD2	2.47	0.44
3:N:1413:THR:O	3:N:1413:THR:HG22	2.17	0.44
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.83	0.44
3:D:1464:GLU:HA	3:D:1467:ILE:CD1	2.47	0.44
3:D:1462:LEU:HD21	3:D:1474:ALA:HB2	1.99	0.44
2:C:737:LEU:HA	2:C:743:VAL:HA	1.99	0.44
2:M:1097:LEU:HD13	2:M:1097:LEU:H	1.83	0.44
3:D:806:PHE:O	3:D:807:ALA:C	2.55	0.44
5:F:188:ILE:HD13	5:F:221:ILE:HG12	1.99	0.44
3:N:602:SER:O	3:N:605:ASP:HB2	2.17	0.44
3:N:988:ARG:CZ	3:N:992:ILE:HD11	2.47	0.44
5:F:88:ILE:HD13	5:F:193:ARG:HD3	1.98	0.44
3:N:1475:GLY:HA2	8:N:9507:HOH:O	2.17	0.44
3:D:1241:PHE:CD2	3:D:1260:ILE:HG13	2.51	0.44
2:C:106:GLY:O	2:C:107:LEU:HD23	2.17	0.44
2:C:843:HIS:HD2	2:C:884:GLN:CA	2.31	0.44
1:A:158:ILE:HD13	1:A:158:ILE:HA	1.83	0.44
3:N:955:VAL:HA	8:N:2329:HOH:O	2.17	0.44
2:M:1019:GLN:HE22	3:N:621:LYS:CG	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:347:GLN:O	5:P:351:SER:HB2	2.16	0.44
2:M:841:ASN:ND2	2:M:843:HIS:N	2.65	0.44
2:C:950:LEU:HG	2:C:952:LEU:HD23	2.00	0.44
1:L:150:TYR:HH	3:N:843:PHE:HE2	1.62	0.44
5:F:260:ILE:CG1	5:F:264:MET:HB2	2.46	0.44
5:F:270:LYS:HB3	5:F:295:MET:SD	2.57	0.44
3:D:1095:THR:HG23	3:D:1226:ALA:O	2.18	0.44
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.53	0.44
3:D:1133:ARG:HB3	8:D:9645:HOH:O	2.17	0.44
2:M:679:PHE:O	2:M:681:GLY:N	2.43	0.44
2:C:755:LEU:HD11	2:C:792:VAL:HG22	1.98	0.44
2:M:115:LEU:H	2:M:115:LEU:HG	1.53	0.44
2:M:776:SER:HA	2:M:780:GLU:HB2	2.00	0.44
5:F:158:GLU:HA	5:F:161:GLN:CD	2.37	0.44
5:P:358:LEU:CD1	5:P:370:LYS:HZ2	2.30	0.44
1:K:5:LYS:O	1:K:8:ALA:CB	2.64	0.44
3:N:87:ARG:CG	3:N:88:TYR:N	2.79	0.44
3:D:589:ALA:HA	8:D:9687:HOH:O	2.17	0.44
5:P:385:GLU:O	5:P:397:ILE:HD13	2.18	0.44
2:M:368:THR:CB	2:M:369:PRO:CD	2.96	0.44
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.16	0.44
3:N:702:LEU:HB3	3:N:745:MET:HE2	1.99	0.44
2:C:264:PRO:HB3	2:C:289:THR:CB	2.48	0.44
2:M:569:VAL:HG12	2:M:996:LYS:O	2.18	0.44
5:F:301:ALA:N	8:F:9565:HOH:O	2.50	0.44
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.87	0.44
1:K:88:ARG:HD2	1:K:123:MET:HE1	2.00	0.44
3:N:786:ILE:HD13	3:N:1027:GLY:CA	2.48	0.44
3:N:786:ILE:HD11	3:N:908:LYS:HB3	1.98	0.44
3:N:1273:VAL:O	3:N:1273:VAL:HG23	2.18	0.44
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.17	0.44
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.79	0.44
3:N:1361:VAL:CG1	3:N:1363:LEU:HD23	2.48	0.44
3:D:179:VAL:HG12	3:D:183:GLU:OE2	2.18	0.44
2:M:12:VAL:HG13	2:M:13:ILE:HG12	1.99	0.44
1:K:9:PRO:CG	1:L:224:TYR:HB3	2.48	0.44
4:O:46:PRO:HG2	4:O:63:TRP:CD1	2.51	0.44
1:B:7:LYS:HG2	1:B:7:LYS:O	2.18	0.44
3:D:1359:GLN:HE21	3:D:1359:GLN:HB3	1.58	0.44
3:D:414:ARG:HA	8:D:9502:HOH:O	2.17	0.44
3:N:965:GLU:OE1	3:N:968:ASP:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1118:ILE:HA	3:N:1118:ILE:HD13	1.80	0.44
2:M:625:LEU:O	2:M:627:ARG:N	2.51	0.44
3:N:709:HIS:HD2	3:N:711:LEU:H	1.64	0.44
3:N:417:PRO:HA	5:P:168:LYS:HZ3	1.82	0.44
2:C:135:VAL:HB	2:C:406:HIS:HE1	1.81	0.44
3:D:714:GLN:HE22	3:D:735:ALA:CB	2.30	0.44
2:C:846:LYS:O	3:D:741:ASP:HB2	2.17	0.44
1:A:139:ASN:ND2	8:A:9489:HOH:O	2.50	0.44
1:B:166:PRO:HB2	8:B:9542:HOH:O	2.17	0.44
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.88	0.44
3:D:68:PHE:CZ	5:F:375:LEU:CD2	3.01	0.44
3:N:395:VAL:O	3:N:395:VAL:HG12	2.17	0.44
3:D:539:ASP:HA	8:D:2538:HOH:O	2.17	0.44
3:D:539:ASP:OD1	3:D:600:LEU:HD22	2.17	0.44
3:D:83:SER:O	3:D:86:ARG:HB3	2.16	0.44
3:D:88:TYR:HA	8:D:9471:HOH:O	2.17	0.44
3:N:430:ASP:HB2	3:N:432:TYR:CZ	2.51	0.44
2:M:1054:THR:CG2	2:M:1059:ASP:HB2	2.48	0.44
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.48	0.44
1:A:178:ALA:HB3	1:A:198:ARG:HG3	2.00	0.44
1:A:180:GLN:HE21	2:C:934:PHE:HB2	1.76	0.44
5:P:95:THR:C	5:P:96:LEU:HD23	2.38	0.44
3:N:1083:ASP:O	3:N:1087:ARG:CG	2.65	0.44
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.46	0.44
5:F:95:THR:HG22	5:F:96:LEU:HD23	1.99	0.44
3:N:806:PHE:O	3:N:807:ALA:C	2.56	0.44
5:P:316:SER:C	5:P:318:GLU:N	2.71	0.44
2:M:202:TYR:O	2:M:207:LEU:HD12	2.18	0.44
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.48	0.44
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.83	0.44
2:M:1006:HIS:HA	2:M:1027:PHE:CE2	2.53	0.44
2:M:687:ALA:CB	8:M:9693:HOH:O	2.66	0.44
3:N:660:LYS:HE3	3:N:693:GLU:OE1	2.18	0.44
1:K:11:PHE:HD2	8:L:679:HOH:O	2.00	0.44
3:D:177:ALA:HB1	3:D:199:LEU:CD1	2.47	0.44
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.65	0.44
3:N:764:LEU:HG	3:N:765:SER:N	2.33	0.44
3:D:960:LYS:HG2	3:D:964:LEU:CD1	2.47	0.44
3:N:566:ILE:HD11	5:P:192:LEU:HD21	2.00	0.44
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.16	0.44
2:C:775:ARG:O	2:C:779:GLY:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:394:ARG:HA	5:F:397:ILE:CD1	2.38	0.44
2:M:1108:PRO:O	3:N:3:LYS:HG3	2.16	0.44
5:P:411:HIS:HA	5:P:414:ARG:HE	1.82	0.44
2:C:203:ASP:OD1	2:C:206:THR:HB	2.18	0.44
4:E:44:GLU:O	4:E:45:ARG:HD3	2.17	0.44
2:M:474:VAL:HA	2:M:478:VAL:O	2.18	0.44
3:D:423:ASP:OD1	5:F:175:HIS:CE1	2.71	0.44
2:M:428:ARG:HA	2:M:450:GLY:HA3	1.99	0.44
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.56	0.44
2:C:272:ALA:O	2:C:276:LYS:HD2	2.17	0.44
2:M:1115:LEU:HB3	8:N:9574:HOH:O	2.17	0.44
5:F:93:LEU:HG	5:F:190:ALA:HB3	1.98	0.44
3:D:138:LYS:HA	8:D:2105:HOH:O	2.18	0.44
3:N:178:LEU:HD22	8:N:9638:HOH:O	2.18	0.44
1:A:111:ALA:HB3	1:A:124:ASN:O	2.18	0.44
1:K:19:GLU:O	1:K:207:PRO:HG3	2.18	0.44
3:D:210:ARG:CD	3:D:398:ALA:HB3	2.40	0.44
3:D:202:VAL:HG22	8:D:2526:HOH:O	2.18	0.44
3:D:959:GLU:HG3	3:D:1006:ALA:HB1	1.99	0.44
3:D:661:MET:HE1	3:D:677:LEU:HD21	2.00	0.44
2:M:859:PRO:HB3	2:M:974:LEU:HD23	1.99	0.44
3:N:1197:ARG:HB2	3:N:1396:GLU:CG	2.48	0.44
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.83	0.44
2:M:685:GLU:CB	8:N:2331:HOH:O	2.66	0.44
3:N:528:VAL:HG12	3:N:529:GLN:N	2.33	0.44
2:C:301:GLU:O	2:C:305:PRO:HG2	2.17	0.44
3:N:93:ILE:HD13	3:N:547:LEU:HD23	1.98	0.44
3:N:669:ASN:OD1	3:N:672:ALA:HB2	2.18	0.44
1:L:66:SER:O	1:L:75:VAL:HG23	2.18	0.44
2:C:775:ARG:CZ	2:C:782:ALA:CB	2.96	0.44
5:F:385:GLU:O	5:F:397:ILE:HD13	2.17	0.44
2:C:367:LEU:HA	2:C:371:LYS:HB2	2.00	0.44
3:N:413:ASP:OD1	3:N:421:LEU:HD13	2.16	0.44
2:M:1054:THR:HG23	2:M:1059:ASP:HB2	1.99	0.44
2:C:204:GLN:NE2	8:C:9840:HOH:O	2.51	0.44
3:D:631:ILE:CG2	3:D:745:MET:HB2	2.48	0.44
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.18	0.44
3:N:704:ARG:HE	3:N:705:ALA:H	1.64	0.44
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.99	0.44
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.44
3:D:1389:LEU:HD12	8:D:2466:HOH:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1026:SER:C	3:N:1028:ALA:H	2.21	0.44
5:F:181:GLU:OE2	5:F:184:ARG:HD3	2.18	0.44
1:B:156:HIS:CD2	1:B:157:GLY:N	2.85	0.44
5:P:328:PHE:HD1	8:P:9750:HOH:O	2.00	0.44
1:K:151:VAL:HG22	8:K:3959:HOH:O	2.18	0.44
2:C:148:PHE:HB2	2:C:313:LEU:HD22	1.99	0.44
2:C:158:TYR:HE1	2:C:313:LEU:O	2.01	0.44
2:M:198:ARG:NH2	2:M:203:ASP:HB3	2.33	0.44
2:M:974:LEU:HD11	2:M:989:VAL:HG11	2.00	0.44
2:C:1021:LEU:CD2	5:F:332:PHE:HA	2.48	0.44
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.33	0.44
1:K:47:SER:CB	1:K:217:ILE:HD13	2.47	0.44
2:C:462:ASP:CG	2:C:463:GLU:N	2.71	0.44
3:D:998:GLU:O	3:D:1002:LYS:HG3	2.18	0.44
1:K:64:GLU:OE2	1:K:76:VAL:HG22	2.18	0.44
1:B:165:ILE:HG13	1:B:165:ILE:O	2.18	0.44
3:N:34:TYR:O	3:N:35:ARG:C	2.55	0.44
3:D:605:ASP:OD1	3:D:605:ASP:N	2.50	0.44
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.83	0.44
3:N:1223:ILE:O	3:N:1227:GLN:HG3	2.18	0.44
2:M:168:ARG:NH1	8:M:9881:HOH:O	2.50	0.44
3:D:128:TYR:HB3	3:D:129:PHE:CD1	2.52	0.44
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	2.00	0.44
5:F:405:LEU:O	5:F:408:LEU:CD2	2.65	0.43
2:C:1091:GLU:O	3:D:603:LEU:HD22	2.17	0.43
3:N:131:LYS:HE3	8:N:9947:HOH:O	2.17	0.43
5:P:411:HIS:CA	5:P:414:ARG:HE	2.31	0.43
2:M:368:THR:CB	2:M:369:PRO:HD3	2.39	0.43
1:A:177:VAL:O	2:C:864:GLY:CA	2.65	0.43
2:M:287:GLY:O	2:M:288:ARG:C	2.56	0.43
2:M:118:ILE:HG12	2:M:118:ILE:O	2.17	0.43
2:M:1000:MET:CE	2:M:1001:VAL:HG22	2.48	0.43
2:M:1005:MET:SD	3:N:648:MET:HB2	2.58	0.43
2:M:163:ILE:O	2:M:163:ILE:HG12	2.17	0.43
3:D:1394:VAL:HG23	8:D:2077:HOH:O	2.17	0.43
2:M:18:LEU:HD13	2:M:590:ASP:OD2	2.18	0.43
2:C:50:GLU:HG3	2:C:265:ARG:NH1	2.33	0.43
2:C:517:ARG:HD2	8:C:9983:HOH:O	2.17	0.43
1:A:83:LYS:HE3	1:A:167:VAL:HG12	2.00	0.43
3:D:1440:PHE:HB2	3:D:1442:ASN:ND2	2.32	0.43
3:N:1314:LYS:HZ3	3:N:1317:ASP:H	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:643:VAL:HG13	2:M:647:GLN:NE2	2.33	0.43
2:M:906:PHE:CD1	3:N:1067:VAL:HG13	2.53	0.43
3:D:786:ILE:HD11	3:D:908:LYS:HB2	2.00	0.43
1:A:44:LEU:HD23	1:A:48:ILE:CD1	2.48	0.43
1:A:191:ASP:O	1:A:191:ASP:CG	2.57	0.43
2:M:122:THR:HG22	2:M:124:ASP:H	1.83	0.43
2:C:94:LEU:CD1	8:C:9663:HOH:O	2.66	0.43
3:D:1487:VAL:HB	4:E:74:VAL:HB	1.99	0.43
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.83	0.43
2:M:24:GLU:HG2	8:M:9500:HOH:O	2.17	0.43
3:N:13:ALA:O	3:N:511:TRP:HB3	2.18	0.43
2:C:181:VAL:CG1	2:C:182:VAL:N	2.81	0.43
3:D:1114:THR:CG2	3:D:1114:THR:O	2.66	0.43
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.99	0.43
2:C:564:MET:HE3	2:C:564:MET:HA	1.99	0.43
3:D:1356:TYR:N	3:D:1356:TYR:CD1	2.86	0.43
4:E:55:PHE:H	4:E:55:PHE:HD2	1.65	0.43
3:N:689:ASP:HA	8:N:2043:HOH:O	2.18	0.43
2:C:787:ASP:N	8:C:2178:HOH:O	2.45	0.43
2:C:369:PRO:HA	8:C:2227:HOH:O	2.18	0.43
3:N:195:VAL:HG22	8:N:9862:HOH:O	2.18	0.43
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.82	0.43
3:D:22:SER:OG	3:D:23:TYR:N	2.51	0.43
3:D:584:ASN:HB3	8:D:9687:HOH:O	2.17	0.43
3:N:433:GLY:HA3	3:N:449:SER:O	2.17	0.43
2:C:676:ILE:HG22	2:C:988:VAL:HG13	1.99	0.43
2:C:987:ILE:HG12	3:D:948:THR:HG23	2.00	0.43
3:D:796:ARG:NH1	3:D:859:ASP:HB2	2.33	0.43
3:N:1096:ARG:CG	3:N:1096:ARG:NH1	2.81	0.43
3:N:1096:ARG:NH1	3:N:1096:ARG:HG2	2.33	0.43
2:C:413:LEU:H	2:C:413:LEU:CD1	2.18	0.43
3:D:1042:ARG:HG3	3:D:1042:ARG:O	2.18	0.43
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.99	0.43
3:D:399:ARG:CZ	8:D:2498:HOH:O	2.66	0.43
4:O:40:LEU:CG	4:O:67:GLU:HG2	2.48	0.43
3:D:1465:ASN:ND2	8:D:9954:HOH:O	2.51	0.43
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	2.16	0.43
2:C:129:ILE:HB	2:C:134:ARG:HD2	2.00	0.43
3:D:1209:LEU:C	3:D:1211:MET:N	2.70	0.43
3:D:470:LEU:HB2	3:D:503:LEU:HD21	2.00	0.43
2:C:1019:GLN:HB3	2:C:1019:GLN:HE21	1.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:177:ALA:HB1	3:N:199:LEU:CB	2.47	0.43
1:B:78:ILE:HG23	8:B:9503:HOH:O	2.17	0.43
2:M:771:GLU:HB2	8:M:9723:HOH:O	2.17	0.43
3:D:79:GLU:O	3:D:80:VAL:HB	2.18	0.43
2:M:353:ARG:HB3	8:M:2122:HOH:O	2.18	0.43
1:B:101:LEU:HA	8:B:9491:HOH:O	2.17	0.43
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.31	0.43
3:D:618:LEU:HA	3:D:618:LEU:HD23	1.69	0.43
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.83	0.43
2:C:885:ILE:HG13	3:D:949:ILE:HG22	2.00	0.43
1:A:161:ARG:NH1	1:A:161:ARG:HG3	2.33	0.43
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.49	0.43
4:O:4:PRO:HA	8:O:1112:HOH:O	2.18	0.43
2:M:29:ALA:HB2	2:M:337:GLY:HA3	2.01	0.43
1:B:137:ARG:HH12	1:B:139:ASN:HB3	1.83	0.43
3:N:530:VAL:HG12	3:N:531:ASP:N	2.33	0.43
2:M:1102:LEU:HD13	3:N:7:LYS:O	2.19	0.43
3:N:567:ILE:HG22	3:N:571:LYS:HZ2	1.83	0.43
3:N:568:ARG:NH2	8:N:2401:HOH:O	2.50	0.43
3:D:148:GLU:HB3	3:D:151:GLN:HG3	2.00	0.43
1:A:198:ARG:NH2	2:C:934:PHE:HE1	2.16	0.43
2:C:439:CYS:SG	2:C:441:VAL:N	2.91	0.43
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.48	0.43
2:C:720:GLU:HG2	2:C:760:SER:HB3	2.00	0.43
3:D:1171:VAL:HG12	3:D:1171:VAL:O	2.18	0.43
1:A:39:PRO:HG2	1:B:39:PRO:CG	2.46	0.43
3:D:1438:ALA:HB1	8:D:9745:HOH:O	2.17	0.43
3:N:1363:LEU:CD1	3:N:1368:ILE:HD11	2.49	0.43
3:D:480:GLU:HG2	3:D:492:ALA:HB2	2.00	0.43
3:D:396:VAL:HG13	3:D:447:VAL:CA	2.45	0.43
3:N:1487:VAL:HB	4:O:74:VAL:HB	2.01	0.43
2:M:578:VAL:HG11	2:M:991:GLN:OE1	2.18	0.43
1:A:133:GLU:CG	1:A:134:GLU:N	2.81	0.43
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.63	0.43
2:M:1014:SER:HA	2:M:1021:LEU:HD23	2.00	0.43
3:D:947:ILE:HD12	3:D:947:ILE:O	2.19	0.43
3:D:988:ARG:HH11	3:D:992:ILE:HD11	1.83	0.43
3:N:420:VAL:HG22	8:N:2309:HOH:O	2.16	0.43
4:E:6:ILE:HA	4:E:9:LEU:HD12	2.00	0.43
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.82	0.43
2:C:1:MET:N	8:C:2269:HOH:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:283:ILE:HG22	2:M:284:ARG:HG2	2.00	0.43
3:N:1406:ARG:HG2	8:N:9632:HOH:O	2.17	0.43
5:F:365:GLU:OE1	5:F:365:GLU:N	2.51	0.43
5:P:76:SER:O	5:P:77:THR:C	2.56	0.43
3:D:550:ARG:HG3	3:D:550:ARG:NH1	2.33	0.43
3:N:116:LEU:C	3:N:118:LEU:HD13	2.39	0.43
3:N:427:VAL:HB	3:N:435:VAL:HB	2.01	0.43
3:N:112:ILE:HG22	3:N:512:MET:CE	2.48	0.43
3:N:97:THR:HB	3:N:571:LYS:HD3	2.00	0.43
5:P:410:TYR:O	5:P:413:SER:HB2	2.18	0.43
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.41	0.43
2:C:533:ASP:HB3	2:C:538:GLN:NE2	2.33	0.43
5:F:164:LYS:HA	5:F:171:LYS:HZ3	1.83	0.43
4:O:45:ARG:NE	8:O:5067:HOH:O	2.51	0.43
2:M:559:LEU:HD22	8:M:9785:HOH:O	2.18	0.43
4:E:16:LYS:NZ	8:E:9422:HOH:O	2.50	0.43
5:P:85:LEU:HD22	5:P:193:ARG:CZ	2.48	0.43
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.49	0.43
3:D:144:GLY:HA2	8:D:9643:HOH:O	2.18	0.43
3:D:389:GLU:O	3:D:389:GLU:HG2	2.18	0.43
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.17	0.43
2:M:524:VAL:HG22	2:M:528:GLU:HB2	1.99	0.43
5:P:209:PHE:O	5:P:213:ILE:HG13	2.19	0.43
3:D:613:ARG:NH1	3:D:613:ARG:HG3	2.31	0.43
3:N:831:GLY:HA3	8:N:9675:HOH:O	2.18	0.43
3:D:614:PHE:CZ	3:D:1439:SER:O	2.71	0.43
2:M:1065:ALA:CB	2:M:1077:PRO:HG2	2.48	0.43
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.18	0.43
2:M:58:ASP:O	2:M:59:LYS:HG2	2.18	0.43
5:P:259:ARG:N	8:P:9565:HOH:O	2.51	0.43
3:D:700:VAL:HG22	3:D:718:PRO:HG3	2.00	0.43
1:L:188:GLN:HG2	1:L:188:GLN:H	1.52	0.43
4:O:2:ALA:N	8:O:1102:HOH:O	2.50	0.43
3:D:229:ALA:HB1	8:D:2446:HOH:O	2.18	0.43
2:C:110:GLU:CB	2:C:369:PRO:HG3	2.48	0.43
3:N:521:PRO:O	3:N:525:ARG:NH1	2.50	0.43
2:C:204:GLN:NE2	2:C:228:ALA:CB	2.81	0.43
3:D:853:VAL:HG22	3:D:858:VAL:O	2.19	0.43
2:M:1044:GLY:O	2:M:1046:ALA:N	2.51	0.43
5:F:278:LEU:CD1	5:F:290:GLU:HB3	2.36	0.43
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:970:LYS:NZ	8:N:9576:HOH:O	2.51	0.43
3:N:908:LYS:CB	3:N:1027:GLY:HA3	2.43	0.43
3:N:889:ALA:HB1	3:N:930:LEU:HA	2.01	0.43
5:P:85:LEU:HB3	8:P:9542:HOH:O	2.19	0.43
5:P:277:GLN:HB2	8:P:9578:HOH:O	2.18	0.43
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.28	0.43
3:D:470:LEU:H	3:D:470:LEU:HG	1.57	0.43
2:M:790:LEU:HD12	2:M:790:LEU:C	2.39	0.43
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.53	0.43
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.31	0.43
1:B:88:ARG:NH1	8:B:9511:HOH:O	2.52	0.43
3:N:849:ALA:O	3:N:853:VAL:HG23	2.18	0.43
3:D:1493:LYS:HG3	8:D:9756:HOH:O	2.17	0.43
2:M:181:VAL:HG12	2:M:182:VAL:N	2.32	0.43
1:K:219:ARG:NH1	1:K:220:GLU:HA	2.33	0.43
3:N:154:THR:CG2	3:N:155:ASP:N	2.82	0.43
3:N:792:ILE:HA	8:N:9873:HOH:O	2.19	0.43
3:N:1471:LEU:HD23	8:N:9651:HOH:O	2.19	0.43
2:M:945:ARG:NH2	8:M:9941:HOH:O	2.50	0.43
2:C:638:ASP:HB2	8:C:2064:HOH:O	2.19	0.43
2:M:917:LEU:HA	2:M:917:LEU:HD23	1.73	0.43
3:N:695:ILE:O	3:N:696:HIS:C	2.57	0.43
1:K:83:LYS:HD3	8:M:9621:HOH:O	2.16	0.43
5:P:408:LEU:C	5:P:408:LEU:HD23	2.39	0.43
5:F:402:ASN:OD1	5:F:402:ASN:N	2.50	0.43
1:L:6:LEU:C	1:L:8:ALA:N	2.71	0.43
3:N:23:TYR:O	3:N:24:GLY:O	2.37	0.43
2:C:1058:ASP:OD1	2:C:1083:GLU:N	2.52	0.43
2:C:1070:ILE:HD13	3:D:751:LEU:HD22	2.00	0.43
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.73	0.43
5:P:144:ILE:CB	5:P:145:PRO:HD3	2.48	0.43
3:D:148:GLU:HB3	3:D:151:GLN:CG	2.48	0.43
3:D:638:LYS:C	3:D:729:HIS:HD2	2.22	0.43
3:D:126:VAL:HG11	3:D:152:LEU:HD12	2.00	0.43
2:M:358:ARG:HH22	2:M:374:ASN:CG	2.21	0.43
3:N:950:GLY:C	3:N:952:ASP:N	2.70	0.43
2:C:602:GLU:HG2	2:C:603:VAL:N	2.34	0.43
2:C:643:VAL:HG22	8:C:2226:HOH:O	2.18	0.43
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.99	0.43
3:N:171:LEU:HA	3:N:172:PRO:HD2	1.56	0.43
2:M:441:VAL:HG13	2:M:442:GLU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HD11	2:C:758:ARG:HH21	1.84	0.43
2:C:129:ILE:HD11	2:C:386:PHE:CD2	2.53	0.43
2:C:22:GLN:HE21	2:C:22:GLN:HB3	1.70	0.43
1:K:44:LEU:HD21	1:K:199:ILE:HD13	2.01	0.43
2:M:44:ILE:HD11	2:M:340:MET:CE	2.49	0.43
2:C:595:LEU:HD13	2:C:639:GLN:OE1	2.19	0.43
2:C:669:GLY:O	2:C:670:GLN:HG3	2.19	0.43
2:C:672:VAL:HG23	2:C:868:ASP:CB	2.42	0.43
3:D:899:LEU:HD21	3:D:914:LEU:HD23	2.01	0.43
3:D:1243:THR:O	3:D:1269:LYS:HD2	2.18	0.43
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.79	0.43
2:C:594:ALA:N	8:C:9533:HOH:O	2.51	0.43
3:D:787:LEU:O	3:D:787:LEU:HD12	2.18	0.43
3:D:2:LYS:HB3	3:D:3:LYS:HD3	2.01	0.43
2:M:611:ILE:HD11	2:M:641:PRO:HB3	2.01	0.43
3:D:1476:THR:O	3:D:1476:THR:HG22	2.17	0.43
5:P:282:LEU:HD22	5:P:282:LEU:HA	1.82	0.43
2:C:479:VAL:HG21	2:C:503:LEU:HD11	2.00	0.43
2:C:630:ARG:HH21	2:C:707:ARG:H	1.66	0.43
3:D:1058:ARG:HH11	3:D:1058:ARG:CG	2.32	0.43
4:O:5:GLY:O	4:O:9:LEU:HG	2.18	0.43
3:D:240:GLU:O	3:D:243:ALA:N	2.50	0.43
2:M:395:LYS:HE2	2:M:403:SER:HB2	2.01	0.43
1:K:161:ARG:HH11	1:K:161:ARG:HG3	1.83	0.43
3:D:827:ILE:O	3:D:837:GLY:HA3	2.19	0.43
3:N:481:MET:SD	3:N:1388:ARG:CG	2.96	0.43
2:C:367:LEU:HA	2:C:371:LYS:CB	2.48	0.43
3:N:96:ALA:CB	3:N:554:LEU:HD12	2.47	0.43
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.53	0.43
2:M:1002:GLU:HG3	2:M:1003:ASP:N	2.33	0.43
3:D:1197:ARG:HD3	3:D:1396:GLU:CB	2.46	0.43
1:K:143:ARG:NH1	1:K:145:ASP:OD1	2.52	0.43
2:C:264:PRO:CB	2:C:289:THR:HB	2.49	0.43
3:D:806:PHE:HE1	3:D:809:PRO:O	2.01	0.43
2:M:454:SER:HB2	8:M:9853:HOH:O	2.18	0.43
3:N:609:GLY:HA3	3:N:613:ARG:HB3	2.01	0.43
2:C:281:LEU:HD11	2:C:306:THR:HA	2.00	0.43
2:M:197:LEU:HB3	2:M:202:TYR:HB2	2.01	0.43
2:M:216:GLU:O	2:M:218:VAL:N	2.51	0.43
2:M:727:PRO:CG	2:M:785:VAL:HG12	2.44	0.43
3:N:1116:ASN:N	3:N:1116:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.48	0.43
1:A:226:SER:HB2	8:A:9514:HOH:O	2.17	0.43
2:M:1056:LYS:HE2	3:N:623:VAL:CG1	2.48	0.43
3:N:41:ARG:O	3:N:42:ASP:C	2.57	0.43
2:C:94:LEU:HD11	8:C:9663:HOH:O	2.19	0.43
3:D:82:LYS:O	3:D:84:ILE:N	2.51	0.43
4:O:54:LEU:HG	4:O:58:PRO:CG	2.48	0.43
2:M:737:LEU:HD21	2:M:754:ILE:CG2	2.48	0.43
1:A:61:VAL:HG11	1:A:75:VAL:HG21	2.01	0.43
3:D:534:ARG:HG2	5:F:312:GLN:HE22	1.82	0.43
2:M:242:LEU:HD13	2:M:242:LEU:N	2.33	0.43
3:D:684:LYS:HD3	3:D:686:GLU:OE2	2.18	0.43
2:C:479:VAL:HB	2:C:503:LEU:HD11	2.00	0.43
2:M:330:ASN:HB3	8:M:2182:HOH:O	2.18	0.43
2:C:885:ILE:HD12	3:D:949:ILE:O	2.18	0.43
1:K:45:LEU:HD21	1:K:177:VAL:HG23	2.00	0.43
2:M:1030:GLN:OE1	3:N:628:ARG:HB2	2.18	0.43
3:D:580:ALA:O	3:D:602:SER:HB3	2.18	0.43
3:N:112:ILE:HG13	3:N:124:GLU:OE2	2.18	0.43
3:D:145:VAL:HG13	3:D:146:PRO:N	2.34	0.43
4:E:46:PRO:CB	4:E:54:LEU:CD2	2.97	0.43
3:D:421:LEU:HG	3:D:422:ALA:O	2.19	0.43
3:D:1026:SER:C	3:D:1028:ALA:H	2.22	0.43
2:M:569:VAL:HG13	2:M:569:VAL:O	2.18	0.43
3:N:214:GLU:HG2	3:N:215:TYR:CD1	2.54	0.43
5:F:288:TYR:C	5:F:291:ILE:HG22	2.39	0.43
5:P:166:LEU:HD13	5:P:170:HIS:HB2	2.00	0.43
3:N:820:GLU:HA	3:N:825:ALA:O	2.18	0.43
2:C:759:THR:HB	2:C:785:VAL:CG1	2.48	0.43
2:C:162:ILE:HB	2:C:172:ILE:CD1	2.49	0.43
2:M:101:ILE:HG23	2:M:107:LEU:CD2	2.41	0.43
2:C:979:THR:HG23	2:C:981:GLU:N	2.25	0.43
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.18	0.43
2:C:657:ASP:OD2	2:C:662:GLU:O	2.37	0.43
3:N:1487:VAL:HG12	3:N:1488:ASP:O	2.19	0.43
3:N:1396:GLU:HG2	3:N:1399:ASP:OD2	2.19	0.43
2:M:3:ILE:O	2:M:3:ILE:HG22	2.19	0.43
1:L:186:LEU:HD23	1:L:186:LEU:HA	1.79	0.43
1:A:55:SER:HB2	1:A:158:ILE:HG21	2.01	0.43
3:D:799:LYS:HE2	3:D:824:ASN:O	2.18	0.43
3:D:1275:SER:OG	3:D:1277:ILE:O	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.83	0.43
3:D:1353:GLN:O	3:D:1357:ARG:HD2	2.19	0.43
2:C:193:LEU:HG	2:C:307:LEU:HD22	2.01	0.43
3:D:1079:LYS:NZ	8:D:9833:HOH:O	2.52	0.43
3:N:1151:ARG:NH1	8:N:9821:HOH:O	2.52	0.43
3:D:1354:LYS:HE3	8:D:9873:HOH:O	2.18	0.43
2:M:984:GLU:H	2:M:984:GLU:HG2	1.68	0.43
2:C:1072:LYS:HD2	8:C:9885:HOH:O	2.19	0.43
5:P:198:ILE:HD11	5:P:240:THR:HA	2.01	0.43
5:P:249:ARG:HG3	5:P:253:ASP:OD2	2.19	0.43
1:B:62:LEU:HD12	1:B:62:LEU:H	1.83	0.43
3:D:889:ALA:HB1	3:D:930:LEU:HA	2.01	0.43
3:N:122:GLU:O	3:N:126:VAL:HB	2.19	0.43
1:A:182:GLU:OE2	2:C:934:PHE:HB3	2.17	0.43
2:M:999:HIS:HD2	8:M:2181:HOH:O	2.01	0.43
2:C:473:ARG:HG3	2:C:474:VAL:N	2.34	0.43
3:N:1093:TYR:O	3:N:1097:LYS:HG2	2.18	0.43
2:M:476:GLY:C	2:M:478:VAL:H	2.22	0.43
5:P:350:LEU:CD1	5:P:422:LEU:CB	2.92	0.43
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.54	0.43
2:C:146:VAL:HB	2:C:281:LEU:HD22	2.01	0.43
1:K:101:LEU:C	1:K:101:LEU:HD23	2.39	0.43
2:C:957:LYS:HG2	2:C:961:GLU:HB3	2.00	0.43
3:D:434:ARG:CB	3:D:447:VAL:HG22	2.45	0.43
3:D:704:ARG:HG3	3:D:705:ALA:N	2.34	0.43
2:C:748:GLU:CA	2:C:799:ILE:HG22	2.46	0.43
2:C:1021:LEU:C	8:C:2253:HOH:O	2.56	0.43
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	2.00	0.43
5:P:167:PRO:HB2	5:P:169:GLU:CD	2.39	0.43
2:C:950:LEU:HG	2:C:952:LEU:CD2	2.48	0.43
2:M:732:ALA:HA	2:M:735:ARG:NE	2.34	0.43
2:C:63:GLY:HA3	2:C:103:LYS:HG2	1.99	0.43
5:P:223:ALA:HB2	5:P:242:TRP:CB	2.49	0.43
1:B:61:VAL:HG22	8:B:9525:HOH:O	2.19	0.43
2:M:238:LEU:HD23	8:M:9936:HOH:O	2.19	0.43
5:F:156:VAL:N	8:F:9476:HOH:O	2.47	0.43
3:D:19:ARG:HD2	8:D:9545:HOH:O	2.18	0.43
3:D:937:TYR:HB3	3:D:941:PHE:CE1	2.54	0.43
4:O:37:ASN:C	8:O:691:HOH:O	2.57	0.43
2:M:525:SER:O	2:M:529:VAL:HG23	2.19	0.43
5:P:204:GLY:HA2	8:P:9767:HOH:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1499:ARG:O	3:D:1502:ALA:HB3	2.19	0.43
5:F:372:ARG:HA	5:F:372:ARG:HD2	1.75	0.43
3:N:141:ILE:HG22	3:N:142:LEU:N	2.34	0.43
3:N:427:VAL:O	3:N:433:GLY:O	2.37	0.43
3:N:422:ALA:CB	5:P:178:ARG:HH22	2.32	0.43
2:M:1055:LEU:N	2:M:1055:LEU:HD23	2.33	0.43
3:N:794:GLN:CA	3:N:879:ARG:HH12	2.31	0.43
2:M:309:TYR:HA	2:M:312:ALA:HB3	2.01	0.43
3:N:1083:ASP:O	3:N:1087:ARG:CD	2.67	0.43
3:D:572:ARG:O	3:D:575:GLN:HB3	2.19	0.43
4:O:45:ARG:HH12	4:O:72:ARG:HH21	1.66	0.43
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.99	0.43
3:D:1458:GLU:HB3	8:D:9556:HOH:O	2.18	0.43
3:D:9:ARG:HD2	8:D:2198:HOH:O	2.18	0.43
5:F:288:TYR:CE2	5:F:305:GLU:HA	2.53	0.43
5:P:170:HIS:HA	5:P:173:TYR:HD1	1.83	0.43
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.89	0.43
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.49	0.43
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.30	0.43
3:D:42:ASP:O	3:D:46:ASP:HB2	2.19	0.43
3:D:661:MET:HE3	3:D:673:ALA:HB1	2.01	0.43
2:M:906:PHE:CZ	3:N:1067:VAL:HA	2.53	0.43
1:A:48:ILE:HG22	1:A:173:PRO:HD2	2.00	0.43
2:C:299:LYS:O	2:C:299:LYS:HG3	2.19	0.43
3:N:693:GLU:HA	8:N:9582:HOH:O	2.19	0.43
2:C:1081:VAL:HB	2:C:1086:ARG:CZ	2.49	0.43
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.19	0.43
3:D:1416:ALA:HB2	8:D:9686:HOH:O	2.19	0.43
3:N:1373:ARG:HG2	3:N:1374:GLN:HE21	1.84	0.43
3:D:894:LYS:HB2	8:D:9522:HOH:O	2.19	0.43
3:D:1353:GLN:NE2	3:D:1365:ASP:OD2	2.52	0.43
2:C:200:LEU:HD22	2:C:300:ASP:OD1	2.19	0.43
2:M:889:HIS:NE2	2:M:970:GLY:HA3	2.34	0.43
3:D:949:ILE:HD11	3:D:1023:MET:HE1	2.01	0.43
2:C:395:LYS:O	2:C:633:GLN:NE2	2.52	0.43
3:N:1425:THR:HG21	8:N:2233:HOH:O	2.18	0.43
5:F:369:LEU:O	5:F:373:LYS:HG2	2.19	0.42
5:F:315:VAL:HG12	5:F:316:SER:N	2.34	0.42
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.49	0.42
1:A:177:VAL:HG12	1:A:178:ALA:N	2.34	0.42
4:E:72:ARG:N	8:E:9366:HOH:O	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:729:HIS:ND1	3:D:730:PRO:CD	2.82	0.42
3:D:169:TYR:HA	3:D:392:SER:HA	2.00	0.42
3:D:12:LEU:HD23	3:D:13:ALA:N	2.25	0.42
4:E:54:LEU:HA	4:E:58:PRO:CG	2.49	0.42
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.54	0.42
2:M:33:ASP:N	8:M:2159:HOH:O	2.52	0.42
1:A:219:ARG:HD3	8:A:9459:HOH:O	2.19	0.42
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.19	0.42
2:C:626:ARG:HG2	2:C:629:TYR:CE1	2.54	0.42
2:M:418:LEU:HD11	8:M:2225:HOH:O	2.19	0.42
1:K:107:LYS:HG2	1:K:108:GLU:N	2.34	0.42
2:C:673:LEU:HD23	2:C:867:VAL:HA	2.01	0.42
3:N:404:GLU:OE2	3:N:414:ARG:NH1	2.52	0.42
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.54	0.42
3:D:696:HIS:HD2	8:E:9410:HOH:O	2.01	0.42
1:A:101:LEU:C	1:A:101:LEU:HD23	2.40	0.42
3:D:1234:THR:HG23	8:D:2149:HOH:O	2.18	0.42
5:P:74:LYS:HD3	5:P:74:LYS:HA	1.87	0.42
2:M:879:ARG:NH1	3:N:1029:ARG:HH12	2.17	0.42
2:M:27:ARG:HG2	8:M:9618:HOH:O	2.18	0.42
5:F:416:ARG:HD2	5:F:419:ARG:HB3	2.01	0.42
5:P:361:LEU:HD21	5:P:408:LEU:CB	2.49	0.42
5:F:363:GLU:CG	5:F:364:ARG:N	2.82	0.42
2:M:1101:THR:O	2:M:1102:LEU:HD12	2.20	0.42
2:C:367:LEU:HD11	8:C:9627:HOH:O	2.18	0.42
3:N:166:GLN:N	8:N:9606:HOH:O	2.52	0.42
2:M:778:PHE:CE2	5:P:419:ARG:CD	2.98	0.42
2:C:217:LEU:HD12	2:C:311:PHE:CD2	2.54	0.42
2:M:516:ARG:CD	2:M:521:PRO:HA	2.49	0.42
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.38	0.42
3:D:399:ARG:NH2	8:D:2498:HOH:O	2.51	0.42
2:C:1105:LYS:O	2:C:1107:ASN:N	2.52	0.42
2:C:265:ARG:HA	2:C:289:THR:OG1	2.18	0.42
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.53	0.42
3:N:103:TRP:NE1	3:N:583:ASP:OD2	2.52	0.42
1:K:218:LEU:HD12	1:K:222:LEU:HD23	2.00	0.42
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.01	0.42
2:C:121:MET:HA	2:C:127:PHE:CD2	2.55	0.42
3:D:171:LEU:HA	3:D:172:PRO:HD3	1.59	0.42
2:C:575:GLN:HA	2:C:662:GLU:HG3	2.00	0.42
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:41:ARG:O	3:D:42:ASP:C	2.57	0.42
2:M:691:SER:CB	2:M:858:MET:SD	3.07	0.42
3:N:1320:GLU:H	3:N:1323:GLN:NE2	2.17	0.42
3:D:54:LYS:HA	8:D:9647:HOH:O	2.19	0.42
3:D:1487:VAL:HG12	3:D:1488:ASP:O	2.19	0.42
2:C:715:THR:HG22	2:C:717:LEU:HG	2.01	0.42
2:C:501:THR:O	2:C:502:PRO:C	2.57	0.42
3:D:960:LYS:HG2	3:D:964:LEU:HD12	2.00	0.42
1:A:96:THR:HG21	8:A:9543:HOH:O	2.19	0.42
2:M:432:ARG:HH22	3:N:1047:LYS:CE	2.31	0.42
3:N:152:LEU:HD23	3:N:152:LEU:H	1.83	0.42
2:C:203:ASP:O	2:C:207:LEU:HB2	2.18	0.42
2:C:217:LEU:HB2	2:C:311:PHE:CE2	2.54	0.42
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	2.01	0.42
3:D:1228:SER:O	3:D:1232:PRO:HD2	2.19	0.42
2:M:376:ARG:HH12	5:P:285:GLU:CG	2.31	0.42
2:M:279:GLU:HG3	2:M:280:LYS:N	2.33	0.42
2:C:12:VAL:CG1	2:C:534:VAL:HG13	2.49	0.42
5:F:79:ASP:HB3	5:F:80:PRO:HD2	2.01	0.42
2:C:346:VAL:O	2:C:350:ARG:HG3	2.19	0.42
3:D:433:GLY:HA3	3:D:449:SER:O	2.18	0.42
4:O:26:ARG:HH21	4:O:67:GLU:CD	2.22	0.42
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.19	0.42
2:M:695:LEU:HD21	2:M:833:LEU:O	2.19	0.42
2:C:572:ILE:CD1	2:C:701:THR:HB	2.49	0.42
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.84	0.42
2:M:207:LEU:HB3	2:M:221:LEU:HD21	2.00	0.42
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.83	0.42
3:D:483:HIS:ND1	3:D:483:HIS:N	2.67	0.42
3:D:991:GLN:HG2	8:D:9698:HOH:O	2.19	0.42
3:D:411:THR:CG2	3:D:429:SER:HB3	2.46	0.42
3:D:951:ILE:HG23	3:D:1062:ARG:NH2	2.34	0.42
2:C:607:ASP:HB2	2:C:610:ARG:H	1.83	0.42
3:N:55:ASP:OD2	3:N:82:LYS:HD3	2.18	0.42
3:N:1489:GLN:HE21	3:N:1489:GLN:HA	1.82	0.42
2:C:103:LYS:HD3	2:C:103:LYS:HA	1.56	0.42
3:D:601:ARG:HH22	3:D:611:GLN:H	1.68	0.42
1:B:108:GLU:HB3	1:B:128:HIS:CE1	2.54	0.42
3:D:695:ILE:O	3:D:696:HIS:C	2.56	0.42
3:N:1110:ALA:O	3:N:1111:ASP:C	2.54	0.42
3:N:194:GLY:O	3:N:196:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:TYR:CG	1:L:9:PRO:HG2	2.55	0.42
1:B:192:LEU:HD23	1:B:192:LEU:HA	1.84	0.42
2:C:564:MET:SD	2:C:846:LYS:HD2	2.59	0.42
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	2.01	0.42
3:N:1141:GLU:HB3	3:N:1168:MET:HE1	2.02	0.42
5:P:149:GLU:N	8:P:9479:HOH:O	2.52	0.42
2:M:1106:ASP:HA	3:N:7:LYS:HE3	2.00	0.42
1:K:1:MET:O	1:K:6:LEU:CB	2.47	0.42
2:C:110:GLU:HB3	8:C:9664:HOH:O	2.18	0.42
3:N:186:VAL:O	3:N:211:VAL:HB	2.20	0.42
3:N:119:SER:HB3	3:N:123:LEU:H	1.84	0.42
3:N:447:VAL:HG23	3:N:448:GLU:N	2.33	0.42
5:P:384:GLU:O	5:P:385:GLU:C	2.57	0.42
3:N:657:LEU:HD13	3:N:691:LEU:HA	2.02	0.42
3:D:884:ARG:HG3	8:D:9779:HOH:O	2.19	0.42
1:B:54:THR:CG2	1:B:158:ILE:HG13	2.33	0.42
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.83	0.42
2:M:276:LYS:CG	2:M:280:LYS:HE3	2.50	0.42
2:C:259:GLY:O	2:C:290:LEU:O	2.37	0.42
3:D:450:TYR:O	3:D:452:ILE:N	2.51	0.42
3:N:862:ASP:O	3:N:877:PRO:HD2	2.19	0.42
3:D:1210:SER:HA	8:D:2016:HOH:O	2.20	0.42
2:C:149:THR:HG23	2:C:150:PRO:HD2	2.02	0.42
2:C:578:VAL:HG11	2:C:991:GLN:HB3	2.01	0.42
2:C:605:LYS:HB2	2:C:610:ARG:NH1	2.34	0.42
3:N:658:LEU:O	3:N:661:MET:HB2	2.19	0.42
3:D:459:GLU:O	3:D:463:GLN:HG2	2.19	0.42
3:N:632:VAL:O	3:N:727:GLN:HA	2.19	0.42
1:L:11:PHE:CE2	1:L:13:VAL:HG22	2.54	0.42
1:K:139:ASN:ND2	8:K:5059:HOH:O	2.52	0.42
2:M:630:ARG:HE	2:M:707:ARG:HB2	1.84	0.42
3:N:1377:LYS:HG2	3:N:1378:TYR:CE1	2.54	0.42
2:M:182:VAL:HG23	8:M:2190:HOH:O	2.20	0.42
2:C:722:ILE:O	2:C:722:ILE:HG23	2.19	0.42
4:E:95:GLY:HA3	8:E:9401:HOH:O	2.19	0.42
3:N:1114:THR:O	3:N:1114:THR:HG22	2.19	0.42
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.19	0.42
2:C:2:GLU:HG2	8:C:9758:HOH:O	2.18	0.42
3:N:936:TYR:HB2	8:N:9603:HOH:O	2.19	0.42
4:E:37:ASN:HA	8:E:9378:HOH:O	2.19	0.42
1:B:95:GLN:HB3	8:B:9540:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:370:LYS:O	5:F:374:GLY:N	2.46	0.42
5:F:384:GLU:O	5:F:385:GLU:C	2.57	0.42
2:M:1109:VAL:HG22	3:N:3:LYS:CG	2.50	0.42
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.88	0.42
5:P:394:ARG:HA	5:P:397:ILE:CD1	2.39	0.42
3:D:1327:ARG:NH1	8:D:9696:HOH:O	2.52	0.42
3:D:168:THR:HB	3:D:393:ILE:CD1	2.49	0.42
2:M:129:ILE:CG2	2:M:130:ASN:N	2.82	0.42
3:N:1097:LYS:H	3:N:1097:LYS:HG2	1.47	0.42
2:M:473:ARG:NH2	8:M:9920:HOH:O	2.48	0.42
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.42
3:N:56:TYR:HA	3:N:80:VAL:CG2	2.49	0.42
3:D:147:VAL:HG11	8:D:2105:HOH:O	2.20	0.42
3:N:1434:TRP:CZ3	3:N:1455:LYS:O	2.73	0.42
1:A:42:ARG:CZ	2:C:857:ASP:HB3	2.50	0.42
2:C:701:THR:HG23	2:C:832:LYS:HG2	2.02	0.42
3:N:543:LEU:HA	3:N:546:ARG:HG3	2.01	0.42
1:K:94:LEU:HD13	8:K:742:HOH:O	2.20	0.42
2:M:250:ARG:HE	2:M:253:ALA:HB1	1.85	0.42
5:F:332:PHE:N	5:F:332:PHE:CD1	2.88	0.42
3:N:33:ASN:HB2	3:N:40:GLU:OE1	2.20	0.42
3:D:34:TYR:O	3:D:35:ARG:C	2.55	0.42
2:M:1105:LYS:H	2:M:1105:LYS:HG2	1.52	0.42
2:C:696:LYS:NZ	8:C:9599:HOH:O	2.44	0.42
3:N:462:GLN:CB	3:N:513:ILE:HD13	2.49	0.42
3:D:916:TYR:HD2	3:D:916:TYR:O	2.03	0.42
1:A:137:ARG:C	8:A:9482:HOH:O	2.57	0.42
3:D:1259:VAL:HG11	3:D:1356:TYR:OH	2.20	0.42
2:M:29:ALA:HB2	2:M:337:GLY:CA	2.50	0.42
2:C:830:LYS:HD3	8:C:2071:HOH:O	2.18	0.42
1:K:180:GLN:HG3	8:K:2871:HOH:O	2.19	0.42
3:N:607:LEU:HA	8:N:2216:HOH:O	2.19	0.42
5:F:363:GLU:CB	8:F:9704:HOH:O	2.67	0.42
2:M:139:GLN:N	8:M:9656:HOH:O	2.52	0.42
2:C:676:ILE:HG21	2:C:988:VAL:HG13	1.99	0.42
3:D:207:PHE:HE2	8:D:2157:HOH:O	2.01	0.42
4:E:41:GLU:HB3	8:E:9389:HOH:O	2.18	0.42
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.49	0.42
4:E:54:LEU:HG	4:E:58:PRO:CD	2.44	0.42
4:E:54:LEU:CD1	4:E:58:PRO:HB2	2.49	0.42
3:D:412:GLY:O	3:D:421:LEU:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:VAL:HG23	8:B:9516:HOH:O	2.20	0.42
1:B:86:VAL:HG13	1:B:86:VAL:O	2.20	0.42
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.34	0.42
2:C:264:PRO:CB	2:C:289:THR:CB	2.97	0.42
2:C:302:VAL:HG12	8:C:9742:HOH:O	2.19	0.42
2:M:38:LYS:HA	2:M:38:LYS:HD3	1.89	0.42
5:P:288:TYR:HE2	5:P:305:GLU:HG3	1.85	0.42
3:N:786:ILE:HD11	3:N:908:LYS:CB	2.49	0.42
3:N:1344:VAL:HG12	3:N:1348:LEU:HD23	2.00	0.42
2:M:858:MET:HB2	2:M:859:PRO:CD	2.50	0.42
3:D:785:ILE:HG23	3:D:938:GLY:HA3	2.02	0.42
3:N:661:MET:CE	3:N:673:ALA:HB1	2.50	0.42
2:C:683:ASN:CB	2:C:687:ALA:O	2.67	0.42
1:K:81:ASN:ND2	1:K:128:HIS:O	2.53	0.42
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.55	0.42
1:L:227:ASN:C	8:L:679:HOH:O	2.57	0.42
2:C:296:GLY:HA2	8:C:2264:HOH:O	2.19	0.42
2:C:1031:ARG:HD3	3:D:619:LEU:CD2	2.47	0.42
1:K:214:ALA:HA	1:K:217:ILE:HD12	2.00	0.42
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.54	0.42
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.49	0.42
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.02	0.42
2:C:44:ILE:HB	8:C:9525:HOH:O	2.18	0.42
2:C:80:GLN:O	2:C:83:CYS:HB2	2.19	0.42
2:M:552:HIS:ND1	2:M:886:LEU:HD13	2.35	0.42
3:D:910:SER:HB3	8:D:9734:HOH:O	2.19	0.42
3:D:1320:GLU:O	3:D:1323:GLN:HB2	2.19	0.42
3:N:552:ASN:HB3	8:N:9969:HOH:O	2.18	0.42
4:O:29:GLN:NE2	8:O:895:HOH:O	2.51	0.42
3:N:1008:PHE:CZ	3:N:1032:PRO:HA	2.55	0.42
3:N:228:ALA:HB2	8:N:9528:HOH:O	2.20	0.42
4:E:29:GLN:HB2	4:E:33:HIS:HD2	1.84	0.42
3:D:1219:GLU:O	3:D:1221:VAL:N	2.53	0.42
5:P:407:LYS:HG3	8:P:9714:HOH:O	2.19	0.42
2:M:431:HIS:CD2	2:M:433:THR:H	2.37	0.42
3:D:853:VAL:HG22	3:D:858:VAL:HB	2.02	0.42
2:M:1005:MET:O	2:M:1005:MET:HG3	2.20	0.42
3:N:701:LEU:O	3:N:747:VAL:HA	2.20	0.42
5:F:170:HIS:HA	5:F:173:TYR:HD1	1.84	0.42
3:N:51:GLY:HA3	8:N:9729:HOH:O	2.19	0.42
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:695:LEU:HD22	2:C:832:LYS:HE2	2.00	0.42
3:D:792:ILE:HG12	3:D:793:THR:HG23	2.00	0.42
2:C:399:ASN:ND2	2:C:568:ALA:O	2.49	0.42
2:M:578:VAL:HG11	2:M:991:GLN:HB3	2.01	0.42
2:C:1005:MET:HE2	3:D:629:SER:CB	2.49	0.42
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.20	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.49	0.42
3:N:739:ASP:HB2	8:N:2331:HOH:O	2.19	0.42
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.19	0.42
2:C:440:PRO:HB3	8:D:9725:HOH:O	2.19	0.42
5:P:113:ILE:HG23	5:P:127:ILE:HB	2.02	0.42
1:A:138:LEU:HB2	8:A:9482:HOH:O	2.19	0.42
3:N:645:PRO:HA	3:N:721:VAL:O	2.19	0.42
2:C:1118:LYS:HZ3	3:D:20:SER:HA	1.84	0.42
2:M:1037:VAL:HG11	8:M:9845:HOH:O	2.20	0.42
3:D:1342:GLU:HB2	8:D:2486:HOH:O	2.18	0.42
3:D:437:VAL:N	8:D:2096:HOH:O	2.52	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.85	0.42
1:L:44:LEU:HD23	1:L:48:ILE:CD1	2.50	0.42
2:C:157:ARG:HD2	2:C:314:THR:HG22	2.02	0.42
3:D:1237:THR:HG22	3:D:1238:MET:N	2.35	0.42
3:N:1389:LEU:O	3:N:1391:GLU:N	2.52	0.42
3:N:195:VAL:HG22	8:N:9660:HOH:O	2.18	0.42
5:P:413:SER:HG	5:P:419:ARG:HH21	1.63	0.42
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.85	0.42
3:D:152:LEU:CD2	3:D:152:LEU:N	2.83	0.42
3:D:569:ASN:OD1	5:F:80:PRO:HB3	2.20	0.42
3:D:427:VAL:O	3:D:433:GLY:O	2.38	0.42
3:D:435:VAL:HG22	3:D:446:VAL:HG22	2.01	0.42
2:C:978:ARG:HH11	2:C:978:ARG:HG3	1.85	0.42
3:N:978:TYR:CE1	3:N:985:ASP:HA	2.52	0.42
2:M:203:ASP:O	2:M:206:THR:HG22	2.19	0.42
2:C:626:ARG:HB3	2:C:629:TYR:HD1	1.85	0.42
1:L:109:VAL:HA	1:L:113:ASP:OD2	2.19	0.42
2:C:966:LEU:HD21	2:C:986:PRO:HG2	2.01	0.42
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.20	0.42
2:M:683:ASN:HD22	2:M:872:ASN:N	2.18	0.42
3:N:1044:LEU:HD13	8:N:9593:HOH:O	2.19	0.42
3:D:79:GLU:HG2	3:D:80:VAL:H	1.84	0.42
2:M:1071:ILE:HG23	3:N:670:VAL:CG2	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1398:TRP:HE3	3:N:1415:VAL:HG11	1.80	0.42
2:C:866:PRO:HB2	8:C:9715:HOH:O	2.20	0.42
3:N:1149:LEU:HD13	3:N:1153:VAL:HG23	2.01	0.42
2:C:1034:GLU:OE2	3:D:1096:ARG:NE	2.52	0.42
1:K:32:PHE:CG	8:K:1204:HOH:O	2.69	0.42
1:L:226:SER:O	1:L:228:PRO:HD3	2.20	0.42
3:D:113:GLY:CA	3:D:124:GLU:OE2	2.68	0.42
2:M:292:ARG:HD2	2:M:299:LYS:CD	2.49	0.42
3:N:1380:GLU:OE2	3:N:1390:LEU:HD13	2.19	0.42
1:L:142:VAL:HG23	1:L:142:VAL:O	2.19	0.42
5:F:223:ALA:HB2	5:F:242:TRP:HB2	2.01	0.42
3:N:708:LEU:HD21	3:N:1091:SER:OG	2.19	0.42
2:C:728:HIS:NE2	5:F:423:ASP:O	2.52	0.42
3:N:477:LEU:HD22	3:N:492:ALA:CB	2.45	0.42
3:D:23:TYR:O	3:D:24:GLY:O	2.38	0.42
2:C:1090:LYS:HZ1	3:D:90:MET:HG3	1.85	0.42
3:N:131:LYS:HD3	3:N:456:MET:CE	2.50	0.42
3:N:422:ALA:HB3	3:N:427:VAL:CG1	2.50	0.42
3:N:950:GLY:O	3:N:953:ASP:HB2	2.19	0.42
2:M:1015:LEU:N	8:M:9633:HOH:O	2.53	0.42
2:C:346:VAL:HG12	2:C:350:ARG:HE	1.85	0.42
3:N:1486:VAL:CG2	4:O:22:VAL:HG13	2.50	0.42
3:D:116:LEU:HD22	3:D:464:LEU:HB3	2.02	0.42
3:D:1472:ILE:HD13	8:D:9619:HOH:O	2.19	0.42
2:C:287:GLY:HA2	8:C:2319:HOH:O	2.20	0.42
3:D:493:ARG:CD	8:D:9868:HOH:O	2.67	0.42
1:K:18:ARG:HH11	1:K:123:MET:HE3	1.85	0.42
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.20	0.42
3:N:1112:CYS:N	8:N:2258:HOH:O	2.53	0.42
3:D:503:LEU:HA	8:D:9521:HOH:O	2.19	0.42
2:C:623:TYR:N	8:C:9839:HOH:O	2.44	0.42
3:D:798:GLU:CG	3:D:799:LYS:H	2.28	0.42
3:N:27:GLU:O	3:N:28:LYS:HG3	2.19	0.42
3:N:993:LEU:O	3:N:997:THR:OG1	2.37	0.42
2:M:630:ARG:CG	2:M:630:ARG:HH11	2.32	0.42
2:M:707:ARG:HD2	2:M:824:ARG:NH1	2.33	0.42
2:M:659:PRO:HD3	8:M:9732:HOH:O	2.19	0.42
3:D:566:ILE:CG2	5:F:214:GLN:HE22	2.32	0.42
2:C:1038:TRP:CH2	3:D:1096:ARG:HD2	2.55	0.42
2:C:41:ASN:N	2:C:41:ASN:HD22	2.16	0.42
2:C:200:LEU:HD22	2:C:300:ASP:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:739:GLU:O	2:M:740:GLU:C	2.58	0.42
3:N:1205:TYR:CZ	3:N:1221:VAL:HG22	2.54	0.42
3:N:683:ILE:HG22	3:N:687:VAL:CG2	2.47	0.42
2:C:569:VAL:HG11	2:C:996:LYS:HE2	2.01	0.42
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.49	0.42
1:A:79:ILE:HG21	1:A:165:ILE:HD11	2.01	0.42
3:N:887:ALA:HB1	3:N:893:GLU:HG3	2.01	0.42
2:M:1012:PRO:HA	8:P:9485:HOH:O	2.19	0.42
2:M:690:ILE:HD13	2:M:690:ILE:HA	1.81	0.42
2:C:99:GLN:HG3	2:C:99:GLN:O	2.20	0.42
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.55	0.42
3:N:401:TYR:HD2	3:N:415:VAL:HG13	1.85	0.42
1:L:187:GLY:HA2	8:L:2254:HOH:O	2.19	0.42
5:F:420:ASP:O	5:F:422:LEU:CD2	2.51	0.42
5:P:361:LEU:HD12	5:P:366:ALA:CB	2.49	0.42
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.90	0.42
5:P:94:LEU:CD1	5:P:96:LEU:H	2.13	0.42
2:M:374:ASN:O	2:M:377:PRO:HD2	2.20	0.42
4:E:18:ARG:NH2	8:E:9450:HOH:O	2.51	0.42
3:N:18:ILE:HD12	3:N:518:PRO:HD3	2.01	0.42
5:F:286:PRO:HA	5:F:290:GLU:OE1	2.19	0.42
3:D:1373:ARG:HG2	3:D:1374:GLN:NE2	2.33	0.42
3:D:135:LEU:HD21	3:D:139:GLY:HA3	2.01	0.42
3:N:826:PRO:HB3	8:N:9926:HOH:O	2.19	0.42
1:A:86:VAL:HG23	1:A:202:ASP:OD1	2.20	0.42
4:E:84:ARG:HD2	8:E:9390:HOH:O	2.18	0.42
2:M:243:ARG:HA	2:M:244:PRO:HD3	1.54	0.42
5:P:156:VAL:N	8:P:9471:HOH:O	2.46	0.42
3:N:82:LYS:HB3	8:N:2103:HOH:O	2.19	0.42
4:O:48:MET:N	4:O:54:LEU:HB2	2.35	0.42
3:N:864:VAL:CG1	3:N:865:THR:N	2.83	0.42
5:P:195:VAL:HG12	5:P:213:ILE:HG23	2.02	0.42
1:A:66:SER:O	1:A:75:VAL:HG23	2.20	0.42
2:C:874:LEU:HD21	3:D:787:LEU:HD23	1.98	0.42
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.34	0.42
2:M:610:ARG:HD2	2:M:612:VAL:HG23	2.02	0.42
3:N:99:ALA:HB1	3:N:575:GLN:HA	2.01	0.42
2:M:627:ARG:O	2:M:638:ASP:HB3	2.19	0.42
3:D:714:GLN:HE22	3:D:735:ALA:HB3	1.85	0.42
2:M:413:LEU:N	2:M:413:LEU:HD12	2.34	0.42
2:C:30:LEU:HD22	2:C:118:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:628:ARG:HG2	3:N:629:SER:N	2.34	0.42
3:N:1319:VAL:O	3:N:1319:VAL:HG23	2.20	0.42
2:C:933:GLY:HA3	8:C:2179:HOH:O	2.19	0.42
2:C:1108:PRO:HB2	8:C:2213:HOH:O	2.19	0.42
3:D:678:GLU:HB2	8:D:9785:HOH:O	2.19	0.41
3:N:1042:ARG:HH12	3:N:1045:MET:CE	2.32	0.41
1:B:5:LYS:O	1:B:8:ALA:CB	2.64	0.41
5:P:79:ASP:HB3	5:P:80:PRO:HD3	2.02	0.41
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.33	0.41
5:P:140:ARG:HG3	5:P:141:VAL:N	2.33	0.41
2:M:777:ILE:HG22	2:M:778:PHE:HD1	1.85	0.41
2:M:778:PHE:HE2	5:P:419:ARG:HD3	1.79	0.41
2:C:217:LEU:HD12	2:C:311:PHE:HA	2.01	0.41
3:D:195:VAL:HG22	8:D:9592:HOH:O	2.20	0.41
3:N:1209:LEU:C	3:N:1211:MET:N	2.69	0.41
2:C:143:SER:HB3	2:C:332:ARG:HB2	2.01	0.41
3:D:1197:ARG:N	8:D:9488:HOH:O	2.53	0.41
2:M:18:LEU:HD23	2:M:542:VAL:HG21	2.01	0.41
2:M:1098:ASP:O	3:N:9:ARG:O	2.38	0.41
1:K:225:PHE:HB2	8:K:5027:HOH:O	2.19	0.41
2:M:439:CYS:SG	2:M:541:SER:N	2.90	0.41
2:C:690:ILE:HG21	2:C:833:LEU:CD2	2.47	0.41
2:M:52:PHE:O	2:M:54:ILE:N	2.53	0.41
3:D:508:ARG:HA	3:D:509:PRO:HD2	1.28	0.41
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.55	0.41
2:M:536:PRO:HB2	2:M:905:ILE:HD12	2.00	0.41
2:M:253:ALA:N	8:M:9827:HOH:O	2.53	0.41
1:A:209:GLU:O	1:A:213:GLN:HG3	2.20	0.41
3:N:654:LYS:O	3:N:658:LEU:HG	2.20	0.41
3:D:1217:ILE:HG21	3:D:1480:PHE:CD2	2.55	0.41
1:B:191:ASP:CG	1:B:191:ASP:O	2.57	0.41
1:K:186:LEU:HB2	1:K:192:LEU:HD11	2.01	0.41
3:D:1099:VAL:HG13	3:D:1223:ILE:HG13	2.02	0.41
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.55	0.41
2:M:639:GLN:HA	2:M:657:ASP:O	2.20	0.41
2:M:918:LEU:HD23	2:M:968:LEU:O	2.20	0.41
2:M:103:LYS:HA	2:M:103:LYS:HD3	1.58	0.41
3:N:91:GLY:O	3:N:519:VAL:N	2.53	0.41
2:M:650:ARG:HG2	2:M:653:ASP:HB2	2.01	0.41
2:M:614:ARG:HH11	2:M:614:ARG:CG	2.33	0.41
2:C:168:ARG:HD2	2:C:168:ARG:N	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:65:PHE:HD1	8:L:3952:HOH:O	2.03	0.41
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.54	0.41
1:A:5:LYS:O	1:A:8:ALA:CB	2.65	0.41
3:D:83:SER:HA	8:D:9655:HOH:O	2.19	0.41
5:P:416:ARG:NH1	5:P:419:ARG:CD	2.70	0.41
3:D:191:LEU:HD23	3:D:191:LEU:HA	1.87	0.41
3:D:191:LEU:CG	3:D:211:VAL:HG21	2.50	0.41
2:M:274:ARG:NH2	8:M:9939:HOH:O	2.52	0.41
5:F:286:PRO:HB3	8:F:9483:HOH:O	2.19	0.41
2:M:548:PRO:CG	2:M:842:ARG:NH2	2.84	0.41
2:M:577:PRO:HG3	2:M:993:PHE:CD2	2.55	0.41
2:C:279:GLU:HG3	2:C:280:LYS:N	2.35	0.41
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.21	0.41
5:P:163:LEU:CB	5:P:174:LEU:HG	2.45	0.41
3:D:899:LEU:HD13	3:D:900:ILE:HG23	2.02	0.41
1:L:191:ASP:O	1:L:192:LEU:HD23	2.21	0.41
3:D:704:ARG:CG	3:D:705:ALA:N	2.83	0.41
1:L:171:PHE:O	1:L:173:PRO:HD3	2.20	0.41
3:N:33:ASN:OD1	3:N:40:GLU:HG2	2.21	0.41
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.53	0.41
2:C:1031:ARG:CD	3:D:619:LEU:HD21	2.49	0.41
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.49	0.41
3:D:1022:VAL:CG2	8:D:9500:HOH:O	2.66	0.41
2:C:749:VAL:HG23	2:C:749:VAL:O	2.20	0.41
3:N:91:GLY:O	3:N:519:VAL:HB	2.20	0.41
3:N:1471:LEU:HB3	8:N:9651:HOH:O	2.19	0.41
3:N:640:HIS:HE1	3:N:717:GLN:CD	2.24	0.41
2:M:249:LYS:O	2:M:249:LYS:HE3	2.20	0.41
3:N:1335:LEU:O	3:N:1335:LEU:HD23	2.20	0.41
2:M:954:THR:N	8:M:9892:HOH:O	2.53	0.41
1:B:91:ASN:H	1:B:94:LEU:HD13	1.86	0.41
3:N:23:TYR:O	3:N:49:ILE:HG23	2.20	0.41
3:N:181:ASP:OD2	3:N:198:ARG:HB2	2.20	0.41
3:N:97:THR:HG23	5:P:144:ILE:HG21	2.02	0.41
1:K:176:ARG:HB2	8:M:2117:HOH:O	2.19	0.41
2:C:949:LYS:HB2	3:D:796:ARG:HH21	1.85	0.41
2:C:417:GLY:C	2:C:418:LEU:HD13	2.41	0.41
3:D:12:LEU:HD13	3:D:511:TRP:HB2	2.02	0.41
3:D:104:PHE:CD1	3:D:512:MET:HG2	2.54	0.41
2:C:334:ARG:HB3	2:C:338:GLU:OE2	2.20	0.41
2:C:654:LEU:HD23	2:C:654:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1098:ASP:HB3	3:D:11:ALA:O	2.20	0.41
2:M:17:PRO:CD	8:M:9519:HOH:O	2.61	0.41
2:C:962:GLN:NE2	8:C:9534:HOH:O	2.52	0.41
5:F:288:TYR:HE2	5:F:305:GLU:HA	1.85	0.41
3:N:783:ARG:HA	3:N:1028:ALA:HA	2.02	0.41
1:A:219:ARG:NH1	1:B:219:ARG:CG	2.84	0.41
2:M:45:GLN:HB3	8:M:9520:HOH:O	2.19	0.41
2:M:762:LYS:HB2	8:M:9919:HOH:O	2.20	0.41
2:M:290:LEU:HD23	2:M:290:LEU:N	2.35	0.41
2:M:721:ARG:HE	2:M:783:ARG:HH21	1.63	0.41
2:M:913:GLU:N	8:M:9582:HOH:O	2.53	0.41
3:D:1240:THR:O	3:D:1243:THR:HG23	2.21	0.41
1:L:101:LEU:HD23	1:L:101:LEU:C	2.41	0.41
3:D:58:CYS:HA	3:D:78:VAL:HG11	2.01	0.41
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.54	0.41
3:N:1495:ILE:HD12	8:O:1862:HOH:O	2.20	0.41
3:N:1099:VAL:HG12	3:N:1099:VAL:O	2.21	0.41
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.54	0.41
2:M:401:LEU:HD13	2:M:587:VAL:CG1	2.50	0.41
2:C:190:LYS:H	2:C:190:LYS:HG3	1.51	0.41
2:C:230:ARG:HB3	8:C:2241:HOH:O	2.20	0.41
3:N:1032:PRO:HG2	8:N:9991:HOH:O	2.19	0.41
3:N:640:HIS:CD2	3:N:641:GLN:HG3	2.55	0.41
4:E:81:PRO:HB3	8:E:9387:HOH:O	2.19	0.41
5:F:302:LYS:HE3	5:F:306:GLU:OE2	2.20	0.41
1:L:81:ASN:CG	8:L:1941:HOH:O	2.58	0.41
2:M:293:PHE:O	2:M:293:PHE:CD2	2.73	0.41
3:D:6:ARG:HG2	8:D:2460:HOH:O	2.19	0.41
8:M:9803:HOH:O	3:N:1054:GLU:HB2	2.19	0.41
5:P:401:GLU:CG	5:P:402:ASN:OD1	2.68	0.41
3:N:616:GLN:CG	5:P:326:ASP:HB2	2.51	0.41
3:N:521:PRO:HB2	3:N:524:LEU:HD12	2.00	0.41
2:C:1115:LEU:CD1	2:C:1115:LEU:H	2.07	0.41
3:D:1273:VAL:HG22	3:D:1326:THR:HG1	1.85	0.41
3:D:701:LEU:C	3:D:702:LEU:HD12	2.40	0.41
2:C:139:GLN:O	2:C:334:ARG:N	2.51	0.41
3:N:556:LYS:HB3	3:N:556:LYS:HE2	1.92	0.41
3:D:1197:ARG:NH2	8:D:2227:HOH:O	2.53	0.41
2:M:568:ALA:CB	2:M:668:LEU:HD22	2.46	0.41
3:D:1458:GLU:O	3:D:1460:ILE:HG13	2.20	0.41
3:D:1264:GLU:HB3	3:D:1266:ARG:CD	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:285:LEU:N	8:C:9567:HOH:O	2.44	0.41
3:N:72:VAL:HG22	3:N:79:GLU:HB2	2.03	0.41
5:F:93:LEU:HD22	5:F:98:GLU:CB	2.40	0.41
2:M:272:ALA:HB1	8:M:9764:HOH:O	2.19	0.41
3:N:827:ILE:HD12	3:N:828:LYS:HZ1	1.85	0.41
2:M:45:GLN:NE2	8:M:9520:HOH:O	2.52	0.41
1:K:50:GLY:HA3	1:K:171:PHE:O	2.20	0.41
2:C:58:ASP:O	2:C:59:LYS:HG3	2.19	0.41
2:M:723:THR:C	2:M:725:ASP:H	2.23	0.41
2:M:69:LEU:HD13	2:M:97:ARG:NE	2.35	0.41
3:D:1241:PHE:CE2	3:D:1260:ILE:HG13	2.54	0.41
5:P:264:MET:O	5:P:268:ILE:HG13	2.20	0.41
2:C:1008:ARG:HB2	2:C:1027:PHE:HB2	2.02	0.41
2:M:209:ARG:HB3	8:M:2238:HOH:O	2.19	0.41
3:N:1242:HIS:HE1	3:N:1261:GLU:HA	1.84	0.41
3:D:863:VAL:HG23	8:D:9732:HOH:O	2.21	0.41
2:M:734:LEU:O	2:M:735:ARG:C	2.58	0.41
2:C:438:ILE:HD13	2:C:453:THR:CG2	2.50	0.41
3:D:1111:ASP:O	3:D:1112:CYS:C	2.58	0.41
3:D:1017:PHE:HA	8:D:9500:HOH:O	2.21	0.41
3:D:428:LYS:HD3	3:D:451:ASP:OD1	2.20	0.41
1:B:44:LEU:HD23	1:B:48:ILE:HD12	2.02	0.41
2:C:298:PHE:HD1	2:C:298:PHE:H	1.68	0.41
3:D:1306:PRO:HB3	8:D:2459:HOH:O	2.21	0.41
2:M:293:PHE:O	2:M:293:PHE:CG	2.73	0.41
5:F:338:LEU:N	5:F:338:LEU:HD23	2.35	0.41
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.87	0.41
5:P:93:LEU:HG	5:P:190:ALA:HB1	2.03	0.41
3:D:378:ILE:HA	8:D:2467:HOH:O	2.20	0.41
2:C:1117:SER:HB2	8:C:9543:HOH:O	2.20	0.41
1:B:220:GLU:O	1:B:223:THR:HG23	2.20	0.41
3:D:1010:ASN:ND2	8:D:2570:HOH:O	2.52	0.41
3:D:598:ARG:HA	3:D:599:PRO:HD3	1.92	0.41
5:P:370:LYS:HG2	5:P:371:LEU:N	2.35	0.41
3:N:166:GLN:HB3	3:N:395:VAL:HG21	2.02	0.41
3:N:116:LEU:HB3	3:N:118:LEU:CD1	2.51	0.41
3:N:116:LEU:O	3:N:118:LEU:N	2.54	0.41
3:N:122:GLU:HB3	8:N:2207:HOH:O	2.20	0.41
3:D:872:ARG:C	8:D:2489:HOH:O	2.59	0.41
3:D:699:VAL:HB	3:D:716:PHE:O	2.20	0.41
3:D:126:VAL:O	3:D:132:TYR:HD1	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:10:ARG:HD2	2:C:10:ARG:HA	1.57	0.41
3:D:116:LEU:C	3:D:118:LEU:HD13	2.41	0.41
3:N:1413:THR:HG21	8:N:9997:HOH:O	2.20	0.41
2:M:668:LEU:H	2:M:993:PHE:HZ	1.67	0.41
3:D:162:ARG:HB2	3:D:162:ARG:HE	1.50	0.41
5:F:267:THR:HG23	5:F:299:TRP:CH2	2.56	0.41
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.84	0.41
5:P:267:THR:HG23	5:P:299:TRP:CH2	2.55	0.41
2:C:148:PHE:CZ	2:C:281:LEU:HD13	2.55	0.41
2:M:70:GLU:OE1	2:M:97:ARG:HD3	2.19	0.41
3:N:1368:ILE:HG13	3:N:1368:ILE:H	1.69	0.41
3:D:214:GLU:HB3	3:D:390:PRO:HD2	2.02	0.41
2:M:415:PRO:HB2	8:M:9616:HOH:O	2.20	0.41
5:P:256:ARG:N	8:P:9547:HOH:O	2.53	0.41
2:C:943:VAL:HG22	2:C:985:GLY:N	2.27	0.41
1:A:184:THR:HG23	1:A:192:LEU:HB2	2.01	0.41
2:C:926:PHE:HE1	2:C:929:ARG:NH2	2.19	0.41
1:B:88:ARG:CB	1:B:123:MET:HE2	2.51	0.41
1:K:152:PRO:HA	1:K:168:ASP:OD1	2.20	0.41
3:N:14:SER:HA	3:N:511:TRP:CD2	2.56	0.41
2:C:395:LYS:HE3	2:C:407:LYS:HZ3	1.85	0.41
2:M:115:LEU:HD12	2:M:378:LEU:CD2	2.51	0.41
5:P:189:GLU:O	5:P:192:LEU:HD12	2.21	0.41
3:D:644:LEU:HD23	3:D:718:PRO:CG	2.50	0.41
3:D:644:LEU:HD23	3:D:718:PRO:HB3	2.03	0.41
2:M:549:PHE:N	2:M:549:PHE:CD2	2.88	0.41
4:E:69:LEU:HD21	8:E:9379:HOH:O	2.21	0.41
2:M:80:GLN:O	2:M:83:CYS:HB2	2.21	0.41
2:M:328:LEU:HD13	2:M:433:THR:CB	2.27	0.41
3:N:191:LEU:HD21	8:N:2354:HOH:O	2.21	0.41
2:C:1095:LEU:O	2:C:1097:LEU:N	2.54	0.41
3:D:603:LEU:CD2	3:D:606:ILE:HD12	2.50	0.41
2:C:197:LEU:HD13	2:C:207:LEU:HD21	2.03	0.41
3:D:866:VAL:CG1	3:D:867:ARG:N	2.83	0.41
3:D:631:ILE:HG21	3:D:745:MET:HB2	2.03	0.41
2:C:436:GLY:O	2:C:459:ALA:HB2	2.20	0.41
3:D:131:LYS:CG	3:D:568:ARG:HG2	2.43	0.41
5:F:284:ARG:O	5:F:286:PRO:N	2.54	0.41
1:A:42:ARG:HH12	2:C:856:GLU:C	2.24	0.41
3:D:825:ALA:HA	3:D:826:PRO:HD3	1.92	0.41
2:C:127:PHE:CE1	2:C:386:PHE:CE2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:47:ALA:HB2	2:M:345:ARG:NH1	2.35	0.41
1:B:34:VAL:HG12	8:C:2221:HOH:O	2.21	0.41
3:D:897:TRP:HA	3:D:900:ILE:HG12	2.02	0.41
2:M:910:LYS:HB3	2:M:912:PRO:HD2	2.02	0.41
3:N:1281:VAL:HG12	3:N:1282:ARG:N	2.35	0.41
1:A:133:GLU:OE1	2:C:605:LYS:HB3	2.21	0.41
1:A:48:ILE:HD13	1:A:210:ALA:HB1	2.03	0.41
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.55	0.41
2:M:1068:GLU:O	2:M:1071:ILE:HB	2.20	0.41
2:C:293:PHE:CG	2:C:293:PHE:O	2.74	0.41
3:N:1095:THR:HG23	3:N:1226:ALA:O	2.21	0.41
2:M:480:THR:HG22	2:M:482:GLU:N	2.31	0.41
2:M:1096:ALA:HB1	3:N:13:ALA:CB	2.50	0.41
5:F:113:ILE:HG23	5:F:127:ILE:HB	2.02	0.41
2:C:510:ALA:O	2:C:513:VAL:HG23	2.21	0.41
3:N:98:PRO:HB2	8:N:2256:HOH:O	2.20	0.41
2:M:814:GLU:HB2	8:M:2118:HOH:O	2.21	0.41
2:C:882:LEU:HD23	2:C:882:LEU:HA	1.72	0.41
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.21	0.41
3:D:1124:GLN:NE2	8:D:2167:HOH:O	2.52	0.41
3:N:191:LEU:HA	8:N:9660:HOH:O	2.21	0.41
3:D:22:SER:HA	3:D:90:MET:O	2.21	0.41
5:P:416:ARG:HH11	5:P:419:ARG:CG	2.33	0.41
2:C:49:ARG:CG	8:C:9834:HOH:O	2.69	0.41
3:D:637:LEU:HD23	3:D:729:HIS:HA	2.01	0.41
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.21	0.41
1:L:86:VAL:O	1:L:86:VAL:HG13	2.21	0.41
4:E:30:LEU:HD21	4:E:63:TRP:CE3	2.55	0.41
2:M:548:PRO:HG2	2:M:842:ARG:NH2	2.36	0.41
3:D:163:TYR:HD1	8:D:2510:HOH:O	2.04	0.41
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.21	0.41
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.50	0.41
2:M:448:ASN:CB	2:M:452:ILE:HD11	2.50	0.41
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.21	0.41
5:F:292:ALA:HA	5:F:299:TRP:HB3	2.03	0.41
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.41	0.41
1:K:222:LEU:CD1	1:L:215:VAL:HB	2.40	0.41
3:N:809:PRO:HB2	3:N:812:ALA:H	1.86	0.41
2:C:725:ASP:CB	2:C:783:ARG:NH1	2.84	0.41
1:K:19:GLU:HB2	8:K:2111:HOH:O	2.21	0.41
3:N:970:LYS:HB2	3:N:970:LYS:HE3	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:930:LEU:O	3:N:933:ALA:HB3	2.21	0.41
2:C:767:PRO:HG2	8:C:2324:HOH:O	2.19	0.41
2:C:626:ARG:NH2	8:C:2123:HOH:O	2.53	0.41
2:C:23:VAL:HG11	8:C:2155:HOH:O	2.20	0.41
2:C:1019:GLN:HA	2:C:1020:PRO:HD3	1.88	0.41
2:C:1075:ASP:HB2	8:E:9418:HOH:O	2.20	0.41
2:M:204:GLN:HB3	8:M:9635:HOH:O	2.20	0.41
5:F:351:SER:O	5:F:355:GLU:HB2	2.20	0.41
2:M:1056:LYS:HD2	8:M:2051:HOH:O	2.21	0.41
2:M:843:HIS:CD2	2:M:884:GLN:CA	3.04	0.41
2:C:947:ALA:O	2:C:950:LEU:HB3	2.20	0.41
2:C:571:LEU:HD21	2:C:700:TYR:CD2	2.56	0.41
2:C:252:LYS:O	2:C:256:TYR:CD2	2.73	0.41
1:B:228:PRO:O	1:B:229:GLN:HB2	2.20	0.41
2:C:897:LEU:HB3	2:C:899:GLN:CG	2.51	0.41
3:N:466:LYS:HE2	8:N:9669:HOH:O	2.20	0.41
1:B:41:ARG:NH1	1:B:41:ARG:HG3	2.35	0.41
2:C:193:LEU:N	8:C:9548:HOH:O	2.53	0.41
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.20	0.41
2:M:211:LEU:HD21	2:M:311:PHE:CE1	2.55	0.41
3:D:714:GLN:HB2	3:D:736:PHE:HZ	1.85	0.41
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.51	0.41
3:N:98:PRO:C	3:N:458:ALA:HB3	2.41	0.41
2:C:243:ARG:NH1	2:C:243:ARG:HG2	2.35	0.41
3:N:240:GLU:O	3:N:243:ALA:N	2.53	0.41
2:M:112:GLU:HG3	8:M:9779:HOH:O	2.20	0.41
2:M:550:LEU:O	2:M:550:LEU:HD12	2.21	0.41
5:F:218:GLN:O	5:F:218:GLN:HG3	2.18	0.41
3:D:675:ARG:HG2	3:D:678:GLU:OE2	2.21	0.41
2:M:1102:LEU:O	3:N:5:VAL:HA	2.20	0.41
3:N:186:VAL:HG22	3:N:211:VAL:CG1	2.51	0.41
3:N:181:ASP:OD1	3:N:198:ARG:HD2	2.20	0.41
2:M:1050:GLN:CD	2:M:1079:PRO:HG2	2.40	0.41
2:M:516:ARG:NE	3:N:1068:LEU:HD22	2.36	0.41
5:P:101:GLU:O	5:P:105:LYS:HG3	2.21	0.41
4:O:18:ARG:O	4:O:22:VAL:HG23	2.21	0.41
4:O:45:ARG:HH22	4:O:72:ARG:NH2	2.18	0.41
2:C:1049:LEU:O	2:C:1053:LEU:HD23	2.20	0.41
2:C:250:ARG:HE	2:C:253:ALA:HB1	1.80	0.41
2:C:516:ARG:CZ	3:D:1068:LEU:HB3	2.51	0.41
5:P:392:VAL:HG12	5:P:396:ARG:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:88:ARG:NH1	8:K:1036:HOH:O	2.53	0.41
3:D:1145:TYR:HD2	3:D:1146:GLY:N	2.19	0.41
3:N:895:VAL:O	3:N:895:VAL:HG12	2.21	0.41
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.51	0.41
2:M:285:LEU:HD21	2:M:290:LEU:HD23	2.03	0.41
3:N:1116:ASN:O	3:N:1116:ASN:ND2	2.51	0.41
2:C:557:ARG:CZ	2:C:879:ARG:HG2	2.51	0.41
3:D:704:ARG:CZ	3:D:743:ASP:OD1	2.69	0.41
2:M:1056:LYS:C	8:N:2406:HOH:O	2.59	0.41
2:C:286:SER:HB3	2:C:299:LYS:HZ1	1.85	0.41
3:N:693:GLU:CG	4:O:48:MET:SD	3.06	0.41
3:N:1050:GLY:HA3	8:N:2250:HOH:O	2.20	0.41
2:M:349:ALA:O	2:M:353:ARG:HG3	2.20	0.41
1:K:186:LEU:H	1:K:192:LEU:HD12	1.86	0.41
2:M:501:THR:O	2:M:502:PRO:C	2.59	0.41
1:B:102:LYS:HD3	8:B:9575:HOH:O	2.19	0.41
2:M:384:GLU:CG	2:M:388:ARG:HH21	2.33	0.41
2:C:182:VAL:HG13	8:C:9517:HOH:O	2.19	0.41
2:C:41:ASN:HB3	8:C:9503:HOH:O	2.20	0.41
3:D:1295:GLU:HB3	3:D:1300:SER:HB3	2.02	0.41
2:C:144:PRO:CG	2:C:165:LEU:HD23	2.50	0.41
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.50	0.41
2:M:748:GLU:N	8:M:9997:HOH:O	2.53	0.41
5:F:309:LYS:HA	8:F:9730:HOH:O	2.21	0.41
3:D:1169:ASP:HB3	8:D:2458:HOH:O	2.20	0.41
2:M:151:ASP:CG	2:M:152:PRO:HD2	2.41	0.41
3:D:53:ILE:C	8:D:9932:HOH:O	2.59	0.41
1:L:45:LEU:HD21	1:L:177:VAL:HG23	2.03	0.41
5:F:416:ARG:CD	5:F:419:ARG:HB3	2.50	0.41
3:N:1057:VAL:HG13	3:N:1069:GLU:CB	2.50	0.41
2:M:555:ALA:HB3	8:N:9822:HOH:O	2.20	0.41
3:N:49:ILE:HG22	3:N:50:PHE:CD1	2.56	0.41
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.45	0.41
3:D:91:GLY:O	3:D:519:VAL:HB	2.21	0.41
3:D:583:ASP:HA	3:D:602:SER:CB	2.51	0.41
3:N:112:ILE:O	3:N:112:ILE:HD12	2.21	0.41
3:N:572:ARG:HA	8:N:2401:HOH:O	2.21	0.41
5:P:372:ARG:HD3	5:P:388:ALA:HA	2.02	0.41
2:M:1078:GLU:HA	2:M:1079:PRO:HD3	1.84	0.41
1:A:26:GLU:CB	1:A:194:LYS:HG3	2.49	0.41
1:A:33:GLY:CA	1:A:195:LEU:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:850:LEU:O	3:D:853:VAL:HB	2.21	0.41
3:D:192:ALA:HB1	3:D:193:PRO:CD	2.51	0.41
2:M:119:PRO:HG2	2:M:386:PHE:CG	2.56	0.41
2:M:358:ARG:NH2	2:M:374:ASN:OD1	2.54	0.41
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.20	0.41
3:N:1097:LYS:HA	8:N:9612:HOH:O	2.21	0.41
2:M:158:TYR:CD1	2:M:313:LEU:HD11	2.55	0.41
2:C:498:GLN:NE2	2:C:533:ASP:OD2	2.53	0.41
2:C:545:ASN:HA	2:C:905:ILE:HD11	2.03	0.41
2:C:534:VAL:H	2:C:538:GLN:HE22	1.68	0.41
3:N:1087:ARG:HH22	3:N:1256:LEU:HD22	1.76	0.41
3:D:162:ARG:HB3	8:D:2585:HOH:O	2.21	0.41
5:F:160:ASP:O	5:F:163:LEU:HB2	2.21	0.41
2:C:250:ARG:HB3	2:C:253:ALA:CB	2.50	0.41
2:C:264:PRO:HB2	2:C:289:THR:HB	2.03	0.41
3:N:925:GLU:HG2	3:N:926:LYS:N	2.36	0.41
3:N:978:TYR:HD1	3:N:988:ARG:HB2	1.85	0.41
2:C:58:ASP:O	2:C:59:LYS:CG	2.69	0.41
2:C:188:LYS:HE3	8:C:9927:HOH:O	2.20	0.41
2:C:573:ARG:HB3	2:C:670:GLN:HE21	1.85	0.41
1:L:138:LEU:O	1:L:138:LEU:HD23	2.21	0.41
2:M:909:ALA:O	2:M:910:LYS:HD2	2.21	0.41
3:D:868:TYR:CE1	3:D:869:MET:SD	3.13	0.41
2:M:670:GLN:O	2:M:672:VAL:HG12	2.20	0.41
2:M:10:ARG:HA	2:M:10:ARG:HD3	1.71	0.41
2:C:957:LYS:HG3	8:C:9735:HOH:O	2.21	0.41
2:M:897:LEU:CG	2:M:899:GLN:HE21	2.34	0.41
2:M:495:THR:HG21	2:M:524:VAL:HG21	2.03	0.41
3:N:1396:GLU:HB3	8:N:9673:HOH:O	2.21	0.41
2:C:611:ILE:N	8:C:9839:HOH:O	2.53	0.41
3:N:1244:GLY:N	8:N:9796:HOH:O	2.52	0.41
5:F:78:SER:HB2	5:F:82:ARG:HH21	1.84	0.41
2:C:593:ALA:HB3	8:C:9533:HOH:O	2.20	0.41
3:N:30:GLU:HG3	3:N:41:ARG:HG2	2.03	0.41
3:N:54:LYS:HG2	3:N:55:ASP:H	1.86	0.41
2:M:343:GLN:HG2	2:M:385:PHE:CB	2.46	0.41
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.51	0.41
2:M:930:LYS:HG2	8:M:2243:HOH:O	2.20	0.41
3:D:57:GLU:HA	8:D:9598:HOH:O	2.20	0.41
3:D:863:VAL:HG12	8:D:9719:HOH:O	2.21	0.41
3:D:177:ALA:HB1	3:D:199:LEU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:257:THR:CB	5:P:314:PRO:HG2	2.46	0.41
1:B:32:PHE:C	8:B:9655:HOH:O	2.58	0.41
1:B:87:VAL:CG2	1:B:144:VAL:HG11	2.49	0.41
2:M:749:VAL:HG23	2:M:792:VAL:HG21	2.03	0.41
5:P:209:PHE:CD2	5:P:213:ILE:HD11	2.56	0.41
2:M:706:GLU:N	2:M:827:VAL:O	2.53	0.41
3:N:1393:GLN:HB3	3:N:1398:TRP:HE1	1.84	0.41
1:B:75:VAL:O	1:B:79:ILE:HG12	2.21	0.41
3:N:1124:GLN:CD	3:N:1135:ARG:HA	2.41	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.85	0.41
2:C:606:VAL:HG22	2:C:645:VAL:HG22	2.01	0.41
2:M:564:MET:HA	2:M:564:MET:CE	2.51	0.41
3:N:964:LEU:O	3:N:968:ASP:HB2	2.21	0.41
3:N:845:ASN:ND2	3:N:846:PRO:HD2	2.35	0.41
3:N:194:GLY:HA2	8:N:9727:HOH:O	2.20	0.41
1:B:115:LEU:HA	1:B:116:PRO:HD3	1.93	0.41
2:M:915:LYS:HD3	2:M:968:LEU:O	2.21	0.41
3:D:916:TYR:C	3:D:916:TYR:CD2	2.94	0.41
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.51	0.41
1:L:100:LEU:HB2	1:L:115:LEU:HD11	2.02	0.41
3:D:1476:THR:HG23	4:E:21:VAL:CG2	2.51	0.41
3:D:527:MET:HE2	3:D:535:PHE:HB3	2.02	0.41
2:C:2:GLU:CB	8:C:2326:HOH:O	2.68	0.41
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.85	0.41
2:C:678:PRO:HG3	2:C:873:PRO:HD2	2.03	0.41
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.36	0.41
1:A:32:PHE:CZ	1:B:47:SER:OG	2.74	0.41
3:D:999:THR:HA	3:D:1002:LYS:HD2	2.03	0.41
3:D:243:ALA:HA	8:D:9999:HOH:O	2.21	0.41
1:A:183:ASP:HB2	8:A:9529:HOH:O	2.19	0.41
2:M:626:ARG:N	8:M:9859:HOH:O	2.54	0.41
2:M:614:ARG:HG2	2:M:614:ARG:NH1	2.34	0.41
3:D:6:ARG:CZ	8:D:2044:HOH:O	2.69	0.41
1:K:179:PHE:HZ	2:M:980:GLY:HA3	1.86	0.41
3:D:954:ALA:HB3	8:D:2373:HOH:O	2.20	0.41
2:M:31:GLN:HE21	2:M:31:GLN:HB3	1.47	0.41
5:P:319:THR:HG22	5:P:320:PRO:HD2	2.02	0.41
2:C:355:VAL:HG23	2:C:372:LEU:CA	2.50	0.41
3:D:521:PRO:O	3:D:525:ARG:NH1	2.53	0.41
3:N:1209:LEU:HD23	4:O:16:LYS:HD2	2.02	0.41
3:N:1096:ARG:HH11	3:N:1096:ARG:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:HG21	2:C:449:ILE:HA	2.03	0.41
3:D:1101:VAL:HG21	3:D:1424:VAL:O	2.21	0.41
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.50	0.41
2:C:734:LEU:O	2:C:735:ARG:C	2.59	0.41
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.86	0.41
3:D:809:PRO:O	3:D:812:ALA:HB3	2.20	0.41
3:N:827:ILE:O	3:N:837:GLY:HA3	2.21	0.41
3:N:914:LEU:HD23	3:N:914:LEU:O	2.21	0.41
2:M:206:THR:O	2:M:210:GLU:HG3	2.21	0.41
2:M:910:LYS:HE3	8:M:9916:HOH:O	2.21	0.41
1:K:94:LEU:N	1:K:94:LEU:HD12	2.36	0.41
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.56	0.41
3:N:54:LYS:HB3	3:N:57:GLU:HB2	2.03	0.41
3:D:47:GLU:HG2	3:D:47:GLU:H	1.28	0.41
5:F:271:LEU:HD12	5:F:307:THR:HG21	2.03	0.41
3:N:67:ARG:HA	3:N:67:ARG:HD2	1.89	0.41
3:N:1458:GLU:HG2	8:N:9602:HOH:O	2.21	0.41
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.21	0.41
1:L:115:LEU:HA	1:L:116:PRO:HD3	1.93	0.41
3:N:154:THR:HG22	3:N:156:GLU:H	1.86	0.41
2:C:569:VAL:HG13	2:C:569:VAL:O	2.21	0.41
1:K:26:GLU:HB3	1:K:194:LYS:HG3	2.03	0.41
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.02	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.50	0.41
2:M:673:LEU:HD21	2:M:895:TYR:CE2	2.56	0.41
2:M:799:ILE:N	2:M:799:ILE:HD13	2.35	0.41
3:D:1288:GLU:N	8:D:9557:HOH:O	2.50	0.41
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.21	0.41
3:D:1121:PRO:HD3	8:D:2230:HOH:O	2.20	0.41
5:P:403:LYS:HB3	8:P:9587:HOH:O	2.20	0.41
2:M:370:ALA:HB3	8:P:9629:HOH:O	2.21	0.41
5:F:364:ARG:CB	5:F:365:GLU:OE1	2.69	0.40
2:C:66:LEU:HD13	2:C:100:LEU:CB	2.48	0.40
3:D:539:ASP:OD2	5:F:316:SER:OG	2.39	0.40
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.51	0.40
2:C:216:GLU:C	2:C:218:VAL:H	2.25	0.40
2:C:418:LEU:HA	8:C:9500:HOH:O	2.22	0.40
3:D:12:LEU:CD2	3:D:13:ALA:N	2.82	0.40
2:M:969:GLN:HG2	3:N:952:ASP:OD2	2.21	0.40
2:C:12:VAL:HG22	2:C:13:ILE:HG23	2.04	0.40
2:M:1015:LEU:CA	5:P:335:ASP:HB3	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:118:LEU:O	3:D:119:SER:C	2.59	0.40
2:C:52:PHE:O	2:C:54:ILE:N	2.54	0.40
2:M:453:THR:HA	8:M:9508:HOH:O	2.21	0.40
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.50	0.40
2:M:200:LEU:HD22	2:M:300:ASP:HB3	2.03	0.40
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.21	0.40
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.51	0.40
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.56	0.40
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.56	0.40
3:D:623:VAL:CG1	3:D:626:SER:HB3	2.51	0.40
2:C:1052:MET:HE2	3:D:623:VAL:HG21	2.02	0.40
3:D:623:VAL:HG12	3:D:626:SER:HB3	2.03	0.40
1:K:206:THR:N	1:K:209:GLU:OE1	2.52	0.40
3:N:1465:ASN:OD1	3:N:1465:ASN:O	2.39	0.40
1:L:11:PHE:HE2	1:L:13:VAL:HG22	1.86	0.40
2:M:841:ASN:ND2	2:M:843:HIS:HD2	2.16	0.40
3:N:1148:VAL:HG12	3:N:1148:VAL:O	2.21	0.40
1:K:219:ARG:HH12	1:K:220:GLU:HA	1.85	0.40
3:N:206:ARG:O	3:N:206:ARG:HD2	2.21	0.40
3:D:1343:ALA:HB1	8:D:9912:HOH:O	2.20	0.40
2:C:166:PRO:HG2	8:C:9971:HOH:O	2.21	0.40
3:N:677:LEU:CD2	3:N:683:ILE:HD13	2.51	0.40
3:N:564:GLU:HA	8:N:9738:HOH:O	2.21	0.40
4:O:5:GLY:HA3	4:O:8:LYS:HD2	2.03	0.40
3:D:1147:ARG:HB2	3:D:1188:VAL:HG21	2.03	0.40
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.56	0.40
3:D:532:GLY:HA2	8:F:9594:HOH:O	2.22	0.40
3:N:614:PHE:CZ	3:N:1439:SER:O	2.74	0.40
3:D:977:ALA:O	3:D:982:PHE:HB2	2.21	0.40
3:N:213:VAL:HG13	8:N:9497:HOH:O	2.20	0.40
3:D:525:ARG:N	3:D:526:PRO:HD3	2.33	0.40
3:N:426:LYS:HZ1	5:P:138:SER:CA	2.34	0.40
2:C:205:GLU:HG3	2:C:206:THR:N	2.35	0.40
1:A:22:GLU:OE1	2:C:934:PHE:CZ	2.74	0.40
3:D:728:LEU:HD22	3:D:745:MET:CE	2.51	0.40
3:D:759:ALA:HA	3:D:763:MET:HE2	2.04	0.40
2:M:971:LYS:HZ2	3:N:950:GLY:HA3	1.86	0.40
2:M:474:VAL:HG22	2:M:474:VAL:O	2.20	0.40
2:C:445:GLU:OE2	2:C:559:LEU:HD23	2.22	0.40
3:D:422:ALA:HB3	3:D:427:VAL:HG13	2.03	0.40
2:C:328:LEU:HD13	2:C:433:THR:CG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1432:LYS:H	3:N:1432:LYS:HG3	1.41	0.40
1:K:222:LEU:HD13	1:K:222:LEU:HA	1.93	0.40
2:C:129:ILE:HD12	8:C:2106:HOH:O	2.20	0.40
3:D:1145:TYR:HA	3:D:1171:VAL:HG21	2.03	0.40
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.46	0.40
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.35	0.40
3:N:1371:VAL:O	3:N:1375:MET:HG3	2.21	0.40
3:D:879:ARG:NH1	3:D:904:VAL:C	2.74	0.40
2:M:190:LYS:HG3	2:M:190:LYS:H	1.47	0.40
1:L:219:ARG:HD3	8:L:1203:HOH:O	2.21	0.40
2:M:859:PRO:O	2:M:867:VAL:HG22	2.21	0.40
2:C:889:HIS:HE1	3:D:951:ILE:N	2.13	0.40
1:A:70:GLY:HA2	1:A:133:GLU:OE2	2.21	0.40
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.19	0.40
1:B:23:PHE:HB2	1:B:197:LEU:HD23	2.03	0.40
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.22	0.40
2:C:588:VAL:HG21	2:C:664:GLY:O	2.20	0.40
3:N:27:GLU:C	3:N:28:LYS:HG3	2.42	0.40
4:O:58:PRO:HB2	8:O:1927:HOH:O	2.20	0.40
2:C:715:THR:CG2	2:C:717:LEU:HG	2.51	0.40
3:D:601:ARG:HH22	3:D:611:GLN:N	2.19	0.40
5:F:234:LYS:HE3	5:F:236:SER:HB2	2.03	0.40
2:M:24:GLU:N	8:M:9500:HOH:O	2.54	0.40
2:M:585:GLU:N	8:M:9499:HOH:O	2.53	0.40
2:M:739:GLU:HA	8:M:2253:HOH:O	2.21	0.40
3:N:399:ARG:HB3	3:N:402:PRO:HG3	2.03	0.40
4:E:12:MET:O	4:E:75:PHE:HZ	2.04	0.40
1:K:106:PRO:HG2	1:K:134:GLU:OE1	2.21	0.40
4:O:27:ALA:HB2	4:O:61:GLU:HB3	2.03	0.40
2:M:219:GLN:NE2	8:M:2204:HOH:O	2.55	0.40
3:N:442:ASN:HB3	8:N:9747:HOH:O	2.22	0.40
2:M:1085:PHE:CE1	3:N:1468:LEU:HG	2.56	0.40
3:N:186:VAL:CG1	3:N:187:LYS:N	2.83	0.40
3:N:170:PRO:HD2	3:N:391:ALA:O	2.20	0.40
2:C:1115:LEU:HD22	3:D:88:TYR:CD1	2.56	0.40
3:D:90:MET:HE3	3:D:519:VAL:O	2.20	0.40
3:N:118:LEU:O	3:N:119:SER:C	2.60	0.40
3:N:131:LYS:HB3	3:N:456:MET:HE3	2.03	0.40
3:N:572:ARG:CA	8:N:2401:HOH:O	2.69	0.40
5:P:364:ARG:HE	5:P:364:ARG:HB3	1.64	0.40
3:D:834:THR:HG22	3:D:838:ARG:CD	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:126:VAL:HG12	3:D:127:LEU:N	2.36	0.40
1:K:34:VAL:CG1	8:L:4157:HOH:O	2.69	0.40
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.20	0.40
2:M:577:PRO:HG3	2:M:993:PHE:CG	2.56	0.40
3:D:209:ARG:NH2	3:D:397:LYS:HD2	2.36	0.40
2:M:20:GLU:HB2	8:M:9519:HOH:O	2.20	0.40
3:N:83:SER:N	8:N:9939:HOH:O	2.55	0.40
2:C:516:ARG:CZ	3:D:1068:LEU:CB	2.99	0.40
3:N:214:GLU:OE1	3:N:390:PRO:HG2	2.21	0.40
5:F:267:THR:HG23	5:F:299:TRP:HH2	1.85	0.40
2:C:720:GLU:OE1	2:C:758:ARG:NH1	2.54	0.40
2:C:89:THR:HG22	2:C:91:GLN:HG2	2.03	0.40
3:D:1141:GLU:O	3:D:1145:TYR:HB2	2.22	0.40
2:M:64:LEU:HB2	2:M:359:MET:CE	2.50	0.40
5:P:256:ARG:HD3	5:P:260:ILE:HG21	2.03	0.40
3:N:651:GLU:HA	3:N:651:GLU:OE1	2.21	0.40
2:M:1031:ARG:NH1	3:N:620:GLY:O	2.49	0.40
2:C:679:PHE:CE1	2:C:859:PRO:HD3	2.55	0.40
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.94	0.40
3:D:441:ARG:O	3:D:443:VAL:HG23	2.21	0.40
1:B:79:ILE:HG13	1:B:80:LEU:N	2.37	0.40
2:M:805:ARG:HD2	8:M:9824:HOH:O	2.20	0.40
5:F:195:VAL:HG13	5:F:243:ILE:HD13	2.04	0.40
2:M:800:VAL:HG13	2:M:825:VAL:HG13	2.02	0.40
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.21	0.40
2:M:585:GLU:HB2	8:M:9499:HOH:O	2.21	0.40
3:N:919:PHE:HA	3:N:927:THR:OG1	2.20	0.40
3:N:850:LEU:HD21	3:N:881:LEU:HD13	2.04	0.40
2:M:456:ALA:O	2:M:459:ALA:HB3	2.21	0.40
3:N:1103:HIS:ND1	3:N:1463:LYS:HE2	2.37	0.40
3:D:1354:LYS:HA	8:D:2377:HOH:O	2.21	0.40
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.86	0.40
2:C:1119:ARG:HD3	2:C:1119:ARG:HA	1.72	0.40
3:D:578:VAL:HG12	3:D:578:VAL:O	2.22	0.40
1:A:20:TYR:CD2	1:A:21:GLY:N	2.89	0.40
5:F:419:ARG:O	5:F:421:PHE:CD1	2.75	0.40
5:P:393:THR:CG2	5:P:394:ARG:H	2.35	0.40
5:P:400:ILE:HD13	8:P:9478:HOH:O	2.22	0.40
1:B:52:ALA:H	1:B:171:PHE:HE1	1.69	0.40
1:A:180:GLN:NE2	2:C:934:PHE:CB	2.67	0.40
2:C:971:LYS:HB3	2:C:988:VAL:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.37	0.40
3:D:708:LEU:CD1	3:D:1231:GLU:HG2	2.51	0.40
5:P:279:GLN:HB2	8:P:9682:HOH:O	2.21	0.40
3:N:702:LEU:HD12	3:N:747:VAL:HB	2.04	0.40
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.89	0.40
3:D:1432:LYS:CD	3:D:1433:SER:H	2.32	0.40
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.50	0.40
5:F:304:VAL:O	5:F:308:LEU:HG	2.20	0.40
3:N:584:ASN:OD1	3:N:590:PRO:HG2	2.22	0.40
3:D:1209:LEU:HD21	4:E:16:LYS:HD2	2.03	0.40
5:P:270:LYS:HB3	5:P:295:MET:SD	2.61	0.40
2:M:101:ILE:HD13	2:M:107:LEU:HB3	2.03	0.40
2:M:107:LEU:HD21	8:M:9696:HOH:O	2.22	0.40
3:N:1336:LEU:HD12	3:N:1340:GLY:C	2.42	0.40
3:D:495:ARG:HB2	8:D:9869:HOH:O	2.20	0.40
2:M:9:ILE:CG2	2:M:499:ALA:HB1	2.46	0.40
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.43	0.40
3:D:447:VAL:HG13	8:D:9567:HOH:O	2.21	0.40
2:M:1051:GLU:CD	3:N:752:SER:H	2.23	0.40
2:C:1003:ASP:O	2:C:1005:MET:N	2.54	0.40
3:N:1438:ALA:HB2	3:N:1447:LEU:HD11	2.03	0.40
2:M:1032:PHE:CZ	2:M:1052:MET:HG2	2.56	0.40
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.36	0.40
1:B:80:LEU:HD11	3:D:842:VAL:CG1	2.51	0.40
3:D:1496:GLU:HG3	3:D:1500:LYS:HE3	2.03	0.40
1:K:219:ARG:NH1	1:K:220:GLU:CA	2.84	0.40
3:N:838:ARG:CG	3:N:838:ARG:HH11	2.34	0.40
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.42	0.40
2:C:878:SER:HA	3:D:1034:GLN:OE1	2.21	0.40
1:B:100:LEU:HB2	1:B:115:LEU:HD11	2.03	0.40
2:M:625:LEU:HD13	2:M:639:GLN:O	2.20	0.40
3:N:1041:LEU:HD12	3:N:1058:ARG:C	2.42	0.40
2:C:744:ARG:HG3	2:C:744:ARG:O	2.21	0.40
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.21	0.40
5:F:325:LYS:HE3	8:F:9533:HOH:O	2.20	0.40
2:C:769:PRO:HA	8:C:9563:HOH:O	2.22	0.40
2:M:592:LEU:HD23	2:M:592:LEU:HA	1.74	0.40
2:M:682:TYR:CE1	2:M:851:LYS:HD2	2.57	0.40
5:F:404:ALA:O	5:F:408:LEU:HB3	2.22	0.40
2:M:1102:LEU:HD23	2:M:1106:ASP:HB3	2.04	0.40
3:N:168:THR:HB	3:N:393:ILE:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:365:GLU:N	5:P:365:GLU:OE1	2.54	0.40
2:C:677:MET:CB	2:C:987:ILE:HD13	2.51	0.40
8:C:2291:HOH:O	3:D:859:ASP:CA	2.68	0.40
2:M:129:ILE:HG13	2:M:386:PHE:HB3	2.03	0.40
3:D:145:VAL:HG13	3:D:146:PRO:CD	2.52	0.40
2:M:280:LYS:O	2:M:309:TYR:CZ	2.75	0.40
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.22	0.40
1:B:109:VAL:O	1:B:129:ILE:HB	2.22	0.40
3:D:1458:GLU:N	8:D:9506:HOH:O	2.50	0.40
3:D:1432:LYS:NZ	3:D:1464:GLU:OE1	2.51	0.40
2:C:257:VAL:C	2:C:259:GLY:N	2.69	0.40
5:F:94:LEU:HB3	5:F:98:GLU:H	1.87	0.40
2:M:393:GLN:NE2	2:M:409:ARG:HH11	2.18	0.40
2:M:559:LEU:HD11	2:M:563:ASN:ND2	2.37	0.40
3:D:559:ALA:O	3:D:561:GLY:N	2.55	0.40
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.75	0.40
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.75	0.40
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.93	0.40
2:C:148:PHE:HB2	2:C:313:LEU:CD2	2.51	0.40
2:C:195:LEU:HG	2:C:238:LEU:CD1	2.50	0.40
3:D:900:ILE:HB	8:D:9916:HOH:O	2.21	0.40
3:D:645:PRO:HA	3:D:721:VAL:O	2.22	0.40
5:P:82:ARG:HA	8:P:9599:HOH:O	2.21	0.40
2:M:768:THR:CB	2:M:771:GLU:HB3	2.48	0.40
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.22	0.40
1:B:227:ASN:HA	1:B:228:PRO:HD2	1.92	0.40
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.22	0.40
2:M:346:VAL:O	2:M:350:ARG:HG3	2.22	0.40
3:N:1152:GLU:HG3	3:N:1153:VAL:N	2.36	0.40
2:C:897:LEU:HD11	2:C:920:GLN:HB3	2.03	0.40
3:D:1034:GLN:O	3:D:1038:LEU:HD12	2.21	0.40
2:C:153:ALA:O	2:C:155:PRO:HD3	2.22	0.40
2:C:1073:GLY:N	8:C:9484:HOH:O	2.54	0.40
1:A:76:VAL:HG13	8:A:9592:HOH:O	2.21	0.40
2:C:504:GLU:OE1	2:C:507:ARG:HD2	2.22	0.40
1:K:74:ASP:O	1:K:78:ILE:HG13	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	8	15
1	B	227/315 (72%)	200 (88%)	24 (11%)	3 (1%)	15	30
1	K	227/315 (72%)	199 (88%)	24 (11%)	4 (2%)	11	21
1	L	227/315 (72%)	199 (88%)	25 (11%)	3 (1%)	15	30
2	C	1117/1119 (100%)	923 (83%)	139 (12%)	55 (5%)	3	3
2	M	1117/1119 (100%)	928 (83%)	135 (12%)	54 (5%)	3	3
3	D	1388/1524 (91%)	1119 (81%)	196 (14%)	73 (5%)	2	2
3	N	1388/1524 (91%)	1113 (80%)	200 (14%)	75 (5%)	2	2
4	E	93/99 (94%)	72 (77%)	13 (14%)	8 (9%)	1	1
4	O	93/99 (94%)	71 (76%)	15 (16%)	7 (8%)	1	1
5	F	341/423 (81%)	295 (86%)	31 (9%)	15 (4%)	3	4
5	P	341/423 (81%)	288 (84%)	34 (10%)	19 (6%)	2	2
All	All	6786/7590 (89%)	5608 (83%)	857 (13%)	321 (5%)	3	3

All (321) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	187	GLY
2	C	111	ASP
2	C	152	PRO
2	C	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	369	PRO
2	C	465	GLY
2	C	627	ARG
2	C	684	PHE
2	C	727	PRO
2	C	738	ASP

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Mol	Chain	Res	Type
2	C	1045	ALA
3	D	43	GLY
3	D	55	ASP
3	D	83	SER
3	D	208	PRO
3	D	238	PRO
3	D	241	ILE
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	417	PRO
3	D	440	VAL
3	D	487	ALA
3	D	1066	THR
3	D	1089	ALA
3	D	1125	PRO
3	D	1129	THR
3	D	1197	ARG
4	E	42	PRO
4	E	53	GLY
4	E	58	PRO
5	F	75	ILE
5	F	145	PRO
5	F	297	PRO
5	F	341	PRO
5	F	390	PHE
2	M	111	ASP
2	M	152	PRO
2	M	231	PRO
2	M	244	PRO
2	M	288	ARG
2	M	369	PRO
2	M	462	ASP
2	M	465	GLY
2	M	627	ARG
2	M	684	PHE
2	M	727	PRO
2	M	784	ASP
2	M	864	GLY
2	M	1045	ALA
3	N	43	GLY
3	N	208	PRO

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Mol	Chain	Res	Type
3	N	238	PRO
3	N	241	ILE
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	417	PRO
3	N	440	VAL
3	N	487	ALA
3	N	1066	THR
3	N	1089	ALA
3	N	1129	THR
3	N	1197	ARG
3	N	1213	ARG
4	O	42	PRO
4	O	53	GLY
4	O	58	PRO
5	P	145	PRO
5	P	167	PRO
5	P	297	PRO
5	P	341	PRO
5	P	390	PHE
5	P	416	ARG
1	A	59	GLU
1	B	59	GLU
2	C	129	ILE
2	C	217	LEU
2	C	290	LEU
2	C	316	GLY
2	C	368	THR
2	C	419	THR
2	C	434	HIS
2	C	462	ASP
2	C	529	VAL
2	C	548	PRO
2	C	626	ARG
2	C	735	ARG
2	C	740	GLU
2	C	864	GLY
2	C	1096	ALA
3	D	24	GLY
3	D	37	LEU

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Mol	Chain	Res	Type
3	D	78	VAL
3	D	140	ALA
3	D	234	GLU
3	D	381	ALA
3	D	385	VAL
3	D	424	GLY
3	D	509	PRO
3	D	560	GLN
3	D	803	GLY
3	D	1028	ALA
3	D	1213	ARG
3	D	1241	PHE
3	D	1248	GLY
3	D	1385	GLY
4	E	5	GLY
5	F	148	LYS
5	F	153	PRO
5	F	167	PRO
5	F	329	TYR
1	K	59	GLU
1	L	59	GLU
2	M	178	PRO
2	M	290	LEU
2	M	316	GLY
2	M	434	HIS
2	M	529	VAL
2	M	548	PRO
2	M	735	ARG
2	M	738	ASP
2	M	740	GLU
2	M	1096	ALA
3	N	24	GLY
3	N	37	LEU
3	N	140	ALA
3	N	234	GLU
3	N	368	VAL
3	N	379	ALA
3	N	381	ALA
3	N	415	VAL
3	N	424	GLY
3	N	451	ASP
3	N	618	LEU

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Mol	Chain	Res	Type
3	N	1028	ALA
3	N	1125	PRO
3	N	1241	PHE
3	N	1248	GLY
3	N	1385	GLY
3	N	1475	GLY
4	O	46	PRO
5	P	75	ILE
5	P	148	LYS
5	P	153	PRO
5	P	329	TYR
1	A	106	PRO
1	B	106	PRO
2	C	11	GLU
2	C	79	PRO
2	C	178	PRO
2	C	265	ARG
2	C	517	ARG
2	C	598	GLU
2	C	842	ARG
2	C	1005	MET
3	D	136	ASP
3	D	233	LYS
3	D	379	ALA
3	D	415	VAL
3	D	451	ASP
3	D	521	PRO
3	D	594	PRO
3	D	601	ARG
3	D	782	SER
3	D	807	ALA
3	D	822	ALA
3	D	844	ALA
4	E	41	GLU
4	E	46	PRO
5	F	97	GLU
5	F	326	ASP
1	K	106	PRO
1	K	187	GLY
1	L	106	PRO
2	M	11	GLU
2	M	79	PRO

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Mol	Chain	Res	Type
2	M	129	ILE
2	M	217	LEU
2	M	265	ARG
2	M	368	THR
2	M	419	THR
2	M	442	GLU
2	M	626	ARG
2	M	1004	LYS
2	M	1106	ASP
3	N	31	THR
3	N	98	PRO
3	N	233	LYS
3	N	509	PRO
3	N	521	PRO
3	N	539	ASP
3	N	560	GLN
3	N	594	PRO
3	N	807	ALA
3	N	822	ALA
3	N	844	ALA
3	N	1040	GLY
3	N	1208	ASP
3	N	1265	ALA
4	O	5	GLY
4	O	41	GLU
5	P	97	GLU
5	P	147	LEU
2	C	29	ALA
2	C	31	GLN
2	C	180	GLY
3	D	31	THR
3	D	40	GLU
3	D	88	TYR
3	D	96	ALA
3	D	368	VAL
3	D	387	LEU
3	D	416	ALA
3	D	486	ARG
3	D	539	ASP
3	D	808	THR
3	D	989	TYR
3	D	1265	ALA

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Mol	Chain	Res	Type
3	D	1475	GLY
4	E	82	GLU
5	F	288	TYR
1	K	29	GLU
2	M	29	ALA
2	M	180	GLY
2	M	457	ALA
2	M	517	ARG
2	M	518	LYS
2	M	874	LEU
3	N	67	ARG
3	N	78	VAL
3	N	82	LYS
3	N	96	ALA
3	N	119	SER
3	N	136	ASP
3	N	177	ALA
3	N	486	ARG
3	N	601	ARG
3	N	808	THR
3	N	989	TYR
3	N	1243	THR
5	P	326	ASP
5	P	364	ARG
1	A	93	SER
2	C	7	GLY
2	C	59	LYS
2	C	144	PRO
2	C	202	TYR
2	C	442	GLU
2	C	457	ALA
2	C	1004	LYS
3	D	67	ARG
3	D	98	PRO
3	D	177	ALA
3	D	522	PRO
3	D	1040	GLY
2	M	7	GLY
2	M	598	GLU
2	M	762	LYS
3	N	40	GLU
3	N	416	ALA

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Mol	Chain	Res	Type
3	N	522	PRO
3	N	617	ASN
4	O	82	GLU
5	P	286	PRO
5	P	288	TYR
2	C	876	VAL
3	D	137	PRO
3	D	170	PRO
3	D	705	ALA
3	D	1388	ARG
5	F	286	PRO
5	F	364	ARG
2	M	78	PHE
2	M	876	VAL
3	N	137	PRO
3	N	170	PRO
3	N	387	LEU
5	P	76	SER
5	P	324	GLU
5	P	393	THR
1	B	125	PRO
3	N	483	HIS
3	N	870	GLY
2	C	74	GLY
2	C	78	PHE
2	C	779	GLY
2	M	131	GLY
2	M	144	PRO
2	M	779	GLY
2	M	812	GLY
2	M	905	ILE
3	N	803	GLY
2	C	336	VAL
2	C	812	GLY
3	D	407	VAL
3	D	1157	GLY
3	D	1392	GLY
3	N	781	PRO
3	N	1157	GLY
3	D	483	HIS
3	D	781	PRO
3	D	1454	GLY

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Mol	Chain	Res	Type
5	F	397	ILE
1	L	125	PRO
2	M	186	VAL
2	M	877	PRO
3	N	146	PRO
3	N	407	VAL
3	N	1454	GLY
1	A	124	ASN
2	C	131	GLY
2	C	186	VAL
2	C	877	PRO
4	E	57	ASP
3	N	742	GLY
2	C	166	PRO
2	M	166	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	165 (82%)	37 (18%)	2	3
1	B	202/273 (74%)	164 (81%)	38 (19%)	2	3
1	K	202/273 (74%)	160 (79%)	42 (21%)	1	2
1	L	202/273 (74%)	161 (80%)	41 (20%)	1	2
2	C	941/941 (100%)	730 (78%)	211 (22%)	1	2
2	M	941/941 (100%)	718 (76%)	223 (24%)	1	1
3	D	1123/1279 (88%)	865 (77%)	258 (23%)	1	2
3	N	1123/1279 (88%)	841 (75%)	282 (25%)	1	1
4	E	83/87 (95%)	68 (82%)	15 (18%)	2	3
4	O	83/87 (95%)	68 (82%)	15 (18%)	2	3
5	F	295/370 (80%)	232 (79%)	63 (21%)	1	2
5	P	295/370 (80%)	239 (81%)	56 (19%)	2	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	5692/6446 (88%)	4411 (78%)	1281 (22%)	1 2

All (1281) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	18	ARG
1	A	26	GLU
1	A	30	ARG
1	A	54	THR
1	A	62	LEU
1	A	73	GLU
1	A	74	ASP
1	A	80	LEU
1	A	88	ARG
1	A	89	PHE
1	A	92	PRO
1	A	93	SER
1	A	95	GLN
1	A	96	THR
1	A	99	LEU
1	A	112	ARG
1	A	121	GLU
1	A	126	ASP
1	A	127	LEU
1	A	133	GLU
1	A	143	ARG
1	A	146	ARG
1	A	160	ASP
1	A	167	VAL
1	A	170	VAL
1	A	185	ARG
1	A	197	LEU
1	A	198	ARG
1	A	206	THR
1	A	208	LEU
1	A	222	LEU
1	A	227	ASN

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Mol	Chain	Res	Type
1	B	1	MET
1	B	5	LYS
1	B	9	PRO
1	B	12	THR
1	B	26	GLU
1	B	30	ARG
1	B	54	THR
1	B	62	LEU
1	B	73	GLU
1	B	80	LEU
1	B	88	ARG
1	B	89	PHE
1	B	90	LEU
1	B	93	SER
1	B	95	GLN
1	B	96	THR
1	B	99	LEU
1	B	112	ARG
1	B	119	ASP
1	B	121	GLU
1	B	127	LEU
1	B	138	LEU
1	B	139	ASN
1	B	140	MET
1	B	145	ASP
1	B	155	LYS
1	B	159	LYS
1	B	160	ASP
1	B	162	ILE
1	B	176	ARG
1	B	186	LEU
1	B	188	GLN
1	B	197	LEU
1	B	206	THR
1	B	208	LEU
1	B	213	GLN
1	B	223	THR
1	B	229	GLN
2	C	5	ARG
2	C	6	PHE
2	C	8	ARG
2	C	10	ARG

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Mol	Chain	Res	Type
2	C	15	LEU
2	C	26	TYR
2	C	31	GLN
2	C	39	ARG
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	65	VAL
2	C	70	GLU
2	C	71	TYR
2	C	76	PRO
2	C	77	PRO
2	C	82	GLU
2	C	86	LYS
2	C	88	LEU
2	C	95	TYR
2	C	100	LEU
2	C	104	ASP
2	C	107	LEU
2	C	111	ASP
2	C	113	VAL
2	C	115	LEU
2	C	118	ILE
2	C	138	SER
2	C	140	ILE
2	C	144	PRO
2	C	149	THR
2	C	152	PRO
2	C	158	TYR
2	C	163	ILE
2	C	165	LEU
2	C	166	PRO
2	C	167	LYS
2	C	168	ARG
2	C	170	PRO
2	C	173	ASP
2	C	178	PRO
2	C	182	VAL
2	C	186	VAL
2	C	188	LYS
2	C	189	ARG

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Mol	Chain	Res	Type
2	C	190	LYS
2	C	198	ARG
2	C	203	ASP
2	C	207	LEU
2	C	209	ARG
2	C	211	LEU
2	C	217	LEU
2	C	218	VAL
2	C	222	MET
2	C	229	MET
2	C	230	ARG
2	C	235	LEU
2	C	238	LEU
2	C	239	PHE
2	C	243	ARG
2	C	251	ASP
2	C	254	VAL
2	C	256	TYR
2	C	257	VAL
2	C	263	ASP
2	C	266	ARG
2	C	279	GLU
2	C	281	LEU
2	C	288	ARG
2	C	289	THR
2	C	290	LEU
2	C	293	PHE
2	C	297	GLU
2	C	302	VAL
2	C	303	PHE
2	C	309	TYR
2	C	327	HIS
2	C	333	ILE
2	C	343	GLN
2	C	345	ARG
2	C	351	LEU
2	C	358	ARG
2	C	359	MET
2	C	367	LEU
2	C	368	THR
2	C	379	GLU
2	C	383	ARG

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Mol	Chain	Res	Type
2	C	388	ARG
2	C	398	THR
2	C	407	LYS
2	C	418	LEU
2	C	419	THR
2	C	420	ARG
2	C	422	ARG
2	C	425	PHE
2	C	426	ASP
2	C	427	VAL
2	C	432	ARG
2	C	441	VAL
2	C	442	GLU
2	C	449	ILE
2	C	452	ILE
2	C	455	LEU
2	C	460	ARG
2	C	469	THR
2	C	474	VAL
2	C	500	ASN
2	C	502	PRO
2	C	503	LEU
2	C	508	ILE
2	C	514	VAL
2	C	518	LYS
2	C	520	GLU
2	C	523	ILE
2	C	524	VAL
2	C	527	GLU
2	C	541	SER
2	C	543	ASN
2	C	545	ASN
2	C	549	PHE
2	C	551	GLU
2	C	564	MET
2	C	586	ARG
2	C	589	ARG
2	C	595	LEU
2	C	599	GLU
2	C	600	ASP
2	C	607	ASP
2	C	614	ARG

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Mol	Chain	Res	Type
2	C	617	ASP
2	C	620	LEU
2	C	630	ARG
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	644	VAL
2	C	648	ARG
2	C	650	ARG
2	C	654	LEU
2	C	657	ASP
2	C	659	PRO
2	C	672	VAL
2	C	673	LEU
2	C	677	MET
2	C	679	PHE
2	C	685	GLU
2	C	689	VAL
2	C	699	PHE
2	C	701	THR
2	C	708	TYR
2	C	722	ILE
2	C	726	ILE
2	C	727	PRO
2	C	729	LEU
2	C	737	LEU
2	C	744	ARG
2	C	766	GLU
2	C	775	ARG
2	C	785	VAL
2	C	799	ILE
2	C	807	ARG
2	C	821	GLU
2	C	831	ARG
2	C	839	LEU
2	C	841	ASN
2	C	853	LEU
2	C	862	PRO
2	C	863	ASP
2	C	870	ILE
2	C	871	LEU
2	C	881	ASN

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Mol	Chain	Res	Type
2	C	886	LEU
2	C	900	ARG
2	C	904	PRO
2	C	905	ILE
2	C	916	GLU
2	C	928	LYS
2	C	934	PHE
2	C	937	ASP
2	C	939	ARG
2	C	943	VAL
2	C	950	LEU
2	C	958	THR
2	C	963	LEU
2	C	975	TYR
2	C	984	GLU
2	C	986	PRO
2	C	988	VAL
2	C	999	HIS
2	C	1000	MET
2	C	1015	LEU
2	C	1016	ILE
2	C	1017	THR
2	C	1019	GLN
2	C	1035	MET
2	C	1036	GLU
2	C	1040	LEU
2	C	1052	MET
2	C	1057	SER
2	C	1079	PRO
2	C	1091	GLU
2	C	1092	LEU
2	C	1095	LEU
2	C	1099	VAL
2	C	1100	GLN
2	C	1104	GLU
2	C	1106	ASP
2	C	1115	LEU
2	C	1117	SER
2	C	1119	ARG
3	D	3	LYS
3	D	9	ARG
3	D	12	LEU

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Mol	Chain	Res	Type
3	D	14	SER
3	D	20	SER
3	D	25	GLU
3	D	27	GLU
3	D	32	ILE
3	D	35	ARG
3	D	39	PRO
3	D	47	GLU
3	D	53	ILE
3	D	55	ASP
3	D	56	TYR
3	D	60	CYS
3	D	65	ARG
3	D	68	PHE
3	D	72	VAL
3	D	74	GLU
3	D	75	ARG
3	D	85	VAL
3	D	86	ARG
3	D	87	ARG
3	D	102	ILE
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	122	GLU
3	D	130	SER
3	D	134	VAL
3	D	135	LEU
3	D	136	ASP
3	D	137	PRO
3	D	142	LEU
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	153	LEU
3	D	159	ARG
3	D	160	GLU
3	D	162	ARG
3	D	169	TYR

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Mol	Chain	Res	Type
3	D	178	LEU
3	D	184	GLU
3	D	185	VAL
3	D	199	LEU
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	211	VAL
3	D	216	VAL
3	D	389	GLU
3	D	393	ILE
3	D	394	LEU
3	D	400	VAL
3	D	410	SER
3	D	411	THR
3	D	413	ASP
3	D	419	ASP
3	D	421	LEU
3	D	426	LYS
3	D	428	LYS
3	D	431	VAL
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	453	ASP
3	D	456	MET
3	D	468	LEU
3	D	474	GLU
3	D	488	ARG
3	D	489	ARG
3	D	496	LEU
3	D	498	VAL
3	D	508	ARG
3	D	511	TRP
3	D	520	LEU
3	D	521	PRO
3	D	528	VAL
3	D	542	ASP
3	D	549	ASN
3	D	554	LEU

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Mol	Chain	Res	Type
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	581	LEU
3	D	584	ASN
3	D	586	ARG
3	D	591	VAL
3	D	594	PRO
3	D	597	ASP
3	D	601	ARG
3	D	602	SER
3	D	603	LEU
3	D	604	THR
3	D	605	ASP
3	D	611	GLN
3	D	619	LEU
3	D	635	PRO
3	D	640	HIS
3	D	641	GLN
3	D	644	LEU
3	D	651	GLU
3	D	652	LEU
3	D	659	LYS
3	D	661	MET
3	D	662	GLU
3	D	669	ASN
3	D	676	MET
3	D	677	LEU
3	D	681	ARG
3	D	683	ILE
3	D	695	ILE
3	D	709	HIS
3	D	711	LEU
3	D	725	SER
3	D	741	ASP
3	D	783	ARG
3	D	784	ASP
3	D	792	ILE
3	D	794	GLN
3	D	804	LEU
3	D	828	LYS
3	D	835	SER

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Mol	Chain	Res	Type
3	D	836	VAL
3	D	840	LYS
3	D	861	GLN
3	D	863	VAL
3	D	865	THR
3	D	871	LYS
3	D	876	SER
3	D	877	PRO
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	899	LEU
3	D	902	LEU
3	D	903	ASP
3	D	904	VAL
3	D	916	TYR
3	D	919	PHE
3	D	920	LEU
3	D	922	LEU
3	D	925	GLU
3	D	931	LEU
3	D	932	ASP
3	D	936	TYR
3	D	940	THR
3	D	951	ILE
3	D	969	ARG
3	D	972	LEU
3	D	988	ARG
3	D	990	ASP
3	D	994	GLN
3	D	1001	GLU
3	D	1021	TYR
3	D	1029	ARG
3	D	1037	GLN
3	D	1041	LEU
3	D	1042	ARG
3	D	1044	LEU
3	D	1045	MET
3	D	1058	ARG

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Mol	Chain	Res	Type
3	D	1062	ARG
3	D	1066	THR
3	D	1068	LEU
3	D	1083	ASP
3	D	1086	LEU
3	D	1087	ARG
3	D	1088	THR
3	D	1090	ASP
3	D	1096	ARG
3	D	1101	VAL
3	D	1109	GLU
3	D	1112	CYS
3	D	1116	ASN
3	D	1134	LEU
3	D	1135	ARG
3	D	1145	TYR
3	D	1147	ARG
3	D	1151	ARG
3	D	1161	GLU
3	D	1164	ARG
3	D	1166	LEU
3	D	1167	SER
3	D	1182	GLU
3	D	1183	ILE
3	D	1190	SER
3	D	1195	GLN
3	D	1196	THR
3	D	1197	ARG
3	D	1201	CYS
3	D	1207	TYR
3	D	1208	ASP
3	D	1211	MET
3	D	1213	ARG
3	D	1219	GLU
3	D	1228	SER
3	D	1232	PRO
3	D	1234	THR
3	D	1235	GLN
3	D	1238	MET
3	D	1240	THR
3	D	1243	THR
3	D	1251	ASP

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Mol	Chain	Res	Type
3	D	1252	ILE
3	D	1253	THR
3	D	1264	GLU
3	D	1274	ILE
3	D	1278	ASP
3	D	1285	GLU
3	D	1290	LEU
3	D	1304	LYS
3	D	1305	LEU
3	D	1306	PRO
3	D	1311	LEU
3	D	1312	LEU
3	D	1314	LYS
3	D	1315	ASP
3	D	1320	GLU
3	D	1331	ASP
3	D	1344	VAL
3	D	1346	ARG
3	D	1348	LEU
3	D	1372	VAL
3	D	1373	ARG
3	D	1382	THR
3	D	1383	ASP
3	D	1387	SER
3	D	1389	LEU
3	D	1396	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1415	VAL
3	D	1422	MET
3	D	1424	VAL
3	D	1425	THR
3	D	1426	LYS
3	D	1427	SER
3	D	1429	LEU
3	D	1431	THR
3	D	1432	LYS
3	D	1441	GLN
3	D	1442	ASN
3	D	1452	ILE
3	D	1464	GLU
3	D	1478	SER

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Mol	Chain	Res	Type
3	D	1483	PHE
3	D	1485	GLN
3	D	1492	LEU
4	E	23	VAL
4	E	32	ARG
4	E	42	PRO
4	E	51	LEU
4	E	55	PHE
4	E	56	ASP
4	E	57	ASP
4	E	59	ASN
4	E	61	GLU
4	E	72	ARG
4	E	77	GLU
4	E	78	ASN
4	E	79	LEU
4	E	81	PRO
4	E	82	GLU
5	F	77	THR
5	F	84	TYR
5	F	86	HIS
5	F	122	LEU
5	F	124	PRO
5	F	128	ARG
5	F	136	LEU
5	F	142	ARG
5	F	145	PRO
5	F	148	LYS
5	F	149	GLU
5	F	152	ASP
5	F	156	VAL
5	F	174	LEU
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	197	SER
5	F	222	ARG
5	F	229	TYR
5	F	234	LYS
5	F	245	GLN
5	F	249	ARG
5	F	258	ILE

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Mol	Chain	Res	Type
5	F	259	ARG
5	F	280	GLN
5	F	282	LEU
5	F	287	THR
5	F	288	TYR
5	F	289	GLU
5	F	291	ILE
5	F	295	MET
5	F	316	SER
5	F	318	GLU
5	F	320	PRO
5	F	321	ILE
5	F	323	ASP
5	F	324	GLU
5	F	326	ASP
5	F	328	PHE
5	F	341	PRO
5	F	347	GLN
5	F	351	SER
5	F	353	GLU
5	F	359	SER
5	F	361	LEU
5	F	362	SER
5	F	363	GLU
5	F	370	LYS
5	F	375	LEU
5	F	395	GLU
5	F	398	ARG
5	F	399	GLN
5	F	405	LEU
5	F	408	LEU
5	F	409	LYS
5	F	410	TYR
5	F	414	ARG
5	F	416	ARG
5	F	418	LEU
5	F	419	ARG
5	F	422	LEU
5	F	423	ASP
1	K	1	MET
1	K	5	LYS
1	K	9	PRO

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Mol	Chain	Res	Type
1	K	12	THR
1	K	15	THR
1	K	26	GLU
1	K	30	ARG
1	K	54	THR
1	K	62	LEU
1	K	73	GLU
1	K	80	LEU
1	K	88	ARG
1	K	89	PHE
1	K	93	SER
1	K	95	GLN
1	K	96	THR
1	K	99	LEU
1	K	112	ARG
1	K	121	GLU
1	K	127	LEU
1	K	142	VAL
1	K	143	ARG
1	K	146	ARG
1	K	148	VAL
1	K	160	ASP
1	K	162	ILE
1	K	163	ASN
1	K	167	VAL
1	K	170	VAL
1	K	176	ARG
1	K	185	ARG
1	K	186	LEU
1	K	188	GLN
1	K	189	ARG
1	K	196	THR
1	K	205	VAL
1	K	206	THR
1	K	208	LEU
1	K	218	LEU
1	K	219	ARG
1	K	227	ASN
1	K	228	PRO
1	L	1	MET
1	L	2	LEU
1	L	5	LYS

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Mol	Chain	Res	Type
1	L	9	PRO
1	L	12	THR
1	L	16	GLN
1	L	26	GLU
1	L	30	ARG
1	L	54	THR
1	L	62	LEU
1	L	73	GLU
1	L	80	LEU
1	L	88	ARG
1	L	89	PHE
1	L	93	SER
1	L	95	GLN
1	L	96	THR
1	L	99	LEU
1	L	112	ARG
1	L	119	ASP
1	L	121	GLU
1	L	137	ARG
1	L	138	LEU
1	L	140	MET
1	L	145	ASP
1	L	148	VAL
1	L	154	GLU
1	L	156	HIS
1	L	160	ASP
1	L	161	ARG
1	L	162	ILE
1	L	176	ARG
1	L	186	LEU
1	L	190	THR
1	L	197	LEU
1	L	204	SER
1	L	206	THR
1	L	213	GLN
1	L	223	THR
1	L	228	PRO
1	L	229	GLN
2	M	6	PHE
2	M	9	ILE
2	M	19	THR
2	M	24	GLU

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Mol	Chain	Res	Type
2	M	26	TYR
2	M	27	ARG
2	M	31	GLN
2	M	41	ASN
2	M	48	PHE
2	M	49	ARG
2	M	52	PHE
2	M	54	ILE
2	M	57	GLU
2	M	58	ASP
2	M	65	VAL
2	M	70	GLU
2	M	73	LEU
2	M	77	PRO
2	M	82	GLU
2	M	85	GLU
2	M	86	LYS
2	M	87	ASP
2	M	88	LEU
2	M	95	TYR
2	M	100	LEU
2	M	104	ASP
2	M	107	LEU
2	M	113	VAL
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	118	ILE
2	M	129	ILE
2	M	134	ARG
2	M	138	SER
2	M	144	PRO
2	M	146	VAL
2	M	150	PRO
2	M	152	PRO
2	M	158	TYR
2	M	166	PRO
2	M	167	LYS
2	M	168	ARG
2	M	170	PRO
2	M	178	PRO
2	M	186	VAL

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Mol	Chain	Res	Type
2	M	189	ARG
2	M	190	LYS
2	M	191	PHE
2	M	193	LEU
2	M	196	LEU
2	M	198	ARG
2	M	203	ASP
2	M	204	GLN
2	M	207	LEU
2	M	209	ARG
2	M	211	LEU
2	M	214	TYR
2	M	218	VAL
2	M	221	LEU
2	M	223	ASP
2	M	226	VAL
2	M	230	ARG
2	M	240	THR
2	M	241	LEU
2	M	242	LEU
2	M	246	ASP
2	M	250	ARG
2	M	252	LYS
2	M	256	TYR
2	M	257	VAL
2	M	261	ILE
2	M	266	ARG
2	M	268	ASP
2	M	269	LEU
2	M	275	TYR
2	M	276	LYS
2	M	279	GLU
2	M	281	LEU
2	M	288	ARG
2	M	289	THR
2	M	290	LEU
2	M	293	PHE
2	M	297	GLU
2	M	301	GLU
2	M	302	VAL
2	M	303	PHE
2	M	309	TYR

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Mol	Chain	Res	Type
2	M	321	GLU
2	M	323	ASP
2	M	332	ARG
2	M	334	ARG
2	M	340	MET
2	M	341	THR
2	M	348	LEU
2	M	359	MET
2	M	367	LEU
2	M	379	GLU
2	M	383	ARG
2	M	384	GLU
2	M	388	ARG
2	M	400	PRO
2	M	402	SER
2	M	403	SER
2	M	415	PRO
2	M	419	THR
2	M	420	ARG
2	M	422	ARG
2	M	425	PHE
2	M	426	ASP
2	M	433	THR
2	M	439	CYS
2	M	443	THR
2	M	452	ILE
2	M	455	LEU
2	M	460	ARG
2	M	474	VAL
2	M	487	THR
2	M	491	GLU
2	M	500	ASN
2	M	503	LEU
2	M	520	GLU
2	M	523	ILE
2	M	527	GLU
2	M	535	SER
2	M	543	ASN
2	M	548	PRO
2	M	549	PHE
2	M	556	ASN
2	M	564	MET

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Mol	Chain	Res	Type
2	M	565	GLN
2	M	566	THR
2	M	579	VAL
2	M	589	ARG
2	M	600	ASP
2	M	609	ASN
2	M	614	ARG
2	M	630	ARG
2	M	632	ASN
2	M	633	GLN
2	M	637	LEU
2	M	640	ARG
2	M	645	VAL
2	M	648	ARG
2	M	650	ARG
2	M	654	LEU
2	M	662	GLU
2	M	672	VAL
2	M	679	PHE
2	M	680	ASP
2	M	689	VAL
2	M	690	ILE
2	M	697	ARG
2	M	698	ASP
2	M	699	PHE
2	M	701	THR
2	M	714	ASP
2	M	722	ILE
2	M	726	ILE
2	M	727	PRO
2	M	729	LEU
2	M	744	ARG
2	M	766	GLU
2	M	768	THR
2	M	770	GLU
2	M	774	LEU
2	M	790	LEU
2	M	791	ARG
2	M	799	ILE
2	M	807	ARG
2	M	813	VAL
2	M	831	ARG

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Mol	Chain	Res	Type
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	861	LEU
2	M	865	THR
2	M	869	VAL
2	M	871	LEU
2	M	878	SER
2	M	881	ASN
2	M	886	LEU
2	M	900	ARG
2	M	904	PRO
2	M	905	ILE
2	M	918	LEU
2	M	928	LYS
2	M	929	ARG
2	M	934	PHE
2	M	937	ASP
2	M	941	VAL
2	M	942	GLU
2	M	950	LEU
2	M	952	LEU
2	M	958	THR
2	M	959	PRO
2	M	962	GLN
2	M	971	LYS
2	M	983	ILE
2	M	988	VAL
2	M	995	MET
2	M	999	HIS
2	M	1000	MET
2	M	1005	MET
2	M	1009	SER
2	M	1014	SER
2	M	1015	LEU
2	M	1016	ILE
2	M	1017	THR
2	M	1018	GLN
2	M	1019	GLN
2	M	1021	LEU
2	M	1052	MET
2	M	1074	GLU

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Mol	Chain	Res	Type
2	M	1075	ASP
2	M	1097	LEU
2	M	1100	GLN
2	M	1104	GLU
2	M	1105	LYS
2	M	1106	ASP
2	M	1107	ASN
2	M	1115	LEU
2	M	1119	ARG
3	N	3	LYS
3	N	7	LYS
3	N	14	SER
3	N	15	PRO
3	N	27	GLU
3	N	35	ARG
3	N	39	PRO
3	N	47	GLU
3	N	53	ILE
3	N	67	ARG
3	N	68	PHE
3	N	69	GLU
3	N	71	LYS
3	N	75	ARG
3	N	76	CYS
3	N	79	GLU
3	N	83	SER
3	N	85	VAL
3	N	87	ARG
3	N	90	MET
3	N	94	GLU
3	N	98	PRO
3	N	101	HIS
3	N	102	ILE
3	N	107	ASP
3	N	112	ILE
3	N	115	LEU
3	N	118	LEU
3	N	119	SER
3	N	121	THR
3	N	122	GLU
3	N	123	LEU
3	N	126	VAL

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Mol	Chain	Res	Type
3	N	128	TYR
3	N	133	ILE
3	N	134	VAL
3	N	135	LEU
3	N	138	LYS
3	N	142	LEU
3	N	143	ASN
3	N	146	PRO
3	N	149	LYS
3	N	153	LEU
3	N	156	GLU
3	N	161	LEU
3	N	168	THR
3	N	169	TYR
3	N	171	LEU
3	N	178	LEU
3	N	185	VAL
3	N	186	VAL
3	N	199	LEU
3	N	200	ASP
3	N	206	ARG
3	N	208	PRO
3	N	213	VAL
3	N	389	GLU
3	N	394	LEU
3	N	400	VAL
3	N	402	PRO
3	N	406	ASP
3	N	408	GLU
3	N	409	VAL
3	N	411	THR
3	N	413	ASP
3	N	414	ARG
3	N	421	LEU
3	N	423	ASP
3	N	429	SER
3	N	432	TYR
3	N	441	ARG
3	N	444	VAL
3	N	445	ARG
3	N	452	ILE
3	N	456	MET

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Mol	Chain	Res	Type
3	N	462	GLN
3	N	468	LEU
3	N	473	LEU
3	N	498	VAL
3	N	502	PHE
3	N	503	LEU
3	N	504	ASP
3	N	505	SER
3	N	507	ASN
3	N	508	ARG
3	N	521	PRO
3	N	523	ASP
3	N	525	ARG
3	N	538	SER
3	N	539	ASP
3	N	543	LEU
3	N	547	LEU
3	N	549	ASN
3	N	554	LEU
3	N	560	GLN
3	N	564	GLU
3	N	569	ASN
3	N	587	ARG
3	N	591	VAL
3	N	594	PRO
3	N	601	ARG
3	N	606	ILE
3	N	619	LEU
3	N	624	ASP
3	N	625	TYR
3	N	629	SER
3	N	636	GLN
3	N	641	GLN
3	N	642	CYS
3	N	645	PRO
3	N	651	GLU
3	N	652	LEU
3	N	676	MET
3	N	681	ARG
3	N	683	ILE
3	N	695	ILE
3	N	702	LEU

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Mol	Chain	Res	Type
3	N	704	ARG
3	N	710	ARG
3	N	719	VAL
3	N	733	CYS
3	N	734	GLU
3	N	747	VAL
3	N	749	VAL
3	N	752	SER
3	N	754	PHE
3	N	761	ILE
3	N	769	LEU
3	N	783	ARG
3	N	784	ASP
3	N	794	GLN
3	N	796	ARG
3	N	804	LEU
3	N	817	GLU
3	N	827	ILE
3	N	828	LYS
3	N	833	GLU
3	N	835	SER
3	N	836	VAL
3	N	838	ARG
3	N	841	TYR
3	N	842	VAL
3	N	861	GLN
3	N	862	ASP
3	N	863	VAL
3	N	866	VAL
3	N	875	THR
3	N	877	PRO
3	N	879	ARG
3	N	897	TRP
3	N	899	LEU
3	N	901	GLN
3	N	903	ASP
3	N	904	VAL
3	N	911	LEU
3	N	922	LEU
3	N	926	LYS
3	N	932	ASP
3	N	934	LEU

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Mol	Chain	Res	Type
3	N	940	THR
3	N	944	THR
3	N	948	THR
3	N	951	ILE
3	N	952	ASP
3	N	964	LEU
3	N	972	LEU
3	N	988	ARG
3	N	997	THR
3	N	1001	GLU
3	N	1003	VAL
3	N	1007	VAL
3	N	1019	PRO
3	N	1041	LEU
3	N	1042	ARG
3	N	1044	LEU
3	N	1045	MET
3	N	1046	GLN
3	N	1049	SER
3	N	1055	VAL
3	N	1058	ARG
3	N	1062	ARG
3	N	1063	GLU
3	N	1066	THR
3	N	1068	LEU
3	N	1073	SER
3	N	1086	LEU
3	N	1088	THR
3	N	1096	ARG
3	N	1097	LYS
3	N	1101	VAL
3	N	1108	ARG
3	N	1109	GLU
3	N	1111	ASP
3	N	1114	THR
3	N	1116	ASN
3	N	1117	TYR
3	N	1118	ILE
3	N	1119	SER
3	N	1126	ASP
3	N	1130	ARG
3	N	1131	SER

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Mol	Chain	Res	Type
3	N	1134	LEU
3	N	1135	ARG
3	N	1147	ARG
3	N	1148	VAL
3	N	1152	GLU
3	N	1153	VAL
3	N	1156	LEU
3	N	1161	GLU
3	N	1164	ARG
3	N	1166	LEU
3	N	1168	MET
3	N	1169	ASP
3	N	1173	LEU
3	N	1176	LYS
3	N	1182	GLU
3	N	1188	VAL
3	N	1189	ARG
3	N	1190	SER
3	N	1191	PRO
3	N	1197	ARG
3	N	1200	VAL
3	N	1201	CYS
3	N	1204	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1211	MET
3	N	1213	ARG
3	N	1231	GLU
3	N	1235	GLN
3	N	1238	MET
3	N	1243	THR
3	N	1251	ASP
3	N	1252	ILE
3	N	1253	THR
3	N	1256	LEU
3	N	1257	PRO
3	N	1262	LEU
3	N	1264	GLU
3	N	1274	ILE
3	N	1275	SER
3	N	1283	ILE
3	N	1284	GLU

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Mol	Chain	Res	Type
3	N	1285	GLU
3	N	1295	GLU
3	N	1297	GLU
3	N	1304	LYS
3	N	1306	PRO
3	N	1308	GLU
3	N	1310	ARG
3	N	1311	LEU
3	N	1312	LEU
3	N	1314	LYS
3	N	1323	GLN
3	N	1331	ASP
3	N	1332	PRO
3	N	1337	GLU
3	N	1346	ARG
3	N	1363	LEU
3	N	1382	THR
3	N	1383	ASP
3	N	1387	SER
3	N	1388	ARG
3	N	1389	LEU
3	N	1390	LEU
3	N	1396	GLU
3	N	1407	LEU
3	N	1408	ILE
3	N	1410	GLU
3	N	1419	PRO
3	N	1422	MET
3	N	1424	VAL
3	N	1429	LEU
3	N	1430	SER
3	N	1431	THR
3	N	1432	LYS
3	N	1442	ASN
3	N	1452	ILE
3	N	1464	GLU
3	N	1468	LEU
3	N	1484	THR
3	N	1485	GLN
4	O	20	THR
4	O	30	LEU
4	O	32	ARG

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Mol	Chain	Res	Type
4	O	42	PRO
4	O	43	GLU
4	O	44	GLU
4	O	51	LEU
4	O	56	ASP
4	O	59	ASN
4	O	61	GLU
4	O	66	LYS
4	O	69	LEU
4	O	77	GLU
4	O	79	LEU
4	O	81	PRO
5	P	77	THR
5	P	78	SER
5	P	80	PRO
5	P	82	ARG
5	P	84	TYR
5	P	86	HIS
5	P	88	ILE
5	P	91	VAL
5	P	117	SER
5	P	122	LEU
5	P	125	ASP
5	P	128	ARG
5	P	134	LYS
5	P	145	PRO
5	P	149	GLU
5	P	154	LYS
5	P	161	GLN
5	P	170	HIS
5	P	174	LEU
5	P	181	GLU
5	P	187	LEU
5	P	236	SER
5	P	253	ASP
5	P	263	HIS
5	P	274	THR
5	P	279	GLN
5	P	282	LEU
5	P	286	PRO
5	P	287	THR
5	P	288	TYR

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Mol	Chain	Res	Type
5	P	289	GLU
5	P	295	MET
5	P	303	ARG
5	P	308	LEU
5	P	324	GLU
5	P	326	ASP
5	P	327	SER
5	P	341	PRO
5	P	347	GLN
5	P	351	SER
5	P	361	LEU
5	P	364	ARG
5	P	370	LYS
5	P	375	LEU
5	P	394	ARG
5	P	398	ARG
5	P	405	LEU
5	P	406	ARG
5	P	408	LEU
5	P	409	LYS
5	P	410	TYR
5	P	411	HIS
5	P	414	ARG
5	P	418	LEU
5	P	420	ASP
5	P	422	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (165) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	ASN
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	227	ASN
1	B	81	ASN
1	B	95	GLN
1	B	124	ASN
1	B	128	HIS
1	B	156	HIS

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Mol	Chain	Res	Type
1	B	163	ASN
1	B	212	ASN
1	B	229	GLN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	139	GLN
2	C	343	GLN
2	C	390	GLN
2	C	406	HIS
2	C	498	GLN
2	C	538	GLN
2	C	545	ASN
2	C	565	GLN
2	C	609	ASN
2	C	647	GLN
2	C	671	ASN
2	C	704	HIS
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	843	HIS
2	C	881	ASN
2	C	889	HIS
2	C	969	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1100	GLN
3	D	101	HIS
3	D	166	GLN
3	D	462	GLN
3	D	549	ASN
3	D	560	GLN
3	D	569	ASN
3	D	575	GLN
3	D	669	ASN
3	D	680	GLN
3	D	703	ASN
3	D	717	GLN
3	D	727	GLN
3	D	756	GLN

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Mol	Chain	Res	Type
3	D	762	GLN
3	D	794	GLN
3	D	855	HIS
3	D	861	GLN
3	D	917	GLN
3	D	976	GLN
3	D	1025	GLN
3	D	1033	GLN
3	D	1103	HIS
3	D	1116	ASN
3	D	1124	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	1393	GLN
3	D	1441	GLN
3	D	1465	ASN
3	D	1489	GLN
4	E	29	GLN
4	E	33	HIS
5	F	83	GLN
5	F	90	GLN
5	F	218	GLN
5	F	254	GLN
5	F	269	ASN
5	F	312	GLN
1	K	38	ASN
1	K	81	ASN
1	K	95	GLN
1	K	124	ASN
1	K	163	ASN
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	K	227	ASN
1	L	95	GLN
1	L	124	ASN
1	L	128	HIS
1	L	156	HIS

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Mol	Chain	Res	Type
1	L	163	ASN
1	L	212	ASN
1	L	221	HIS
2	M	31	GLN
2	M	41	ASN
2	M	45	GLN
2	M	117	HIS
2	M	327	HIS
2	M	343	GLN
2	M	431	HIS
2	M	552	HIS
2	M	575	GLN
2	M	609	ASN
2	M	670	GLN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	843	HIS
2	M	881	ASN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1064	ASN
2	M	1100	GLN
3	N	101	HIS
3	N	507	ASN
3	N	541	ASN
3	N	549	ASN
3	N	551	ASN
3	N	636	GLN
3	N	640	HIS
3	N	680	GLN
3	N	703	ASN
3	N	709	HIS
3	N	714	GLN
3	N	727	GLN
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	824	ASN

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Mol	Chain	Res	Type
3	N	845	ASN
3	N	861	GLN
3	N	962	GLN
3	N	994	GLN
3	N	1046	GLN
3	N	1116	ASN
3	N	1124	GLN
3	N	1195	GLN
3	N	1202	GLN
3	N	1254	GLN
3	N	1323	GLN
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1374	GLN
3	N	1465	ASN
3	N	1489	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	161	GLN
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	279	GLN
5	P	337	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 489 ligands modelled in this entry, 489 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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

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

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

EDS was not executed - this section will therefore be empty.

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

EDS was not executed - this section will therefore be empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section will therefore be empty.

6.4 Ligands [i](#)

EDS was not executed - this section will therefore be empty.

6.5 Other polymers [i](#)

EDS was not executed - this section will therefore be empty.