



# Full wwPDB X-ray Structure Validation Report ⓘ

May 28, 2020 – 09:51 pm BST

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

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

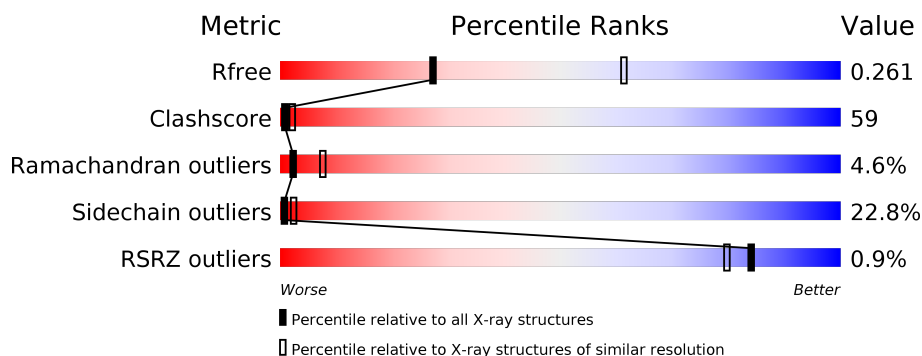
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.80 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	315	<div> <div>17%</div> <div>40%</div> <div>16%</div> <div>27%</div> </div>
1	B	315	<div> <div>3%</div> <div>17%</div> <div>45%</div> <div>11%</div> <div>27%</div> </div>
1	K	315	<div> <div>14%</div> <div>47%</div> <div>11%</div> <div>27%</div> </div>
1	L	315	<div> <div>%</div> <div>18%</div> <div>44%</div> <div>10%</div> <div>27%</div> </div>
2	C	1119	<div> <div>%</div> <div>22%</div> <div>60%</div> <div>17%</div> <div>.</div> </div>
2	M	1119	<div> <div>%</div> <div>25%</div> <div>57%</div> <div>17%</div> <div>.</div> </div>

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

## 2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 58679 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	33			

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

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

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

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

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

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

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

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

- Molecule 8 is water.

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

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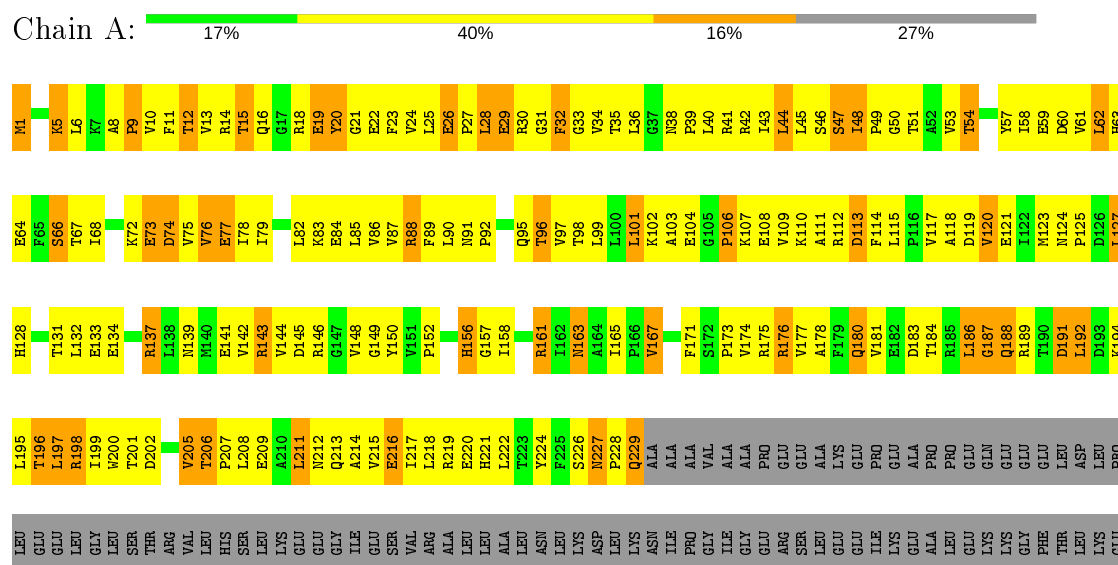
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	N	1038	Total 1038	O 1038	0	0
8	O	78	Total 78	O 78	0	0
8	P	267	Total 267	O 267	0	0

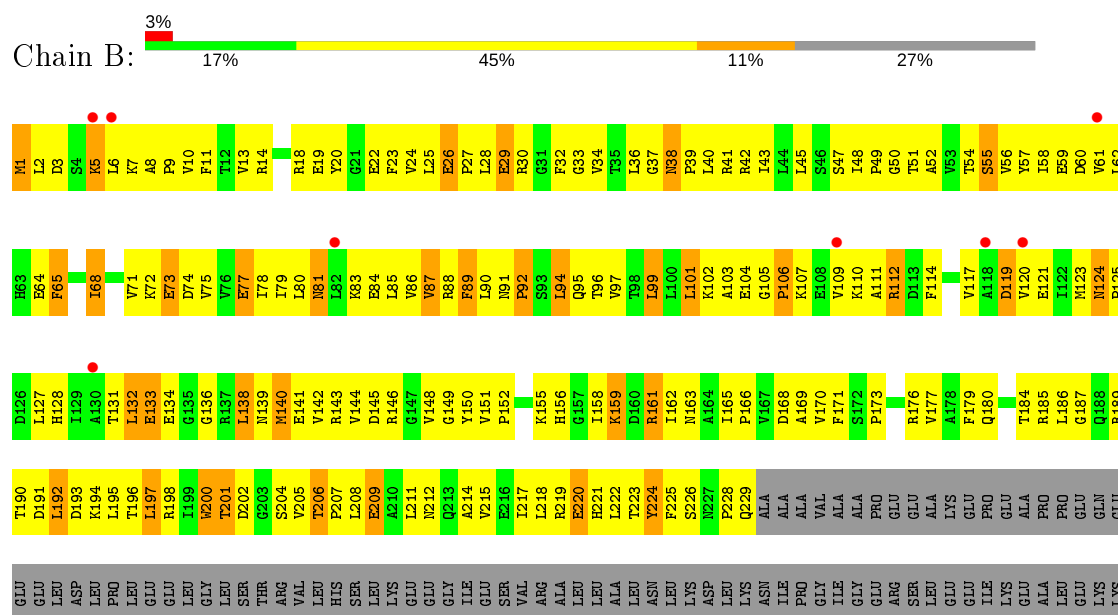
### 3 Residue-property plots

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

#### • Molecule 1: DNA-directed RNA polymerase alpha chain



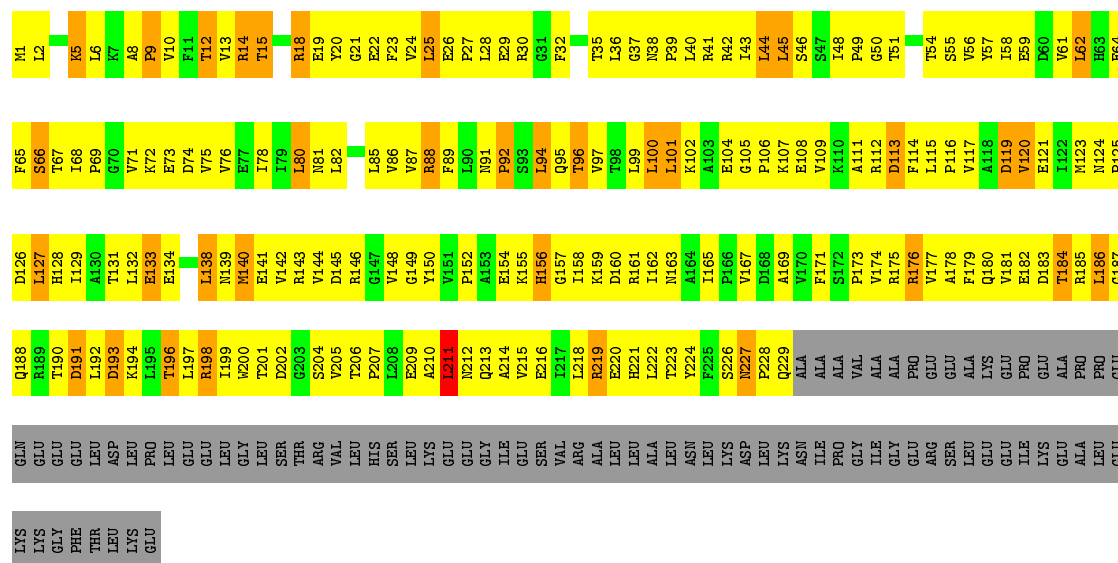
#### • Molecule 1: DNA-directed RNA polymerase alpha chain



GLY  
PHE  
THR  
LEU  
LYS  
GLU

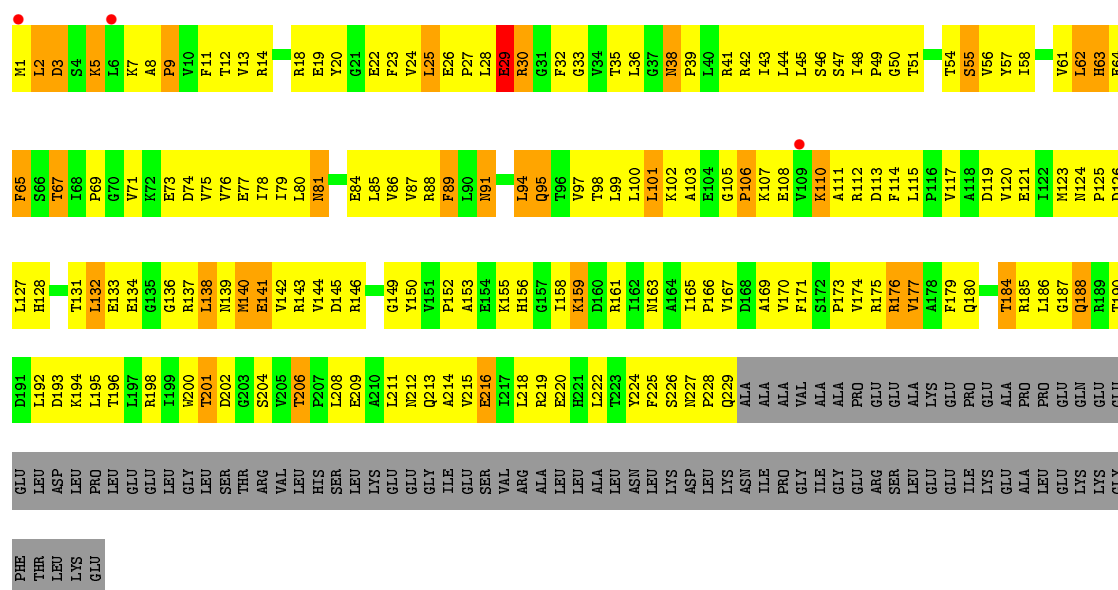
• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain K: 14% 47% 11% 27%



• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L: 18% 44% 10% 27%

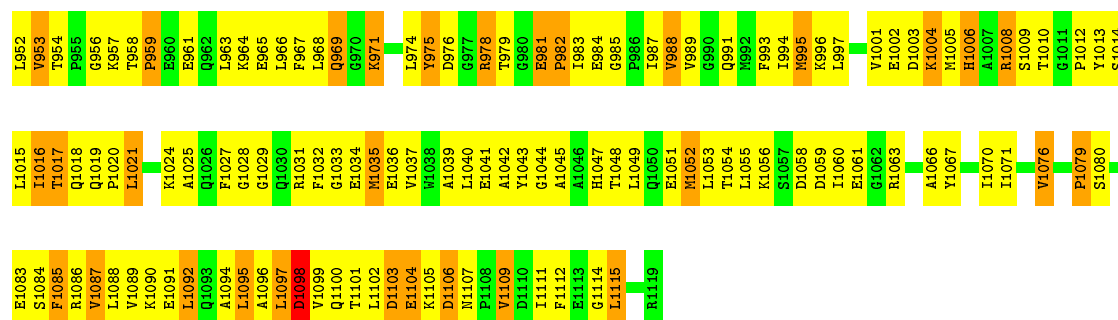


• Molecule 2: DNA-directed RNA polymerase beta chain

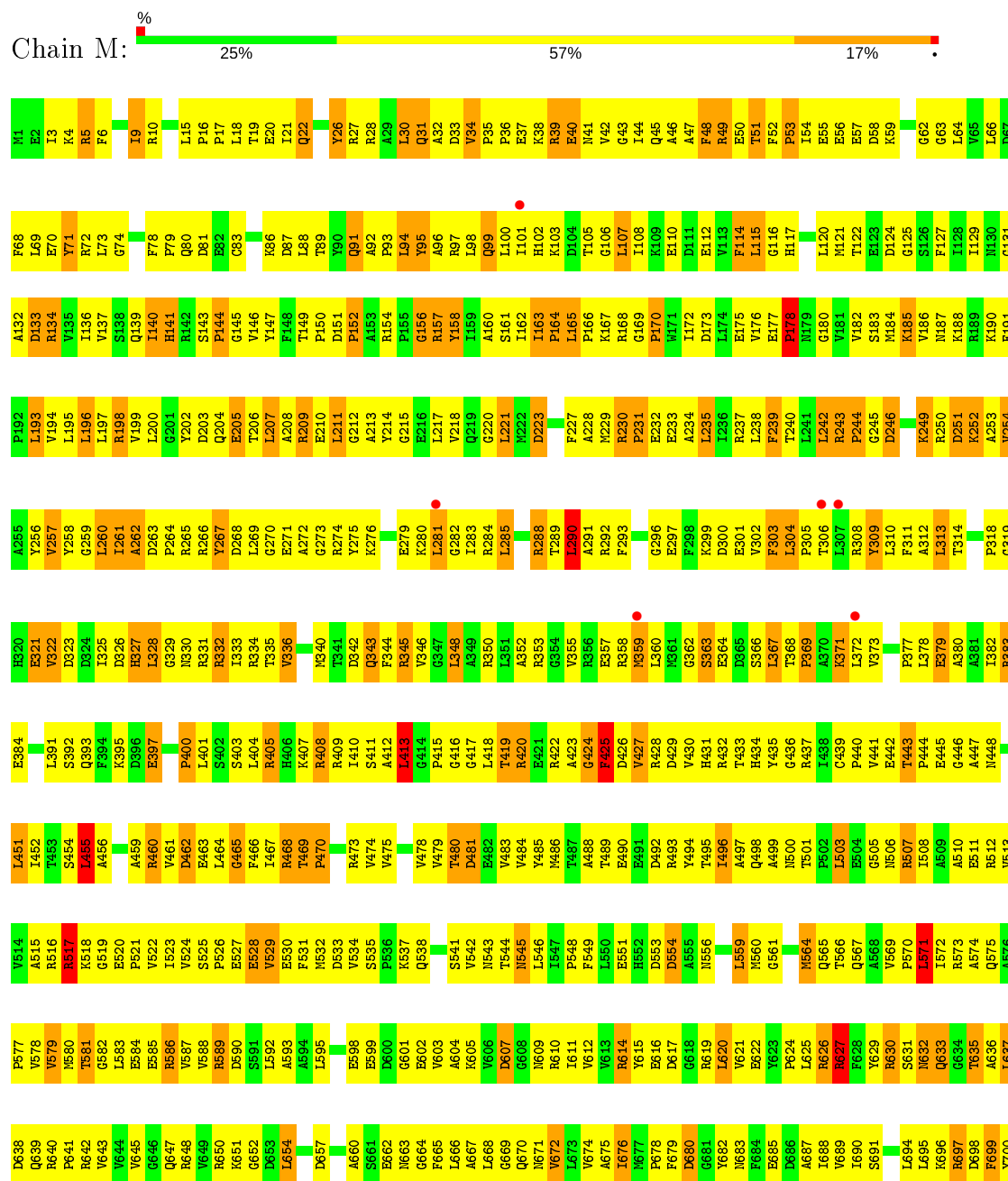
Chain C: 22% 60% 17%

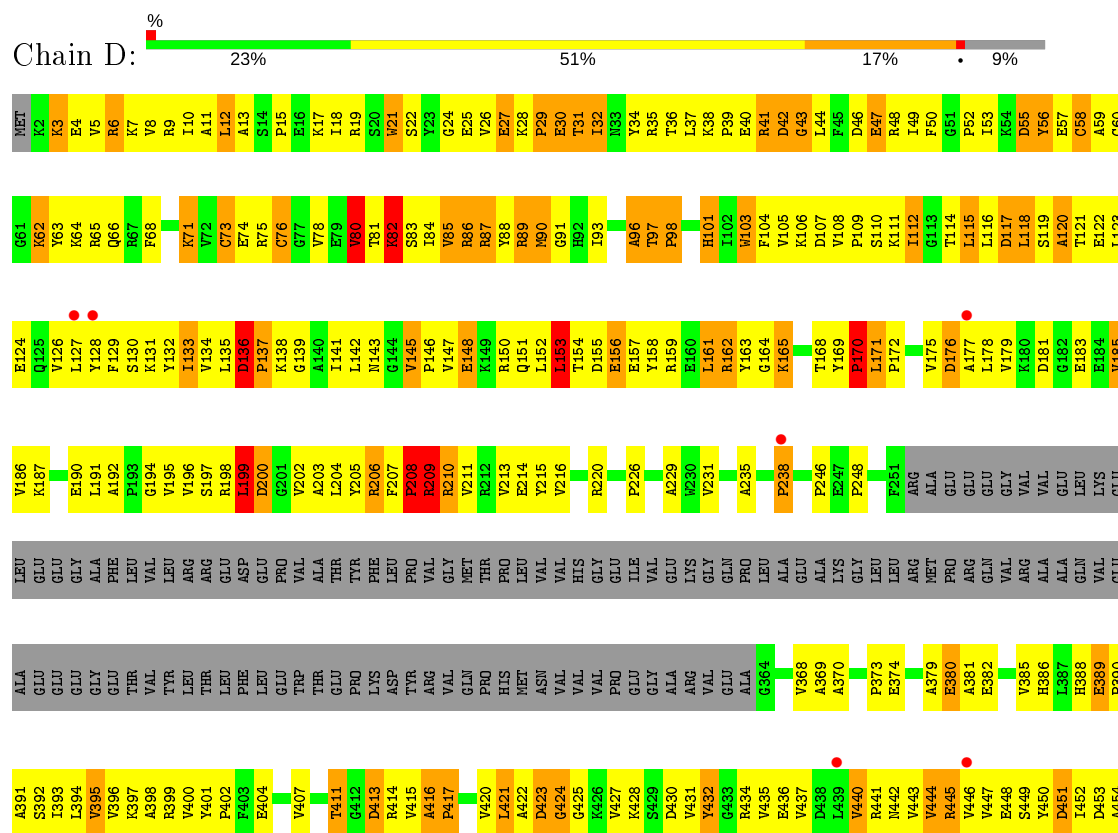


L890	L891	L892	Y895	F896	L897	Q898	Q899	Q900	Q901	Y901	Q902	Q903	F904	F905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R930	R931	R932	R933	R934	D937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
L831	L832	L833	R834	R835	R836	R837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
L754	L755	R758	T759	S760	F761	T762	T763	T764	T765	T766	T767	T768	T769	T770	T771	T772	T773	T774	T775	T776	T777	T778	T779	T780	T781	T782	T783	T784	T785	T786	T787	T788	T789	T790	T791	T792	T793	T794	T795	T796	T797	T798	T799	R802	T803	T804	T805	T806	T807	T808	T809	T810	T811	T812	T813	T814	T815	T816	T817	T818	T819	T820	T821	T822	T823	T824	T825	T826	T827	T828	T829	T830	T831	T832	T833	T834	T835	T836	T837	T838	T839	T840	T841	T842	T843	T844	T845	T846	T847	T848	T849	T850	T851	T852	T853	T854	T855	T856	T857	T858	T859	T860	T861	T862	T863	T864	T865	T866	T867	T868	T869	T870	T871	T872	T873	T874	T875	T876	T877	T878	T879	T880	T881	T882	T883	T884	T885	T886	T887	T888	T889	T890	T891	T892	T893	T894	T895	T896	T897	T898	T899	R902	T903	T904	T905	T906	T907	T908	T909	T910	T911	T912	T913	T914	T915	T916	T917	T918	T919	T920	T921	T922	T923	T924	T925	T926	T927	T928	T929	T930	T931	T932	T933	T934	T935	T936	T937	T938	T939	T940	T941	T942	T943	T944	T945	T946	T947	T948	T949	T950	T951	T952	T953	T954	T955	T956	T957	T958	T959	T960	T961	T962	T963	T964	T965	T966	T967	T968	T969	T970	T971	T972	T973	T974	T975	T976	T977	T978	T979	T980	T981	T982	T983	T984	T985	T986	T987	T988	T989	T990	T991	T992	T993	T994	T995	T996	T997	T998	T999																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
L694	L695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733	R734	R735	R736	R737	R738	R739	R740	R741	R742	R743	R744	R745	R746	R747	R748	R749	R750	R751	R752	R753	R754	R755	R756	R757	R758	R759	R760	R761	R762	R763	R764	R765	R766	R767	R768	R769	R770	R771	R772	R773	R774	R775	R776	R777	R778	R779	R780	R781	R782	R783	R784	R785	R786	R787	R788	R789	R790	R791	R792	R793	R794	R795	R796	R797	R798	R799	R800	R801	R802	R803	R804	R805	R806	R807	R808	R809	R810	R811	R812	R813	R814	R815	R816	R817	R818	R819	R820	R821	R822	R823	R824	R825	R826	R827	R828	R829	R830	R831	R832	R833	R834	R835	R836	R837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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L890	L891	L892	Y895	F896	L897	Q898	Q899	Q900	Q901	Y901	Q902	Q903	F904	F905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R930	R931	R932																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

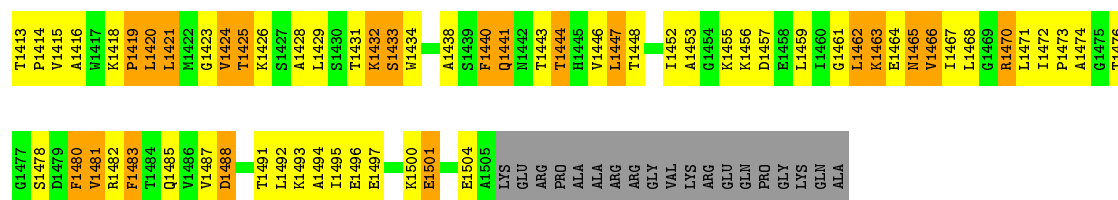


## • Molecule 2: DNA-directed RNA polymerase beta chain

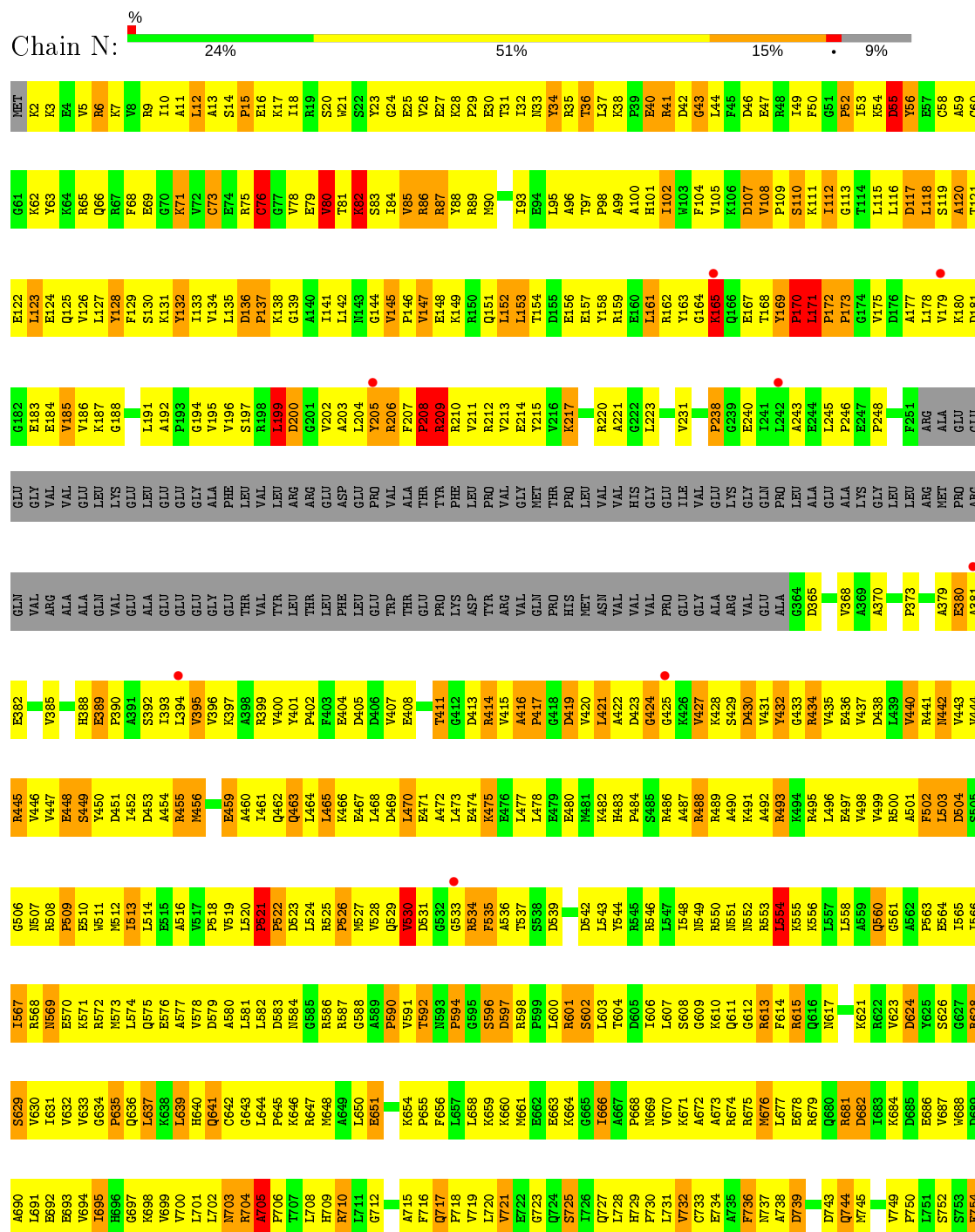


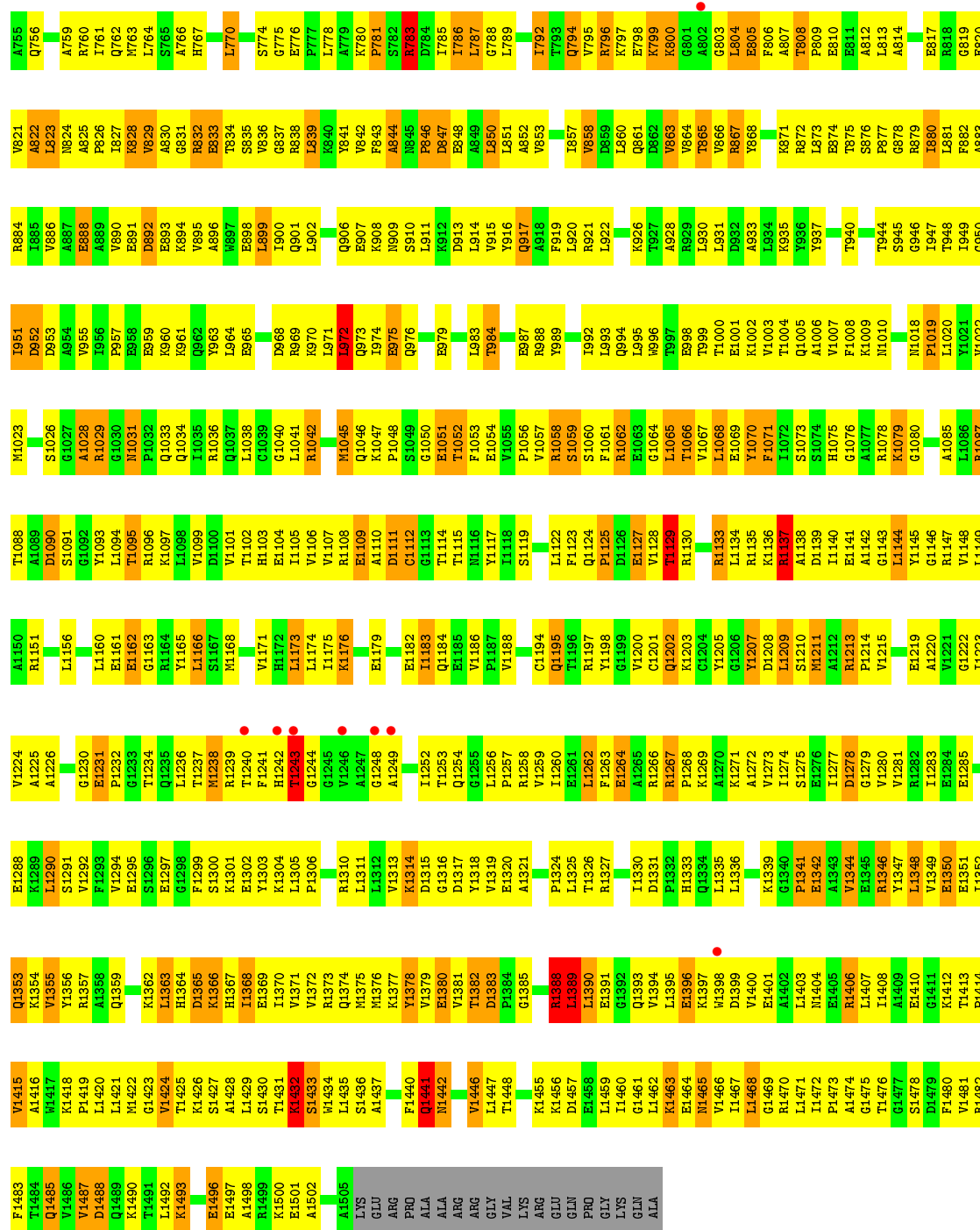


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Q1353	L1290	G1222	V1158	R096	I1035	E966	L902	E833	L770	A705	G643	V578	P518	
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	V1224		L1160	L1098	Q1037	D968	V904	S835	P772	T707	P645	L581	L520	A460
			E1161	V1099	L1038	R969	P905	V836	A773	L708	K646	L582	P521	L461
			G1162	D1100	C1039	K970	Q906	G837	S774	H709	R647	D583	P522	Q462
			G1163	V1101	G1040	L971	R908	R838	G775	R710	R648	N584	D523	Q463
			R1164	T1102	L1041	L972	K908	L839	E776	L711	A649	L524	L464	
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			L1166	E1104	G1043	Y974	L911	V843	L778	I713	E651	R587	P526	K466
			S1167	L1105	L1044	E975	L912	V842	A779	Q714	L652		H527	E467
			L1168	V1106	M1045	Q976	D913	F843	K780	A715	P653	P590	V528	L468
			D1169	V1107	Q1046	A977	L813	R943		F716	Q529	T592	Q530	D469
			K1304	R1108	K1047	Y978	L914	A844		Q717	P655		V530	L470
			D1170	E1109	P1048	E979	V915		R783	F718	F656	N593	D531	E471
			V1171	A1110	S1049	M980	Y916		D784	V719	L657	P594	G532	A472
				D1111	G1050	N980	Q917	E848	L785	L720	L658		G533	L473
				C1112	E1051	D985	A918	A849	L787	V721	K659	D597	R534	E474
				G1113	T1052	R986	F919	L850	G788	E722	K660	R598	F535	K475
				T1114	F1053	E987	L920	A852	L789	G723	M661	P599	A536	E476
				T1115	E1054	R988	R921	V853	Y790	Q724	E662	L600	T537	L477
				Y1116	V1055		L922		Y791	S725	E663	R601	S538	L478
				N1117	P1056	T992	G923	T857	L792	T726		S602	D539	E479
				L1118	V1057	L993	R924	V858	L793	Q727	T666	L602	L540	E480
				S1119	R1058	R994	E925	D859	Q794	L728	A667	T804	N541	M491
				V1120	S1059	L995	K926	L860	V795	H729	P668	D805	D542	K482
				P1121	S1060	R996	T927	Q861	R796	P730	N669	L606	L543	H483
				L1122	F1061	T997	A928	D862	K797	L731	V670	I607	V544	P484
				F1123	R1062	E998	R929	V863	E798		K671	S808	R545	S485
				Q1124	E1063	T999	L930	V864		E734	A672	G809	R546	S486
				P1125	G1064	L999	L831	T865	K800	A735	A673	K610	L547	L487
					L1065	E1001	Y936	V866		F736	R673	Q611	N549	R488
				V1128	T1066	K1002	Y937	R867	G803	N737	R675	G612	L548	R489
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			T1196	L1068	L1069	V1007	R939	E874	F806	D741	R679	Q616	R553	R493
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			R1133	F1071	R1008	T875	F941	T875	T808		Q680	L554	K555	L495
			L1134	K1072	P809	S876	S943	S876	P809	Q744	R681	L618	K556	L496
			R1135	S1073	L1072	N1010	T943	P877	E810	M745	D682	L619	K556	L497
			K1136	S1074	F1011	T944	T944	G878	E811		L683		L557	
			C1201	L1075	E1012	S945	S945	R879	A812	V749	K684	R622	L558	
			Q1202	H1075	E1013	G946	Q946	R879	L813		D685	V623	A559	V499
			K1203	G1076	L1013	I947	I947	L880	A814	S752	E686	D624	Q560	R500
			L1304	A1077	N1014	Y1014	T948				V687	Y625	G561	A501
			Y1205	R1078	Y1015	Y1015	T948	A883	S753		L688		L562	F502
			G1206	K1079			I949	R884	F754		D689	R628	P563	L503
			Y1207			P1019	G850		A817	A755			E564	L504
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			L1209	D1083		Y1021	D952	A889	G819	A757	L691	V630	L566	G506
			L1403	Y1145	T1084	V1022		V890	E820	E758	E692	L631	L567	N507
			E1342	G1146	A1085	E891	V955	E891	V821	A759	E693	V632	L567	R507
			A1343	R1147	L1086	A1024	R955	D892	A822	R760	V694	V633	R568	
			V1344	V1148	L1087	Q1025	P957	E893	L823	L761	I695	G634	N569	P509
			R1313		T1088	L1026	E958	R894	R824	Q762	P696		E570	
			P1214		A1089	G1027	R959	L894	R825	R763	G697	P435	K571	E510
			V1215	R1151	D1089	E1027	V895		P826	L764	K698	Q636	E370	
			L1216	E1152	D1090	A1028	A896		L827	R572	L512		R572	
			L1283	V1153	S1091	R1029	K961	R897	R828	S765	K638	L513	M573	
			E1284	E1154	G1092		Q962	E898	V829	A766	L639	L514	L574	
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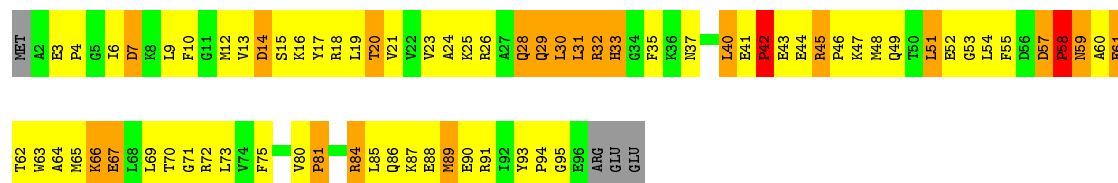
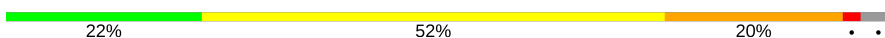


### • Molecule 3: DNA-directed RNA polymerase beta' chain

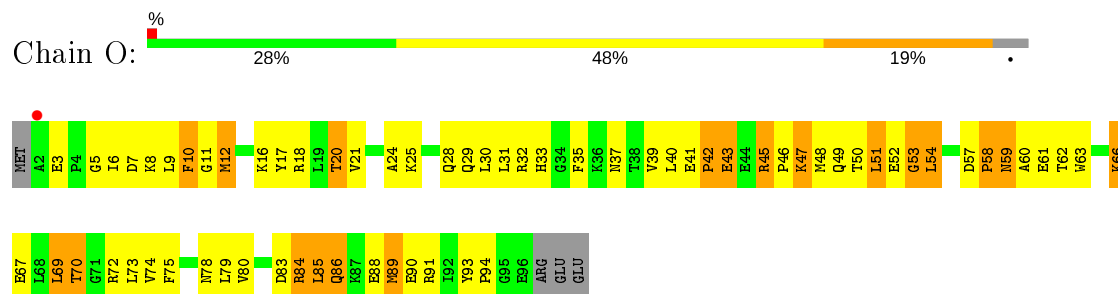




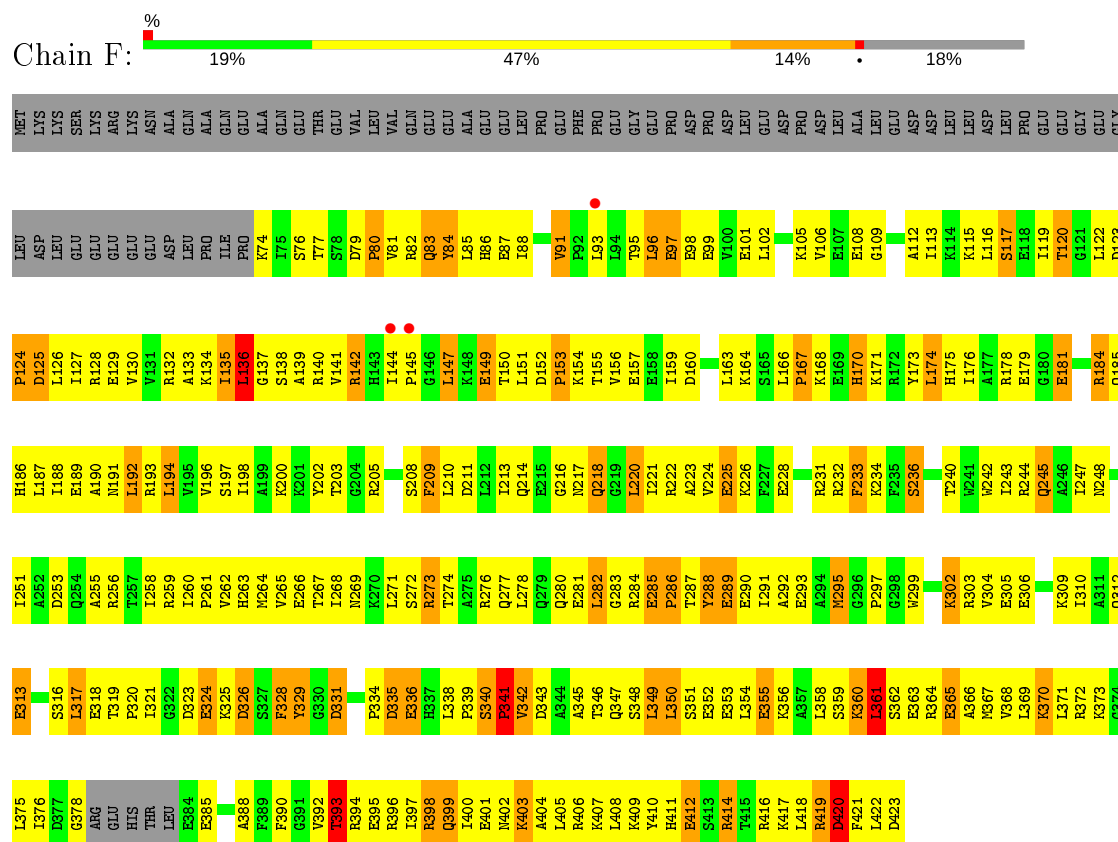
Chain E:



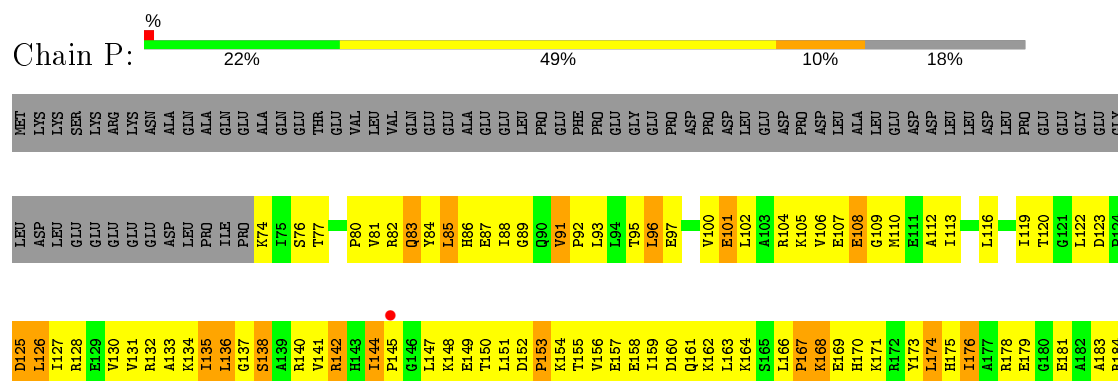
- Molecule 4: RNA polymerase omega chain



- Molecule 5: RNA polymerase sigma factor rpoD



- Molecule 5: RNA polymerase sigma factor rpoD



ARG	T319	D253	Q185
GLU	F320		H186
HIS	I321	R256	L187
THR	G322	T257	I188
LEU	D323	I258	E189
E384	E324	R259	A190
E385	K325	I260	N191
	D326	P261	L192
	S327	V262	R193
F390	F328	H263	L194
G391	Y329	M264	V195
V392	G330	V265	V196
T393	D331	E266	S197
R394	F332	T267	
E395	I333	I268	
R396	F334	N269	K200
	I337	K270	K201
Q398	D335	L271	Y202
Q399	E336	S272	T203
I400	H337	R273	G204
E401	L338	I274	R205
H402	F339	T275	G206
K403	S340	R276	L207
A404	V342	Q277	S208
L405	D343	L278	F209
R406	A344	Q279	L210
K407	A345	Q280	D211
L408	T346	G283	L212
K409	Q347		L213
Y410	S348	P286	Q214
H411	I349	T287	E215
E412	S351	Y288	G216
	E352	E289	N217
R416	E353	I291	Q218
K417	L354	A292	G219
L418	E355		L220
R419	K356		I221
D420	A357		R222
F421	L358	M295	A223
I422	S359	G296	V224
D423	L361	P297	E225
	S362	W299	K226
	E363		
	R364	K302	R232
	E365	R303	F233
	A366	V304	K234
	K367		
	Y368		Y238
	L369	T307	W241
	K370	L308	W242
	L371	I310	I243
	R372	A311	R244
	K373	Q312	Q245
	G374	E313	A246
	L375	P314	I247
	I376	V315	N248
	D377	S316	R249
	G378	L317	A250
		E318	I251
			A252

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.80 24.96 – 2.80	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.80) 92.0 (24.96-2.80)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.16 (at 2.80Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.231 , 0.268 0.227 , 0.261	Depositor DCC
$R_{free}$ test set	21166 reflections (5.78%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	58.9	Xtriage
Anisotropy	0.079	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 79.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.068 for h,-h-k,-l 0.068 for -k,-h,-l	Xtriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	58679	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	73.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.92% of the height of the origin peak. No significant pseudotranslation is detected.*

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

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

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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

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

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

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	N	0	1

All (1) bond length outliers are listed below:

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

All (64) bond angle outliers are listed below:

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

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

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	N	132	TYR	Sidechain

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	216	0
1	B	1806	0	1861	199	0
1	K	1806	0	1861	208	0
1	L	1806	0	1861	206	0
2	C	8829	0	8933	1184	0

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

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 59.

All (6401) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.62	0.81
3:N:658:LEU:HA	3:N:661:MET:HE3	1.63	0.81
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.61	0.81
4:O:12:MET:HB3	8:O:3864:HOH:O	1.81	0.80
2:C:367:LEU:HD22	2:C:371:LYS:HG2	1.63	0.80
3:D:611:GLN:HA	3:D:615:ARG:HD2	1.62	0.80
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.64	0.80
3:N:865:THR:HG23	3:N:874:GLU:HG3	1.63	0.80
3:D:87:ARG:HA	8:D:9040:HOH:O	1.81	0.80
1:L:32:PHE:HB2	8:L:4886:HOH:O	1.81	0.80
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.63	0.80
3:N:500:ARG:NH1	3:N:1388:ARG:HH11	1.79	0.80
2:C:281:LEU:HD12	2:C:309:TYR:HB2	1.63	0.80
3:N:850:LEU:H	3:N:850:LEU:HD12	1.46	0.80
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.46	0.80
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.61	0.80
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.62	0.80
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.63	0.80
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.64	0.80
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.61	0.80
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.63	0.80
2:C:611:ILE:HD11	2:C:625:LEU:HD11	1.62	0.80
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.81	0.80
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.46	0.80
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.45	0.79
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.79
3:D:1350:GLU:HG3	3:D:1354:LYS:HE3	1.65	0.79
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.64	0.79
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.64	0.79
2:C:719:PRO:HB3	2:C:820:ARG:NE	1.96	0.79
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.65	0.79
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.65	0.79
3:D:546:ARG:O	3:D:550:ARG:HG2	1.81	0.79
2:C:772:ARG:HG2	5:F:378:GLY:HA2	1.64	0.79
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.65	0.79
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.64	0.79
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.62	0.79
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.63	0.79
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.65	0.79
2:M:244:PRO:HD2	2:M:245:GLY:H	1.48	0.79
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:470:LEU:H	3:N:470:LEU:HD23	1.46	0.79
3:N:53:ILE:HG23	3:N:54:LYS:H	1.48	0.79
1:L:219:ARG:HB3	1:L:219:ARG:HH11	1.48	0.79
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.64	0.78
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.48	0.78
3:N:615:ARG:HB2	3:N:615:ARG:HH11	1.46	0.78
2:C:1090:LYS:NZ	3:D:90:MET:HG3	1.97	0.78
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.64	0.78
2:M:242:LEU:HB3	8:M:1549:HOH:O	1.83	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78
1:B:13:VAL:HG23	8:B:493:HOH:O	1.82	0.78
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.63	0.78
2:M:670:GLN:O	2:M:672:VAL:HG12	1.83	0.78
2:M:752:GLY:H	2:M:792:VAL:HB	1.45	0.78
2:C:1009:SER:HA	8:D:9195:HOH:O	1.82	0.78
2:M:397:GLU:H	2:M:633:GLN:NE2	1.81	0.78
2:C:71:TYR:HB2	8:C:1125:HOH:O	1.82	0.78
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.18	0.78
2:M:413:LEU:H	2:M:413:LEU:HD12	1.48	0.78
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.64	0.78
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.49	0.78
2:C:413:LEU:HD12	2:C:413:LEU:H	1.46	0.78
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.66	0.78
3:D:152:LEU:HD23	3:D:152:LEU:H	1.48	0.78
3:D:422:ALA:H	3:D:427:VAL:HG11	1.48	0.78
3:D:86:ARG:O	3:D:522:PRO:HD2	1.83	0.78
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.64	0.78
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.64	0.78
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.66	0.78
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.66	0.78
2:C:876:VAL:HA	8:C:1494:HOH:O	1.84	0.78
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.83	0.78
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.84	0.78
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.65	0.78
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.65	0.78
4:O:51:LEU:HG	4:O:53:GLY:H	1.49	0.78
1:A:175:ARG:HH11	1:A:202:ASP:HA	1.49	0.77
1:K:25:LEU:HD23	1:K:28:LEU:HD11	1.64	0.77
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.66	0.77
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.66	0.77
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.15	0.77

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.70	0.72
1:K:133:GLU:HG2	1:K:134:GLU:N	2.05	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.54	0.72
5:P:151:LEU:HB3	8:P:3247:HOH:O	1.89	0.72
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.69	0.72
1:K:89:PHE:CZ	1:K:146:ARG:HB2	2.25	0.72
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.70	0.72
2:C:473:ARG:HE	2:C:531:PHE:HE1	1.35	0.72
3:D:153:LEU:HD12	3:D:154:THR:N	2.05	0.72
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.72	0.72
1:L:23:PHE:HA	8:L:3037:HOH:O	1.90	0.72
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.72	0.72
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.70	0.72
2:C:244:PRO:HD2	2:C:245:GLY:H	1.53	0.72
2:C:64:LEU:HB2	2:C:359:MET:SD	2.30	0.72
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.54	0.72
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.72	0.72
5:F:93:LEU:HG	5:F:190:ALA:CB	2.20	0.72
1:K:55:SER:OG	1:K:158:ILE:HB	1.90	0.72
4:O:51:LEU:HD12	4:O:52:GLU:H	1.55	0.72
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.86	0.72
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.20	0.71
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.55	0.71
3:D:907:GLU:O	3:D:911:LEU:HD22	1.89	0.71
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.71	0.71
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.71	0.71
3:D:996:TRP:HA	3:D:999:THR:HG22	1.72	0.71
5:F:128:ARG:HG2	8:F:754:HOH:O	1.88	0.71
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.73	0.71
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.89	0.71
5:P:404:ALA:HA	8:P:4644:HOH:O	1.90	0.71
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.05	0.71
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.73	0.71
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.06	0.71
4:E:45:ARG:HA	8:E:180:HOH:O	1.88	0.71
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.72	0.71
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.20	0.71
3:D:374:GLU:HA	8:D:9065:HOH:O	1.90	0.71
3:D:737:ASN:HA	8:D:9006:HOH:O	1.89	0.71
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.91	0.71
3:N:192:ALA:O	3:N:195:VAL:HG23	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.05	0.71
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.71	0.71
3:N:1415:VAL:HG23	8:N:9265:HOH:O	1.89	0.71
3:N:808:THR:HB	3:N:809:PRO:HD3	1.72	0.71
1:A:175:ARG:NH1	1:A:202:ASP:HA	2.06	0.71
2:C:52:PHE:HA	8:C:1788:HOH:O	1.91	0.71
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.21	0.71
3:D:513:ILE:HA	8:D:9491:HOH:O	1.91	0.71
3:N:215:TYR:O	3:N:389:GLU:HB3	1.89	0.71
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.73	0.71
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.72	0.71
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.90	0.71
2:M:786:LYS:HA	8:M:1174:HOH:O	1.88	0.71
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.72	0.71
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.71	0.71
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.91	0.71
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.73	0.71
3:N:139:GLY:O	3:N:147:VAL:HB	1.91	0.71
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.71	0.71
2:C:113:VAL:HG13	8:C:1336:HOH:O	1.91	0.71
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.71	0.71
3:D:172:PRO:HD2	3:D:389:GLU:O	1.91	0.71
3:D:661:MET:HA	3:D:666:ILE:HD12	1.72	0.71
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.73	0.71
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.73	0.71
1:A:18:ARG:HH12	1:A:88:ARG:HH21	1.37	0.71
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.72	0.71
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.72	0.71
2:M:1051:GLU:HG3	2:M:1055:LEU:HD12	1.71	0.71
3:N:1173:LEU:HD23	3:N:1174:LEU:HD23	1.72	0.71
2:C:460:ARG:HH11	2:C:460:ARG:HB3	1.55	0.70
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.54	0.70
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.73	0.70
3:N:1488:ASP:HA	8:O:4394:HOH:O	1.91	0.70
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.73	0.70
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.71	0.70
2:M:139:GLN:HG3	2:M:140:ILE:H	1.56	0.70
2:M:157:ARG:HE	2:M:158:TYR:H	1.36	0.70
2:M:535:SER:O	2:M:538:GLN:HG2	1.91	0.70
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.73	0.70
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.73	0.70

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:132:TYR:HA	8:D:9333:HOH:O	1.91	0.69
1:L:209:GLU:HB3	8:L:4878:HOH:O	1.92	0.69
2:M:343:GLN:HG3	8:M:1267:HOH:O	1.92	0.69
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.06	0.69
3:D:1352:ILE:HG21	3:D:1368:ILE:HG21	1.74	0.69
5:F:234:LYS:HD3	5:F:236:SER:HB3	1.72	0.69
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.57	0.69
3:D:210:ARG:HH11	3:D:210:ARG:HB3	1.57	0.69
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.73	0.69
4:E:51:LEU:HD12	4:E:52:GLU:H	1.57	0.69
2:C:92:ALA:HB1	8:C:1294:HOH:O	1.92	0.69
3:D:793:THR:HB	3:D:879:ARG:HD3	1.74	0.69
1:L:161:ARG:HA	8:L:3450:HOH:O	1.92	0.69
2:M:511:GLU:O	2:M:526:PRO:HD3	1.92	0.69
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.74	0.69
3:N:834:THR:HB	3:N:838:ARG:HB3	1.74	0.69
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.75	0.69
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.73	0.69
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.08	0.69
3:D:611:GLN:HG3	5:F:326:ASP:HB2	1.75	0.69
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.73	0.69
2:M:478:VAL:HA	2:M:506:ASN:O	1.92	0.69
3:N:468:LEU:HB3	8:N:9407:HOH:O	1.92	0.69
3:D:1462:LEU:HB3	3:D:1472:ILE:HD12	1.75	0.69
3:D:215:TYR:O	3:D:389:GLU:HB2	1.93	0.69
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.73	0.69
5:F:120:THR:HB	8:F:433:HOH:O	1.91	0.69
5:F:335:ASP:OD2	5:F:338:LEU:HB2	1.92	0.69
3:N:119:SER:HB2	3:N:123:LEU:H	1.57	0.69
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.57	0.69
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.75	0.69
2:C:670:GLN:O	2:C:672:VAL:HG12	1.93	0.69
3:D:811:GLU:HA	8:D:9196:HOH:O	1.93	0.69
3:D:929:ARG:HD3	8:D:9607:HOH:O	1.93	0.69
1:K:62:LEU:HD12	8:K:3844:HOH:O	1.91	0.69
2:M:516:ARG:HD2	2:M:521:PRO:HA	1.73	0.69
3:N:1033:GLN:HE21	3:N:1036:ARG:HD3	1.58	0.69
1:A:177:VAL:O	2:C:864:GLY:HA3	1.92	0.69
3:D:663:GLU:HA	8:D:9541:HOH:O	1.93	0.69
3:D:756:GLN:O	3:D:760:ARG:HG2	1.91	0.69
2:C:193:LEU:HD21	8:C:1760:HOH:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:971:LYS:HA	2:C:988:VAL:HA	1.74	0.69
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.28	0.69
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.75	0.69
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.28	0.69
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.75	0.69
2:C:958:THR:HG22	8:C:1364:HOH:O	1.92	0.69
3:D:964:LEU:HD13	3:D:1058:ARG:NH1	2.08	0.69
3:D:178:LEU:HG	3:D:200:ASP:H	1.58	0.69
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.32	0.69
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.75	0.69
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.23	0.69
3:D:393:ILE:HD12	3:D:393:ILE:H	1.58	0.69
3:D:537:THR:C	5:F:317:LEU:HB2	2.12	0.69
3:D:62:LYS:HE2	3:D:75:ARG:HH12	1.58	0.69
3:N:761:ILE:HG21	8:O:3197:HOH:O	1.93	0.69
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.22	0.69
5:P:100:VAL:CG1	5:P:104:ARG:HH21	2.06	0.69
1:A:226:SER:O	1:A:228:PRO:HD3	1.93	0.68
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.74	0.68
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.75	0.68
2:M:526:PRO:HG2	8:M:1259:HOH:O	1.92	0.68
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.28	0.68
3:N:430:ASP:HB3	8:N:9241:HOH:O	1.93	0.68
3:N:542:ASP:O	3:N:546:ARG:HG2	1.94	0.68
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.08	0.68
2:C:282:GLY:HA2	2:C:308:ARG:NH2	2.07	0.68
2:C:437:ARG:HA	2:C:467:ILE:HG21	1.73	0.68
2:C:567:GLN:HA	8:C:1666:HOH:O	1.93	0.68
2:C:609:ASN:HD21	2:C:627:ARG:HH21	1.40	0.68
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.74	0.68
2:M:311:PHE:HB3	8:M:1560:HOH:O	1.93	0.68
2:M:704:HIS:CB	2:M:831:ARG:HE	2.05	0.68
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.74	0.68
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.93	0.68
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.21	0.68
3:D:808:THR:HB	3:D:809:PRO:HD3	1.73	0.68
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.76	0.68
2:C:777:ILE:HG23	5:F:405:LEU:HD11	1.74	0.68
1:L:85:LEU:HD12	1:L:124:ASN:HB3	1.75	0.68
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.59	0.68
5:P:376:ILE:HG23	8:P:3758:HOH:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.93	0.68
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.08	0.68
3:D:572:ARG:HH12	5:F:79:ASP:CG	1.97	0.68
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.76	0.68
1:K:92:PRO:HD3	8:K:3642:HOH:O	1.92	0.68
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.08	0.68
1:L:58:ILE:HG23	8:L:4138:HOH:O	1.93	0.68
2:M:726:ILE:HG22	8:M:1255:HOH:O	1.92	0.68
3:N:760:ARG:HH21	4:O:3:GLU:CD	1.97	0.68
5:P:100:VAL:HG12	5:P:104:ARG:HH21	1.58	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.76	0.68
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.75	0.68
2:C:151:ASP:HB2	2:C:157:ARG:O	1.94	0.68
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.75	0.68
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.76	0.68
2:M:368:THR:HB	2:M:369:PRO:HD3	1.74	0.68
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.75	0.68
2:M:983:ILE:HA	8:M:1335:HOH:O	1.92	0.68
5:P:403:LYS:NZ	5:P:406:ARG:HD2	2.08	0.68
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.76	0.68
1:B:151:VAL:HG13	1:B:155:LYS:HE2	1.76	0.68
2:C:610:ARG:HB2	8:C:1501:HOH:O	1.93	0.68
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.93	0.68
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.76	0.68
4:E:30:LEU:O	4:E:35:PHE:HA	1.94	0.68
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.29	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.28	0.68
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.58	0.68
2:C:428:ARG:HG2	2:C:449:ILE:O	1.94	0.68
3:D:1406:ARG:NH2	3:D:1407:LEU:HG	2.09	0.68
1:L:208:LEU:HD23	8:L:3127:HOH:O	1.94	0.68
2:M:300:ASP:HB2	8:M:1252:HOH:O	1.93	0.68
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.76	0.68
1:A:74:ASP:OD1	1:A:77:GLU:HB2	1.93	0.68
3:D:539:ASP:OD2	5:F:318:GLU:HB2	1.93	0.68
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.93	0.68
2:C:64:LEU:HD13	2:C:359:MET:HG3	1.74	0.68
2:C:1109:VAL:HG23	3:D:3:LYS:HG2	1.75	0.68
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.09	0.68
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.75	0.68
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.75	0.68
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.76	0.68
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.59	0.68
3:N:535:PHE:O	5:P:315:VAL:N	2.26	0.68
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.09	0.67
3:D:1459:LEU:HD22	3:D:1465:ASN:ND2	2.09	0.67
3:D:401:TYR:HB2	8:D:9802:HOH:O	1.93	0.67
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.21	0.67
1:L:112:ARG:HD2	8:L:4849:HOH:O	1.93	0.67
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.77	0.67
3:N:86:ARG:O	3:N:522:PRO:HD2	1.93	0.67
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.74	0.67
3:N:961:LYS:HG2	8:N:9231:HOH:O	1.93	0.67
2:C:186:VAL:HG23	2:C:187:ASN:H	1.58	0.67
2:C:36:PRO:HB3	8:C:1554:HOH:O	1.94	0.67
2:C:478:VAL:HA	2:C:506:ASN:O	1.94	0.67
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.94	0.67
3:D:1235:GLN:C	3:D:1359:GLN:HE22	1.98	0.67
3:D:1318:TYR:HB3	8:D:9569:HOH:O	1.94	0.67
2:M:144:PRO:HA	2:M:163:ILE:HG12	1.76	0.67
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.09	0.67
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.67
5:P:87:GLU:O	5:P:91:VAL:HG23	1.94	0.67
2:C:227:PHE:HD2	2:C:230:ARG:HH21	1.42	0.67
2:C:598:GLU:O	2:C:651:LYS:HG3	1.94	0.67
3:D:547:LEU:HD11	3:D:578:VAL:HG22	1.74	0.67
4:E:60:ALA:O	4:E:63:TRP:HB2	1.94	0.67
4:E:86:GLN:HB2	8:E:158:HOH:O	1.94	0.67
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	0.67
2:M:165:LEU:O	2:M:265:ARG:HB2	1.93	0.67
3:N:75:ARG:HB3	8:N:9208:HOH:O	1.94	0.67
5:P:234:LYS:HG3	8:P:4168:HOH:O	1.94	0.67
1:A:24:VAL:HG22	1:A:196:THR:HB	1.75	0.67
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.75	0.67
3:D:175:VAL:HG12	3:D:176:ASP:OD1	1.94	0.67
3:D:707:THR:HA	8:D:9216:HOH:O	1.93	0.67
5:F:351:SER:O	5:F:355:GLU:HB2	1.93	0.67
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.77	0.67
3:N:400:VAL:HG12	3:N:401:TYR:HD1	1.59	0.67
1:B:38:ASN:OD1	2:C:979:THR:HA	1.95	0.67
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:523:ASP:N	8:D:9040:HOH:O	2.27	0.67
3:D:93:ILE:HD11	3:D:548:ILE:HD13	1.76	0.67
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.76	0.67
2:M:205:GLU:O	2:M:209:ARG:HD2	1.94	0.67
2:M:546:LEU:HA	2:M:581:THR:HG21	1.76	0.67
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.75	0.67
3:N:1420:LEU:HD12	3:N:1421:LEU:N	2.09	0.67
3:N:153:LEU:HD11	3:N:158:TYR:N	2.08	0.67
2:C:100:LEU:HB2	8:C:1196:HOH:O	1.93	0.67
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.77	0.67
3:N:1127:GLU:HG3	3:N:1133:ARG:HH12	1.60	0.67
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.60	0.67
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.77	0.67
3:N:730:PRO:HA	3:N:733:CYS:SG	2.35	0.67
3:D:1087:ARG:HB3	3:D:1234:THR:HG23	1.75	0.67
3:D:1389:LEU:HD13	8:D:9579:HOH:O	1.94	0.67
1:L:65:PHE:HB2	8:L:3211:HOH:O	1.94	0.67
2:M:630:ARG:HH21	2:M:707:ARG:N	1.93	0.67
3:N:1397:LYS:HG2	8:N:9561:HOH:O	1.93	0.67
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.43	0.67
1:A:20:TYR:HD2	1:A:21:GLY:N	1.93	0.67
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.59	0.67
3:D:793:THR:HG22	3:D:879:ARG:HA	1.77	0.67
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.57	0.67
3:N:654:LYS:HD3	3:N:674:ARG:HH22	1.59	0.67
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.59	0.67
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.30	0.67
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.10	0.67
3:N:124:GLU:HB2	8:N:9808:HOH:O	1.94	0.67
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.60	0.67
4:O:60:ALA:O	4:O:63:TRP:HB2	1.95	0.67
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.76	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.77	0.66
3:D:1271:LYS:HG2	3:D:1272:ALA:H	1.60	0.66
3:D:156:GLU:HB3	8:D:9191:HOH:O	1.95	0.66
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.25	0.66
3:D:821:VAL:HG21	8:D:9498:HOH:O	1.96	0.66
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.76	0.66
2:M:140:ILE:HA	2:M:332:ARG:O	1.94	0.66
2:M:911:GLU:O	2:M:915:LYS:HG2	1.94	0.66
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.77	0.66

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:325:LYS:HE2	8:P:2932:HOH:O	1.94	0.66
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.77	0.66
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.30	0.66
2:C:41:ASN:H	2:C:41:ASN:ND2	1.92	0.66
2:C:455:LEU:H	2:C:455:LEU:HD23	1.60	0.66
2:C:504:GLU:OE2	2:C:509:ALA:HB2	1.94	0.66
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.61	0.66
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.59	0.66
1:A:20:TYR:HD2	1:A:21:GLY:H	1.44	0.66
1:A:219:ARG:CZ	1:B:219:ARG:HG2	2.26	0.66
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.60	0.66
3:D:652:LEU:HA	8:D:9195:HOH:O	1.95	0.66
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.10	0.66
3:D:148:GLU:HG2	3:D:151:GLN:NE2	2.11	0.66
3:D:964:LEU:HD13	3:D:1058:ARG:HH11	1.61	0.66
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.11	0.66
1:K:86:VAL:HG23	8:K:3038:HOH:O	1.95	0.66
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.78	0.66
2:C:325:ILE:HG22	8:C:1411:HOH:O	1.96	0.66
2:C:42:VAL:HG12	2:C:43:GLY:H	1.61	0.66
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.77	0.66
2:C:710:ILE:HD11	2:C:758:ARG:NH2	2.11	0.66
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.78	0.66
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.25	0.66
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.78	0.66
1:L:19:GLU:HG3	1:L:201:THR:O	1.96	0.66
2:M:151:ASP:HB2	2:M:157:ARG:O	1.96	0.66
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	1.78	0.66
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.77	0.66
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.36	0.66
1:B:99:LEU:HD12	1:B:114:PHE:HB3	1.77	0.65
3:D:1087:ARG:HD2	3:D:1256:LEU:HD22	1.78	0.65
1:L:152:PRO:HD2	1:L:155:LYS:HD2	1.76	0.65
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.78	0.65
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.78	0.65
3:N:656:PHE:HE2	3:N:698:LYS:HE3	1.59	0.65
3:N:877:PRO:O	3:N:880:ILE:HG22	1.95	0.65
5:P:323:ASP:HB3	8:P:3957:HOH:O	1.94	0.65
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.78	0.65
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.61	0.65
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:850:LEU:HD12	3:D:850:LEU:H	1.60	0.65
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.78	0.65
2:M:211:LEU:HD12	2:M:308:ARG:HG3	1.76	0.65
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.76	0.65
3:N:141:ILE:HD11	8:N:9550:HOH:O	1.95	0.65
3:N:35:ARG:HG3	3:N:36:THR:N	2.10	0.65
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.77	0.65
3:N:844:ALA:O	3:N:867:ARG:HB3	1.95	0.65
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.78	0.65
3:D:396:VAL:HA	8:D:9468:HOH:O	1.96	0.65
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.78	0.65
1:L:106:PRO:HD3	8:L:3583:HOH:O	1.97	0.65
2:M:3:ILE:HG23	8:M:1340:HOH:O	1.94	0.65
2:M:773:LEU:O	2:M:777:ILE:HG13	1.95	0.65
2:M:859:PRO:O	2:M:867:VAL:HG22	1.96	0.65
2:M:73:LEU:HB3	2:M:94:LEU:HB2	1.79	0.65
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.78	0.65
2:C:265:ARG:HG2	2:C:267:TYR:H	1.61	0.65
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.11	0.65
3:D:1492:LEU:HA	8:D:2041:HOH:O	1.96	0.65
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.79	0.65
3:N:1294:VAL:HB	8:N:9539:HOH:O	1.95	0.65
3:N:576:GLU:HB2	8:N:9391:HOH:O	1.95	0.65
5:P:104:ARG:HB3	8:P:3870:HOH:O	1.97	0.65
5:P:175:HIS:O	5:P:179:GLU:HG3	1.97	0.65
5:P:352:GLU:O	5:P:356:LYS:HG3	1.96	0.65
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.79	0.65
2:C:185:LYS:HG2	2:C:190:LYS:HG2	1.79	0.65
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.78	0.65
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.77	0.65
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.77	0.65
3:D:704:ARG:NE	3:D:705:ALA:H	1.94	0.65
1:K:54:THR:HG21	8:K:3561:HOH:O	1.96	0.65
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.77	0.65
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.78	0.65
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.78	0.65
1:B:90:LEU:HD23	8:B:356:HOH:O	1.97	0.65
2:C:186:VAL:HG23	8:C:1357:HOH:O	1.95	0.65
2:C:926:PHE:O	2:C:930:LYS:HG3	1.96	0.65
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.78	0.65
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.78	0.65

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:317:LEU:HD23	5:P:330:GLY:HA3	1.79	0.64
5:P:403:LYS:HZ1	5:P:406:ARG:HD2	1.61	0.64
1:B:59:GLU:HG2	1:B:139:ASN:O	1.98	0.64
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.79	0.64
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.80	0.64
3:D:1215:VAL:HG23	8:D:9465:HOH:O	1.97	0.64
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.27	0.64
3:D:1459:LEU:HB2	3:D:1470:ARG:HH12	1.63	0.64
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.80	0.64
3:D:590:PRO:HA	8:D:2066:HOH:O	1.98	0.64
5:F:225:GLU:HB3	8:F:496:HOH:O	1.96	0.64
2:M:1000:MET:O	2:M:1003:ASP:HB3	1.97	0.64
2:M:188:LYS:HD3	8:M:1768:HOH:O	1.96	0.64
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.33	0.64
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.98	0.64
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.98	0.64
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.98	0.64
3:N:188:GLY:HA3	8:N:9237:HOH:O	1.97	0.64
3:N:422:ALA:H	3:N:427:VAL:CG1	2.11	0.64
3:N:6:ARG:NH1	3:N:6:ARG:HB3	2.13	0.64
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.27	0.64
3:N:693:GLU:HG3	4:O:48:MET:SD	2.38	0.64
5:P:95:THR:HB	5:P:96:LEU:HD23	1.78	0.64
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.80	0.63
1:B:123:MET:C	1:B:125:PRO:HD3	2.19	0.63
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.62	0.63
4:O:30:LEU:O	4:O:35:PHE:HA	1.97	0.63
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.13	0.63
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.79	0.63
2:C:704:HIS:CB	2:C:831:ARG:HE	2.10	0.63
2:C:716:LYS:HE2	8:F:558:HOH:O	1.98	0.63
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.80	0.63
3:D:804:LEU:HD23	3:D:804:LEU:H	1.63	0.63
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.14	0.63
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.28	0.63
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.80	0.63
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.79	0.63
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.81	0.63
3:N:65:ARG:HG3	3:N:66:GLN:H	1.61	0.63
5:P:351:SER:O	5:P:355:GLU:HB2	1.97	0.63
1:B:206:THR:HG22	1:B:209:GLU:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:O	1:B:28:LEU:HD23	1.99	0.63
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.33	0.63
2:C:663:ASN:HB2	8:C:1359:HOH:O	1.97	0.63
2:C:859:PRO:O	2:C:867:VAL:HG22	1.97	0.63
3:D:510:GLU:O	3:D:513:ILE:HD12	1.99	0.63
3:D:1481:VAL:HG13	4:E:18:ARG:HE	1.62	0.63
1:L:108:GLU:HG2	8:L:2956:HOH:O	1.98	0.63
2:M:431:HIS:CD2	2:M:433:THR:H	2.16	0.63
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.81	0.63
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.80	0.63
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.62	0.63
1:A:128:HIS:HB2	8:A:408:HOH:O	1.96	0.63
1:A:97:VAL:HG23	8:A:316:HOH:O	1.99	0.63
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.99	0.63
3:D:178:LEU:HD21	8:D:9071:HOH:O	1.97	0.63
3:D:64:LYS:HD3	5:F:376:ILE:O	1.99	0.63
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.78	0.63
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.79	0.63
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.80	0.63
2:M:571:LEU:HD21	2:M:700:TYR:HD2	1.62	0.63
3:N:11:ALA:HB1	3:N:507:ASN:OD1	1.98	0.63
3:N:496:LEU:HD23	3:N:1388:ARG:HG2	1.80	0.63
3:D:1311:LEU:HA	8:D:9045:HOH:O	1.99	0.63
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.98	0.63
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.79	0.63
1:K:157:GLY:HA3	8:K:5051:HOH:O	1.99	0.63
1:K:197:LEU:H	1:K:197:LEU:HD23	1.62	0.63
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.29	0.63
2:M:432:ARG:HD2	2:M:519:GLY:HA3	1.80	0.63
2:M:833:LEU:HD11	2:M:849:VAL:HG21	1.79	0.63
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.62	0.63
3:N:178:LEU:HD21	8:N:9082:HOH:O	1.97	0.63
3:N:240:GLU:HA	8:N:9487:HOH:O	1.97	0.63
3:N:25:GLU:HB2	8:N:9156:HOH:O	1.98	0.63
1:A:36:LEU:O	1:A:39:PRO:HD2	1.98	0.63
1:B:80:LEU:HD21	8:D:9557:HOH:O	1.99	0.63
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.28	0.63
3:D:1047:LYS:HD2	3:D:1051:GLU:OE1	1.99	0.63
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.63	0.63
2:M:157:ARG:NE	2:M:158:TYR:H	1.95	0.63
2:M:841:ASN:HD22	2:M:841:ASN:C	2.02	0.63

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:361:LEU:CD2	5:F:362:SER:H	2.13	0.62
1:K:20:TYR:HD2	1:K:21:GLY:H	1.47	0.62
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.82	0.62
2:M:495:THR:HB	2:M:530:GLU:HG3	1.82	0.62
2:M:768:THR:HB	2:M:771:GLU:HB3	1.82	0.62
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.30	0.62
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.81	0.62
5:P:277:GLN:O	5:P:280:GLN:HB3	1.99	0.62
5:P:361:LEU:HD23	5:P:362:SER:H	1.65	0.62
1:B:184:THR:HB	1:B:194:LYS:HZ3	1.63	0.61
2:C:71:TYR:H	2:C:71:TYR:HD2	1.48	0.61
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.81	0.61
3:D:605:ASP:HB3	8:D:2071:HOH:O	2.00	0.61
2:C:686:ASP:H	3:D:740:PHE:HD1	1.48	0.61
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.82	0.61
2:M:775:ARG:HD3	8:M:1274:HOH:O	1.99	0.61
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.81	0.61
2:M:976:ASP:CB	2:M:979:THR:HG22	2.29	0.61
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.81	0.61
3:N:529:GLN:HG2	3:N:535:PHE:HE2	1.65	0.61
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.14	0.61
5:P:142:ARG:HD2	8:P:2896:HOH:O	1.99	0.61
5:P:347:GLN:HA	5:P:350:LEU:CD2	2.27	0.61
8:M:1274:HOH:O	5:P:421:PHE:HE2	1.83	0.61
1:B:206:THR:CG2	1:B:209:GLU:H	2.13	0.61
2:C:243:ARG:HB3	8:C:1850:HOH:O	1.99	0.61
2:C:89:THR:HG21	2:C:383:ARG:HH21	1.65	0.61
3:D:1169:ASP:HB2	8:D:9180:HOH:O	1.99	0.61
3:D:117:ASP:HA	8:D:9025:HOH:O	2.00	0.61
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.64	0.61
3:D:85:VAL:O	3:D:89:ARG:HD3	1.99	0.61
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.64	0.61
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.82	0.61
2:M:261:ILE:HD13	8:M:1497:HOH:O	2.00	0.61
2:M:16:PRO:CG	2:M:460:ARG:HH12	2.13	0.61
8:M:1241:HOH:O	5:P:409:LYS:HB2	1.99	0.61
3:D:153:LEU:HD11	3:D:158:TYR:N	2.15	0.61
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.82	0.61
2:M:158:TYR:HD1	2:M:313:LEU:HD21	1.65	0.61
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.81	0.61
3:N:543:LEU:HA	3:N:546:ARG:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:80:LEU:HD23	3:N:867:ARG:HH12	1.65	0.61
1:B:97:VAL:HG13	8:B:346:HOH:O	2.00	0.61
2:C:1018:GLN:HE21	2:C:1063:ARG:HH22	1.48	0.61
2:C:409:ARG:HA	2:C:454:SER:HA	1.80	0.61
2:C:49:ARG:NH1	2:C:49:ARG:HB2	2.14	0.61
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.81	0.61
2:C:94:LEU:HD21	8:C:1125:HOH:O	1.99	0.61
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.82	0.61
3:D:675:ARG:HH21	5:F:421:PHE:N	1.97	0.61
2:M:244:PRO:HB2	8:M:1637:HOH:O	2.00	0.61
2:M:492:ASP:HB3	2:M:518:LYS:HD2	1.81	0.61
2:M:545:ASN:O	2:M:581:THR:HG21	2.00	0.61
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.35	0.61
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.82	0.61
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.00	0.61
3:N:400:VAL:HG21	3:N:441:ARG:NH1	2.15	0.61
5:P:262:VAL:HG12	5:P:266:GLU:OE1	2.00	0.61
1:A:123:MET:O	1:A:125:PRO:HD3	2.01	0.61
2:C:208:ALA:O	2:C:218:VAL:HG21	2.01	0.61
2:C:651:LYS:HA	8:C:1288:HOH:O	2.01	0.61
3:D:1021:TYR:CE1	3:D:1025:GLN:HG3	2.35	0.61
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.16	0.61
3:D:1302:GLU:HB3	8:D:2003:HOH:O	1.99	0.61
3:D:4:GLU:HA	8:D:9462:HOH:O	2.01	0.61
3:D:778:LEU:O	3:D:778:LEU:HD23	2.00	0.61
3:D:998:GLU:HA	8:D:9447:HOH:O	1.99	0.61
2:M:332:ARG:HG2	2:M:332:ARG:NH1	2.15	0.61
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.16	0.61
2:M:605:LYS:HD3	2:M:610:ARG:NH1	2.15	0.61
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.30	0.61
3:N:9:ARG:HG3	3:N:1455:LYS:O	2.01	0.61
5:P:400:ILE:HA	8:P:3326:HOH:O	1.99	0.61
1:A:86:VAL:HG21	1:A:202:ASP:O	2.00	0.61
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.30	0.61
2:C:532:MET:HG3	2:C:533:ASP:N	2.16	0.61
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.01	0.61
3:D:7:LYS:HD3	3:D:1456:LYS:HZ2	1.66	0.61
3:D:965:GLU:O	3:D:968:ASP:HB2	2.00	0.61
5:F:361:LEU:HD22	5:F:362:SER:H	1.65	0.61
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.83	0.61
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.35	0.61

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.85	0.59
1:K:14:ARG:HG3	1:K:22:GLU:HB2	1.85	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
2:M:1014:SER:HB3	2:M:1017:THR:O	2.02	0.59
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.83	0.59
2:M:332:ARG:HG2	2:M:332:ARG:HH11	1.67	0.59
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.33	0.59
2:M:798:GLY:H	2:M:827:VAL:CG1	2.15	0.59
3:N:705:ALA:HB2	8:N:9482:HOH:O	2.02	0.59
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.67	0.59
2:C:135:VAL:O	2:C:392:SER:HA	2.03	0.59
2:C:51:THR:HB	2:C:348:LEU:HD23	1.85	0.59
3:D:1304:LYS:HA	8:D:9240:HOH:O	2.02	0.59
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.85	0.59
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.85	0.59
2:M:938:LYS:HB3	2:M:939:ARG:HH21	1.67	0.59
3:N:149:LYS:HD3	8:N:9307:HOH:O	2.02	0.59
5:P:166:LEU:O	5:P:171:LYS:HB2	2.02	0.59
1:A:133:GLU:HG2	1:A:134:GLU:N	2.16	0.59
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.33	0.59
2:C:905:ILE:H	2:C:905:ILE:CD1	2.07	0.59
3:D:1050:GLY:HA2	8:D:9344:HOH:O	2.02	0.59
1:L:117:VAL:HG13	8:L:3779:HOH:O	2.02	0.59
8:K:3080:HOH:O	1:L:36:LEU:HD12	2.02	0.59
1:L:64:GLU:HG3	8:L:3767:HOH:O	2.01	0.59
1:L:80:LEU:HD23	3:N:867:ARG:NH1	2.18	0.59
2:M:173:ASP:O	2:M:184:MET:HA	2.03	0.59
2:M:274:ARG:NH2	2:M:284:ARG:HG2	2.17	0.59
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.31	0.59
3:N:169:TYR:HD1	3:N:169:TYR:H	1.49	0.59
3:N:588:GLY:HA2	8:N:9699:HOH:O	2.03	0.59
3:N:679:ARG:HB2	3:N:682:ASP:OD1	2.02	0.59
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.85	0.59
3:N:920:LEU:HB2	8:N:9246:HOH:O	2.01	0.59
2:M:1015:LEU:HB2	5:P:334:PRO:O	2.02	0.59
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.84	0.59
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.83	0.59
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.85	0.59
2:C:70:GLU:HA	8:C:1554:HOH:O	2.03	0.59
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.37	0.59
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:380:GLU:O	3:D:382:GLU:N	2.35	0.59
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.84	0.59
3:D:817:GLU:HG3	3:D:840:LYS:HZ2	1.68	0.59
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.84	0.59
5:F:102:LEU:O	5:F:106:VAL:HG23	2.03	0.59
2:C:778:PHE:CZ	5:F:409:LYS:HB2	2.38	0.59
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.07	0.59
3:N:1091:SER:HA	8:N:9056:HOH:O	2.02	0.59
3:N:984:THR:HB	3:N:987:GLU:OE1	2.01	0.59
5:P:245:GLN:HB3	8:P:4764:HOH:O	2.02	0.59
1:B:101:LEU:HG	1:B:114:PHE:HA	1.84	0.59
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.85	0.59
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.85	0.59
2:C:313:LEU:HD13	2:C:321:GLU:O	2.02	0.59
2:C:798:GLY:HA3	2:C:828:ALA:O	2.03	0.59
3:D:500:ARG:HH11	3:D:500:ARG:HG3	1.68	0.59
4:E:88:GLU:OE1	4:E:91:ARG:HD2	2.03	0.59
5:F:416:ARG:HB3	8:F:511:HOH:O	2.02	0.59
5:F:420:ASP:O	5:F:422:LEU:HD23	2.03	0.59
2:M:691:SER:HB2	2:M:858:MET:SD	2.42	0.59
2:M:714:ASP:HB2	8:M:1654:HOH:O	2.03	0.59
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.33	0.59
3:N:125:GLN:HE22	3:N:587:ARG:HH21	1.51	0.59
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.38	0.58
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.38	0.58
3:D:424:GLY:HA2	3:D:435:VAL:O	2.02	0.58
1:L:62:LEU:H	1:L:62:LEU:HD12	1.67	0.58
2:M:1090:LYS:HE3	3:N:88:TYR:O	2.03	0.58
3:N:629:SER:O	3:N:744:GLN:HG2	2.03	0.58
3:N:984:THR:H	3:N:987:GLU:CD	2.07	0.58
5:P:85:LEU:HD22	5:P:193:ARG:HD3	1.84	0.58
1:A:216:GLU:HG2	8:A:475:HOH:O	2.02	0.58
2:C:49:ARG:HG3	2:C:266:ARG:HH22	1.68	0.58
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.18	0.58
1:K:126:ASP:HB3	8:K:4974:HOH:O	2.03	0.58
2:M:604:ALA:HB3	2:M:612:VAL:O	2.03	0.58
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.04	0.58
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.84	0.58
2:C:578:VAL:HG13	2:C:671:ASN:HB3	1.86	0.58
3:D:1412:LYS:HG3	8:D:9515:HOH:O	2.03	0.58
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:420:VAL:HG23	8:D:9627:HOH:O	2.02	0.58
3:D:637:LEU:HD11	3:D:641:GLN:HB2	1.84	0.58
5:F:168:LYS:HG3	8:F:516:HOH:O	2.03	0.58
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.83	0.58
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.84	0.58
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.02	0.58
2:M:580:MET:HB3	2:M:584:GLU:CD	2.23	0.58
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.84	0.58
3:N:1124:GLN:HG2	3:N:1133:ARG:HG2	1.85	0.58
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.02	0.58
3:D:907:GLU:HG2	3:D:1027:GLY:N	2.17	0.58
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.85	0.58
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.68	0.58
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.02	0.58
2:M:162:ILE:O	2:M:164:PRO:HD3	2.02	0.58
2:M:357:GLU:O	2:M:360:LEU:HG	2.04	0.58
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.84	0.58
2:M:575:GLN:H	2:M:667:ALA:HB1	1.68	0.58
2:M:722:ILE:HG13	2:M:757:GLY:O	2.02	0.58
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.67	0.58
3:N:1304:LYS:HA	8:N:2011:HOH:O	2.03	0.58
3:N:947:ILE:HD12	3:N:947:ILE:O	2.03	0.58
5:P:152:ASP:HA	8:P:2840:HOH:O	2.03	0.58
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.84	0.58
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.33	0.58
5:P:393:THR:HG22	5:P:394:ARG:H	1.66	0.58
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.17	0.58
2:C:139:GLN:HA	2:C:411:SER:O	2.03	0.58
2:C:487:THR:HA	8:C:1431:HOH:O	2.02	0.58
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.83	0.58
5:F:129:GLU:HB3	5:F:142:ARG:HH21	1.67	0.58
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.85	0.58
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.32	0.58
5:P:358:LEU:HD11	5:P:370:LYS:NZ	2.19	0.58
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.68	0.58
2:C:1032:PHE:CE1	2:C:1052:MET:HG2	2.37	0.58
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.86	0.58
2:C:166:PRO:HD3	2:C:265:ARG:HE	1.68	0.58
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.86	0.58
2:C:437:ARG:O	2:C:467:ILE:HD13	2.04	0.58
2:C:690:ILE:HD13	2:C:833:LEU:HD21	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:881:ASN:HD22	2:C:881:ASN:N	1.99	0.58
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.86	0.58
3:D:28:LYS:HB2	8:D:9050:HOH:O	2.03	0.58
3:D:523:ASP:O	3:D:526:PRO:HG3	2.04	0.58
3:D:704:ARG:HE	3:D:705:ALA:H	1.50	0.58
3:D:877:PRO:O	3:D:880:ILE:HG22	2.03	0.58
5:F:278:LEU:O	5:F:282:LEU:HG	2.03	0.58
5:F:282:LEU:HD12	5:F:284:ARG:O	2.03	0.58
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.33	0.58
3:N:1122:LEU:O	3:N:1134:LEU:HD23	2.04	0.58
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.04	0.58
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.86	0.58
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.84	0.58
4:O:47:LYS:HE2	4:O:47:LYS:N	2.19	0.58
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.33	0.58
2:C:110:GLU:HB2	2:C:368:THR:HB	1.86	0.58
3:D:41:ARG:HD2	8:D:9050:HOH:O	2.03	0.58
2:M:210:GLU:HA	8:M:1749:HOH:O	2.03	0.58
3:N:756:GLN:O	3:N:760:ARG:HG2	2.04	0.58
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.34	0.58
1:B:10:VAL:HA	8:B:381:HOH:O	2.02	0.58
1:B:80:LEU:HD11	8:D:9557:HOH:O	2.04	0.58
2:C:44:ILE:HB	8:C:1185:HOH:O	2.04	0.58
2:C:897:LEU:HG	2:C:920:GLN:NE2	2.19	0.58
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.68	0.58
3:D:865:THR:HG23	3:D:874:GLU:HG2	1.84	0.58
2:M:460:ARG:HD2	2:M:485:TYR:CE2	2.38	0.58
3:N:131:LYS:HA	3:N:456:MET:HG3	1.86	0.58
5:P:392:VAL:HG12	8:P:2872:HOH:O	2.04	0.58
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.04	0.58
2:C:159:ILE:HG22	8:C:1786:HOH:O	2.03	0.58
2:C:758:ARG:HB3	2:C:788:THR:O	2.04	0.58
2:C:946:ARG:HB2	8:C:1715:HOH:O	2.03	0.58
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.33	0.58
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.33	0.58
5:F:291:ILE:O	5:F:295:MET:HB2	2.03	0.58
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.39	0.58
1:L:23:PHE:HD1	8:L:3037:HOH:O	1.86	0.58
2:M:342:ASP:O	2:M:345:ARG:HG3	2.04	0.58
2:M:807:ARG:HB2	2:M:807:ARG:NH1	2.18	0.58
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.39	0.58

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:177:GLU:HB3	8:C:1316:HOH:O	2.02	0.57
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.03	0.57
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.39	0.57
3:D:105:VAL:HG13	3:D:124:GLU:OE1	2.05	0.57
3:D:159:ARG:HB2	3:D:159:ARG:HH11	1.69	0.57
2:C:750:LYS:HB2	3:D:681:ARG:NH2	2.19	0.57
5:F:120:THR:HA	8:F:562:HOH:O	2.04	0.57
1:K:162:ILE:HG13	1:K:163:ASN:OD1	2.04	0.57
2:M:318:PRO:HD3	8:M:1200:HOH:O	2.05	0.57
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.05	0.57
3:N:399:ARG:HG2	8:N:9313:HOH:O	2.04	0.57
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.86	0.57
2:C:157:ARG:CZ	2:C:314:THR:HA	2.34	0.57
2:C:575:GLN:H	2:C:667:ALA:HB1	1.68	0.57
2:C:626:ARG:H	2:C:639:GLN:HE21	1.51	0.57
2:C:769:PRO:O	2:C:772:ARG:HB3	2.05	0.57
2:C:885:ILE:HG23	3:D:949:ILE:O	2.05	0.57
3:D:159:ARG:HB2	3:D:159:ARG:NH1	2.20	0.57
3:D:42:ASP:O	3:D:46:ASP:HB2	2.04	0.57
3:D:478:LEU:HD23	3:D:496:LEU:HD21	1.86	0.57
3:D:840:LYS:HD2	8:D:9835:HOH:O	2.05	0.57
2:M:473:ARG:HD2	2:M:475:VAL:HG22	1.85	0.57
2:M:534:VAL:N	2:M:538:GLN:HE22	2.01	0.57
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.86	0.57
3:N:524:LEU:HD23	8:N:9282:HOH:O	2.04	0.57
3:N:899:LEU:HB3	3:N:921:ARG:NH1	2.19	0.57
4:O:54:LEU:O	4:O:54:LEU:HD23	2.04	0.57
5:P:385:GLU:O	5:P:397:ILE:HD13	2.04	0.57
1:A:127:LEU:HD12	1:A:128:HIS:N	2.18	0.57
1:B:112:ARG:NH1	1:B:112:ARG:HB3	2.20	0.57
2:C:724:ARG:NE	2:C:737:LEU:O	2.38	0.57
3:D:1389:LEU:HD12	3:D:1390:LEU:H	1.68	0.57
3:D:1377:LYS:HE2	3:D:1394:VAL:HG22	1.87	0.57
3:D:30:GLU:HA	8:D:9510:HOH:O	2.05	0.57
3:D:56:TYR:CE2	3:D:66:GLN:HA	2.39	0.57
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.38	0.57
8:D:2049:HOH:O	5:F:168:LYS:HE3	2.03	0.57
1:L:143:ARG:HH11	1:L:158:ILE:CG2	2.17	0.57
2:M:10:ARG:HA	2:M:10:ARG:CZ	2.34	0.57
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.33	0.57
2:M:139:GLN:NE2	2:M:418:LEU:HD22	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.86	0.57
2:M:516:ARG:NE	3:N:1068:LEU:HD22	2.20	0.57
3:N:1128:VAL:HB	8:N:9347:HOH:O	2.05	0.57
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.86	0.57
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.39	0.57
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.85	0.57
2:C:300:ASP:HB2	8:C:1289:HOH:O	2.04	0.57
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.87	0.57
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.04	0.57
3:D:235:ALA:HB3	8:D:2026:HOH:O	2.04	0.57
3:D:397:LYS:HG3	8:D:9912:HOH:O	2.05	0.57
3:D:637:LEU:CD1	3:D:641:GLN:HB2	2.33	0.57
4:E:54:LEU:O	4:E:54:LEU:HD23	2.05	0.57
5:F:385:GLU:O	5:F:397:ILE:HD13	2.05	0.57
2:M:1006:HIS:O	3:N:648:MET:HE2	2.04	0.57
2:M:145:GLY:O	2:M:163:ILE:HG23	2.04	0.57
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.31	0.57
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.20	0.57
2:M:820:ARG:HD3	2:M:821:GLU:HB3	1.86	0.57
3:N:1231:GLU:OE1	3:N:1232:PRO:HG3	2.04	0.57
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.57
2:M:1106:ASP:OD1	3:N:7:LYS:HD2	2.05	0.57
4:O:17:TYR:CD2	4:O:17:TYR:N	2.72	0.57
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.87	0.57
1:A:137:ARG:H	1:A:137:ARG:HD2	1.68	0.57
1:B:196:THR:HG23	8:B:382:HOH:O	2.05	0.57
2:C:41:ASN:O	2:C:46:ALA:HB2	2.05	0.57
3:D:1491:THR:HG23	8:D:9315:HOH:O	2.03	0.57
3:D:519:VAL:HA	3:D:544:TYR:OH	2.05	0.57
2:C:882:LEU:HD22	3:D:951:ILE:HD13	1.85	0.57
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.86	0.57
1:K:68:ILE:HD13	1:K:138:LEU:HD11	1.86	0.57
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.40	0.57
3:N:119:SER:N	3:N:123:LEU:HD22	2.18	0.57
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.85	0.57
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.86	0.57
2:C:945:ARG:NH1	2:C:945:ARG:HB3	2.20	0.57
2:C:498:GLN:OE1	3:D:1067:VAL:HB	2.05	0.57
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.39	0.57
3:D:210:ARG:NH1	3:D:210:ARG:HB3	2.20	0.57
3:D:427:VAL:HB	3:D:435:VAL:HB	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:43:GLU:HG2	4:E:44:GLU:H	1.69	0.57
5:F:139:ALA:HB2	8:F:644:HOH:O	2.04	0.57
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.40	0.57
1:L:27:PRO:O	1:L:28:LEU:HD23	2.03	0.57
2:M:680:ASP:HB2	2:M:682:TYR:CD2	2.40	0.57
3:N:1406:ARG:HD2	3:N:1412:LYS:HD2	1.86	0.57
3:N:53:ILE:HG23	3:N:54:LYS:N	2.19	0.57
3:N:679:ARG:HD2	8:N:9182:HOH:O	2.03	0.57
3:N:899:LEU:HB3	3:N:921:ARG:HH12	1.70	0.57
3:N:988:ARG:HD2	3:N:989:TYR:N	2.20	0.57
1:B:228:PRO:O	1:B:229:GLN:HG3	2.05	0.56
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.87	0.56
2:C:604:ALA:HB3	2:C:612:VAL:O	2.04	0.56
2:C:674:VAL:HG23	2:C:869:VAL:O	2.05	0.56
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.35	0.56
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.69	0.56
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.35	0.56
2:M:206:THR:HA	8:M:1787:HOH:O	2.05	0.56
2:M:26:TYR:HD2	2:M:121:MET:HB2	1.70	0.56
3:N:799:LYS:H	3:N:826:PRO:HG2	1.70	0.56
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.86	0.56
2:C:630:ARG:NH1	2:C:630:ARG:HG2	2.20	0.56
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.87	0.56
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.05	0.56
3:D:133:ILE:HG23	3:D:456:MET:SD	2.46	0.56
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.70	0.56
1:L:14:ARG:HG2	8:L:3275:HOH:O	2.04	0.56
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.35	0.56
2:M:569:VAL:HG12	2:M:996:LYS:O	2.05	0.56
2:M:674:VAL:HG23	2:M:869:VAL:O	2.05	0.56
3:N:197:SER:CB	3:N:203:ALA:HB3	2.27	0.56
3:N:486:ARG:HB3	8:N:9366:HOH:O	2.05	0.56
5:P:350:LEU:HG	5:P:354:LEU:HD12	1.87	0.56
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.71	0.56
3:D:1200:VAL:HG22	3:D:1373:ARG:NH1	2.20	0.56
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.21	0.56
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.68	0.56
1:K:123:MET:O	1:K:125:PRO:HD3	2.05	0.56
2:M:460:ARG:HB3	2:M:460:ARG:NH1	2.20	0.56
4:O:48:MET:HG2	4:O:49:GLN:H	1.70	0.56
1:B:57:TYR:HB3	1:B:141:GLU:HG2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:231:PRO:HB3	8:C:1721:HOH:O	2.04	0.56
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.34	0.56
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.45	0.56
2:C:97:ARG:HD2	8:C:1601:HOH:O	2.06	0.56
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.86	0.56
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.87	0.56
3:D:386:HIS:HA	8:D:9065:HOH:O	2.04	0.56
3:N:835:SER:HA	8:N:9080:HOH:O	2.05	0.56
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.86	0.56
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.20	0.56
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.86	0.56
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.30	0.56
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.87	0.56
1:A:40:LEU:O	1:A:44:LEU:HD12	2.05	0.56
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.88	0.56
3:D:703:ASN:ND2	3:D:704:ARG:H	2.03	0.56
3:D:93:ILE:CD1	3:D:548:ILE:HD13	2.36	0.56
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.88	0.56
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.26	0.56
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.69	0.56
2:M:139:GLN:O	2:M:333:ILE:HA	2.05	0.56
2:M:580:MET:SD	2:M:584:GLU:HG3	2.46	0.56
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.04	0.56
3:N:42:ASP:O	3:N:46:ASP:HB2	2.06	0.56
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.30	0.56
2:M:1042:ALA:HB3	3:N:710:ARG:HB3	1.87	0.56
3:N:953:ASP:HA	8:N:9114:HOH:O	2.05	0.56
1:A:62:LEU:HD12	8:A:375:HOH:O	2.04	0.56
2:C:736:ASP:HA	2:C:744:ARG:NH1	2.21	0.56
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.36	0.56
3:D:1307:LYS:HD3	3:D:1307:LYS:H	1.71	0.56
3:D:422:ALA:H	3:D:427:VAL:CG1	2.18	0.56
3:D:639:LEU:HD22	3:D:766:ALA:HA	1.87	0.56
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.69	0.56
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.87	0.56
1:K:20:TYR:CD2	1:K:21:GLY:N	2.74	0.56
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.35	0.56
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.05	0.56
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.05	0.56
3:N:1066:THR:HG22	3:N:1069:GLU:CG	2.33	0.56
3:N:1136:LYS:O	3:N:1139:ASP:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:459:GLU:HG3	3:N:460:ALA:N	2.20	0.56
3:N:695:ILE:HG21	3:N:720:LEU:HD11	1.88	0.56
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.17	0.56
4:O:21:VAL:O	4:O:25:LYS:HG3	2.06	0.56
5:P:358:LEU:CD2	5:P:370:LYS:HE3	2.34	0.56
2:C:129:ILE:HG12	2:C:386:PHE:O	2.05	0.56
2:C:173:ASP:O	2:C:184:MET:HA	2.06	0.56
2:C:979:THR:HG23	2:C:981:GLU:N	2.09	0.56
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.06	0.56
3:D:1376:MET:HE2	3:D:1421:LEU:HB2	1.86	0.56
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.40	0.56
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.70	0.56
1:K:44:LEU:O	1:K:174:VAL:HG21	2.06	0.56
1:K:8:ALA:HB1	1:L:224:TYR:CE1	2.41	0.56
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.87	0.56
2:M:26:TYR:O	2:M:30:LEU:HD12	2.06	0.56
2:M:630:ARG:HD3	2:M:705:ILE:HG13	1.87	0.56
2:M:798:GLY:H	2:M:827:VAL:HG11	1.70	0.56
2:M:948:GLU:HB3	8:M:1188:HOH:O	2.04	0.56
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.40	0.56
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.06	0.56
3:N:1031:ASN:HB3	3:N:1034:GLN:NE2	2.21	0.56
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.87	0.56
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.87	0.56
3:N:706:PRO:HA	8:N:9170:HOH:O	2.06	0.56
3:N:84:ILE:HG12	8:N:9092:HOH:O	2.06	0.56
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.71	0.56
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.40	0.56
5:P:407:LYS:HB2	8:P:4644:HOH:O	2.05	0.56
3:D:1087:ARG:O	3:D:1091:SER:HB2	2.06	0.56
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.06	0.56
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.87	0.56
3:D:475:LYS:HA	3:D:478:LEU:HG	1.87	0.56
3:D:829:VAL:HG21	8:D:9103:HOH:O	2.05	0.56
4:E:91:ARG:HB3	8:E:105:HOH:O	2.05	0.56
2:M:269:LEU:HG	2:M:288:ARG:N	2.19	0.56
2:M:63:GLY:CA	2:M:103:LYS:HE2	2.36	0.56
2:M:602:GLU:HA	2:M:647:GLN:O	2.06	0.56
3:N:1490:LYS:HB3	8:O:4026:HOH:O	2.05	0.56
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.05	0.56
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.88	0.56

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

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

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

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:101:LEU:HG	1:K:114:PHE:HA	1.88	0.54
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.87	0.54
1:K:91:ASN:H	1:K:94:LEU:HD12	1.73	0.54
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	1.90	0.54
2:M:1049:LEU:HG	2:M:1053:LEU:HD12	1.88	0.54
2:M:160:ALA:O	2:M:173:ASP:HA	2.08	0.54
2:M:254:VAL:O	2:M:257:VAL:HG23	2.08	0.54
2:M:431:HIS:H	2:M:434:HIS:CE1	2.25	0.54
2:M:54:ILE:HG23	2:M:54:ILE:O	2.07	0.54
3:N:637:LEU:HD11	3:N:642:CYS:N	2.22	0.54
3:N:73:CYS:HB3	3:N:76:CYS:O	2.07	0.54
3:N:863:VAL:HG21	8:N:9257:HOH:O	2.06	0.54
3:N:970:LYS:HB2	3:N:970:LYS:NZ	2.22	0.54
5:P:162:LYS:HA	8:P:1319:HOH:O	2.06	0.54
3:N:419:ASP:OD2	5:P:171:LYS:HE3	2.08	0.54
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.88	0.54
1:B:159:LYS:N	1:B:159:LYS:HD3	2.23	0.54
1:B:78:ILE:HA	8:B:366:HOH:O	2.05	0.54
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.43	0.54
2:C:486:MET:SD	2:C:491:GLU:HA	2.48	0.54
3:D:1406:ARG:HE	3:D:1406:ARG:C	2.11	0.54
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.22	0.54
3:D:462:GLN:HG2	8:D:9662:HOH:O	2.07	0.54
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.90	0.54
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.88	0.54
3:D:974:ILE:HG22	8:D:9303:HOH:O	2.06	0.54
1:L:108:GLU:HB3	8:L:3562:HOH:O	2.07	0.54
2:M:1082:PRO:HA	8:M:1607:HOH:O	2.06	0.54
2:M:688:ILE:HD11	2:M:847:GLY:HA3	1.89	0.54
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.07	0.54
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.90	0.54
3:N:36:THR:C	3:N:38:LYS:H	2.10	0.54
3:N:614:PHE:O	3:N:617:ASN:HB2	2.07	0.54
3:N:56:TYR:HE2	3:N:69:GLU:HB3	1.72	0.54
3:N:68:PHE:O	3:N:71:LYS:HG2	2.08	0.54
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.89	0.54
3:N:838:ARG:NH1	3:N:874:GLU:HG2	2.22	0.54
5:P:161:GLN:HA	5:P:164:LYS:NZ	2.22	0.54
2:C:196:LEU:HD21	2:C:303:PHE:CD1	2.41	0.54
2:C:724:ARG:HB2	2:C:740:GLU:HG3	1.89	0.54
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1068:LEU:HD23	3:D:1072:ILE:HG12	1.89	0.54
3:D:529:GLN:OE1	3:D:533:GLY:HA2	2.08	0.54
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.90	0.54
3:D:615:ARG:HD3	3:D:616:GLN:N	2.22	0.54
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.38	0.54
5:F:369:LEU:HD23	8:F:443:HOH:O	2.07	0.54
1:K:133:GLU:HG2	1:K:134:GLU:H	1.71	0.54
1:K:209:GLU:C	1:K:213:GLN:HE21	2.10	0.54
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.89	0.54
2:M:710:ILE:CD1	2:M:790:LEU:HB2	2.37	0.54
2:M:838:LYS:HB3	2:M:848:VAL:HG22	1.88	0.54
3:N:1110:ALA:HB2	8:N:9805:HOH:O	2.07	0.54
3:N:1380:GLU:HG3	3:N:1381:VAL:N	2.23	0.54
3:N:629:SER:C	3:N:744:GLN:HG2	2.28	0.54
3:N:804:LEU:HB2	3:N:830:ALA:O	2.06	0.54
1:A:47:SER:HG	1:B:32:PHE:HZ	1.56	0.54
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.07	0.54
2:C:146:VAL:HG22	2:C:162:ILE:HG23	1.90	0.54
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.37	0.54
2:C:89:THR:HA	2:C:129:ILE:O	2.08	0.54
2:C:945:ARG:HD3	2:C:949:LYS:NZ	2.23	0.54
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.38	0.54
3:D:1333:HIS:CE1	3:D:1421:LEU:HD23	2.43	0.54
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.07	0.54
3:D:628:ARG:HD3	3:D:744:GLN:HE21	1.71	0.54
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.73	0.54
3:D:868:TYR:CG	3:D:869:MET:N	2.75	0.54
3:D:754:PHE:HZ	4:E:21:VAL:HG13	1.72	0.54
3:D:553:ARG:HH22	5:F:211:ASP:CG	2.11	0.54
1:L:186:LEU:O	1:L:186:LEU:HD23	2.07	0.54
1:L:81:ASN:O	1:L:84:GLU:HB3	2.07	0.54
2:M:227:PHE:HA	2:M:230:ARG:HE	1.71	0.54
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.17	0.54
3:N:167:GLU:HG3	8:N:9466:HOH:O	2.06	0.54
3:N:601:ARG:NH2	3:N:606:ILE:HA	2.23	0.54
2:C:749:VAL:HG11	2:C:755:LEU:HD23	1.88	0.54
2:C:820:ARG:HG2	8:C:1605:HOH:O	2.08	0.54
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.90	0.54
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.38	0.54
5:F:245:GLN:HA	8:F:572:HOH:O	2.06	0.54
1:K:20:TYR:HD2	1:K:21:GLY:N	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:185:LYS:HB3	2:M:188:LYS:O	2.07	0.54
2:M:358:ARG:HB3	2:M:371:LYS:O	2.08	0.54
2:M:408:ARG:NH1	2:M:542:VAL:HG23	2.23	0.54
2:M:424:GLY:O	2:M:427:VAL:HG23	2.08	0.54
2:M:455:LEU:HD12	2:M:459:ALA:HB3	1.89	0.54
2:M:607:ASP:HB3	2:M:609:ASN:H	1.72	0.54
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.89	0.54
3:N:702:LEU:HD13	3:N:716:PHE:CD1	2.43	0.54
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.08	0.54
1:A:90:LEU:HD12	1:A:119:ASP:O	2.07	0.54
2:C:194:VAL:HG23	8:C:1179:HOH:O	2.06	0.54
2:C:242:LEU:HD23	8:C:1853:HOH:O	2.08	0.54
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.37	0.54
2:C:341:THR:CG2	2:C:345:ARG:HH21	2.20	0.54
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.89	0.54
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.42	0.54
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.06	0.54
3:D:1314:LYS:HB2	8:D:9676:HOH:O	2.06	0.54
3:D:1465:ASN:HD21	3:D:1470:ARG:HD3	1.73	0.54
3:D:154:THR:HG22	3:D:157:GLU:CD	2.28	0.54
3:D:948:THR:O	3:D:949:ILE:HD13	2.08	0.54
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.38	0.54
1:K:30:ARG:HD3	8:K:3174:HOH:O	2.07	0.54
1:K:43:ILE:HD12	1:L:32:PHE:CZ	2.43	0.54
2:M:202:TYR:HA	8:M:1314:HOH:O	2.07	0.54
2:M:204:GLN:HG3	8:M:1527:HOH:O	2.08	0.54
2:M:210:GLU:HB3	8:M:1386:HOH:O	2.07	0.54
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.37	0.54
3:N:1277:ILE:HA	8:N:9618:HOH:O	2.07	0.54
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.90	0.54
3:N:523:ASP:O	3:N:526:PRO:HG3	2.08	0.54
3:N:828:LYS:HB3	8:N:9129:HOH:O	2.08	0.54
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.89	0.54
1:A:212:ASN:O	1:A:215:VAL:HG22	2.07	0.54
2:C:535:SER:H	2:C:538:GLN:NE2	2.06	0.54
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.08	0.54
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.90	0.54
2:C:73:LEU:HB3	2:C:94:LEU:HB2	1.90	0.54
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.42	0.54
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.38	0.54
3:D:530:VAL:HG12	3:D:531:ASP:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.73	0.54
8:C:1147:HOH:O	3:D:940:THR:HA	2.07	0.54
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.90	0.54
1:K:218:LEU:O	1:K:222:LEU:HD23	2.07	0.54
1:L:67:THR:HA	8:L:3261:HOH:O	2.07	0.54
2:M:1013:TYR:HD1	2:M:1020:PRO:HA	1.73	0.54
2:M:103:LYS:HD2	8:M:1331:HOH:O	2.06	0.54
2:M:1090:LYS:HE2	2:M:1112:PHE:CE1	2.43	0.54
2:M:328:LEU:CD2	2:M:437:ARG:HD3	2.37	0.54
2:M:42:VAL:HG12	2:M:43:GLY:H	1.72	0.54
2:M:630:ARG:HH21	2:M:707:ARG:H	1.54	0.54
2:M:397:GLU:OE2	2:M:632:ASN:HB2	2.08	0.54
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.08	0.54
3:N:478:LEU:HD21	3:N:500:ARG:NH2	2.22	0.54
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.28	0.54
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.90	0.54
3:N:834:THR:CG2	3:N:838:ARG:HD2	2.38	0.54
2:C:214:TYR:HB3	8:C:1697:HOH:O	2.08	0.54
2:C:691:SER:HB3	2:C:868:ASP:O	2.07	0.54
2:C:715:THR:HG22	2:C:717:LEU:HG	1.89	0.54
2:C:722:ILE:HG22	8:C:1846:HOH:O	2.06	0.54
2:C:3:ILE:HD13	2:C:900:ARG:O	2.07	0.54
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.90	0.54
3:D:1114:THR:O	3:D:1114:THR:HG23	2.08	0.54
3:D:1382:THR:HG21	3:D:1418:LYS:NZ	2.23	0.54
3:D:379:ALA:HB3	8:D:9652:HOH:O	2.08	0.54
3:D:503:LEU:HA	3:D:508:ARG:HH22	1.73	0.54
5:F:99:GLU:HB2	8:F:540:HOH:O	2.08	0.54
2:M:37:GLU:HG2	8:M:1585:HOH:O	2.08	0.54
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.38	0.54
3:N:1382:THR:HG22	8:N:9076:HOH:O	2.08	0.54
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.23	0.54
3:N:217:LYS:HA	8:N:9812:HOH:O	2.08	0.54
3:N:852:ALA:O	3:N:857:ILE:HG12	2.08	0.54
3:N:864:VAL:HA	8:N:9349:HOH:O	2.07	0.54
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.38	0.54
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.43	0.54
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.43	0.54
3:D:1271:LYS:HG2	8:D:9063:HOH:O	2.07	0.54
3:D:391:ALA:HB3	8:D:9451:HOH:O	2.08	0.54
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.91	0.54
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.08	0.54
3:D:992:ILE:O	3:D:995:LEU:HB3	2.08	0.54
4:E:63:TRP:O	4:E:67:GLU:HG3	2.08	0.54
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.43	0.54
1:K:159:LYS:HE2	8:K:3739:HOH:O	2.07	0.54
1:K:19:GLU:HB3	1:K:175:ARG:NH2	2.15	0.54
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.08	0.54
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.08	0.54
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.42	0.54
2:M:176:VAL:C	2:M:178:PRO:HD3	2.28	0.54
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.89	0.54
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.08	0.54
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.36	0.54
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.37	0.54
3:N:1321:ALA:HB3	3:N:1339:LYS:HE2	1.90	0.54
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.54
3:N:424:GLY:HA2	3:N:435:VAL:O	2.08	0.54
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.90	0.54
2:M:1015:LEU:HD13	5:P:335:ASP:HA	1.89	0.54
5:P:376:ILE:HG22	5:P:377:ASP:OD1	2.08	0.54
5:P:74:LYS:HE3	8:P:2868:HOH:O	2.07	0.54
1:A:18:ARG:O	1:A:207:PRO:HD3	2.08	0.53
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.89	0.53
2:C:487:THR:HG23	8:C:1431:HOH:O	2.08	0.53
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.08	0.53
2:C:798:GLY:H	2:C:827:VAL:HG11	1.70	0.53
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.08	0.53
3:D:1463:LYS:HG2	8:D:9761:HOH:O	2.08	0.53
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.37	0.53
2:C:848:VAL:HG23	3:D:740:PHE:O	2.08	0.53
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.22	0.53
1:L:24:VAL:HG12	1:L:26:GLU:OE2	2.08	0.53
1:L:29:GLU:C	8:L:4886:HOH:O	2.46	0.53
2:M:431:HIS:HD2	2:M:433:THR:H	1.56	0.53
2:M:473:ARG:HA	2:M:531:PHE:HD1	1.73	0.53
2:M:499:ALA:HA	8:M:1410:HOH:O	2.08	0.53
2:M:549:PHE:CZ	2:M:886:LEU:HD12	2.43	0.53
2:M:697:ARG:HB2	8:M:1159:HOH:O	2.07	0.53
2:M:876:VAL:O	2:M:879:ARG:O	2.26	0.53
3:N:1420:LEU:HD12	3:N:1421:LEU:H	1.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.89	0.53
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.90	0.53
1:A:108:GLU:HB3	8:A:384:HOH:O	2.07	0.53
1:B:146:ARG:HG3	1:B:146:ARG:O	2.08	0.53
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.71	0.53
2:C:1100:GLN:HG3	2:C:1101:THR:O	2.08	0.53
2:C:138:SER:HB2	2:C:410:ILE:HG13	1.90	0.53
2:C:193:LEU:HD11	8:C:1760:HOH:O	2.08	0.53
2:C:216:GLU:HA	8:C:1237:HOH:O	2.07	0.53
2:C:586:ARG:HG2	8:C:1243:HOH:O	2.08	0.53
2:C:812:GLY:HA3	8:C:1432:HOH:O	2.07	0.53
2:C:554:ASP:HB2	2:C:880:MET:HB2	1.89	0.53
3:D:1095:THR:N	8:D:9051:HOH:O	2.41	0.53
3:D:1264:GLU:OE2	3:D:1425:THR:HG22	2.08	0.53
3:D:400:VAL:HG21	3:D:441:ARG:NH1	2.14	0.53
3:D:674:ARG:HD2	8:F:469:HOH:O	2.09	0.53
3:D:650:LEU:HD22	3:D:688:TRP:CZ3	2.43	0.53
3:D:704:ARG:HH11	3:D:738:ALA:HB2	1.73	0.53
3:D:903:ASP:HB2	8:D:9514:HOH:O	2.07	0.53
4:E:28:GLN:O	4:E:31:LEU:HG	2.07	0.53
1:K:2:LEU:HB2	8:K:5032:HOH:O	2.08	0.53
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.23	0.53
1:L:185:ARG:HA	8:L:4811:HOH:O	2.08	0.53
2:M:572:ILE:O	2:M:573:ARG:HG2	2.08	0.53
3:N:127:LEU:HD12	3:N:128:TYR:N	2.23	0.53
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.08	0.53
3:N:690:ALA:O	3:N:694:VAL:HG23	2.08	0.53
5:P:201:LYS:HD2	8:P:3919:HOH:O	2.08	0.53
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.89	0.53
2:C:145:GLY:N	2:C:163:ILE:HG23	2.18	0.53
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.89	0.53
2:C:332:ARG:HD3	2:C:465:GLY:HA3	1.91	0.53
2:C:839:LEU:HD21	2:C:849:VAL:HG22	1.89	0.53
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.91	0.53
3:D:847:ASP:O	3:D:851:LEU:HG	2.09	0.53
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.43	0.53
2:M:571:LEU:HG	2:M:700:TYR:HA	1.91	0.53
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.43	0.53
3:N:1502:ALA:HA	8:N:9322:HOH:O	2.09	0.53
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.37	0.53
3:N:514:LEU:HD23	8:N:9079:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:534:ARG:HH11	3:N:534:ARG:HG3	1.74	0.53
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.38	0.53
4:O:66:LYS:HE3	8:O:3745:HOH:O	2.08	0.53
5:P:138:SER:O	5:P:141:VAL:HG12	2.08	0.53
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.29	0.53
2:C:102:HIS:HB2	2:C:106:GLY:O	2.09	0.53
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.44	0.53
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.37	0.53
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.90	0.53
3:D:430:ASP:CG	3:D:431:VAL:H	2.12	0.53
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.28	0.53
5:F:306:GLU:O	5:F:310:ILE:HG13	2.08	0.53
5:F:365:GLU:CD	5:F:397:ILE:HA	2.29	0.53
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.90	0.53
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.91	0.53
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.34	0.53
2:M:198:ARG:HB3	8:M:1370:HOH:O	2.09	0.53
2:M:380:ALA:HA	2:M:383:ARG:CD	2.35	0.53
3:N:951:ILE:HG23	3:N:1062:ARG:HE	1.74	0.53
3:N:1498:ALA:HB3	8:N:9099:HOH:O	2.09	0.53
3:N:165:LYS:HB3	3:N:395:VAL:HG11	1.89	0.53
4:O:86:GLN:O	4:O:90:GLU:HG3	2.07	0.53
1:B:226:SER:O	1:B:228:PRO:HD3	2.07	0.53
2:C:1009:SER:HB2	3:D:651:GLU:OE1	2.08	0.53
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.09	0.53
2:C:601:GLY:O	2:C:648:ARG:HA	2.09	0.53
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.07	0.53
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.09	0.53
3:D:652:LEU:HB3	3:D:653:PHE:CD1	2.44	0.53
3:D:786:ILE:HD13	3:D:908:LYS:HB3	1.89	0.53
4:E:61:GLU:O	4:E:65:MET:HG3	2.08	0.53
5:F:305:GLU:O	5:F:309:LYS:HG3	2.08	0.53
5:F:402:ASN:O	5:F:406:ARG:HG3	2.08	0.53
1:L:115:LEU:O	1:L:115:LEU:HD12	2.08	0.53
1:L:42:ARG:HB3	8:L:3652:HOH:O	2.08	0.53
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.88	0.53
8:M:1680:HOH:O	3:N:1088:THR:HG21	2.09	0.53
3:N:1423:GLY:HA3	8:N:9011:HOH:O	2.08	0.53
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.38	0.53
5:P:393:THR:O	5:P:397:ILE:HG13	2.09	0.53
1:A:66:SER:O	1:A:75:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.74	0.53
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.08	0.53
3:D:1351:GLU:OE1	3:D:1354:LYS:HG3	2.07	0.53
3:D:168:THR:OG1	3:D:393:ILE:HB	2.09	0.53
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.44	0.53
2:M:411:SER:HA	2:M:452:ILE:HA	1.90	0.53
2:M:139:GLN:HE22	2:M:415:PRO:CG	2.21	0.53
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.73	0.53
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.89	0.53
3:N:738:ALA:HB3	8:N:9159:HOH:O	2.08	0.53
4:O:51:LEU:HD12	4:O:52:GLU:N	2.24	0.53
5:P:270:LYS:HA	5:P:273:ARG:HD2	1.89	0.53
1:A:117:VAL:HG12	8:A:360:HOH:O	2.07	0.53
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.37	0.53
2:C:1003:ASP:O	2:C:1005:MET:N	2.41	0.53
2:C:1025:ALA:HA	8:C:1228:HOH:O	2.07	0.53
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.90	0.53
2:C:577:PRO:HB2	2:C:580:MET:HG3	1.91	0.53
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.38	0.53
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.73	0.53
2:C:945:ARG:HH11	2:C:945:ARG:HB3	1.74	0.53
3:D:1242:HIS:CE1	3:D:1266:ARG:HD3	2.43	0.53
3:D:1349:VAL:HG21	8:D:9752:HOH:O	2.07	0.53
3:D:420:VAL:HA	5:F:164:LYS:HE3	1.91	0.53
3:D:531:ASP:C	3:D:533:GLY:H	2.11	0.53
3:D:714:GLN:OE1	3:D:765:SER:HB2	2.08	0.53
1:L:110:LYS:HZ3	1:L:110:LYS:HB2	1.73	0.53
2:M:139:GLN:HG2	2:M:418:LEU:HD22	1.90	0.53
2:M:271:GLU:OE1	2:M:275:TYR:HB2	2.09	0.53
2:M:630:ARG:HA	2:M:705:ILE:HD11	1.89	0.53
2:M:752:GLY:N	2:M:792:VAL:HB	2.21	0.53
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.44	0.53
3:N:1253:THR:OG1	3:N:1258:ARG:HD3	2.07	0.53
3:N:197:SER:HA	8:N:9553:HOH:O	2.09	0.53
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.39	0.53
5:P:155:THR:HA	5:P:158:GLU:OE2	2.09	0.53
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.39	0.53
5:P:209:PHE:O	5:P:213:ILE:HG13	2.08	0.53
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.90	0.53
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.09	0.53
2:C:274:ARG:HG2	8:C:1235:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:444:PRO:HD2	2:C:452:ILE:HG13	1.91	0.53
2:C:496:ILE:HD12	2:C:496:ILE:H	1.74	0.53
2:C:964:LYS:HD2	8:C:1456:HOH:O	2.09	0.53
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.09	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.91	0.53
3:D:477:LEU:HD13	3:D:492:ALA:O	2.08	0.53
2:C:874:LEU:HD13	3:D:783:ARG:HB2	1.90	0.53
1:K:182:GLU:O	1:K:194:LYS:HB3	2.09	0.53
2:M:129:ILE:HD13	2:M:134:ARG:CB	2.29	0.53
2:M:489:THR:HG21	8:M:1667:HOH:O	2.07	0.53
2:M:564:MET:HE1	8:M:1413:HOH:O	2.09	0.53
2:M:571:LEU:HD12	2:M:701:THR:O	2.08	0.53
2:M:758:ARG:NH1	2:M:788:THR:HB	2.24	0.53
2:M:905:ILE:HG22	2:M:906:PHE:CD1	2.44	0.53
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.22	0.53
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.90	0.53
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.24	0.53
3:N:480:GLU:O	3:N:484:PRO:HD2	2.09	0.53
5:P:205:ARG:HH11	5:P:251:ILE:HG21	1.74	0.53
5:P:253:ASP:HA	5:P:259:ARG:NH1	2.24	0.53
5:P:269:ASN:O	5:P:273:ARG:HG3	2.09	0.53
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.91	0.53
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.91	0.53
2:C:358:ARG:HB3	2:C:371:LYS:O	2.09	0.53
2:C:115:LEU:HA	2:C:375:SER:HB3	1.90	0.53
2:C:380:ALA:O	2:C:384:GLU:HB2	2.09	0.53
2:C:578:VAL:HG11	2:C:991:GLN:CB	2.35	0.53
3:D:119:SER:CB	3:D:123:LEU:HB2	2.39	0.53
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.09	0.53
3:D:1381:VAL:HG23	3:D:1391:GLU:O	2.09	0.53
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.91	0.53
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.72	0.53
3:D:880:ILE:O	3:D:883:ALA:HB3	2.09	0.53
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.39	0.53
5:F:203:THR:HG22	8:F:514:HOH:O	2.07	0.53
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.24	0.53
1:L:101:LEU:HG	1:L:114:PHE:HA	1.90	0.53
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.89	0.53
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.90	0.53
2:M:217:LEU:HD12	2:M:311:PHE:CD2	2.44	0.53
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.24	0.53

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:191:ASN:HB3	5:F:220:LEU:HD11	1.91	0.52
5:F:263:HIS:HB2	8:F:604:HOH:O	2.08	0.52
5:F:340:SER:OG	5:F:342:VAL:HG23	2.09	0.52
2:M:19:THR:HG21	2:M:125:GLY:HA3	1.92	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.90	0.52
2:M:411:SER:HB2	2:M:452:ILE:HG23	1.91	0.52
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.92	0.52
2:M:798:GLY:HA3	2:M:828:ALA:O	2.09	0.52
3:N:1033:GLN:HB3	8:N:9763:HOH:O	2.09	0.52
3:N:1366:LYS:O	3:N:1370:ILE:HG12	2.10	0.52
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.28	0.52
3:N:697:GLY:HA3	8:O:2665:HOH:O	2.08	0.52
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.39	0.52
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.73	0.52
2:C:1092:LEU:HA	2:C:1095:LEU:HD12	1.90	0.52
2:C:468:ARG:HD3	2:C:485:TYR:HB3	1.90	0.52
2:C:625:LEU:HD13	2:C:639:GLN:O	2.10	0.52
3:D:116:LEU:O	3:D:118:LEU:HG	2.08	0.52
3:D:1448:THR:O	3:D:1452:ILE:HD13	2.09	0.52
2:C:1095:LEU:CD1	3:D:607:LEU:HD11	2.32	0.52
3:D:799:LYS:H	3:D:826:PRO:HG2	1.74	0.52
3:D:858:VAL:HG11	3:D:864:VAL:HG21	1.92	0.52
3:D:884:ARG:HG2	8:D:9790:HOH:O	2.10	0.52
3:D:996:TRP:O	3:D:999:THR:HG22	2.08	0.52
8:D:9510:HOH:O	5:F:259:ARG:HB2	2.07	0.52
3:D:537:THR:CA	5:F:317:LEU:HD12	2.39	0.52
2:C:777:ILE:HG23	5:F:405:LEU:CD1	2.39	0.52
5:F:401:GLU:O	5:F:405:LEU:HB2	2.10	0.52
1:K:219:ARG:HH11	1:K:219:ARG:HG3	1.74	0.52
1:K:91:ASN:HA	8:K:3642:HOH:O	2.09	0.52
1:L:123:MET:O	1:L:125:PRO:HD3	2.10	0.52
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.44	0.52
2:M:165:LEU:HB2	8:M:1197:HOH:O	2.09	0.52
2:M:378:LEU:HG	2:M:382:ILE:CD1	2.40	0.52
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.39	0.52
2:M:15:LEU:HD11	2:M:583:LEU:HD11	1.90	0.52
2:M:842:ARG:HB2	8:M:1165:HOH:O	2.07	0.52
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.91	0.52
3:N:420:VAL:HG23	8:N:9890:HOH:O	2.07	0.52
3:N:631:ILE:HD13	3:N:745:MET:HG3	1.91	0.52
5:P:185:GLN:O	5:P:189:GLU:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:772:ARG:CD	5:P:373:LYS:HD2	2.37	0.52
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.90	0.52
2:C:1005:MET:CE	3:D:648:MET:HB2	2.39	0.52
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.73	0.52
2:C:778:PHE:HB2	8:C:1741:HOH:O	2.09	0.52
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.90	0.52
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.92	0.52
3:D:584:ASN:HB3	8:D:9062:HOH:O	2.08	0.52
3:D:659:LYS:C	3:D:659:LYS:HD3	2.29	0.52
2:C:1104:GLU:HA	3:D:6:ARG:HH12	1.75	0.52
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.35	0.52
5:F:234:LYS:CD	5:F:236:SER:HB3	2.37	0.52
1:K:94:LEU:HD11	1:K:119:ASP:OD1	2.09	0.52
1:K:97:VAL:HG23	8:K:3015:HOH:O	2.07	0.52
2:M:162:ILE:HB	2:M:172:ILE:HB	1.90	0.52
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.75	0.52
3:N:1381:VAL:HG23	3:N:1391:GLU:O	2.10	0.52
3:N:712:GLY:HA2	8:N:9111:HOH:O	2.09	0.52
3:N:853:VAL:HG13	3:N:858:VAL:O	2.10	0.52
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.90	0.52
2:C:1024:LYS:HB2	8:C:1173:HOH:O	2.08	0.52
2:C:1047:HIS:CD2	3:D:1471:LEU:HD11	2.45	0.52
2:C:1109:VAL:HG22	8:D:9538:HOH:O	2.10	0.52
2:C:332:ARG:HA	2:C:465:GLY:O	2.10	0.52
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.91	0.52
2:C:627:ARG:HG3	2:C:628:PHE:H	1.75	0.52
2:C:777:ILE:HG12	5:F:405:LEU:HD11	1.91	0.52
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.45	0.52
2:C:911:GLU:HG2	2:C:915:LYS:HZ2	1.74	0.52
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.92	0.52
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.90	0.52
2:M:269:LEU:HD23	2:M:285:LEU:HD21	1.90	0.52
2:M:139:GLN:HE22	2:M:415:PRO:HD2	1.73	0.52
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.45	0.52
3:N:1047:LYS:HG2	3:N:1053:PHE:CE1	2.45	0.52
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.44	0.52
1:A:205:VAL:HG23	1:A:206:THR:N	2.23	0.52
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.92	0.52
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.30	0.52
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.52
2:C:510:ALA:HB3	2:C:513:VAL:HG23	1.91	0.52

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:167:PRO:HG2	8:P:3728:HOH:O	2.10	0.52
1:B:204:SER:HB2	8:B:371:HOH:O	2.09	0.52
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.24	0.52
2:C:114:PHE:HB2	8:C:1287:HOH:O	2.10	0.52
2:C:232:GLU:O	2:C:235:LEU:HB2	2.09	0.52
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.75	0.52
2:C:333:ILE:HD12	2:C:333:ILE:N	2.25	0.52
2:C:139:GLN:OE1	2:C:415:PRO:HD2	2.09	0.52
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.91	0.52
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.91	0.52
2:C:722:ILE:HD12	2:C:805:ARG:HH21	1.74	0.52
2:C:841:ASN:HD21	2:C:845:ASN:H	1.58	0.52
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.56	0.52
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.35	0.52
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.91	0.52
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.91	0.52
3:D:879:ARG:HH21	3:D:903:ASP:C	2.14	0.52
3:D:918:ALA:O	3:D:922:LEU:HG	2.10	0.52
3:D:972:LEU:HD23	3:D:973:GLN:N	2.24	0.52
5:F:274:THR:O	5:F:278:LEU:HG	2.10	0.52
1:K:123:MET:C	1:K:125:PRO:HD3	2.31	0.52
1:K:219:ARG:NH1	1:K:219:ARG:HG3	2.25	0.52
1:K:226:SER:O	1:K:228:PRO:HD3	2.10	0.52
2:M:1034:GLU:HB2	8:M:1373:HOH:O	2.09	0.52
2:M:244:PRO:CD	2:M:245:GLY:H	2.17	0.52
2:M:322:VAL:HA	8:M:1189:HOH:O	2.09	0.52
2:M:442:GLU:HG2	2:M:454:SER:OG	2.10	0.52
2:M:571:LEU:HD23	2:M:670:GLN:NE2	2.25	0.52
1:K:46:SER:HB3	2:M:856:GLU:CD	2.30	0.52
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.45	0.52
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.74	0.52
5:P:363:GLU:HA	5:P:367:MET:HG2	1.92	0.52
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.92	0.52
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.10	0.52
2:C:399:ASN:N	2:C:399:ASN:HD22	2.08	0.52
2:C:41:ASN:N	2:C:41:ASN:HD22	1.97	0.52
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.45	0.52
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.52
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.35	0.52
2:C:724:ARG:HH11	2:C:724:ARG:HB3	1.73	0.52
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:58:CYS:SG	3:D:59:ALA:N	2.83	0.52
4:E:19:LEU:O	4:E:23:VAL:HG23	2.10	0.52
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.44	0.52
1:K:143:ARG:HG3	1:K:144:VAL:N	2.25	0.52
1:L:46:SER:HB2	8:L:3700:HOH:O	2.09	0.52
1:L:85:LEU:HD13	1:L:127:LEU:HD23	1.92	0.52
2:M:451:LEU:HD12	2:M:451:LEU:H	1.75	0.52
3:N:1194:CYS:HB3	3:N:1373:ARG:CZ	2.40	0.52
3:N:1194:CYS:HB3	3:N:1373:ARG:HH22	1.74	0.52
3:N:126:VAL:O	3:N:132:TYR:HD1	1.92	0.52
3:N:15:PRO:HG3	8:N:9079:HOH:O	2.10	0.52
3:N:411:THR:HB	8:N:9297:HOH:O	2.10	0.52
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.09	0.52
3:N:81:THR:HG22	8:N:9092:HOH:O	2.10	0.52
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.92	0.52
5:P:253:ASP:HA	5:P:259:ARG:HH12	1.75	0.52
5:P:323:ASP:O	5:P:325:LYS:N	2.43	0.52
5:P:321:ILE:HB	5:P:327:SER:OG	2.10	0.52
2:C:554:ASP:HA	3:D:1061:PHE:CZ	2.45	0.51
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.10	0.51
3:D:1277:ILE:HG21	8:D:9249:HOH:O	2.10	0.51
3:D:1403:LEU:HG	8:D:9163:HOH:O	2.10	0.51
3:D:1333:HIS:ND1	3:D:1421:LEU:HD23	2.26	0.51
3:D:213:VAL:HG21	8:D:9600:HOH:O	2.09	0.51
3:D:529:GLN:HG2	3:D:535:PHE:CE1	2.45	0.51
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.92	0.51
3:D:542:ASP:O	3:D:546:ARG:HG2	2.10	0.51
3:D:819:GLY:O	3:D:822:ALA:HB3	2.10	0.51
3:D:777:PRO:HG2	3:D:915:VAL:HB	1.92	0.51
3:D:573:MET:CE	5:F:210:LEU:HB3	2.39	0.51
5:F:87:GLU:O	5:F:91:VAL:HG23	2.10	0.51
1:K:62:LEU:H	1:K:62:LEU:HD12	1.75	0.51
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.30	0.51
2:M:290:LEU:HD13	8:M:1252:HOH:O	2.10	0.51
2:M:52:PHE:HB3	2:M:53:PRO:HD3	1.92	0.51
2:M:626:ARG:HB2	8:M:1290:HOH:O	2.11	0.51
3:N:1210:SER:HB2	8:O:3546:HOH:O	2.10	0.51
3:N:119:SER:HB2	3:N:123:LEU:N	2.24	0.51
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.91	0.51
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.91	0.51
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.91	0.51

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.11	0.51
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.75	0.51
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.42	0.51
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.92	0.51
2:C:574:ALA:HB1	2:C:667:ALA:HB3	1.92	0.51
2:C:72:ARG:HB2	2:C:72:ARG:HH11	1.75	0.51
2:C:701:THR:CG2	2:C:832:LYS:HG3	2.37	0.51
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.92	0.51
3:D:1135:ARG:HB2	3:D:1140:ILE:HD11	1.92	0.51
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.10	0.51
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.09	0.51
3:D:1382:THR:HG22	8:D:9873:HOH:O	2.09	0.51
3:D:181:ASP:O	3:D:185:VAL:HG23	2.11	0.51
3:D:507:ASN:HA	8:D:9186:HOH:O	2.11	0.51
3:D:889:ALA:O	3:D:929:ARG:HD2	2.11	0.51
4:E:81:PRO:HG3	8:E:183:HOH:O	2.09	0.51
1:K:115:LEU:HD13	8:K:3936:HOH:O	2.09	0.51
1:K:127:LEU:HD12	1:K:128:HIS:N	2.23	0.51
1:K:181:VAL:O	2:M:938:LYS:HD3	2.10	0.51
1:K:184:THR:O	1:K:192:LEU:HD12	2.10	0.51
1:K:72:LYS:HD2	1:K:73:GLU:OE2	2.09	0.51
2:M:191:PHE:CE2	2:M:195:LEU:HB3	2.46	0.51
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.74	0.51
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.76	0.51
2:M:274:ARG:HD2	2:M:285:LEU:HB3	1.91	0.51
2:M:4:LYS:HD3	8:M:1624:HOH:O	2.10	0.51
2:M:546:LEU:CA	2:M:581:THR:HG21	2.41	0.51
2:M:741:GLY:HA3	8:M:1430:HOH:O	2.09	0.51
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.92	0.51
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.74	0.51
3:N:491:LYS:HD3	3:N:492:ALA:N	2.25	0.51
3:N:550:ARG:HH12	3:N:577:ALA:HB2	1.76	0.51
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.40	0.51
1:A:132:LEU:HD13	8:A:356:HOH:O	2.09	0.51
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.91	0.51
2:C:410:ILE:HD12	2:C:410:ILE:N	2.26	0.51
3:D:1088:THR:HA	8:D:9405:HOH:O	2.10	0.51
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.75	0.51
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.11	0.51
3:D:178:LEU:HD12	3:D:200:ASP:HB2	1.93	0.51
3:D:483:HIS:ND1	3:D:483:HIS:N	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1104:GLU:HA	3:D:6:ARG:NH1	2.26	0.51
3:D:764:LEU:HD12	3:D:765:SER:H	1.75	0.51
1:L:57:TYR:CE1	1:L:161:ARG:HB3	2.46	0.51
2:M:37:GLU:HA	8:M:1458:HOH:O	2.11	0.51
2:M:420:ARG:HG2	2:M:422:ARG:HG2	1.91	0.51
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.92	0.51
3:N:1390:LEU:HD13	8:N:9614:HOH:O	2.11	0.51
3:N:498:VAL:HG12	8:N:9641:HOH:O	2.10	0.51
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.75	0.51
4:O:24:ALA:O	4:O:28:GLN:HG3	2.10	0.51
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.93	0.51
5:P:113:ILE:O	5:P:116:LEU:HB2	2.11	0.51
5:P:214:GLN:HA	5:P:214:GLN:OE1	2.10	0.51
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.10	0.51
1:B:105:GLY:O	1:B:132:LEU:HD23	2.09	0.51
1:B:217:ILE:O	1:B:221:HIS:ND1	2.44	0.51
1:B:91:ASN:O	1:B:94:LEU:HD12	2.11	0.51
2:C:209:ARG:O	2:C:213:ALA:HB2	2.11	0.51
2:C:958:THR:CG2	2:C:961:GLU:HB2	2.40	0.51
3:D:1320:GLU:HB2	3:D:1323:GLN:NE2	2.25	0.51
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.91	0.51
3:D:543:LEU:O	3:D:546:ARG:HB2	2.11	0.51
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.92	0.51
4:E:48:MET:CB	4:E:54:LEU:HB2	2.41	0.51
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.26	0.51
3:D:669:ASN:HB3	5:F:349:LEU:HD11	1.92	0.51
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.91	0.51
5:F:393:THR:HG22	5:F:394:ARG:H	1.76	0.51
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.10	0.51
1:L:216:GLU:HG3	1:L:219:ARG:HH12	1.76	0.51
2:M:154:ARG:HH21	2:M:157:ARG:H	1.58	0.51
2:M:319:GLY:HA2	8:M:1247:HOH:O	2.11	0.51
2:M:36:PRO:HD3	8:M:1244:HOH:O	2.09	0.51
3:N:1065:LEU:CD1	3:N:1069:GLU:HB2	2.41	0.51
3:N:513:ILE:HA	8:N:9084:HOH:O	2.10	0.51
3:N:720:LEU:H	3:N:720:LEU:HD12	1.75	0.51
4:O:48:MET:HG2	4:O:49:GLN:N	2.24	0.51
4:O:86:GLN:HG2	8:O:2986:HOH:O	2.09	0.51
5:P:153:PRO:HG3	8:P:3659:HOH:O	2.10	0.51
2:C:1018:GLN:NE2	2:C:1063:ARG:HH22	2.08	0.51
2:C:15:LEU:HD12	2:C:15:LEU:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.93	0.51
2:C:693:GLU:HG3	8:C:1199:HOH:O	2.11	0.51
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.46	0.51
2:C:701:THR:HG23	2:C:832:LYS:HA	1.92	0.51
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.93	0.51
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.26	0.51
3:D:550:ARG:HH11	3:D:573:MET:HB3	1.76	0.51
3:D:671:LYS:O	3:D:671:LYS:HD3	2.11	0.51
3:D:702:LEU:HG	3:D:745:MET:HE2	1.92	0.51
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.93	0.51
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.46	0.51
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.11	0.51
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.74	0.51
2:M:584:GLU:O	2:M:588:VAL:HG13	2.11	0.51
2:M:944:LEU:O	2:M:948:GLU:HG2	2.10	0.51
3:N:1176:LYS:HA	3:N:1179:GLU:CD	2.30	0.51
3:N:1183:ILE:HG22	8:N:2022:HOH:O	2.10	0.51
3:N:1363:LEU:HD12	3:N:1364:HIS:O	2.11	0.51
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.26	0.51
3:N:6:ARG:CZ	3:N:6:ARG:HB3	2.41	0.51
4:O:17:TYR:HD2	4:O:17:TYR:N	2.08	0.51
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.91	0.51
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.45	0.51
2:C:157:ARG:NH2	2:C:314:THR:HA	2.24	0.51
2:C:42:VAL:HG12	2:C:43:GLY:N	2.26	0.51
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.11	0.51
3:D:1223:ILE:HD12	3:D:1223:ILE:N	2.23	0.51
3:D:1389:LEU:HD12	3:D:1390:LEU:HG	1.93	0.51
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.46	0.51
3:D:81:THR:O	3:D:82:LYS:O	2.28	0.51
3:D:84:ILE:O	3:D:87:ARG:HG3	2.11	0.51
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.76	0.51
3:D:563:PRO:HG3	5:F:188:ILE:HG21	1.93	0.51
5:F:264:MET:O	5:F:267:THR:HB	2.10	0.51
5:F:316:SER:HB2	5:F:319:THR:OG1	2.11	0.51
3:N:1156:LEU:HD11	3:N:1176:LYS:HD2	1.92	0.51
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.10	0.51
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.92	0.51
3:N:524:LEU:C	3:N:526:PRO:HD3	2.31	0.51
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.26	0.51
3:N:554:LEU:O	3:N:558:LEU:HG	2.11	0.51

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:47:LYS:N	4:O:54:LEU:HD13	2.26	0.51
4:O:83:ASP:O	4:O:86:GLN:HG3	2.11	0.51
5:P:208:SER:HB2	5:P:211:ASP:CG	2.31	0.51
5:P:287:THR:C	5:P:289:GLU:H	2.15	0.51
2:C:358:ARG:HH22	2:C:374:ASN:CB	2.11	0.50
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.20	0.50
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.47	0.50
3:D:1271:LYS:HG2	3:D:1272:ALA:N	2.25	0.50
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.11	0.50
5:F:407:LYS:HD3	8:F:437:HOH:O	2.10	0.50
1:K:227:ASN:ND2	8:K:3074:HOH:O	2.43	0.50
1:K:32:PHE:HB2	8:K:3631:HOH:O	2.11	0.50
1:K:91:ASN:H	1:K:94:LEU:CD1	2.24	0.50
1:L:176:ARG:HB2	8:N:9402:HOH:O	2.12	0.50
1:L:23:PHE:O	1:L:196:THR:HA	2.12	0.50
1:K:9:PRO:HD2	1:L:224:TYR:CZ	2.46	0.50
2:M:1107:ASN:HA	8:M:1421:HOH:O	2.11	0.50
2:M:72:ARG:HH21	2:M:112:GLU:HG3	1.76	0.50
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.10	0.50
3:N:1436:SER:HB3	8:N:9153:HOH:O	2.11	0.50
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.93	0.50
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.11	0.50
3:N:647:ARG:HG2	8:N:9316:HOH:O	2.11	0.50
1:A:96:THR:HB	8:A:441:HOH:O	2.09	0.50
2:C:128:ILE:HG22	8:C:1224:HOH:O	2.10	0.50
2:C:175:GLU:HB3	2:C:183:SER:OG	2.11	0.50
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.76	0.50
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.25	0.50
3:D:1314:LYS:HB3	8:D:9482:HOH:O	2.10	0.50
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.10	0.50
3:D:420:VAL:HA	5:F:164:LYS:CE	2.41	0.50
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.51	0.50
3:D:653:PHE:CD1	3:D:653:PHE:N	2.80	0.50
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.92	0.50
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.93	0.50
2:M:290:LEU:HD22	2:M:302:VAL:HG11	1.92	0.50
2:M:575:GLN:HA	2:M:662:GLU:OE2	2.11	0.50
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.93	0.50
3:N:999:THR:O	3:N:1002:LYS:HB2	2.11	0.50
3:N:1119:SER:HA	3:N:1186:VAL:O	2.10	0.50
3:N:27:GLU:N	8:N:9386:HOH:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.59	0.50
3:N:422:ALA:O	3:N:427:VAL:HG21	2.11	0.50
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.94	0.50
1:A:115:LEU:O	1:A:115:LEU:HD12	2.12	0.50
1:B:173:PRO:HB2	1:B:205:VAL:HG22	1.92	0.50
2:C:1097:LEU:CD2	2:C:1097:LEU:H	2.19	0.50
2:C:157:ARG:HD3	2:C:158:TYR:H	1.76	0.50
2:C:288:ARG:HH11	2:C:288:ARG:HB2	1.76	0.50
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.73	0.50
2:C:405:ARG:HH12	2:C:563:ASN:HD21	1.57	0.50
2:C:497:ALA:HA	2:C:515:ALA:HA	1.93	0.50
2:C:625:LEU:HB3	2:C:639:GLN:HG3	1.93	0.50
2:C:679:PHE:C	3:D:943:THR:HG22	2.31	0.50
2:C:712:ALA:HB1	2:C:820:ARG:HH11	1.76	0.50
2:C:969:GLN:HA	8:D:9594:HOH:O	2.11	0.50
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.15	0.50
3:D:1271:LYS:HE3	3:D:1334:GLN:HE22	1.75	0.50
3:D:195:VAL:HG13	8:D:9005:HOH:O	2.11	0.50
3:D:428:LYS:HB3	3:D:450:TYR:CE1	2.46	0.50
3:D:480:GLU:O	3:D:484:PRO:HD2	2.11	0.50
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.40	0.50
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.46	0.50
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.76	0.50
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.42	0.50
4:O:84:ARG:CZ	4:O:84:ARG:HB2	2.42	0.50
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.93	0.50
1:B:84:GLU:HB3	1:B:127:LEU:HD21	1.92	0.50
2:C:1088:LEU:HB2	8:D:9002:HOH:O	2.10	0.50
2:C:175:GLU:HA	8:C:1786:HOH:O	2.11	0.50
2:C:404:LEU:O	2:C:407:LYS:HB2	2.11	0.50
2:C:66:LEU:HB2	8:C:1196:HOH:O	2.11	0.50
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.10	0.50
3:D:1117:TYR:HE2	3:D:1151:ARG:HH21	1.59	0.50
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.40	0.50
3:D:1200:VAL:HG22	3:D:1373:ARG:HH12	1.76	0.50
3:D:960:LYS:HZ2	3:D:1041:LEU:HB3	1.77	0.50
4:E:17:TYR:O	4:E:21:VAL:HG23	2.11	0.50
5:F:142:ARG:HB3	5:F:142:ARG:HH11	1.77	0.50
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.76	0.50
1:L:33:GLY:O	1:L:195:LEU:HD22	2.11	0.50
2:M:1067:TYR:HA	2:M:1070:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:333:ILE:O	2:M:465:GLY:HA3	2.11	0.50
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.47	0.50
3:N:1097:LYS:HD2	8:N:9081:HOH:O	2.10	0.50
3:N:1258:ARG:HG3	3:N:1262:LEU:HD22	1.92	0.50
3:N:1422:MET:HE2	8:N:9147:HOH:O	2.11	0.50
3:N:554:LEU:HD21	3:N:571:LYS:HG3	1.93	0.50
3:N:639:LEU:HD12	3:N:639:LEU:N	2.25	0.50
5:P:164:LYS:HD2	8:P:4625:HOH:O	2.10	0.50
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.07	0.50
1:A:44:LEU:O	1:A:174:VAL:HG21	2.12	0.50
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.44	0.50
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.41	0.50
2:C:722:ILE:HD13	2:C:722:ILE:O	2.12	0.50
2:C:876:VAL:O	2:C:879:ARG:O	2.29	0.50
2:C:432:ARG:HD3	3:D:1048:PRO:HG2	1.92	0.50
3:D:1119:SER:HA	3:D:1186:VAL:O	2.11	0.50
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.11	0.50
3:D:526:PRO:O	3:D:537:THR:HA	2.12	0.50
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.27	0.50
3:D:904:VAL:HG22	8:D:9514:HOH:O	2.09	0.50
5:F:149:GLU:OE1	5:F:149:GLU:HA	2.11	0.50
1:K:173:PRO:HB3	1:K:204:SER:HB3	1.93	0.50
1:L:132:LEU:HD21	1:L:136:GLY:O	2.12	0.50
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.27	0.50
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.39	0.50
2:M:680:ASP:HB2	2:M:682:TYR:CE2	2.46	0.50
2:M:755:LEU:HB2	2:M:790:LEU:CD2	2.40	0.50
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.46	0.50
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.12	0.50
3:N:1263:PHE:CD2	3:N:1371:VAL:HG11	2.47	0.50
3:N:175:VAL:HG11	8:N:9190:HOH:O	2.11	0.50
3:N:699:VAL:N	3:N:756:GLN:NE2	2.53	0.50
5:P:102:LEU:O	5:P:106:VAL:HG23	2.12	0.50
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.41	0.50
8:N:9535:HOH:O	5:P:140:ARG:HB2	2.10	0.50
1:A:213:GLN:O	1:A:217:ILE:HG13	2.11	0.50
1:B:11:PHE:CD1	1:B:25:LEU:HD13	2.47	0.50
1:B:158:ILE:HA	8:B:396:HOH:O	2.11	0.50
2:C:72:ARG:HD3	8:C:1601:HOH:O	2.12	0.50
3:D:1205:TYR:HE1	3:D:1221:VAL:CG1	2.23	0.50
3:D:1105:ILE:HD11	3:D:1374:GLN:NE2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.12	0.50
3:D:178:LEU:CD2	3:D:199:LEU:H	2.24	0.50
3:D:470:LEU:HD12	3:D:508:ARG:HH21	1.77	0.50
3:D:902:LEU:HD12	3:D:902:LEU:H	1.76	0.50
1:K:173:PRO:HB2	1:K:205:VAL:HG22	1.93	0.50
1:K:56:VAL:HG21	1:K:82:LEU:HD12	1.93	0.50
1:L:81:ASN:HB2	8:L:2800:HOH:O	2.12	0.50
2:M:139:GLN:O	2:M:334:ARG:N	2.43	0.50
2:M:165:LEU:HD12	2:M:166:PRO:C	2.32	0.50
2:M:191:PHE:CD2	2:M:238:LEU:HD21	2.47	0.50
2:M:377:PRO:HA	8:M:1544:HOH:O	2.11	0.50
2:M:589:ARG:HD2	8:M:1552:HOH:O	2.12	0.50
2:M:852:ILE:N	2:M:852:ILE:HD12	2.27	0.50
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.94	0.50
3:N:951:ILE:CG2	3:N:1062:ARG:HH21	2.24	0.50
3:N:1335:LEU:HD23	3:N:1344:VAL:HG22	1.94	0.50
3:N:21:TRP:HZ3	3:N:518:PRO:HG2	1.77	0.50
5:P:287:THR:N	5:P:290:GLU:OE1	2.44	0.50
5:P:412:GLU:HG3	5:P:418:LEU:HD22	1.92	0.50
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.94	0.50
1:A:156:HIS:CD2	1:A:157:GLY:H	2.29	0.50
1:A:206:THR:CG2	1:A:209:GLU:HG3	2.39	0.50
1:A:26:GLU:HG2	1:A:27:PRO:HA	1.94	0.50
2:C:103:LYS:HG3	8:C:1421:HOH:O	2.12	0.50
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.92	0.50
2:C:18:LEU:HB2	2:C:590:ASP:HB3	1.93	0.50
2:C:195:LEU:CD2	2:C:238:LEU:HG	2.42	0.50
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.93	0.50
2:C:437:ARG:HA	2:C:467:ILE:CG2	2.40	0.50
2:C:534:VAL:HB	2:C:538:GLN:NE2	2.27	0.50
2:C:572:ILE:HG21	2:C:703:ILE:HD13	1.92	0.50
3:D:1009:LYS:O	3:D:1012:GLU:HG2	2.11	0.50
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.11	0.50
3:D:7:LYS:HD3	3:D:1456:LYS:NZ	2.26	0.50
3:D:396:VAL:HG13	3:D:446:VAL:O	2.12	0.50
3:D:399:ARG:NH2	3:D:432:TYR:HE2	2.09	0.50
3:D:661:MET:CE	3:D:673:ALA:HB1	2.40	0.50
5:F:289:GLU:O	5:F:293:GLU:HG3	2.11	0.50
8:C:1739:HOH:O	5:F:370:LYS:HG2	2.12	0.50
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.76	0.50
2:M:1027:PHE:HA	8:M:1757:HOH:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:214:TYR:HB2	8:M:1457:HOH:O	2.12	0.50
2:M:428:ARG:HG2	2:M:451:LEU:HG	1.93	0.50
2:M:704:HIS:CG	2:M:831:ARG:HH21	2.30	0.50
2:M:837:ASP:O	2:M:848:VAL:HG13	2.12	0.50
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.46	0.50
3:N:186:VAL:HG13	3:N:187:LYS:N	2.27	0.50
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.35	0.50
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.93	0.50
3:N:574:LEU:O	3:N:578:VAL:HG23	2.11	0.50
5:P:108:GLU:OE1	5:P:108:GLU:HA	2.12	0.50
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.76	0.50
2:C:404:LEU:HD22	2:C:591:SER:HB3	1.93	0.50
2:C:627:ARG:O	2:C:638:ASP:HB3	2.12	0.50
3:D:1192:LEU:HG	3:D:1369:GLU:HG2	1.92	0.50
3:D:404:GLU:HB3	3:D:414:ARG:HD3	1.94	0.50
3:D:690:ALA:O	3:D:694:VAL:HG23	2.12	0.50
3:D:834:THR:HB	3:D:838:ARG:HB3	1.92	0.50
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.46	0.50
8:D:9410:HOH:O	5:F:147:LEU:HD11	2.11	0.50
5:F:404:ALA:O	5:F:408:LEU:HD23	2.12	0.50
2:M:228:ALA:HB2	8:M:1214:HOH:O	2.11	0.50
2:M:955:PRO:HA	8:M:1188:HOH:O	2.11	0.50
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.41	0.50
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.93	0.50
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.42	0.50
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.94	0.50
3:N:898:GLU:HB3	3:N:921:ARG:HH22	1.76	0.50
1:A:42:ARG:NH2	1:B:34:VAL:HB	2.27	0.50
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.94	0.50
2:C:157:ARG:CD	2:C:314:THR:HG22	2.40	0.50
2:C:464:LEU:O	2:C:466:PHE:N	2.45	0.50
2:C:437:ARG:CZ	2:C:469:THR:HG22	2.42	0.50
3:D:1230:GLY:HA3	8:D:9051:HOH:O	2.11	0.50
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.41	0.50
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.50
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.41	0.50
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.77	0.50
3:D:864:VAL:HG12	3:D:865:THR:H	1.77	0.50
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.94	0.50
5:F:255:ALA:HB3	8:F:561:HOH:O	2.11	0.50
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.42	0.50

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:211:LEU:O	1:K:215:VAL:HG22	2.12	0.49
1:K:66:SER:O	1:K:75:VAL:HG23	2.12	0.49
2:M:157:ARG:HA	2:M:157:ARG:NE	2.27	0.49
2:M:259:GLY:HA3	8:M:1296:HOH:O	2.11	0.49
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.27	0.49
2:M:508:ILE:HG21	8:M:1319:HOH:O	2.12	0.49
2:M:745:ILE:HD11	8:M:1269:HOH:O	2.11	0.49
2:M:826:TYR:N	2:M:826:TYR:CD1	2.80	0.49
3:N:1496:GLU:O	3:N:1500:LYS:HG3	2.12	0.49
3:N:583:ASP:HA	3:N:602:SER:HB2	1.93	0.49
3:N:60:CYS:SG	3:N:62:LYS:HG2	2.52	0.49
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.94	0.49
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.76	0.49
1:A:61:VAL:HG12	8:A:482:HOH:O	2.12	0.49
2:C:141:HIS:ND1	2:C:418:LEU:HG	2.27	0.49
2:C:710:ILE:CB	2:C:790:LEU:HD13	2.39	0.49
3:D:1205:TYR:HD2	8:D:9465:HOH:O	1.95	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.92	0.49
3:D:197:SER:CB	3:D:203:ALA:HB3	2.28	0.49
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.26	0.49
3:D:850:LEU:O	3:D:853:VAL:HB	2.12	0.49
1:L:62:LEU:HD12	8:L:2996:HOH:O	2.12	0.49
2:M:170:PRO:HG2	2:M:258:TYR:HD2	1.76	0.49
2:M:708:TYR:N	2:M:708:TYR:CD1	2.79	0.49
3:N:1168:MET:HE2	3:N:1168:MET:O	2.11	0.49
3:N:1225:ALA:HA	3:N:1367:HIS:ND1	2.27	0.49
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.48	0.49
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.43	0.49
3:N:9:ARG:HG3	3:N:1455:LYS:C	2.33	0.49
3:N:379:ALA:HB2	8:N:9176:HOH:O	2.12	0.49
3:N:462:GLN:HB3	8:N:9127:HOH:O	2.12	0.49
3:N:474:GLU:O	3:N:478:LEU:HG	2.12	0.49
3:N:645:PRO:HG3	3:N:725:SER:O	2.13	0.49
3:N:844:ALA:HA	3:N:867:ARG:NH1	2.27	0.49
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.93	0.49
2:C:146:VAL:HG13	2:C:161:SER:O	2.12	0.49
2:C:443:THR:HG23	2:C:449:ILE:HD12	1.92	0.49
2:C:503:LEU:HD13	2:C:507:ARG:O	2.12	0.49
2:C:15:LEU:HD13	2:C:586:ARG:HG3	1.94	0.49
3:D:1105:ILE:HA	8:D:9253:HOH:O	2.12	0.49
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:111:LYS:HE2	3:D:1452:ILE:HG21	1.95	0.49
3:D:395:VAL:HG12	8:D:2022:HOH:O	2.11	0.49
3:D:809:PRO:O	3:D:812:ALA:HB3	2.12	0.49
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.41	0.49
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.28	0.49
4:E:55:PHE:HB3	8:E:116:HOH:O	2.12	0.49
2:C:777:ILE:HA	5:F:405:LEU:HD21	1.93	0.49
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.47	0.49
1:K:68:ILE:HG21	1:K:138:LEU:CD1	2.42	0.49
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.95	0.49
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.47	0.49
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.47	0.49
2:M:92:ALA:HB2	2:M:120:LEU:CD1	2.34	0.49
3:N:203:ALA:HA	8:N:9962:HOH:O	2.13	0.49
2:M:1118:LYS:HG2	3:N:23:TYR:HE1	1.78	0.49
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.42	0.49
3:N:7:LYS:HD3	3:N:1456:LYS:NZ	2.28	0.49
3:N:868:TYR:HE2	3:N:880:ILE:HD11	1.78	0.49
5:P:107:GLU:HG3	8:P:4460:HOH:O	2.11	0.49
5:P:218:GLN:HE21	5:P:221:ILE:HD12	1.78	0.49
5:P:247:ILE:O	5:P:251:ILE:HG13	2.13	0.49
5:P:363:GLU:HA	5:P:367:MET:CE	2.42	0.49
5:P:358:LEU:CD1	5:P:370:LYS:HG3	2.38	0.49
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.47	0.49
2:C:147:TYR:HE2	2:C:280:LYS:HZ3	1.59	0.49
2:C:327:HIS:HD2	2:C:433:THR:OG1	1.96	0.49
2:C:461:VAL:HG22	8:C:1321:HOH:O	2.12	0.49
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.48	0.49
2:C:577:PRO:HA	2:C:671:ASN:OD1	2.13	0.49
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.94	0.49
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.43	0.49
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.11	0.49
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.42	0.49
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.77	0.49
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.93	0.49
4:E:26:ARG:HE	4:E:30:LEU:CD1	2.25	0.49
5:F:203:THR:HB	8:F:436:HOH:O	2.11	0.49
5:F:287:THR:C	5:F:289:GLU:H	2.15	0.49
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.47	0.49
1:K:65:PHE:CE1	2:M:799:ILE:HD11	2.46	0.49
2:M:937:ASP:HB2	2:M:940:GLU:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.48	0.49
3:N:119:SER:HB2	3:N:123:LEU:CB	2.38	0.49
3:N:720:LEU:HD12	8:N:9443:HOH:O	2.12	0.49
3:N:970:LYS:HE3	8:N:9931:HOH:O	2.13	0.49
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.12	0.49
5:P:260:ILE:CG2	5:P:264:MET:HB2	2.41	0.49
5:P:291:ILE:HB	8:P:4032:HOH:O	2.13	0.49
5:P:323:ASP:C	5:P:325:LYS:H	2.15	0.49
1:A:187:GLY:HA3	8:A:335:HOH:O	2.11	0.49
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.42	0.49
2:C:422:ARG:HG2	8:C:1141:HOH:O	2.12	0.49
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.28	0.49
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.95	0.49
2:C:609:ASN:ND2	2:C:627:ARG:NH2	2.58	0.49
8:A:501:HOH:O	2:C:644:VAL:HG13	2.13	0.49
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.49
2:C:896:PHE:O	2:C:924:VAL:HG11	2.12	0.49
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.43	0.49
3:D:1289:LYS:HE3	3:D:1307:LYS:CE	2.41	0.49
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.94	0.49
3:D:862:ASP:O	3:D:877:PRO:HD3	2.12	0.49
3:D:96:ALA:CB	3:D:554:LEU:HD12	2.42	0.49
5:F:277:GLN:O	5:F:280:GLN:HB3	2.12	0.49
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.49
1:L:102:LYS:HG3	1:L:139:ASN:CB	2.42	0.49
1:L:196:THR:HB	8:L:4937:HOH:O	2.11	0.49
1:L:84:GLU:HG3	1:L:127:LEU:HD22	1.94	0.49
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.28	0.49
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.25	0.49
2:M:420:ARG:HD2	2:M:420:ARG:H	1.76	0.49
2:M:802:ARG:HD2	8:M:1213:HOH:O	2.12	0.49
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.95	0.49
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.48	0.49
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.94	0.49
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.13	0.49
3:N:121:THR:C	8:N:9808:HOH:O	2.51	0.49
3:N:133:ILE:HG23	3:N:455:ARG:N	2.28	0.49
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.41	0.49
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.49
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.43	0.49
3:N:567:ILE:C	3:N:571:LYS:HZ2	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:728:LEU:HD12	8:N:9339:HOH:O	2.12	0.49
3:N:890:VAL:CG1	3:N:926:LYS:HD3	2.42	0.49
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.11	0.49
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.49
2:C:274:ARG:HG3	2:C:274:ARG:O	2.13	0.49
2:C:366:SER:O	2:C:367:LEU:HD23	2.12	0.49
2:C:433:THR:O	2:C:433:THR:HG22	2.13	0.49
2:C:589:ARG:HG2	8:C:1213:HOH:O	2.12	0.49
3:D:916:TYR:HH	3:D:1145:TYR:HH	1.60	0.49
3:D:124:GLU:HG2	3:D:128:TYR:CZ	2.47	0.49
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.11	0.49
3:D:156:GLU:N	3:D:156:GLU:CD	2.66	0.49
3:D:131:LYS:HB3	3:D:456:MET:CE	2.43	0.49
4:E:51:LEU:CD1	4:E:52:GLU:H	2.26	0.49
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.78	0.49
2:M:332:ARG:NE	2:M:464:LEU:HG	2.28	0.49
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.93	0.49
2:M:580:MET:HB3	2:M:584:GLU:OE2	2.13	0.49
2:M:768:THR:O	2:M:772:ARG:HB3	2.12	0.49
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.94	0.49
3:N:27:GLU:O	3:N:28:LYS:HD2	2.13	0.49
3:N:574:LEU:O	3:N:577:ALA:HB3	2.11	0.49
3:N:602:SER:O	3:N:606:ILE:HG12	2.13	0.49
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.36	0.49
4:O:54:LEU:HB3	8:O:4983:HOH:O	2.12	0.49
5:P:142:ARG:NH1	5:P:142:ARG:HB3	2.26	0.49
5:P:184:ARG:O	5:P:188:ILE:HG13	2.12	0.49
1:B:65:PHE:HD1	3:D:813:LEU:HD22	1.76	0.49
2:C:84:ARG:HH21	2:C:128:ILE:HD11	1.78	0.49
2:C:172:ILE:HD12	2:C:172:ILE:N	2.27	0.49
2:C:412:ALA:CB	2:C:451:LEU:HB3	2.42	0.49
2:C:717:LEU:HB3	8:C:1140:HOH:O	2.13	0.49
2:C:751:PRO:HA	2:C:792:VAL:CG1	2.42	0.49
3:D:1157:GLY:HA3	8:D:9057:HOH:O	2.11	0.49
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.27	0.49
3:D:229:ALA:HA	8:D:2026:HOH:O	2.12	0.49
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.93	0.49
3:D:493:ARG:HD2	8:D:9698:HOH:O	2.13	0.49
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.74	0.49
3:D:790:TYR:CG	3:D:1026:SER:HB3	2.48	0.49
3:D:939:PHE:O	3:D:943:THR:HG23	2.13	0.49

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:285:LEU:O	2:M:285:LEU:HD23	2.13	0.49
2:M:497:ALA:HA	2:M:515:ALA:HA	1.94	0.49
2:M:614:ARG:CD	2:M:620:LEU:HD12	2.36	0.49
2:M:722:ILE:O	2:M:722:ILE:HG23	2.13	0.49
3:N:466:LYS:HB2	8:N:9423:HOH:O	2.12	0.49
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.40	0.49
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.28	0.49
3:N:948:THR:O	3:N:949:ILE:HD13	2.13	0.49
4:O:48:MET:N	4:O:54:LEU:HB2	2.28	0.49
4:O:54:LEU:HD23	4:O:58:PRO:HD2	1.94	0.49
5:P:176:ILE:HD12	8:P:3516:HOH:O	2.13	0.49
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.48	0.48
2:C:137:VAL:O	2:C:391:LEU:HD21	2.13	0.48
2:C:166:PRO:HD2	8:C:1392:HOH:O	2.13	0.48
2:C:286:SER:HB3	8:C:1755:HOH:O	2.12	0.48
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.95	0.48
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.42	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.39	0.48
3:D:32:ILE:HG12	3:D:38:LYS:O	2.13	0.48
1:K:100:LEU:HD11	8:K:4816:HOH:O	2.13	0.48
1:L:32:PHE:O	1:L:36:LEU:HD23	2.12	0.48
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.48	0.48
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.13	0.48
2:M:510:ALA:HA	8:M:1122:HOH:O	2.13	0.48
2:M:537:LYS:CA	2:M:545:ASN:HD21	2.22	0.48
2:M:589:ARG:CB	2:M:589:ARG:HH11	2.23	0.48
2:M:721:ARG:O	2:M:758:ARG:HA	2.13	0.48
2:M:778:PHE:HD2	8:M:1700:HOH:O	1.95	0.48
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.95	0.48
3:N:1108:ARG:HH21	3:N:1198:TYR:C	2.16	0.48
3:N:433:GLY:HA3	3:N:450:TYR:HD1	1.78	0.48
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.43	0.48
3:N:890:VAL:HG12	8:N:9462:HOH:O	2.12	0.48
1:A:198:ARG:C	1:A:199:ILE:HD12	2.34	0.48
1:B:18:ARG:O	1:B:207:PRO:HD3	2.13	0.48
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.48	0.48
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.48	0.48
2:C:498:GLN:O	2:C:501:THR:HG23	2.12	0.48
2:C:583:LEU:HG	2:C:583:LEU:O	2.13	0.48
3:D:1310:ARG:NH1	3:D:1327:ARG:HD3	2.28	0.48
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.13	0.48
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.48	0.48
3:D:971:LEU:O	3:D:975:GLU:HG3	2.12	0.48
2:M:283:ILE:HG23	8:M:1216:HOH:O	2.13	0.48
2:M:605:LYS:HB3	8:M:1452:HOH:O	2.11	0.48
2:M:637:LEU:N	2:M:637:LEU:HD23	2.28	0.48
3:N:1046:GLN:OE1	3:N:1046:GLN:N	2.46	0.48
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.43	0.48
3:N:119:SER:H	3:N:123:LEU:CD2	2.23	0.48
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.44	0.48
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.96	0.48
4:O:48:MET:CB	4:O:54:LEU:HB2	2.43	0.48
5:P:193:ARG:HG2	8:P:3920:HOH:O	2.13	0.48
5:P:208:SER:HB2	5:P:211:ASP:OD1	2.13	0.48
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.37	0.48
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.13	0.48
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.42	0.48
2:C:367:LEU:CD2	2:C:371:LYS:HG2	2.41	0.48
2:C:742:VAL:HG12	2:C:743:VAL:N	2.28	0.48
2:C:759:THR:HB	2:C:785:VAL:HG21	1.95	0.48
2:C:802:ARG:HB3	8:C:1186:HOH:O	2.11	0.48
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.47	0.48
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.48	0.48
3:D:63:TYR:HE2	8:D:9643:HOH:O	1.96	0.48
3:D:768:ASN:N	3:D:768:ASN:ND2	2.61	0.48
3:D:829:VAL:HA	8:D:2081:HOH:O	2.13	0.48
4:E:85:LEU:HD23	4:E:86:GLN:N	2.28	0.48
5:F:142:ARG:HA	8:F:755:HOH:O	2.13	0.48
5:F:231:ARG:HB3	5:F:233:PHE:CZ	2.49	0.48
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.95	0.48
1:K:140:MET:HG3	1:K:142:VAL:HG12	1.94	0.48
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.28	0.48
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.12	0.48
2:M:407:LYS:HD2	8:M:1363:HOH:O	2.12	0.48
2:M:707:ARG:HD2	2:M:824:ARG:HG2	1.93	0.48
2:M:790:LEU:C	2:M:790:LEU:HD23	2.34	0.48
2:M:882:LEU:HD11	3:N:1038:LEU:HD23	1.94	0.48
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.95	0.48
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.13	0.48
3:N:15:PRO:HA	3:N:18:ILE:CG1	2.42	0.48
3:N:179:VAL:HG23	8:N:9425:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.43	0.48
3:N:756:GLN:HG2	8:N:9643:HOH:O	2.12	0.48
3:N:844:ALA:HB1	8:N:9025:HOH:O	2.11	0.48
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.28	0.48
1:A:118:ALA:HB3	8:A:444:HOH:O	2.14	0.48
2:C:379:GLU:O	2:C:383:ARG:HB3	2.12	0.48
2:C:872:ASN:HB3	8:C:1870:HOH:O	2.13	0.48
2:C:839:LEU:HD12	2:C:994:ILE:HG21	1.95	0.48
2:C:500:ASN:ND2	3:D:1067:VAL:HG23	2.20	0.48
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.42	0.48
3:D:139:GLY:N	3:D:147:VAL:HG21	2.27	0.48
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.28	0.48
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.96	0.48
3:D:608:SER:O	3:D:612:GLY:HA3	2.14	0.48
5:F:134:LYS:HB3	5:F:178:ARG:NH1	2.28	0.48
5:F:226:LYS:HE3	8:F:741:HOH:O	2.12	0.48
5:F:310:ILE:HB	8:F:438:HOH:O	2.12	0.48
1:L:13:VAL:HG22	8:L:3037:HOH:O	2.13	0.48
1:L:2:LEU:HD12	1:L:3:ASP:N	2.27	0.48
2:M:1060:ILE:HG12	2:M:1063:ARG:HH21	1.78	0.48
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.94	0.48
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.43	0.48
2:M:281:LEU:CD1	2:M:306:THR:HA	2.44	0.48
2:M:748:GLU:HA	2:M:799:ILE:HG22	1.95	0.48
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.95	0.48
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.13	0.48
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.39	0.48
3:N:1176:LYS:HA	3:N:1179:GLU:OE2	2.14	0.48
3:N:566:ILE:HB	8:N:9165:HOH:O	2.13	0.48
4:O:35:PHE:HB3	8:O:3746:HOH:O	2.14	0.48
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.49	0.48
3:D:65:ARG:HG3	3:D:66:GLN:N	2.25	0.48
3:D:768:ASN:H	3:D:768:ASN:HD22	1.61	0.48
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.96	0.48
5:F:194:LEU:HB2	8:F:523:HOH:O	2.12	0.48
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.43	0.48
8:D:9332:HOH:O	5:F:80:PRO:HA	2.13	0.48
1:K:18:ARG:NH1	1:K:123:MET:HE1	2.28	0.48
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.43	0.48
1:L:173:PRO:HB3	1:L:204:SER:HB3	1.94	0.48
2:M:264:PRO:HB2	2:M:289:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:474:VAL:HG23	2:M:478:VAL:O	2.13	0.48
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.95	0.48
3:N:565:ILE:CD1	3:N:565:ILE:H	2.10	0.48
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.95	0.48
1:B:110:LYS:HZ3	1:B:110:LYS:HB2	1.78	0.48
1:B:162:ILE:HG22	8:B:463:HOH:O	2.12	0.48
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.43	0.48
2:C:127:PHE:O	2:C:133:ASP:HA	2.13	0.48
2:C:41:ASN:HB3	8:C:1231:HOH:O	2.13	0.48
2:C:669:GLY:C	2:C:670:GLN:HG3	2.33	0.48
2:C:630:ARG:HH22	2:C:707:ARG:N	2.11	0.48
2:C:708:TYR:N	2:C:708:TYR:CD1	2.81	0.48
3:D:1009:LYS:HA	3:D:1012:GLU:CD	2.34	0.48
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.26	0.48
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.76	0.48
3:D:1264:GLU:HB3	3:D:1266:ARG:NE	2.29	0.48
3:D:576:GLU:C	3:D:576:GLU:CD	2.72	0.48
3:D:827:ILE:O	3:D:837:GLY:HA3	2.14	0.48
4:E:87:LYS:O	4:E:91:ARG:HG3	2.14	0.48
1:K:215:VAL:HG11	1:L:225:PHE:CD1	2.48	0.48
2:M:19:THR:HG21	2:M:124:ASP:O	2.14	0.48
2:M:239:PHE:HE2	8:M:1222:HOH:O	1.97	0.48
2:M:301:GLU:O	2:M:305:PRO:HG2	2.13	0.48
2:M:688:ILE:N	2:M:688:ILE:HD12	2.29	0.48
2:M:759:THR:HB	2:M:785:VAL:CG2	2.43	0.48
2:M:833:LEU:HD12	2:M:834:GLN:N	2.29	0.48
2:M:879:ARG:NH1	3:N:1029:ARG:NH2	2.62	0.48
3:N:42:ASP:O	3:N:43:GLY:O	2.31	0.48
3:N:973:GLN:HG2	8:N:9252:HOH:O	2.13	0.48
4:O:45:ARG:O	4:O:47:LYS:HD3	2.13	0.48
5:P:350:LEU:HG	5:P:354:LEU:CD1	2.43	0.48
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.43	0.48
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.48	0.48
2:C:471:TYR:HA	2:C:534:VAL:HG23	1.96	0.48
2:C:603:VAL:H	2:C:647:GLN:H	1.61	0.48
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.76	0.48
2:C:91:GLN:HE22	2:C:383:ARG:NH2	2.11	0.48
3:D:1129:THR:HA	8:D:9218:HOH:O	2.14	0.48
3:D:1130:ARG:HG3	8:D:2021:HOH:O	2.13	0.48
3:D:389:GLU:O	3:D:389:GLU:HG2	2.13	0.48
3:D:428:LYS:HB3	3:D:450:TYR:HE1	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:666:ILE:H	3:D:666:ILE:HG13	1.33	0.48
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.28	0.48
3:D:813:LEU:O	3:D:839:LEU:HD11	2.13	0.48
3:D:860:LEU:O	3:D:877:PRO:HD2	2.13	0.48
3:D:899:LEU:HD21	3:D:922:LEU:HD21	1.96	0.48
4:E:17:TYR:N	4:E:17:TYR:CD2	2.82	0.48
4:E:43:GLU:HG2	4:E:44:GLU:N	2.28	0.48
1:K:178:ALA:HB3	1:K:198:ARG:HD3	1.94	0.48
1:K:209:GLU:O	1:K:213:GLN:HG3	2.13	0.48
2:M:1045:ALA:HB1	2:M:1048:THR:HB	1.96	0.48
2:M:57:GLU:HG3	2:M:58:ASP:OD2	2.13	0.48
2:M:599:GLU:OE1	2:M:651:LYS:HD2	2.14	0.48
2:M:80:GLN:O	2:M:83:CYS:HB2	2.13	0.48
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.95	0.48
3:N:880:ILE:O	3:N:883:ALA:HB3	2.14	0.48
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.17	0.48
1:A:110:LYS:HB2	8:A:442:HOH:O	2.14	0.48
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.96	0.48
1:A:161:ARG:NH2	8:A:348:HOH:O	2.46	0.48
1:A:85:LEU:HD12	1:A:86:VAL:N	2.29	0.48
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.49	0.48
2:C:289:THR:HB	8:C:1418:HOH:O	2.12	0.48
2:C:302:VAL:C	2:C:305:PRO:HD2	2.34	0.48
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.95	0.48
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.96	0.48
2:C:937:ASP:HB3	2:C:939:ARG:HG2	1.96	0.48
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.16	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.43	0.48
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.33	0.48
3:D:494:LYS:HD3	8:D:9340:HOH:O	2.14	0.48
3:D:550:ARG:HA	8:D:9108:HOH:O	2.14	0.48
3:D:598:ARG:CZ	5:F:320:PRO:HD3	2.44	0.48
3:D:633:VAL:HB	3:D:740:PHE:CZ	2.48	0.48
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.96	0.48
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.95	0.48
5:F:171:LYS:HG3	5:F:175:HIS:CD2	2.49	0.48
3:D:32:ILE:O	5:F:258:ILE:HG23	2.14	0.48
2:M:852:ILE:HD12	2:M:852:ILE:H	1.79	0.48
2:M:863:ASP:O	2:M:865:THR:N	2.46	0.48
2:M:925:TYR:C	2:M:925:TYR:CD1	2.87	0.48
2:M:975:TYR:HA	2:M:982:PRO:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1117:TYR:CD2	3:N:1117:TYR:N	2.82	0.48
3:N:1173:LEU:CD2	3:N:1174:LEU:HD23	2.43	0.48
3:N:1310:ARG:HD2	3:N:1327:ARG:HH21	1.76	0.48
3:N:208:PRO:CB	3:N:395:VAL:HG13	2.44	0.48
3:N:470:LEU:HD21	3:N:508:ARG:HH21	1.77	0.48
3:N:93:ILE:HD13	3:N:548:ILE:HD11	1.95	0.48
3:N:631:ILE:O	3:N:632:VAL:HG23	2.13	0.48
3:N:676:MET:HE2	3:N:684:LYS:HD2	1.96	0.48
3:N:799:LYS:HE2	3:N:824:ASN:O	2.13	0.48
5:P:125:ASP:OD2	5:P:126:LEU:HD13	2.14	0.48
5:P:169:GLU:H	5:P:169:GLU:CD	2.17	0.48
1:A:137:ARG:N	1:A:137:ARG:HD2	2.29	0.48
2:C:536:PRO:HG2	8:C:1330:HOH:O	2.14	0.48
2:C:715:THR:CG2	2:C:717:LEU:HG	2.44	0.48
2:C:721:ARG:O	2:C:758:ARG:HA	2.14	0.48
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.96	0.48
2:C:669:GLY:HA3	2:C:995:MET:HA	1.96	0.48
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.13	0.48
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.44	0.48
3:D:183:GLU:O	3:D:186:VAL:HG12	2.14	0.48
3:D:161:LEU:CD1	3:D:452:ILE:HD12	2.44	0.48
3:D:645:PRO:HG3	3:D:725:SER:O	2.12	0.48
5:F:323:ASP:O	5:F:325:LYS:N	2.46	0.48
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.95	0.48
1:L:218:LEU:O	1:L:222:LEU:HG	2.14	0.48
2:M:1104:GLU:HG2	8:M:1597:HOH:O	2.13	0.48
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.43	0.48
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.96	0.48
2:M:310:LEU:O	2:M:314:THR:HG23	2.14	0.48
2:M:31:GLN:HG2	2:M:34:VAL:HG23	1.96	0.48
2:M:586:ARG:HD2	2:M:590:ASP:OD2	2.14	0.48
2:M:952:LEU:HB3	2:M:969:GLN:HE22	1.78	0.48
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.44	0.48
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.13	0.48
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.41	0.48
3:N:393:ILE:H	3:N:393:ILE:HD12	1.79	0.48
3:N:661:MET:CE	3:N:673:ALA:HB1	2.43	0.48
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.49	0.48
3:N:788:GLY:O	3:N:792:ILE:HG22	2.13	0.48
3:N:804:LEU:HB3	8:N:9574:HOH:O	2.13	0.48
3:N:879:ARG:NE	3:N:902:LEU:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:47:LYS:HE2	4:O:47:LYS:H	1.78	0.48
8:N:9310:HOH:O	4:O:89:MET:HA	2.14	0.48
5:P:267:THR:HG21	8:P:3894:HOH:O	2.14	0.48
2:M:114:PHE:CZ	5:P:283:GLY:HA3	2.49	0.48
5:P:291:ILE:O	5:P:295:MET:HB2	2.13	0.48
2:C:378:LEU:HG	2:C:382:ILE:CD1	2.44	0.48
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.94	0.48
2:C:704:HIS:O	2:C:705:ILE:HG13	2.14	0.48
3:D:1107:VAL:HG21	3:D:1215:VAL:HG11	1.94	0.48
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.96	0.48
3:D:1250:ALA:O	3:D:1269:LYS:HE2	2.14	0.48
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.14	0.48
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.44	0.48
3:D:516:ALA:O	3:D:518:PRO:HD3	2.14	0.48
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.49	0.48
4:E:64:ALA:HA	4:E:67:GLU:CD	2.34	0.48
5:F:323:ASP:C	5:F:325:LYS:H	2.17	0.48
2:M:207:LEU:O	2:M:211:LEU:HB3	2.13	0.48
2:M:415:PRO:HB2	2:M:418:LEU:HD13	1.96	0.48
2:M:835:VAL:HG13	3:N:725:SER:OG	2.14	0.48
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.14	0.48
3:N:1242:HIS:NE2	3:N:1266:ARG:HD3	2.29	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.48
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.14	0.48
3:N:759:ALA:HA	3:N:763:MET:HE2	1.96	0.48
3:N:761:ILE:HD13	8:O:3197:HOH:O	2.13	0.48
3:N:787:LEU:O	3:N:787:LEU:HD12	2.14	0.48
5:P:396:ARG:HH11	5:P:399:GLN:HE21	1.62	0.48
5:P:396:ARG:NH1	5:P:399:GLN:HE21	2.12	0.48
1:A:184:THR:HG23	1:A:192:LEU:CD1	2.44	0.47
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.44	0.47
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.96	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.48	0.47
2:C:335:THR:CG2	2:C:461:VAL:HG11	2.44	0.47
2:C:694:LEU:O	2:C:699:PHE:HB2	2.14	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	0.47
2:C:926:PHE:CD2	2:C:930:LYS:HE2	2.49	0.47
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.96	0.47
3:D:1128:VAL:O	3:D:1129:THR:C	2.52	0.47
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.29	0.47
3:D:924:MET:O	3:D:927:THR:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:115:LYS:HE2	5:F:115:LYS:HA	1.96	0.47
5:F:200:LYS:HE2	8:F:705:HOH:O	2.14	0.47
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.48	0.47
1:L:143:ARG:HG3	8:L:3482:HOH:O	2.13	0.47
1:L:190:THR:HA	8:L:4811:HOH:O	2.14	0.47
2:M:178:PRO:HA	8:M:1432:HOH:O	2.11	0.47
2:M:367:LEU:HD23	2:M:371:LYS:NZ	2.29	0.47
2:M:611:ILE:N	2:M:611:ILE:HD12	2.29	0.47
2:M:575:GLN:N	2:M:667:ALA:HB1	2.29	0.47
2:M:728:HIS:HB3	2:M:729:LEU:HD12	1.96	0.47
2:M:735:ARG:HG2	2:M:735:ARG:HH11	1.79	0.47
2:M:810:ASP:HB3	8:M:1642:HOH:O	2.13	0.47
2:M:808:ARG:HH21	2:M:820:ARG:HG2	1.78	0.47
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.42	0.47
3:N:1197:ARG:HB3	3:N:1396:GLU:OE1	2.13	0.47
3:N:443:VAL:CG1	3:N:445:ARG:HE	2.26	0.47
3:N:658:LEU:O	3:N:661:MET:HB2	2.14	0.47
5:P:370:LYS:HB3	5:P:370:LYS:NZ	2.29	0.47
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.96	0.47
1:A:54:THR:HG22	1:A:143:ARG:HG2	1.95	0.47
1:B:159:LYS:HE2	8:B:396:HOH:O	2.12	0.47
1:B:11:PHE:HD1	1:B:25:LEU:HD13	1.79	0.47
2:C:103:LYS:HB2	8:C:1576:HOH:O	2.13	0.47
2:C:260:LEU:HA	2:C:291:ALA:CB	2.43	0.47
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.96	0.47
3:D:1342:GLU:H	3:D:1342:GLU:CD	2.18	0.47
3:D:1432:LYS:CG	3:D:1433:SER:H	2.27	0.47
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.14	0.47
3:D:43:GLY:N	8:D:9050:HOH:O	2.47	0.47
3:D:585:GLY:N	8:D:9822:HOH:O	2.47	0.47
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.43	0.47
3:D:829:VAL:HG11	8:D:9103:HOH:O	2.12	0.47
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.44	0.47
5:F:306:GLU:HG2	8:F:517:HOH:O	2.14	0.47
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.94	0.47
2:M:776:SER:HB3	8:M:1776:HOH:O	2.12	0.47
2:M:916:GLU:HG3	2:M:917:LEU:N	2.29	0.47
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.43	0.47
3:N:169:TYR:HA	3:N:392:SER:HA	1.96	0.47
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.45	0.47
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:583:ASP:OD2	3:N:586:ARG:HD2	2.14	0.47
3:N:761:ILE:HG23	4:O:6:ILE:HD11	1.95	0.47
3:N:792:ILE:O	3:N:878:GLY:HA3	2.14	0.47
2:M:984:GLU:HG3	3:N:944:THR:O	2.14	0.47
1:A:59:GLU:HG3	1:A:139:ASN:ND2	2.30	0.47
2:C:584:GLU:H	2:C:584:GLU:CD	2.16	0.47
2:C:80:GLN:O	2:C:83:CYS:HB2	2.14	0.47
2:C:553:ASP:HA	2:C:881:ASN:HA	1.97	0.47
2:C:959:PRO:O	2:C:963:LEU:HD23	2.14	0.47
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.95	0.47
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.12	0.47
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.14	0.47
3:D:169:TYR:N	3:D:170:PRO:CD	2.77	0.47
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.43	0.47
4:E:37:ASN:HD22	4:E:89:MET:CE	2.27	0.47
5:F:138:SER:O	5:F:141:VAL:HG12	2.14	0.47
5:F:198:ILE:HA	8:F:618:HOH:O	2.14	0.47
5:F:216:GLY:O	5:F:243:ILE:HG12	2.14	0.47
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.96	0.47
1:L:13:VAL:HG11	1:L:208:LEU:HD11	1.96	0.47
1:L:32:PHE:N	8:L:4886:HOH:O	2.47	0.47
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.47
2:M:603:VAL:H	2:M:647:GLN:H	1.63	0.47
2:M:687:ALA:C	2:M:688:ILE:HD12	2.35	0.47
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.44	0.47
1:A:157:GLY:HA3	8:A:320:HOH:O	2.14	0.47
1:B:211:LEU:O	1:B:215:VAL:HG13	2.14	0.47
2:C:157:ARG:HD3	2:C:158:TYR:N	2.29	0.47
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.44	0.47
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.47
3:D:1207:TYR:N	8:D:9465:HOH:O	2.46	0.47
3:D:1250:ALA:HB3	8:D:9181:HOH:O	2.14	0.47
3:D:1317:ASP:N	8:D:9664:HOH:O	2.47	0.47
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.15	0.47
3:D:573:MET:HE3	5:F:210:LEU:HB3	1.95	0.47
3:D:639:LEU:HD12	3:D:640:HIS:H	1.80	0.47
3:D:711:LEU:CD1	3:D:778:LEU:HD13	2.44	0.47
5:F:223:ALA:HB2	5:F:242:TRP:HB2	1.96	0.47
5:F:267:THR:O	5:F:271:LEU:HG	2.14	0.47
5:F:282:LEU:HB2	5:F:284:ARG:H	1.79	0.47
5:F:303:ARG:HG3	8:F:507:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:368:VAL:HG12	8:F:443:HOH:O	2.14	0.47
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.48	0.47
1:K:95:GLN:HG3	8:K:3203:HOH:O	2.14	0.47
2:M:172:ILE:HD12	2:M:172:ILE:N	2.30	0.47
2:M:198:ARG:NH1	2:M:231:PRO:HG3	2.30	0.47
2:M:405:ARG:HG2	2:M:409:ARG:NH2	2.11	0.47
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.49	0.47
2:M:716:LYS:HB2	8:M:1298:HOH:O	2.13	0.47
3:N:1475:GLY:HA2	4:O:17:TYR:CD1	2.49	0.47
3:N:147:VAL:HG11	8:N:9806:HOH:O	2.13	0.47
3:N:1485:GLN:HE21	4:O:80:VAL:N	2.09	0.47
3:N:827:ILE:HG23	3:N:837:GLY:CA	2.45	0.47
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.95	0.47
5:P:128:ARG:HB2	5:P:128:ARG:NH1	2.30	0.47
5:P:336:GLU:HG2	5:P:337:HIS:HD2	1.80	0.47
5:P:409:LYS:HG3	5:P:410:TYR:N	2.29	0.47
2:C:1055:LEU:HG	2:C:1079:PRO:HG3	1.97	0.47
2:C:232:GLU:HG3	2:C:235:LEU:CD1	2.44	0.47
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.18	0.47
2:C:473:ARG:HD2	2:C:475:VAL:HG23	1.95	0.47
2:C:510:ALA:HB2	8:C:1220:HOH:O	2.14	0.47
2:C:526:PRO:HB2	8:C:1311:HOH:O	2.13	0.47
2:C:398:THR:HG22	2:C:568:ALA:O	2.13	0.47
2:C:773:LEU:O	2:C:777:ILE:HG13	2.14	0.47
2:C:567:GLN:CB	2:C:997:LEU:HD22	2.45	0.47
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.50	0.47
3:D:1153:VAL:O	3:D:1160:LEU:HG	2.14	0.47
3:D:1250:ALA:HB2	8:D:9571:HOH:O	2.13	0.47
3:D:186:VAL:HG13	3:D:187:LYS:N	2.28	0.47
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.96	0.47
3:D:465:LEU:CD1	3:D:513:ILE:HD11	2.44	0.47
3:D:912:LYS:O	3:D:915:VAL:HG23	2.15	0.47
3:D:420:VAL:HA	5:F:164:LYS:NZ	2.29	0.47
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.49	0.47
5:F:411:HIS:HB2	8:F:598:HOH:O	2.13	0.47
2:M:1059:ASP:O	2:M:1063:ARG:HG2	2.13	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.47
2:M:197:LEU:CD1	2:M:207:LEU:HD11	2.44	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.45	0.47
2:M:625:LEU:O	2:M:627:ARG:N	2.47	0.47
2:M:645:VAL:HG13	8:M:1487:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.49	0.47
3:N:1138:ALA:HA	3:N:1141:GLU:HG3	1.96	0.47
3:N:1310:ARG:HB2	8:N:9400:HOH:O	2.14	0.47
3:N:132:TYR:HA	8:N:9161:HOH:O	2.14	0.47
3:N:493:ARG:NH1	3:N:1390:LEU:H	2.12	0.47
3:N:417:PRO:HA	5:P:168:LYS:HZ2	1.77	0.47
3:N:459:GLU:HG2	8:N:9337:HOH:O	2.14	0.47
3:N:561:GLY:HA2	8:N:9133:HOH:O	2.14	0.47
3:N:568:ARG:HA	3:N:571:LYS:NZ	2.29	0.47
3:N:864:VAL:HG12	3:N:865:THR:H	1.79	0.47
3:N:871:LYS:HB3	3:N:873:LEU:HD11	1.97	0.47
3:N:886:VAL:HG13	3:N:930:LEU:HD11	1.96	0.47
4:O:84:ARG:HG3	4:O:84:ARG:O	2.15	0.47
5:P:112:ALA:HA	5:P:173:TYR:CD2	2.48	0.47
5:P:302:LYS:HA	8:P:3021:HOH:O	2.14	0.47
5:P:392:VAL:HG21	8:P:3999:HOH:O	2.14	0.47
1:A:149:GLY:O	1:A:171:PHE:HB2	2.14	0.47
1:B:68:ILE:HD12	1:B:71:VAL:HG21	1.95	0.47
2:C:139:GLN:HG2	2:C:140:ILE:H	1.79	0.47
3:D:1071:PHE:HB3	8:D:9526:HOH:O	2.14	0.47
3:D:416:ALA:H	3:D:417:PRO:CD	2.26	0.47
3:D:640:HIS:HE1	4:E:3:GLU:HG2	1.79	0.47
3:D:852:ALA:O	3:D:857:ILE:HG12	2.14	0.47
5:F:117:SER:OG	5:F:124:PRO:HG3	2.15	0.47
5:F:371:LEU:O	5:F:375:LEU:HB3	2.15	0.47
3:D:675:ARG:HH21	5:F:421:PHE:H	1.61	0.47
1:K:228:PRO:HG3	8:K:4456:HOH:O	2.13	0.47
1:K:69:PRO:O	1:K:71:VAL:HG23	2.13	0.47
2:M:1030:GLN:HB3	3:N:626:SER:HB2	1.97	0.47
2:M:32:ALA:HA	8:M:1342:HOH:O	2.15	0.47
2:M:820:ARG:HB2	8:M:1654:HOH:O	2.14	0.47
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.44	0.47
2:M:916:GLU:O	2:M:919:ALA:HB3	2.15	0.47
3:N:1054:GLU:HB2	8:N:9488:HOH:O	2.15	0.47
3:N:1184:GLN:HG2	8:N:9892:HOH:O	2.15	0.47
3:N:1123:PHE:CE2	3:N:1184:GLN:HG3	2.50	0.47
3:N:1320:GLU:HG2	3:N:1339:LYS:HE3	1.96	0.47
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.45	0.47
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.29	0.47
3:N:607:LEU:HA	3:N:613:ARG:HB3	1.96	0.47
3:N:80:VAL:HG12	3:N:81:THR:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:829:VAL:HA	8:N:9426:HOH:O	2.15	0.47
3:N:902:LEU:O	3:N:902:LEU:HD12	2.15	0.47
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.96	0.47
3:N:1485:GLN:NE2	4:O:80:VAL:H	2.12	0.47
5:P:396:ARG:HA	5:P:399:GLN:HB2	1.95	0.47
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.97	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.47	0.47
2:C:878:SER:HB2	8:C:1420:HOH:O	2.14	0.47
3:D:1009:LYS:HE2	3:D:1013:GLU:OE1	2.14	0.47
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.80	0.47
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.28	0.47
3:D:488:ARG:NH1	3:D:488:ARG:HB3	2.29	0.47
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.50	0.47
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.79	0.47
3:D:780:LYS:HE2	8:D:9604:HOH:O	2.13	0.47
3:D:848:GLU:HB2	8:D:9179:HOH:O	2.13	0.47
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.96	0.47
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.96	0.47
2:M:1090:LYS:HZ1	3:N:90:MET:CG	2.27	0.47
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.97	0.47
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.96	0.47
2:M:724:ARG:HE	2:M:734:LEU:HG	1.78	0.47
2:M:770:GLU:HG2	8:N:9172:HOH:O	2.15	0.47
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.96	0.47
3:N:1068:LEU:C	3:N:1070:TYR:N	2.67	0.47
3:N:153:LEU:CD1	3:N:157:GLU:HB2	2.45	0.47
3:N:442:ASN:HB3	8:N:9376:HOH:O	2.14	0.47
3:N:598:ARG:NE	8:N:9109:HOH:O	2.47	0.47
3:N:960:LYS:HB3	8:N:9231:HOH:O	2.13	0.47
5:P:155:THR:O	5:P:159:ILE:HG13	2.14	0.47
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.50	0.47
2:C:301:GLU:O	2:C:305:PRO:HG2	2.15	0.47
2:C:193:LEU:HD23	2:C:307:LEU:CD1	2.45	0.47
2:C:372:LEU:HD21	8:C:1196:HOH:O	2.14	0.47
2:C:403:SER:O	2:C:407:LYS:HD2	2.14	0.47
2:C:739:GLU:HB2	8:C:1284:HOH:O	2.14	0.47
2:C:798:GLY:HA2	8:C:1158:HOH:O	2.15	0.47
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.45	0.47
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.50	0.47
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.45	0.47
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:647:ARG:HG2	8:D:9811:HOH:O	2.14	0.47
3:D:83:SER:O	3:D:86:ARG:HB3	2.14	0.47
3:D:96:ALA:HB1	3:D:554:LEU:HD12	1.97	0.47
4:E:69:LEU:HD11	8:E:181:HOH:O	2.15	0.47
5:F:273:ARG:HG2	8:F:571:HOH:O	2.15	0.47
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.96	0.47
2:M:1076:VAL:HG22	3:N:752:SER:HB3	1.96	0.47
2:M:112:GLU:HB2	8:M:1448:HOH:O	2.15	0.47
2:M:470:PRO:HB2	2:M:483:VAL:HG11	1.97	0.47
2:M:52:PHE:O	2:M:54:ILE:N	2.48	0.47
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.30	0.47
2:M:824:ARG:HB3	2:M:826:TYR:CE1	2.50	0.47
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.29	0.47
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.15	0.47
3:N:1379:VAL:CG1	3:N:1395:LEU:HD23	2.45	0.47
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.95	0.47
3:N:470:LEU:HD21	3:N:508:ARG:NH2	2.30	0.47
3:N:47:GLU:OE1	3:N:52:PRO:HA	2.15	0.47
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.15	0.47
2:M:1115:LEU:CD2	3:N:85:VAL:HG13	2.43	0.47
3:N:89:ARG:O	3:N:521:PRO:HG3	2.14	0.47
5:P:159:ILE:O	5:P:163:LEU:HG	2.14	0.47
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.95	0.47
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.45	0.47
2:C:285:LEU:HD12	2:C:288:ARG:O	2.15	0.47
2:C:946:ARG:NH2	3:D:859:ASP:HA	2.30	0.47
3:D:1033:GLN:HE22	3:D:1036:ARG:HH11	1.63	0.47
3:D:1066:THR:HG23	3:D:1069:GLU:N	2.16	0.47
3:D:115:LEU:HD23	3:D:116:LEU:N	2.30	0.47
3:D:1312:LEU:N	8:D:9045:HOH:O	2.42	0.47
3:D:1354:LYS:HD3	8:D:9078:HOH:O	2.15	0.47
3:D:414:ARG:HG2	8:D:9627:HOH:O	2.13	0.47
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.95	0.47
3:D:528:VAL:HG12	8:D:9096:HOH:O	2.15	0.47
3:D:591:VAL:HG12	3:D:592:THR:O	2.15	0.47
3:D:645:PRO:HB3	3:D:723:GLY:O	2.14	0.47
3:D:996:TRP:HA	3:D:999:THR:CG2	2.43	0.47
5:F:316:SER:HB3	5:F:318:GLU:O	2.15	0.47
1:L:50:GLY:O	1:L:146:ARG:HA	2.15	0.47
1:L:149:GLY:O	1:L:171:PHE:HB2	2.14	0.47
1:L:212:ASN:N	1:L:212:ASN:HD22	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:61:VAL:HA	8:L:2996:HOH:O	2.15	0.47
2:M:206:THR:HG21	8:M:1314:HOH:O	2.15	0.47
2:M:290:LEU:HB3	2:M:302:VAL:HG12	1.97	0.47
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.78	0.47
2:M:409:ARG:HA	2:M:454:SER:CA	2.32	0.47
2:M:53:PRO:HD3	8:M:1173:HOH:O	2.14	0.47
2:M:572:ILE:CG2	2:M:703:ILE:HD13	2.45	0.47
2:M:624:PRO:O	2:M:625:LEU:HD23	2.15	0.47
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.97	0.47
3:N:1123:PHE:HB3	3:N:1133:ARG:O	2.15	0.47
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.30	0.47
3:N:486:ARG:HH21	3:N:489:ARG:CD	2.28	0.47
3:N:536:ALA:HA	5:P:315:VAL:N	2.19	0.47
3:N:587:ARG:HD3	8:N:9432:HOH:O	2.14	0.47
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.80	0.47
5:P:110:MET:HA	5:P:113:ILE:HD12	1.97	0.47
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.15	0.47
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.45	0.47
2:C:244:PRO:CD	2:C:245:GLY:H	2.20	0.47
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.15	0.47
3:D:129:PHE:CE2	3:D:587:ARG:HD3	2.50	0.47
3:D:1341:PRO:HD2	3:D:1342:GLU:OE2	2.14	0.47
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.95	0.47
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.97	0.47
3:D:169:TYR:HA	3:D:392:SER:HA	1.97	0.47
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.97	0.47
3:D:476:GLU:HG2	8:D:9254:HOH:O	2.14	0.47
3:D:645:PRO:HA	3:D:721:VAL:O	2.14	0.47
3:D:843:PHE:HA	3:D:848:GLU:OE1	2.14	0.47
4:E:13:VAL:HG21	4:E:19:LEU:HB2	1.96	0.47
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.29	0.47
2:M:1105:LYS:HB2	2:M:1107:ASN:HD22	1.80	0.47
2:M:671:ASN:ND2	2:M:993:PHE:CD2	2.81	0.47
2:M:551:GLU:HA	2:M:906:PHE:CE2	2.49	0.47
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.27	0.47
3:N:181:ASP:O	3:N:185:VAL:HG23	2.14	0.47
3:N:188:GLY:HA2	3:N:210:ARG:NH1	2.30	0.47
3:N:204:LEU:HG	8:N:9317:HOH:O	2.14	0.47
3:N:209:ARG:HB2	3:N:395:VAL:O	2.15	0.47
3:N:463:GLN:O	3:N:467:GLU:HG3	2.15	0.47
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:1335:HOH:O	3:N:944:THR:HA	2.14	0.47
3:N:950:GLY:H	3:N:953:ASP:CB	2.27	0.47
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.27	0.47
5:P:109:GLY:O	5:P:113:ILE:HG13	2.14	0.47
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.35	0.47
5:P:421:PHE:C	5:P:423:ASP:H	2.17	0.47
1:B:180:GLN:HB3	8:D:9039:HOH:O	2.15	0.47
1:B:20:TYR:OH	1:B:198:ARG:HD3	2.14	0.47
2:C:269:LEU:HD22	8:C:1709:HOH:O	2.14	0.47
2:C:302:VAL:O	2:C:306:THR:HG23	2.15	0.47
2:C:625:LEU:O	2:C:627:ARG:N	2.48	0.47
2:C:645:VAL:HA	8:C:1221:HOH:O	2.15	0.47
2:C:722:ILE:CG2	2:C:805:ARG:HH21	2.27	0.47
2:C:690:ILE:CD1	2:C:833:LEU:HD21	2.45	0.47
3:D:1183:ILE:N	3:D:1183:ILE:HD12	2.29	0.47
3:D:1336:LEU:HA	3:D:1344:VAL:CG2	2.45	0.47
3:D:422:ALA:O	3:D:427:VAL:HG21	2.15	0.47
3:D:474:GLU:O	3:D:478:LEU:HG	2.15	0.47
3:D:80:VAL:HG12	8:D:9019:HOH:O	2.14	0.47
3:D:928:ALA:O	3:D:931:LEU:HB2	2.14	0.47
5:F:261:PRO:O	5:F:265:VAL:HG23	2.15	0.47
5:F:388:ALA:HA	8:F:635:HOH:O	2.15	0.47
1:L:54:THR:HG22	1:L:158:ILE:HG13	1.97	0.47
2:M:215:GLY:HA3	8:M:1560:HOH:O	2.15	0.47
2:M:44:ILE:HD13	2:M:344:PHE:CE1	2.50	0.47
2:M:405:ARG:HD3	2:M:543:ASN:HB2	1.97	0.47
2:M:412:ALA:HB3	2:M:451:LEU:HB3	1.97	0.47
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.97	0.47
2:M:605:LYS:HA	8:M:1487:HOH:O	2.15	0.47
2:M:926:PHE:O	2:M:930:LYS:HG3	2.15	0.47
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.15	0.47
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.45	0.47
3:N:397:LYS:HE2	3:N:399:ARG:HE	1.80	0.47
3:N:90:MET:SD	3:N:521:PRO:HD3	2.54	0.47
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.80	0.47
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.97	0.47
3:N:916:TYR:O	3:N:919:PHE:HB3	2.15	0.47
4:O:74:VAL:CG1	4:O:79:LEU:HD21	2.45	0.47
2:C:1100:GLN:O	2:C:1102:LEU:HD12	2.15	0.46
2:C:195:LEU:CD1	2:C:234:ALA:HB1	2.46	0.46
2:C:281:LEU:HB2	2:C:309:TYR:CG	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:285:LEU:HD23	2:C:285:LEU:O	2.15	0.46
2:C:687:ALA:C	2:C:688:ILE:HD12	2.35	0.46
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.97	0.46
2:C:941:VAL:O	2:C:944:LEU:HB2	2.14	0.46
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.76	0.46
3:D:1459:LEU:HD22	3:D:1465:ASN:HD22	1.79	0.46
3:D:797:LYS:HD2	3:D:797:LYS:N	2.30	0.46
5:F:282:LEU:N	5:F:282:LEU:HD23	2.30	0.46
5:F:363:GLU:HA	5:F:367:MET:SD	2.55	0.46
1:K:115:LEU:HB3	8:K:4097:HOH:O	2.14	0.46
1:K:68:ILE:CD1	1:K:138:LEU:HD11	2.45	0.46
1:K:88:ARG:HD2	1:K:123:MET:HE1	1.97	0.46
2:M:345:ARG:CB	2:M:345:ARG:HH11	2.27	0.46
2:M:422:ARG:HG3	8:M:1745:HOH:O	2.13	0.46
2:M:464:LEU:O	2:M:466:PHE:N	2.48	0.46
2:M:918:LEU:HD23	2:M:968:LEU:CA	2.43	0.46
3:N:1275:SER:HB3	3:N:1325:LEU:CD1	2.45	0.46
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.97	0.46
3:N:44:LEU:HG	8:N:9867:HOH:O	2.16	0.46
3:N:645:PRO:HA	3:N:721:VAL:O	2.15	0.46
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.46
1:A:101:LEU:HG	1:A:113:ASP:O	2.15	0.46
1:A:50:GLY:O	1:A:146:ARG:HA	2.15	0.46
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.43	0.46
2:C:534:VAL:N	2:C:538:GLN:NE2	2.63	0.46
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.80	0.46
2:C:798:GLY:C	2:C:799:ILE:HD13	2.36	0.46
2:C:9:ILE:HD12	2:C:9:ILE:O	2.15	0.46
3:D:495:ARG:O	3:D:495:ARG:HG2	2.16	0.46
3:D:962:GLN:N	3:D:962:GLN:OE1	2.47	0.46
5:F:282:LEU:H	5:F:282:LEU:HD23	1.79	0.46
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.30	0.46
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.42	0.46
1:K:78:ILE:O	1:K:82:LEU:HG	2.15	0.46
2:M:1101:THR:HB	3:N:5:VAL:HG11	1.98	0.46
2:M:1118:LYS:HD3	3:N:20:SER:O	2.14	0.46
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.97	0.46
2:M:325:ILE:HG23	8:M:1502:HOH:O	2.16	0.46
2:M:44:ILE:HG22	8:M:1223:HOH:O	2.14	0.46
2:M:621:VAL:HG22	8:M:1199:HOH:O	2.16	0.46
2:M:817:PRO:C	2:M:819:VAL:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1056:PRO:HD2	8:N:9483:HOH:O	2.14	0.46
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.79	0.46
3:N:400:VAL:HA	3:N:442:ASN:O	2.15	0.46
3:N:484:PRO:O	3:N:489:ARG:HD2	2.14	0.46
3:N:551:ASN:O	3:N:555:LYS:HG3	2.15	0.46
3:N:759:ALA:HA	3:N:763:MET:HB3	1.96	0.46
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.46	0.46
5:P:365:GLU:CD	5:P:397:ILE:HA	2.35	0.46
1:A:19:GLU:O	1:A:200:TRP:HA	2.16	0.46
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.97	0.46
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.45	0.46
2:C:780:GLU:CD	2:C:781:LYS:H	2.18	0.46
2:C:863:ASP:O	2:C:865:THR:N	2.48	0.46
2:C:987:ILE:HG22	2:C:988:VAL:O	2.15	0.46
3:D:783:ARG:HH21	3:D:1029:ARG:CZ	2.28	0.46
3:D:1085:ALA:HA	8:D:9707:HOH:O	2.14	0.46
3:D:907:GLU:OE1	3:D:908:LYS:HG2	2.14	0.46
5:F:141:VAL:O	5:F:145:PRO:HD2	2.16	0.46
5:F:218:GLN:HA	5:F:221:ILE:HD12	1.96	0.46
1:K:115:LEU:HD12	1:K:115:LEU:O	2.15	0.46
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.44	0.46
2:M:1111:ILE:HD11	8:M:1318:HOH:O	2.14	0.46
2:M:428:ARG:HE	2:M:451:LEU:HD11	1.80	0.46
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.80	0.46
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.46	0.46
3:N:828:LYS:HD2	8:N:9129:HOH:O	2.15	0.46
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.59	0.46
1:A:218:LEU:HB2	8:A:322:HOH:O	2.14	0.46
1:B:92:PRO:HA	1:B:146:ARG:NH2	2.31	0.46
1:B:19:GLU:O	1:B:200:TRP:HA	2.15	0.46
1:B:73:GLU:HB2	1:B:78:ILE:HD11	1.96	0.46
1:B:86:VAL:HG22	8:B:371:HOH:O	2.15	0.46
2:C:265:ARG:HG2	2:C:267:TYR:N	2.30	0.46
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.96	0.46
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.98	0.46
2:C:835:VAL:HG11	8:D:9008:HOH:O	2.16	0.46
3:D:1093:TYR:HA	8:D:9017:HOH:O	2.16	0.46
3:D:110:SER:HB3	8:D:9091:HOH:O	2.15	0.46
3:D:1380:GLU:HB3	3:D:1418:LYS:HB2	1.98	0.46
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.98	0.46
3:D:574:LEU:O	3:D:578:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:68:PHE:O	3:D:71:LYS:HG2	2.15	0.46
3:D:704:ARG:HD2	3:D:704:ARG:HA	1.76	0.46
4:E:41:GLU:O	4:E:45:ARG:HG2	2.15	0.46
5:F:276:ARG:HA	8:F:735:HOH:O	2.14	0.46
5:F:256:ARG:NH2	5:F:310:ILE:O	2.48	0.46
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.31	0.46
2:M:101:ILE:HG22	2:M:102:HIS:N	2.30	0.46
2:M:191:PHE:CE2	2:M:238:LEU:HD21	2.51	0.46
2:M:710:ILE:HB	2:M:790:LEU:CD1	2.38	0.46
2:M:801:VAL:HG23	8:M:1213:HOH:O	2.15	0.46
3:N:957:PRO:HA	3:N:1010:ASN:ND2	2.30	0.46
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.18	0.46
3:N:1114:THR:O	3:N:1114:THR:HG23	2.15	0.46
3:N:1156:LEU:HD12	8:N:9485:HOH:O	2.16	0.46
3:N:416:ALA:H	3:N:417:PRO:CD	2.28	0.46
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.46	0.46
2:C:310:LEU:O	2:C:314:THR:HG23	2.15	0.46
2:C:490:GLU:HG2	2:C:494:TYR:OH	2.15	0.46
2:C:647:GLN:HA	8:C:1176:HOH:O	2.16	0.46
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.45	0.46
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.46	0.46
3:D:208:PRO:CB	3:D:395:VAL:HG13	2.43	0.46
3:D:501:ALA:HA	3:D:504:ASP:HB2	1.97	0.46
3:D:84:ILE:HA	3:D:87:ARG:HG2	1.97	0.46
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.30	0.46
4:E:18:ARG:HD3	8:E:126:HOH:O	2.15	0.46
5:F:336:GLU:HB2	8:F:726:HOH:O	2.15	0.46
1:L:69:PRO:O	1:L:71:VAL:HG23	2.16	0.46
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.97	0.46
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.75	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.79	0.46
2:M:842:ARG:HD3	8:M:1636:HOH:O	2.16	0.46
2:M:875:GLY:O	2:M:879:ARG:HD3	2.15	0.46
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.96	0.46
3:N:1434:TRP:HZ3	3:N:1457:ASP:H	1.62	0.46
3:N:28:LYS:HD3	3:N:41:ARG:NH1	2.30	0.46
3:N:404:GLU:OE1	3:N:414:ARG:HD3	2.16	0.46
3:N:891:GLU:HG2	8:N:9646:HOH:O	2.15	0.46
3:N:926:LYS:HE2	8:N:9736:HOH:O	2.16	0.46
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.51	0.46
5:P:104:ARG:HG2	8:P:3629:HOH:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:215:GLU:HA	5:P:215:GLU:OE1	2.15	0.46
3:N:560:GLN:HE21	5:P:218:GLN:HE22	1.63	0.46
2:C:113:VAL:HG11	2:C:373:VAL:CB	2.46	0.46
2:C:73:LEU:HD22	2:C:94:LEU:HD22	1.97	0.46
3:D:1114:THR:HG22	3:D:1195:GLN:HB3	1.97	0.46
3:D:1272:ALA:HB2	8:D:9364:HOH:O	2.16	0.46
3:D:1382:THR:HG22	8:D:9579:HOH:O	2.16	0.46
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.46	0.46
1:K:23:PHE:O	1:K:196:THR:HA	2.15	0.46
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.97	0.46
2:M:688:ILE:CD1	2:M:847:GLY:HA3	2.45	0.46
3:N:1342:GLU:HG2	8:N:9105:HOH:O	2.15	0.46
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	1.98	0.46
3:N:508:ARG:HB3	3:N:510:GLU:OE2	2.16	0.46
3:N:516:ALA:O	3:N:518:PRO:HD3	2.16	0.46
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.79	0.46
3:N:608:SER:O	3:N:612:GLY:HA3	2.16	0.46
2:M:1091:GLU:OE2	3:N:613:ARG:HD2	2.15	0.46
3:N:646:LYS:HA	3:N:720:LEU:HD23	1.97	0.46
3:N:809:PRO:O	3:N:812:ALA:HB3	2.16	0.46
3:N:820:GLU:HA	3:N:825:ALA:O	2.16	0.46
2:M:1090:LYS:HZ1	3:N:90:MET:HG2	1.79	0.46
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.96	0.46
2:C:1054:THR:HG22	2:C:1059:ASP:CG	2.36	0.46
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.98	0.46
2:C:328:LEU:CD2	2:C:437:ARG:HD3	2.46	0.46
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.15	0.46
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	1.98	0.46
3:D:829:VAL:H	3:D:835:SER:HB2	1.81	0.46
4:E:69:LEU:HD21	8:E:181:HOH:O	2.15	0.46
2:C:376:ARG:NH2	5:F:285:GLU:HB3	2.21	0.46
5:F:375:LEU:HG	5:F:376:ILE:HG13	1.97	0.46
1:K:175:ARG:HH21	1:K:201:THR:H	1.62	0.46
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.98	0.46
1:L:138:LEU:O	1:L:138:LEU:HD23	2.16	0.46
1:L:26:GLU:HB2	1:L:27:PRO:HA	1.98	0.46
2:M:1033:GLY:O	2:M:1036:GLU:HB2	2.15	0.46
2:M:1040:LEU:HD23	2:M:1049:LEU:HA	1.98	0.46
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.46
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.45	0.46
2:M:253:ALA:HB3	8:M:1251:HOH:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1378:TYR:CD1	3:N:1378:TYR:N	2.84	0.46
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.98	0.46
3:N:470:LEU:HD12	3:N:503:LEU:CG	2.43	0.46
3:N:530:VAL:HB	3:N:531:ASP:H	1.56	0.46
3:N:586:ARG:HA	8:N:2001:HOH:O	2.15	0.46
3:N:671:LYS:N	8:N:9139:HOH:O	2.48	0.46
3:N:819:GLY:O	3:N:822:ALA:HB3	2.16	0.46
3:N:81:THR:O	3:N:82:LYS:C	2.54	0.46
5:P:292:ALA:HB1	5:P:299:TRP:O	2.16	0.46
5:P:319:THR:HB	5:P:321:ILE:HD11	1.96	0.46
1:A:181:VAL:O	2:C:937:ASP:HA	2.16	0.46
1:B:81:ASN:HB2	8:B:366:HOH:O	2.16	0.46
2:C:194:VAL:HG21	2:C:221:LEU:HA	1.98	0.46
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.46	0.46
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.97	0.46
3:D:116:LEU:HB3	3:D:118:LEU:CD2	2.46	0.46
3:D:126:VAL:O	3:D:132:TYR:CD1	2.68	0.46
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.51	0.46
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.29	0.46
3:D:684:LYS:HD3	3:D:686:GLU:CD	2.35	0.46
2:C:1039:ALA:HB2	3:D:707:THR:HG21	1.98	0.46
5:F:273:ARG:O	5:F:276:ARG:HB2	2.16	0.46
2:M:157:ARG:HH11	2:M:157:ARG:HG2	1.80	0.46
2:M:146:VAL:HG13	2:M:161:SER:O	2.16	0.46
2:M:145:GLY:C	2:M:163:ILE:HG23	2.36	0.46
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.97	0.46
3:N:1115:THR:HB	8:N:9719:HOH:O	2.15	0.46
3:N:1137:ARG:O	3:N:1140:ILE:N	2.49	0.46
3:N:1209:LEU:HD22	3:N:1211:MET:SD	2.55	0.46
3:N:1269:LYS:HE3	8:N:9213:HOH:O	2.16	0.46
3:N:1441:GLN:NE2	3:N:1442:ASN:H	2.14	0.46
3:N:159:ARG:HB2	3:N:159:ARG:CZ	2.46	0.46
3:N:521:PRO:O	3:N:525:ARG:HG2	2.14	0.46
3:N:805:GLU:HB2	8:N:9612:HOH:O	2.16	0.46
3:N:813:LEU:HA	3:N:839:LEU:HD11	1.97	0.46
3:N:850:LEU:O	3:N:853:VAL:HB	2.15	0.46
4:O:11:GLY:HA3	8:O:3878:HOH:O	2.15	0.46
5:P:274:THR:O	5:P:278:LEU:HG	2.15	0.46
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.98	0.46
2:C:47:ALA:CB	2:C:345:ARG:HB3	2.33	0.46
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.36	0.46
2:C:702:SER:OG	2:C:996:LYS:NZ	2.49	0.46
2:C:873:PRO:O	2:C:876:VAL:HG23	2.16	0.46
2:C:975:TYR:HA	2:C:982:PRO:HA	1.98	0.46
3:D:1337:GLU:HB3	8:D:9228:HOH:O	2.16	0.46
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.80	0.46
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.46	0.46
3:D:592:THR:HA	8:D:9540:HOH:O	2.16	0.46
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.98	0.46
3:D:863:VAL:HA	8:D:2082:HOH:O	2.16	0.46
2:M:408:ARG:CZ	2:M:542:VAL:HG23	2.46	0.46
2:M:423:ALA:HB1	8:M:1764:HOH:O	2.16	0.46
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.80	0.46
2:M:602:GLU:HG2	2:M:603:VAL:N	2.31	0.46
2:M:685:GLU:CG	3:N:739:ASP:HB2	2.46	0.46
2:M:861:LEU:HD23	2:M:862:PRO:CD	2.37	0.46
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.43	0.46
3:N:1114:THR:HA	8:N:9054:HOH:O	2.14	0.46
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.67	0.46
3:N:600:LEU:HD12	3:N:600:LEU:H	1.81	0.46
3:N:860:LEU:HD22	3:N:878:GLY:CA	2.46	0.46
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.96	0.46
5:P:302:LYS:HG3	5:P:303:ARG:N	2.31	0.46
1:A:219:ARG:HH12	1:B:223:THR:HG23	1.81	0.46
1:B:85:LEU:CD1	1:B:124:ASN:HB3	2.42	0.46
1:A:219:ARG:HH22	1:B:223:THR:HG23	1.80	0.46
1:B:74:ASP:O	1:B:78:ILE:HG13	2.16	0.46
2:C:1103:ASP:N	2:C:1107:ASN:O	2.49	0.46
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.15	0.46
2:C:352:ALA:O	2:C:355:VAL:HG12	2.16	0.46
2:C:473:ARG:NE	2:C:531:PHE:HE1	2.09	0.46
2:C:546:LEU:HD21	2:C:587:VAL:HG21	1.97	0.46
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.98	0.46
2:C:904:PRO:HB2	2:C:907:ASP:OD2	2.16	0.46
3:D:1135:ARG:NH2	8:D:9592:HOH:O	2.49	0.46
3:D:1164:ARG:HA	8:D:9221:HOH:O	2.15	0.46
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.97	0.46
3:D:1327:ARG:HG2	8:D:9891:HOH:O	2.16	0.46
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.40	0.46
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.98	0.46
3:D:210:ARG:NE	3:D:398:ALA:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:400:VAL:HG23	8:D:9178:HOH:O	2.15	0.46
3:D:421:LEU:HD23	3:D:421:LEU:O	2.15	0.46
3:D:543:LEU:HD21	3:D:600:LEU:HB2	1.97	0.46
1:L:43:ILE:HD13	8:L:3139:HOH:O	2.16	0.46
2:M:1100:GLN:HG3	2:M:1101:THR:O	2.16	0.46
2:M:121:MET:HE3	2:M:127:PHE:CE2	2.51	0.46
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.98	0.46
2:M:420:ARG:CD	2:M:420:ARG:H	2.29	0.46
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.97	0.46
3:N:1341:PRO:O	3:N:1344:VAL:N	2.48	0.46
3:N:500:ARG:HD2	8:N:9705:HOH:O	2.15	0.46
3:N:529:GLN:HG2	3:N:535:PHE:CE2	2.48	0.46
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.31	0.46
3:N:844:ALA:HB3	3:N:848:GLU:OE2	2.16	0.46
3:N:976:GLN:HA	3:N:979:GLU:OE1	2.15	0.46
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.15	0.46
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.98	0.46
1:B:149:GLY:O	1:B:171:PHE:HB2	2.16	0.45
2:C:101:ILE:HG22	2:C:102:HIS:N	2.31	0.45
2:C:338:GLU:O	2:C:341:THR:HG22	2.16	0.45
2:C:694:LEU:HD21	2:C:868:ASP:HB3	1.98	0.45
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.98	0.45
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.16	0.45
3:D:1397:LYS:HB3	8:D:9838:HOH:O	2.15	0.45
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.46	0.45
3:D:441:ARG:O	3:D:443:VAL:N	2.49	0.45
3:D:585:GLY:HA3	8:D:9104:HOH:O	2.16	0.45
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.97	0.45
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.98	0.45
5:F:117:SER:N	5:F:127:ILE:HD12	2.31	0.45
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.16	0.45
5:F:340:SER:O	5:F:342:VAL:N	2.49	0.45
1:K:224:TYR:HB3	1:L:9:PRO:CB	2.42	0.45
2:M:1050:GLN:NE2	8:M:1526:HOH:O	2.48	0.45
2:M:1059:ASP:CG	2:M:1062:GLY:HA3	2.37	0.45
2:M:114:PHE:HE1	8:P:4072:HOH:O	1.99	0.45
2:M:157:ARG:HG2	2:M:157:ARG:NH1	2.32	0.45
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.30	0.45
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.97	0.45
2:M:232:GLU:O	2:M:235:LEU:HB2	2.16	0.45
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:704:HIS:CD2	2:M:705:ILE:H	2.33	0.45
3:N:411:THR:HG23	3:N:429:SER:OG	2.16	0.45
3:N:527:MET:CE	3:N:537:THR:HB	2.45	0.45
3:N:567:ILE:HG13	3:N:567:ILE:H	1.51	0.45
3:N:130:SER:C	3:N:568:ARG:HH21	2.20	0.45
3:N:729:HIS:HB3	3:N:732:VAL:HG22	1.98	0.45
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.98	0.45
2:M:770:GLU:OE1	5:P:354:LEU:HD13	2.17	0.45
5:P:89:GLY:HA2	8:P:4492:HOH:O	2.15	0.45
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.98	0.45
2:C:1016:ILE:CD1	3:D:526:PRO:HG2	2.46	0.45
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.30	0.45
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.16	0.45
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.98	0.45
2:C:598:GLU:HG3	8:C:1515:HOH:O	2.15	0.45
2:C:794:PRO:HD3	8:C:1635:HOH:O	2.15	0.45
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.57	0.45
3:D:1377:LYS:O	3:D:1395:LEU:N	2.47	0.45
3:D:1494:ALA:HB3	8:D:9315:HOH:O	2.16	0.45
3:D:455:ARG:HH11	3:D:455:ARG:HG2	1.81	0.45
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.51	0.45
3:D:890:VAL:HG13	3:D:926:LYS:HD3	1.98	0.45
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.45	0.45
5:F:302:LYS:HG3	5:F:303:ARG:N	2.31	0.45
5:F:373:LYS:HD3	5:F:378:GLY:C	2.36	0.45
1:L:188:GLN:HA	8:N:9218:HOH:O	2.17	0.45
2:M:1078:GLU:HA	2:M:1078:GLU:OE1	2.17	0.45
2:M:56:GLU:HG2	2:M:64:LEU:HD23	1.97	0.45
2:M:778:PHE:HA	8:M:1278:HOH:O	2.16	0.45
2:M:998:TYR:OH	2:M:1000:MET:HA	2.16	0.45
2:M:435:TYR:HA	3:N:1071:PHE:HE2	1.81	0.45
3:N:1151:ARG:HA	3:N:1162:GLU:HG3	1.99	0.45
3:N:814:ALA:HA	8:N:9843:HOH:O	2.15	0.45
1:A:20:TYR:HB3	8:A:358:HOH:O	2.16	0.45
1:A:26:GLU:HG2	1:A:27:PRO:CA	2.46	0.45
1:B:50:GLY:O	1:B:146:ARG:HA	2.16	0.45
2:C:1015:LEU:HD12	8:C:1202:HOH:O	2.17	0.45
2:C:1105:LYS:O	2:C:1107:ASN:N	2.49	0.45
2:C:144:PRO:O	2:C:276:LYS:HD3	2.16	0.45
2:C:148:PHE:HD2	2:C:160:ALA:HA	1.80	0.45
2:C:207:LEU:O	2:C:211:LEU:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:218:VAL:HB	8:C:1237:HOH:O	2.17	0.45
2:C:254:VAL:HA	2:C:257:VAL:HG23	1.96	0.45
2:C:289:THR:HG22	2:C:290:LEU:H	1.81	0.45
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.51	0.45
2:C:479:VAL:HG23	2:C:506:ASN:C	2.37	0.45
2:C:456:ALA:HB1	2:C:538:GLN:O	2.16	0.45
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.17	0.45
2:C:683:ASN:N	2:C:683:ASN:OD1	2.49	0.45
2:C:837:ASP:O	2:C:849:VAL:HG23	2.16	0.45
2:C:881:ASN:N	2:C:881:ASN:ND2	2.64	0.45
2:C:897:LEU:CD1	2:C:921:ALA:HA	2.46	0.45
3:D:1331:ASP:OD1	3:D:1334:GLN:HG3	2.16	0.45
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.15	0.45
3:D:170:PRO:HG3	8:D:9430:HOH:O	2.16	0.45
3:D:400:VAL:HA	3:D:442:ASN:O	2.17	0.45
3:D:770:LEU:HB2	3:D:1210:SER:O	2.17	0.45
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.46	0.45
5:F:253:ASP:O	5:F:259:ARG:HD2	2.17	0.45
1:K:2:LEU:O	1:K:6:LEU:HB3	2.16	0.45
1:L:62:LEU:HD22	1:L:63:HIS:CE1	2.52	0.45
2:M:17:PRO:O	2:M:20:GLU:HB3	2.16	0.45
2:M:254:VAL:HA	2:M:257:VAL:HG23	1.98	0.45
2:M:69:LEU:HD21	2:M:99:GLN:NE2	2.31	0.45
2:M:737:LEU:HD21	2:M:741:GLY:O	2.16	0.45
2:M:838:LYS:HG2	8:M:1507:HOH:O	2.16	0.45
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.56	0.45
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.20	0.45
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.97	0.45
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.98	0.45
3:N:396:VAL:HG13	3:N:446:VAL:O	2.16	0.45
3:N:480:GLU:OE2	3:N:484:PRO:HG2	2.17	0.45
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.96	0.45
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.15	0.45
3:N:820:GLU:HG2	3:N:825:ALA:O	2.17	0.45
3:N:875:THR:HG23	3:N:879:ARG:NE	2.32	0.45
3:N:950:GLY:O	3:N:951:ILE:C	2.54	0.45
5:P:148:LYS:HB2	8:P:4930:HOH:O	2.16	0.45
5:P:308:LEU:O	5:P:312:GLN:HG3	2.15	0.45
5:P:336:GLU:HA	8:P:2842:HOH:O	2.16	0.45
1:A:26:GLU:HG3	1:A:184:THR:HG21	1.99	0.45
1:A:33:GLY:HA2	1:A:195:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:ARG:HB2	8:B:337:HOH:O	2.16	0.45
1:B:14:ARG:HA	8:B:324:HOH:O	2.14	0.45
1:B:64:GLU:HG3	1:B:79:ILE:HD13	1.97	0.45
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.51	0.45
2:C:16:PRO:O	2:C:18:LEU:HD12	2.16	0.45
2:C:19:THR:HG22	2:C:19:THR:O	2.16	0.45
2:C:399:ASN:ND2	2:C:402:SER:HB2	2.31	0.45
2:C:535:SER:H	2:C:538:GLN:HE21	1.64	0.45
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.99	0.45
2:C:668:LEU:HD12	2:C:668:LEU:N	2.32	0.45
2:C:826:TYR:HB3	8:C:1718:HOH:O	2.15	0.45
2:C:911:GLU:O	2:C:915:LYS:HG2	2.17	0.45
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.17	0.45
3:D:1339:LYS:HE3	8:D:2030:HOH:O	2.14	0.45
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.46	0.45
3:D:1264:GLU:CD	3:D:1425:THR:H	2.20	0.45
3:D:1440:PHE:HD1	3:D:1441:GLN:H	1.64	0.45
3:D:473:LEU:HD21	3:D:495:ARG:NE	2.30	0.45
3:D:581:LEU:CD1	3:D:603:LEU:HD12	2.46	0.45
3:D:704:ARG:NH1	3:D:737:ASN:O	2.50	0.45
3:D:792:ILE:O	3:D:878:GLY:HA3	2.16	0.45
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.99	0.45
3:D:900:ILE:CD1	3:D:902:LEU:HG	2.47	0.45
4:E:61:GLU:OE2	4:E:62:THR:N	2.50	0.45
5:F:358:LEU:HD12	5:F:367:MET:HE1	1.98	0.45
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.40	0.45
1:L:110:LYS:HE3	8:L:3562:HOH:O	2.15	0.45
2:M:217:LEU:HD12	2:M:311:PHE:HD2	1.81	0.45
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.47	0.45
3:N:1075:HIS:HB3	8:N:9012:HOH:O	2.16	0.45
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.17	0.45
3:N:119:SER:CB	3:N:123:LEU:HB2	2.39	0.45
2:M:874:LEU:HD12	3:N:783:ARG:HB2	1.97	0.45
3:N:950:GLY:C	3:N:953:ASP:H	2.20	0.45
3:N:992:ILE:O	3:N:995:LEU:HB3	2.15	0.45
4:O:78:ASN:HB2	8:O:4376:HOH:O	2.16	0.45
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.81	0.45
1:A:18:ARG:NH1	1:A:88:ARG:HE	2.14	0.45
1:B:194:LYS:HZ2	1:B:194:LYS:HB2	1.82	0.45
2:C:352:ALA:C	2:C:355:VAL:HG12	2.37	0.45
2:C:460:ARG:HG2	8:C:1486:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:657:ASP:HB3	8:C:1152:HOH:O	2.17	0.45
2:C:670:GLN:HE22	2:C:699:PHE:C	2.20	0.45
2:C:94:LEU:HD12	2:C:95:TYR:N	2.32	0.45
2:C:957:LYS:HE2	2:C:965:GLU:OE2	2.16	0.45
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.97	0.45
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.99	0.45
3:D:1337:GLU:HG3	8:D:2052:HOH:O	2.16	0.45
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.52	0.45
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.36	0.45
3:D:145:VAL:HG21	8:D:9724:HOH:O	2.16	0.45
3:D:178:LEU:CG	3:D:200:ASP:H	2.26	0.45
3:D:41:ARG:CD	3:D:42:ASP:H	2.23	0.45
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.80	0.45
3:D:583:ASP:HA	3:D:602:SER:OG	2.16	0.45
3:D:6:ARG:HH11	3:D:6:ARG:CB	2.30	0.45
3:D:717:GLN:HB2	3:D:717:GLN:HE21	1.51	0.45
3:D:850:LEU:HB2	8:D:9338:HOH:O	2.16	0.45
3:D:890:VAL:HG21	3:D:922:LEU:CD1	2.47	0.45
3:D:972:LEU:O	3:D:976:GLN:HG3	2.17	0.45
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.31	0.45
5:F:197:SER:HA	8:F:484:HOH:O	2.14	0.45
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.52	0.45
1:L:123:MET:HG2	8:L:3100:HOH:O	2.15	0.45
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.99	0.45
2:M:157:ARG:CD	2:M:158:TYR:H	2.28	0.45
2:M:244:PRO:HD2	2:M:245:GLY:N	2.25	0.45
2:M:669:GLY:HA3	2:M:995:MET:HA	1.98	0.45
3:N:123:LEU:HA	8:N:9192:HOH:O	2.16	0.45
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.37	0.45
3:N:1465:ASN:HD22	3:N:1465:ASN:HA	1.53	0.45
3:N:569:ASN:HA	3:N:572:ARG:HD2	1.98	0.45
3:N:800:LYS:HD3	3:N:804:LEU:HD22	1.98	0.45
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.47	0.45
1:B:156:HIS:CE1	1:B:158:ILE:H	2.35	0.45
2:C:549:PHE:HE2	2:C:887:GLU:N	2.15	0.45
2:C:622:GLU:OE1	2:C:624:PRO:HG3	2.17	0.45
8:A:413:HOH:O	2:C:642:ARG:HA	2.17	0.45
2:C:817:PRO:C	2:C:819:VAL:H	2.20	0.45
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.98	0.45
2:C:948:GLU:HG3	2:C:949:LYS:N	2.31	0.45
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1233:GLY:O	3:D:1256:LEU:HD13	2.16	0.45
3:D:1291:SER:HB3	8:D:9240:HOH:O	2.15	0.45
3:D:36:THR:O	3:D:38:LYS:N	2.50	0.45
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.46	0.45
3:D:859:ASP:N	3:D:859:ASP:OD2	2.48	0.45
3:D:86:ARG:NH1	3:D:86:ARG:HG2	2.31	0.45
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.45	0.45
1:K:57:TYR:CZ	1:K:161:ARG:HD2	2.52	0.45
1:K:183:ASP:HB2	8:K:4658:HOH:O	2.16	0.45
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.52	0.45
1:L:81:ASN:ND2	1:L:127:LEU:HD11	2.30	0.45
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.46	0.45
2:M:571:LEU:HD12	2:M:701:THR:N	2.32	0.45
2:M:863:ASP:OD1	2:M:865:THR:HG22	2.16	0.45
3:N:1128:VAL:O	3:N:1129:THR:C	2.55	0.45
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.46	0.45
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.47	0.45
3:N:728:LEU:HD22	3:N:745:MET:CE	2.47	0.45
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.97	0.45
5:P:272:SER:O	5:P:276:ARG:HG2	2.16	0.45
1:A:103:ALA:HB1	1:A:107:LYS:NZ	2.32	0.45
1:B:24:VAL:HG13	1:B:196:THR:CG2	2.37	0.45
2:C:794:PRO:HD2	8:C:1228:HOH:O	2.16	0.45
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.47	0.45
3:D:1504:GLU:HB3	8:D:9773:HOH:O	2.15	0.45
3:D:27:GLU:HG3	3:D:28:LYS:HD2	1.98	0.45
3:D:396:VAL:HG22	8:D:9882:HOH:O	2.17	0.45
3:D:503:LEU:HG	3:D:508:ARG:NH2	2.32	0.45
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.98	0.45
4:E:41:GLU:HG3	8:E:170:HOH:O	2.15	0.45
5:F:217:ASN:O	5:F:221:ILE:HG13	2.17	0.45
2:M:144:PRO:HB3	8:M:1235:HOH:O	2.16	0.45
2:M:290:LEU:HD12	8:M:1503:HOH:O	2.17	0.45
2:M:73:LEU:HD12	2:M:73:LEU:O	2.17	0.45
2:M:86:LYS:HG2	2:M:813:VAL:HG12	1.99	0.45
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.99	0.45
3:N:1127:GLU:HB2	8:N:9303:HOH:O	2.17	0.45
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.17	0.45
3:N:1175:ILE:HG22	3:N:1179:GLU:OE1	2.16	0.45
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.46	0.45
3:N:13:ALA:HA	3:N:17:LYS:NZ	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.98	0.45
3:N:491:LYS:HG3	8:N:9735:HOH:O	2.17	0.45
3:N:866:VAL:HG12	3:N:867:ARG:N	2.32	0.45
3:N:892:ASP:HB3	3:N:895:VAL:HG23	1.99	0.45
5:P:153:PRO:O	5:P:157:GLU:HG2	2.16	0.45
1:A:184:THR:HB	1:A:194:LYS:HD2	1.98	0.45
1:A:20:TYR:CE2	1:A:22:GLU:HG3	2.51	0.45
1:A:227:ASN:H	1:A:227:ASN:ND2	2.14	0.45
1:B:20:TYR:HB3	8:B:319:HOH:O	2.15	0.45
2:C:265:ARG:HD2	8:C:1452:HOH:O	2.17	0.45
2:C:304:LEU:HG	2:C:305:PRO:N	2.31	0.45
2:C:39:ARG:HA	2:C:39:ARG:NE	2.30	0.45
2:C:874:LEU:HB3	3:D:1029:ARG:HD2	1.98	0.45
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	2.31	0.45
3:D:1342:GLU:O	3:D:1346:ARG:HB2	2.17	0.45
3:D:164:GLY:HA2	8:D:9127:HOH:O	2.16	0.45
3:D:462:GLN:NE2	3:D:513:ILE:HB	2.32	0.45
2:C:1056:LYS:HE2	3:D:625:TYR:HB2	1.98	0.45
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.70	0.45
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.99	0.45
3:D:985:ASP:O	3:D:988:ARG:HD2	2.16	0.45
1:K:40:LEU:O	1:K:44:LEU:HD12	2.17	0.45
1:K:74:ASP:O	1:K:78:ILE:HG13	2.17	0.45
1:L:128:HIS:CE1	1:L:131:THR:HG23	2.52	0.45
1:L:194:LYS:HG2	8:L:4937:HOH:O	2.17	0.45
2:M:503:LEU:HD12	2:M:505:GLY:O	2.17	0.45
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.16	0.45
2:M:922:PHE:HD2	2:M:964:LYS:HD3	1.82	0.45
3:N:1136:LYS:HE3	3:N:1139:ASP:OD2	2.16	0.45
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.81	0.45
3:N:119:SER:CB	3:N:123:LEU:HD13	2.46	0.45
3:N:1238:MET:HG2	3:N:1256:LEU:HD23	1.98	0.45
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.98	0.45
3:N:703:ASN:ND2	3:N:704:ARG:H	2.15	0.45
4:O:9:LEU:CD2	4:O:69:LEU:HG	2.47	0.45
1:A:102:LYS:HE2	1:A:139:ASN:CG	2.37	0.45
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.47	0.45
1:B:28:LEU:HB2	1:B:193:ASP:HB2	1.99	0.45
2:C:1006:HIS:N	2:C:1006:HIS:HD1	2.14	0.45
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.17	0.45
2:C:112:GLU:HA	8:C:1822:HOH:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.16	0.45
2:C:217:LEU:HD23	8:C:1241:HOH:O	2.17	0.45
2:C:333:ILE:O	2:C:465:GLY:HA3	2.17	0.45
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.42	0.45
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.47	0.45
2:C:5:ARG:HG2	2:C:5:ARG:HH11	1.82	0.45
2:C:98:LEU:HD11	8:C:1822:HOH:O	2.17	0.45
3:D:1086:LEU:HD22	8:D:9242:HOH:O	2.16	0.45
3:D:198:ARG:HG3	8:D:9736:HOH:O	2.16	0.45
3:D:22:SER:OG	3:D:91:GLY:HA2	2.17	0.45
3:D:639:LEU:N	3:D:729:HIS:CD2	2.84	0.45
3:D:704:ARG:HB2	3:D:736:PHE:CD2	2.52	0.45
3:D:848:GLU:HA	3:D:851:LEU:CD1	2.46	0.45
5:F:364:ARG:O	5:F:368:VAL:HG23	2.17	0.45
1:K:161:ARG:HB2	1:K:161:ARG:NH1	2.32	0.45
2:M:164:PRO:HA	8:M:1235:HOH:O	2.17	0.45
2:M:210:GLU:HG3	8:M:1787:HOH:O	2.17	0.45
2:M:620:LEU:N	2:M:620:LEU:HD13	2.32	0.45
3:N:1320:GLU:HG3	8:N:9381:HOH:O	2.16	0.45
3:N:9:ARG:HA	3:N:1455:LYS:O	2.16	0.45
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.81	0.45
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.99	0.45
3:N:456:MET:HG2	3:N:456:MET:O	2.16	0.45
3:N:52:PRO:HD2	3:N:79:GLU:O	2.16	0.45
3:N:640:HIS:NE2	3:N:717:GLN:OE1	2.48	0.45
3:N:645:PRO:HB3	3:N:723:GLY:O	2.17	0.45
3:N:704:ARG:CZ	3:N:737:ASN:O	2.65	0.45
3:N:872:ARG:NH2	8:N:9086:HOH:O	2.50	0.45
1:B:23:PHE:O	1:B:196:THR:HA	2.17	0.45
2:C:1083:GLU:OE1	2:C:1083:GLU:HA	2.17	0.45
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.32	0.45
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.99	0.45
2:C:535:SER:O	2:C:538:GLN:HG2	2.16	0.45
2:C:718:GLY:HA3	2:C:761:PHE:CZ	2.52	0.45
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.99	0.45
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.99	0.45
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.99	0.45
2:C:952:LEU:HB3	2:C:966:LEU:CD1	2.47	0.45
3:D:1495:ILE:HG12	4:E:80:VAL:CG1	2.46	0.45
3:D:495:ARG:O	3:D:499:VAL:HG23	2.17	0.45
3:D:90:MET:HE3	3:D:519:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:768:ASN:N	3:D:768:ASN:HD22	2.13	0.45
8:D:9004:HOH:O	5:F:132:ARG:NH1	2.49	0.45
5:F:209:PHE:HE2	5:F:213:ILE:HD11	1.81	0.45
2:C:729:LEU:HD21	5:F:421:PHE:HD1	1.82	0.45
1:L:22:GLU:OE2	1:L:198:ARG:HG2	2.17	0.45
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.32	0.45
2:M:366:SER:HB2	8:M:1234:HOH:O	2.17	0.45
2:M:437:ARG:HG2	2:M:467:ILE:HG22	1.98	0.45
2:M:498:GLN:O	2:M:532:MET:SD	2.75	0.45
2:M:15:LEU:CD2	2:M:583:LEU:HD21	2.47	0.45
2:M:679:PHE:HD2	2:M:682:TYR:HD2	1.65	0.45
3:N:1087:ARG:NH1	3:N:1234:THR:O	2.50	0.45
3:N:130:SER:HB3	3:N:132:TYR:HE1	1.80	0.45
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.47	0.45
3:N:1455:LYS:HE3	8:N:9604:HOH:O	2.17	0.45
3:N:402:PRO:HG2	3:N:444:VAL:CG1	2.47	0.45
3:N:634:GLY:O	3:N:637:LEU:HB3	2.17	0.45
3:N:778:LEU:HD12	3:N:778:LEU:HA	1.78	0.45
3:N:806:PHE:CG	3:N:806:PHE:O	2.70	0.45
4:O:7:ASP:HB2	8:O:3467:HOH:O	2.16	0.45
4:O:85:LEU:HD23	4:O:86:GLN:N	2.32	0.45
5:P:132:ARG:HD3	5:P:181:GLU:CD	2.37	0.45
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.98	0.45
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.98	0.45
1:B:106:PRO:HB2	8:B:403:HOH:O	2.17	0.44
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.98	0.44
2:C:405:ARG:HD2	2:C:442:GLU:OE1	2.17	0.44
2:C:499:ALA:HB1	8:C:1368:HOH:O	2.18	0.44
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.41	0.44
2:C:693:GLU:OE2	2:C:855:VAL:HG21	2.16	0.44
2:C:737:LEU:HD12	2:C:754:ILE:HB	1.98	0.44
2:C:884:GLN:HG3	2:C:885:ILE:HD13	1.98	0.44
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.82	0.44
3:D:1320:GLU:CB	3:D:1323:GLN:HE21	2.30	0.44
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.99	0.44
3:D:10:ILE:HD13	3:D:1447:LEU:HG	1.99	0.44
3:D:630:VAL:O	3:D:726:ILE:HG13	2.16	0.44
3:D:756:GLN:NE2	3:D:760:ARG:HD2	2.32	0.44
3:D:795:VAL:CG1	3:D:863:VAL:HG13	2.44	0.44
1:K:19:GLU:O	1:K:200:TRP:HA	2.16	0.44
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1013:TYR:CD1	2:M:1020:PRO:HA	2.52	0.44
2:M:1037:VAL:HG12	2:M:1041:GLU:OE1	2.17	0.44
2:M:1040:LEU:HD23	2:M:1049:LEU:CA	2.47	0.44
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.16	0.44
2:M:333:ILE:N	2:M:333:ILE:HD12	2.32	0.44
2:M:332:ARG:HG3	2:M:333:ILE:N	2.33	0.44
2:M:139:GLN:HB3	2:M:334:ARG:HD3	1.99	0.44
2:M:34:VAL:CB	2:M:38:LYS:HG3	2.47	0.44
2:M:134:ARG:HD3	2:M:393:GLN:O	2.17	0.44
2:M:429:ASP:HB3	8:M:1324:HOH:O	2.17	0.44
2:M:559:LEU:HD23	2:M:560:MET:N	2.33	0.44
3:N:1197:ARG:HD2	3:N:1198:TYR:CD1	2.52	0.44
3:N:1249:ALA:HB2	8:N:9831:HOH:O	2.16	0.44
3:N:1280:VAL:HG12	3:N:1281:VAL:N	2.32	0.44
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.16	0.44
3:N:400:VAL:C	3:N:402:PRO:HD3	2.38	0.44
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.52	0.44
3:N:799:LYS:N	3:N:826:PRO:HG2	2.31	0.44
5:P:144:ILE:HG23	8:P:4865:HOH:O	2.17	0.44
5:P:141:VAL:O	5:P:145:PRO:HD2	2.15	0.44
5:P:217:ASN:O	5:P:221:ILE:HG13	2.18	0.44
1:B:173:PRO:HA	1:B:202:ASP:OD2	2.17	0.44
2:C:162:ILE:HB	2:C:172:ILE:CD1	2.47	0.44
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.99	0.44
2:C:515:ALA:C	2:C:516:ARG:HG2	2.38	0.44
2:C:71:TYR:HD2	8:C:1554:HOH:O	1.99	0.44
3:D:112:ILE:O	3:D:112:ILE:HD12	2.18	0.44
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.47	0.44
3:D:1211:MET:CG	3:D:1213:ARG:HG2	2.47	0.44
3:D:1211:MET:HG2	3:D:1213:ARG:HG2	1.99	0.44
3:D:574:LEU:O	3:D:577:ALA:HB3	2.16	0.44
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.18	0.44
3:D:806:PHE:O	3:D:807:ALA:C	2.55	0.44
5:F:302:LYS:O	5:F:306:GLU:HB2	2.17	0.44
2:M:139:GLN:CG	2:M:140:ILE:N	2.80	0.44
2:M:329:GLY:N	2:M:488:ALA:HB3	2.33	0.44
2:M:873:PRO:HB3	3:N:949:ILE:HG12	1.98	0.44
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.32	0.44
3:N:951:ILE:HG23	3:N:1062:ARG:NH2	2.32	0.44
3:N:423:ASP:HB3	5:P:175:HIS:HA	1.99	0.44
3:N:500:ARG:HH12	3:N:1388:ARG:NH1	1.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.53	0.44
3:N:891:GLU:HA	3:N:891:GLU:OE1	2.17	0.44
5:P:369:LEU:O	5:P:373:LYS:HB2	2.17	0.44
2:C:1067:TYR:HE2	5:F:345:ALA:HB2	1.82	0.44
2:C:305:PRO:HG2	8:C:1135:HOH:O	2.16	0.44
2:C:338:GLU:CA	2:C:341:THR:HG22	2.46	0.44
2:C:436:GLY:O	2:C:459:ALA:HB2	2.18	0.44
2:C:630:ARG:NH2	2:C:706:GLU:C	2.71	0.44
2:C:79:PRO:HG2	2:C:82:GLU:HB2	2.00	0.44
2:C:841:ASN:ND2	2:C:844:GLY:H	2.15	0.44
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.21	0.44
3:D:1328:GLY:HA2	8:D:9891:HOH:O	2.16	0.44
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.17	0.44
3:D:209:ARG:HB2	3:D:395:VAL:O	2.17	0.44
3:D:658:LEU:O	3:D:661:MET:HB2	2.17	0.44
3:D:62:LYS:HB2	3:D:73:CYS:SG	2.57	0.44
3:D:978:TYR:HE1	3:D:985:ASP:HA	1.82	0.44
5:F:93:LEU:HD11	5:F:187:LEU:HG	2.00	0.44
5:F:335:ASP:CG	5:F:338:LEU:HB2	2.37	0.44
1:L:55:SER:OG	1:L:158:ILE:HB	2.18	0.44
2:M:469:THR:HG23	2:M:470:PRO:HD2	1.99	0.44
2:M:713:ARG:HG3	2:M:713:ARG:HH11	1.82	0.44
2:M:561:GLY:HA3	2:M:842:ARG:O	2.18	0.44
3:N:1031:ASN:OD1	3:N:1033:GLN:N	2.50	0.44
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.25	0.44
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.18	0.44
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.98	0.44
3:N:465:LEU:HD22	3:N:509:PRO:O	2.17	0.44
3:N:893:GLU:O	3:N:896:ALA:HB3	2.17	0.44
3:N:899:LEU:CD1	3:N:900:ILE:HG23	2.45	0.44
4:O:16:LYS:HD3	4:O:17:TYR:CE2	2.46	0.44
5:P:256:ARG:HD2	8:P:3047:HOH:O	2.17	0.44
5:P:317:LEU:O	5:P:329:TYR:HB3	2.16	0.44
1:A:112:ARG:HD3	8:A:442:HOH:O	2.16	0.44
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.98	0.44
2:C:1002:GLU:HB2	3:D:628:ARG:HH12	1.82	0.44
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.29	0.44
2:C:884:GLN:CG	2:C:885:ILE:N	2.80	0.44
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.83	0.44
3:D:1350:GLU:HG3	3:D:1354:LYS:CE	2.43	0.44
3:D:477:LEU:HD23	8:D:9254:HOH:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:581:LEU:HD12	3:D:603:LEU:HD12	2.00	0.44
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.99	0.44
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.31	0.44
2:M:534:VAL:N	2:M:538:GLN:NE2	2.63	0.44
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.47	0.44
2:M:832:LYS:O	2:M:833:LEU:C	2.55	0.44
2:M:975:TYR:HE2	8:M:1126:HOH:O	2.01	0.44
2:M:674:VAL:O	2:M:989:VAL:HA	2.17	0.44
3:N:472:ALA:HB3	8:N:9566:HOH:O	2.17	0.44
3:N:486:ARG:CZ	8:N:9895:HOH:O	2.65	0.44
3:N:584:ASN:H	3:N:602:SER:CB	2.30	0.44
3:N:650:LEU:HD12	3:N:691:LEU:HD22	2.00	0.44
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.98	0.44
5:P:123:ASP:HB2	5:P:126:LEU:HD22	1.98	0.44
5:P:276:ARG:HB2	8:P:3917:HOH:O	2.16	0.44
1:A:184:THR:O	1:A:192:LEU:HD12	2.17	0.44
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.99	0.44
1:B:14:ARG:HH21	1:B:24:VAL:HG21	1.82	0.44
2:C:1033:GLY:O	2:C:1036:GLU:HB2	2.18	0.44
2:C:129:ILE:HG13	2:C:386:PHE:HB3	1.99	0.44
2:C:212:GLY:C	2:C:215:GLY:H	2.21	0.44
2:C:447:ALA:O	2:C:449:ILE:HG22	2.18	0.44
2:C:917:LEU:HD23	2:C:917:LEU:HA	1.89	0.44
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.82	0.44
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.32	0.44
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.32	0.44
3:D:548:ILE:HG12	3:D:548:ILE:H	1.47	0.44
3:D:554:LEU:O	3:D:558:LEU:HG	2.16	0.44
3:D:583:ASP:OD2	3:D:586:ARG:HD2	2.18	0.44
3:D:661:MET:HE3	3:D:673:ALA:HB1	2.00	0.44
2:C:1035:MET:HG2	3:D:707:THR:O	2.17	0.44
3:D:879:ARG:HG3	3:D:879:ARG:NH1	2.33	0.44
3:D:925:GLU:HG2	4:E:7:ASP:OD1	2.18	0.44
4:E:40:LEU:HD13	8:E:180:HOH:O	2.18	0.44
1:K:156:HIS:HD2	1:K:157:GLY:N	2.15	0.44
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.18	0.44
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.17	0.44
2:M:239:PHE:HD1	8:M:1629:HOH:O	2.00	0.44
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.46	0.44
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.53	0.44
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1441:GLN:CD	3:N:1442:ASN:HB2	2.38	0.44
3:N:206:ARG:HH11	3:N:206:ARG:HG2	1.82	0.44
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.48	0.44
5:P:128:ARG:CZ	5:P:128:ARG:HB2	2.48	0.44
5:P:287:THR:O	5:P:289:GLU:N	2.50	0.44
5:P:395:GLU:O	5:P:399:GLN:HB2	2.18	0.44
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.99	0.44
1:A:107:LYS:HG3	8:A:494:HOH:O	2.17	0.44
1:A:27:PRO:HG3	1:A:186:LEU:HD13	2.00	0.44
1:B:54:THR:HG22	1:B:158:ILE:HG13	1.99	0.44
1:B:73:GLU:HB2	1:B:78:ILE:CG1	2.48	0.44
2:C:383:ARG:HB2	2:C:383:ARG:CZ	2.46	0.44
2:C:470:PRO:HB2	2:C:483:VAL:HG11	1.99	0.44
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.99	0.44
2:C:690:ILE:HD12	2:C:849:VAL:CG1	2.47	0.44
2:C:789:SER:O	2:C:791:ARG:HG2	2.17	0.44
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.48	0.44
3:D:1447:LEU:O	3:D:1448:THR:C	2.56	0.44
4:E:49:GLN:HA	4:E:51:LEU:O	2.18	0.44
5:F:136:LEU:HD12	5:F:137:GLY:N	2.32	0.44
5:F:81:VAL:O	5:F:85:LEU:HG	2.17	0.44
1:K:58:ILE:HD13	1:K:140:MET:CB	2.47	0.44
1:L:107:LYS:HB2	8:L:4739:HOH:O	2.16	0.44
2:M:1061:GLU:HB3	8:M:1529:HOH:O	2.17	0.44
2:M:428:ARG:O	3:N:1078:ARG:NH1	2.50	0.44
3:N:1416:ALA:HA	8:N:9145:HOH:O	2.16	0.44
3:N:631:ILE:HG12	3:N:743:ASP:O	2.18	0.44
3:N:759:ALA:O	3:N:763:MET:HB3	2.17	0.44
3:N:955:VAL:HA	8:N:9249:HOH:O	2.17	0.44
3:N:968:ASP:O	3:N:971:LEU:HB3	2.17	0.44
1:A:156:HIS:CD2	1:A:157:GLY:N	2.86	0.44
1:A:49:PRO:O	1:A:173:PRO:HG3	2.18	0.44
1:A:191:ASP:O	1:A:191:ASP:CG	2.55	0.44
2:C:141:HIS:NE2	2:C:332:ARG:NH1	2.65	0.44
2:C:281:LEU:HD11	2:C:306:THR:CA	2.34	0.44
2:C:41:ASN:HB2	8:C:1831:HOH:O	2.17	0.44
2:C:953:VAL:HG22	2:C:966:LEU:HD13	2.00	0.44
3:D:9:ARG:HH21	3:D:11:ALA:CB	2.31	0.44
3:D:1236:LEU:HA	3:D:1359:GLN:CD	2.38	0.44
3:D:1371:VAL:HG12	3:D:1375:MET:HE3	1.99	0.44
3:D:369:ALA:HB3	8:D:9717:HOH:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:400:VAL:CG1	3:D:441:ARG:HD3	2.48	0.44
3:D:90:MET:CE	3:D:518:PRO:HB3	2.47	0.44
3:D:57:GLU:HG2	3:D:58:CYS:N	2.33	0.44
3:D:999:THR:O	3:D:1002:LYS:HB2	2.17	0.44
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.53	0.44
2:M:129:ILE:N	2:M:129:ILE:HD12	2.31	0.44
2:M:164:PRO:HD2	2:M:170:PRO:O	2.18	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HG3	2.44	0.44
2:M:445:GLU:HA	2:M:445:GLU:OE2	2.17	0.44
2:M:95:TYR:N	2:M:95:TYR:CD1	2.86	0.44
3:N:1470:ARG:HG2	3:N:1471:LEU:N	2.32	0.44
3:N:18:ILE:HG21	3:N:516:ALA:HB1	1.99	0.44
3:N:464:LEU:HD11	8:N:9491:HOH:O	2.18	0.44
3:N:563:PRO:HA	5:P:185:GLN:OE1	2.18	0.44
3:N:82:LYS:HB2	3:N:82:LYS:HE3	1.85	0.44
3:N:884:ARG:NH1	8:N:9403:HOH:O	2.49	0.44
3:N:950:GLY:C	3:N:952:ASP:N	2.64	0.44
4:O:45:ARG:HB2	4:O:46:PRO:HD2	1.99	0.44
3:N:566:ILE:HG23	5:P:214:GLN:HE22	1.82	0.44
5:P:290:GLU:CD	5:P:290:GLU:H	2.20	0.44
1:A:73:GLU:N	1:A:73:GLU:OE2	2.51	0.44
1:B:1:MET:O	1:B:6:LEU:HD13	2.18	0.44
2:C:1086:ARG:HG2	2:C:1112:PHE:CE2	2.52	0.44
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.48	0.44
2:C:176:VAL:HG13	8:C:1607:HOH:O	2.17	0.44
2:C:185:LYS:HB3	2:C:188:LYS:O	2.17	0.44
2:C:27:ARG:HG2	2:C:27:ARG:HH11	1.82	0.44
2:C:51:THR:CB	2:C:348:LEU:HD23	2.48	0.44
2:C:470:PRO:HG2	2:C:538:GLN:OE1	2.18	0.44
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.37	0.44
2:C:820:ARG:HB3	8:C:1508:HOH:O	2.18	0.44
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.82	0.44
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.18	0.44
3:D:1207:TYR:C	8:D:9465:HOH:O	2.56	0.44
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.99	0.44
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.44
3:D:168:THR:O	3:D:393:ILE:N	2.49	0.44
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.48	0.44
3:D:472:ALA:HB3	8:D:9440:HOH:O	2.17	0.44
3:D:653:PHE:HD1	3:D:653:PHE:N	2.16	0.44
3:D:6:ARG:HH11	3:D:6:ARG:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:175:ARG:HH21	1:K:201:THR:N	2.16	0.44
1:K:50:GLY:O	1:K:146:ARG:HA	2.18	0.44
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.52	0.44
2:M:146:VAL:HG11	2:M:306:THR:HG22	2.00	0.44
2:M:218:VAL:O	2:M:221:LEU:HG	2.18	0.44
2:M:250:ARG:HG2	8:M:1251:HOH:O	2.18	0.44
2:M:364:GLU:HG2	8:M:1471:HOH:O	2.17	0.44
2:M:397:GLU:N	2:M:633:GLN:CD	2.71	0.44
2:M:619:ARG:C	2:M:620:LEU:HD13	2.37	0.44
2:M:625:LEU:HD13	2:M:639:GLN:O	2.18	0.44
2:M:752:GLY:O	3:N:679:ARG:HG2	2.18	0.44
2:M:80:GLN:HE22	2:M:122:THR:HG23	1.83	0.44
2:M:695:LEU:HD22	2:M:832:LYS:HB3	2.00	0.44
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.32	0.44
3:N:119:SER:CB	3:N:123:LEU:H	2.27	0.44
3:N:12:LEU:HD23	3:N:13:ALA:N	2.26	0.44
3:N:459:GLU:HA	8:N:9127:HOH:O	2.17	0.44
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.33	0.44
3:N:907:GLU:HG2	3:N:908:LYS:H	1.81	0.44
4:O:10:PHE:CE2	4:O:16:LYS:HG3	2.53	0.44
4:O:33:HIS:HB2	4:O:37:ASN:HD21	1.80	0.44
5:P:133:ALA:HB2	5:P:142:ARG:CZ	2.48	0.44
1:A:107:LYS:HB3	8:A:463:HOH:O	2.18	0.44
1:B:57:TYR:CE1	1:B:161:ARG:HB3	2.53	0.44
1:B:170:VAL:HG23	1:B:170:VAL:O	2.17	0.44
2:C:1049:LEU:HG	2:C:1053:LEU:HD11	1.99	0.44
2:C:108:ILE:HG12	8:C:1205:HOH:O	2.18	0.44
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.99	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.53	0.44
2:C:601:GLY:HA3	2:C:615:TYR:HA	1.99	0.44
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.16	0.44
2:C:722:ILE:HG23	2:C:805:ARG:NH2	2.30	0.44
2:C:778:PHE:HB3	8:C:1664:HOH:O	2.18	0.44
2:C:902:ILE:HD13	8:C:1742:HOH:O	2.18	0.44
2:C:916:GLU:O	2:C:919:ALA:HB3	2.18	0.44
2:C:971:LYS:HB3	2:C:987:ILE:C	2.38	0.44
3:D:783:ARG:NH2	3:D:1029:ARG:CZ	2.81	0.44
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.99	0.44
3:D:1379:VAL:HA	3:D:1420:LEU:HB3	1.99	0.44
3:D:135:LEU:HA	3:D:453:ASP:O	2.18	0.44
3:D:780:LYS:NZ	8:D:9079:HOH:O	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:799:LYS:N	3:D:826:PRO:HG2	2.32	0.44
3:D:910:SER:O	3:D:913:ASP:HB2	2.18	0.44
3:D:955:VAL:HB	3:D:1011:PHE:CE1	2.46	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.51	0.44
5:F:295:MET:HB3	5:F:299:TRP:CG	2.52	0.44
3:D:611:GLN:CG	5:F:326:ASP:HB2	2.46	0.44
5:F:361:LEU:HD13	5:F:366:ALA:HB2	1.99	0.44
1:K:69:PRO:HA	2:M:607:ASP:OD2	2.17	0.44
2:M:1049:LEU:O	2:M:1053:LEU:HD12	2.17	0.44
2:M:1105:LYS:O	2:M:1107:ASN:N	2.50	0.44
2:M:577:PRO:HD3	8:M:1226:HOH:O	2.17	0.44
2:M:943:VAL:HG11	2:M:973:VAL:CG2	2.48	0.44
3:N:119:SER:H	3:N:123:LEU:CB	2.28	0.44
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.31	0.44
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.00	0.44
3:N:1302:GLU:OE2	3:N:1304:LYS:HG3	2.17	0.44
3:N:664:LYS:HE3	3:N:693:GLU:OE1	2.18	0.44
2:M:1042:ALA:HB1	3:N:710:ARG:CD	2.48	0.44
4:O:50:THR:HB	8:O:4472:HOH:O	2.18	0.44
5:P:376:ILE:HB	8:P:4564:HOH:O	2.18	0.44
1:A:150:TYR:HD1	2:C:696:LYS:HD3	1.83	0.43
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.44	0.43
2:C:162:ILE:HD12	2:C:172:ILE:CB	2.46	0.43
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.33	0.43
2:C:435:TYR:C	2:C:437:ARG:H	2.21	0.43
2:C:786:LYS:HA	8:C:1481:HOH:O	2.17	0.43
2:C:861:LEU:HD23	2:C:863:ASP:H	1.83	0.43
2:C:873:PRO:HG2	3:D:947:ILE:CD1	2.43	0.43
2:C:927:GLY:HA2	2:C:930:LYS:HE3	1.99	0.43
2:C:961:GLU:HG3	8:C:1364:HOH:O	2.18	0.43
3:D:1098:LEU:N	3:D:1098:LEU:HD12	2.33	0.43
3:D:1223:ILE:CD1	3:D:1223:ILE:H	2.25	0.43
3:D:1135:ARG:NH1	3:D:1357:ARG:HH12	2.16	0.43
3:D:34:TYR:OH	5:F:261:PRO:HD2	2.18	0.43
3:D:639:LEU:HD22	3:D:766:ALA:CB	2.48	0.43
4:E:14:ASP:N	4:E:14:ASP:OD1	2.46	0.43
5:F:132:ARG:HD3	5:F:181:GLU:CD	2.39	0.43
1:K:58:ILE:HD13	1:K:140:MET:HB2	2.00	0.43
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.52	0.43
1:L:75:VAL:O	1:L:79:ILE:HG23	2.17	0.43
2:M:176:VAL:O	2:M:178:PRO:HD3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:47:ALA:HB3	2:M:344:PHE:CE1	2.53	0.43
2:M:566:THR:HG22	2:M:566:THR:O	2.18	0.43
2:M:761:PHE:HB3	8:M:1358:HOH:O	2.17	0.43
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.30	0.43
2:M:91:GLN:CD	2:M:117:HIS:HB3	2.37	0.43
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.18	0.43
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.98	0.43
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.00	0.43
2:M:1087:VAL:HG23	3:N:524:LEU:CD2	2.48	0.43
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.18	0.43
3:N:783:ARG:HE	3:N:1029:ARG:HG3	1.83	0.43
5:P:101:GLU:O	5:P:105:LYS:HG3	2.18	0.43
5:P:133:ALA:O	5:P:137:GLY:O	2.36	0.43
5:P:320:PRO:C	5:P:321:ILE:HD13	2.38	0.43
1:A:51:THR:HA	1:A:145:ASP:O	2.18	0.43
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.53	0.43
1:A:219:ARG:NE	1:B:219:ARG:HG2	2.33	0.43
2:C:65:VAL:HB	2:C:101:ILE:HB	2.00	0.43
2:C:338:GLU:HA	2:C:341:THR:CG2	2.46	0.43
2:C:677:MET:HE1	2:C:983:ILE:HD13	1.99	0.43
2:C:754:ILE:HD13	2:C:791:ARG:CD	2.48	0.43
3:D:1198:TYR:HE1	8:D:9137:HOH:O	2.00	0.43
3:D:178:LEU:CD1	3:D:200:ASP:H	2.32	0.43
3:D:131:LYS:HA	3:D:456:MET:HG3	2.00	0.43
3:D:530:VAL:HG12	3:D:531:ASP:N	2.32	0.43
3:D:631:ILE:O	3:D:632:VAL:HG23	2.18	0.43
3:D:814:ALA:HB3	8:D:9196:HOH:O	2.17	0.43
3:D:817:GLU:O	3:D:840:LYS:NZ	2.51	0.43
3:D:890:VAL:HG13	3:D:926:LYS:CE	2.48	0.43
5:F:155:THR:O	5:F:159:ILE:HG13	2.17	0.43
5:F:416:ARG:HD2	5:F:419:ARG:HB3	1.98	0.43
1:K:169:ALA:HB1	1:K:171:PHE:CE1	2.53	0.43
1:L:94:LEU:HD21	1:L:119:ASP:HB2	2.01	0.43
2:M:357:GLU:HB2	8:M:1297:HOH:O	2.17	0.43
2:M:462:ASP:CG	2:M:463:GLU:H	2.21	0.43
2:M:484:VAL:HG21	8:M:1124:HOH:O	2.18	0.43
2:M:50:GLU:OE2	2:M:345:ARG:NH1	2.52	0.43
2:M:603:VAL:HG23	2:M:647:GLN:O	2.17	0.43
2:M:916:GLU:HA	8:M:1178:HOH:O	2.16	0.43
3:N:1004:THR:OG1	3:N:1036:ARG:HG3	2.18	0.43
3:N:1314:LYS:HZ3	3:N:1317:ASP:N	2.03	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1353:GLN:O	3:N:1357:ARG:HD2	2.18	0.43
3:N:163:TYR:O	3:N:447:VAL:HG21	2.18	0.43
3:N:530:VAL:HA	8:N:9503:HOH:O	2.17	0.43
3:N:560:GLN:NE2	5:P:218:GLN:NE2	2.65	0.43
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.42	0.43
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.83	0.43
3:N:996:TRP:HA	3:N:996:TRP:CE3	2.53	0.43
4:O:46:PRO:CB	4:O:54:LEU:HD22	2.48	0.43
5:P:130:VAL:HG21	5:P:159:ILE:HG21	2.01	0.43
8:N:9109:HOH:O	5:P:319:THR:HG23	2.17	0.43
1:A:107:LYS:CG	8:A:494:HOH:O	2.66	0.43
1:B:189:ARG:H	1:B:189:ARG:HG2	1.61	0.43
2:C:108:ILE:H	2:C:108:ILE:HG13	1.55	0.43
2:C:54:ILE:HG12	8:C:1597:HOH:O	2.19	0.43
2:C:688:ILE:N	2:C:688:ILE:HD12	2.33	0.43
2:C:746:GLY:C	2:C:799:ILE:HG22	2.38	0.43
2:C:876:VAL:HG21	3:D:949:ILE:HG13	2.00	0.43
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	1.99	0.43
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.48	0.43
3:D:34:TYR:CE1	3:D:35:ARG:HG3	2.53	0.43
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.38	0.43
3:D:521:PRO:O	3:D:525:ARG:HD3	2.19	0.43
4:E:57:ASP:H	4:E:58:PRO:HD3	1.83	0.43
5:F:323:ASP:HB3	5:F:325:LYS:HG3	2.00	0.43
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.83	0.43
1:K:1:MET:O	1:K:6:LEU:HB2	2.18	0.43
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.42	0.43
2:M:1075:ASP:HB2	4:O:31:LEU:HD12	1.99	0.43
2:M:378:LEU:N	8:M:1288:HOH:O	2.51	0.43
2:M:435:TYR:C	2:M:437:ARG:H	2.20	0.43
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.48	0.43
2:M:523:ILE:O	2:M:523:ILE:HG23	2.18	0.43
2:M:710:ILE:HD11	2:M:758:ARG:HE	1.83	0.43
2:M:999:HIS:HE1	8:M:1359:HOH:O	2.00	0.43
3:N:1051:GLU:HG3	3:N:1051:GLU:H	1.50	0.43
3:N:1197:ARG:HB3	3:N:1396:GLU:HG3	2.00	0.43
2:M:1052:MET:HG3	3:N:623:VAL:CG2	2.48	0.43
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.18	0.43
5:P:134:LYS:HE3	5:P:160:ASP:OD2	2.18	0.43
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.33	0.43
1:A:49:PRO:HB3	1:A:148:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:VAL:HA	1:A:78:ILE:HD12	1.99	0.43
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.54	0.43
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.36	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.52	0.43
2:C:396:ASP:HA	2:C:633:GLN:OE1	2.18	0.43
2:C:401:LEU:HD13	2:C:587:VAL:HG11	1.99	0.43
3:D:119:SER:H	3:D:123:LEU:CB	2.31	0.43
3:D:1382:THR:HG21	3:D:1418:LYS:CE	2.48	0.43
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.19	0.43
3:D:369:ALA:HA	8:D:9461:HOH:O	2.19	0.43
3:D:772:PRO:HG3	3:D:1210:SER:OG	2.19	0.43
3:D:805:GLU:O	3:D:805:GLU:OE1	2.37	0.43
5:F:179:GLU:HG3	8:F:503:HOH:O	2.18	0.43
5:F:320:PRO:C	5:F:321:ILE:HD13	2.38	0.43
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.17	0.43
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.43
1:K:175:ARG:HE	1:K:175:ARG:HB2	1.64	0.43
1:K:198:ARG:HG3	1:K:198:ARG:H	1.65	0.43
1:L:101:LEU:HD21	1:L:113:ASP:HB3	1.99	0.43
2:M:1091:GLU:HA	3:N:520:LEU:HD13	2.00	0.43
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
2:M:571:LEU:C	2:M:573:ARG:H	2.21	0.43
2:M:15:LEU:HD21	2:M:583:LEU:HD21	2.00	0.43
2:M:572:ILE:HG23	2:M:703:ILE:HD13	1.99	0.43
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.17	0.43
3:N:1485:GLN:O	4:O:75:PHE:HA	2.19	0.43
3:N:568:ARG:O	3:N:569:ASN:C	2.57	0.43
3:N:789:LEU:O	3:N:792:ILE:HG23	2.18	0.43
3:N:89:ARG:NH2	8:N:9103:HOH:O	2.51	0.43
1:B:89:PHE:CD1	1:B:120:VAL:HG22	2.54	0.43
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.87	0.43
1:A:215:VAL:HG11	1:B:225:PHE:CD1	2.53	0.43
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	2.00	0.43
2:C:236:ILE:O	2:C:239:PHE:HB2	2.17	0.43
2:C:417:GLY:C	2:C:418:LEU:HD12	2.39	0.43
2:C:640:ARG:CB	2:C:640:ARG:HH11	2.32	0.43
3:D:1029:ARG:NH2	8:D:9488:HOH:O	2.52	0.43
3:D:1087:ARG:HG2	3:D:1087:ARG:HH11	1.83	0.43
3:D:1271:LYS:HE3	3:D:1334:GLN:NE2	2.33	0.43
3:D:133:ILE:HD11	8:D:9474:HOH:O	2.18	0.43
3:D:525:ARG:HA	3:D:538:SER:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:853:VAL:HA	3:D:858:VAL:O	2.18	0.43
1:K:229:GLN:HB2	1:K:229:GLN:HE21	1.64	0.43
2:M:1019:GLN:OE1	3:N:621:LYS:HA	2.18	0.43
2:M:1051:GLU:CG	2:M:1056:LYS:HE3	2.40	0.43
2:M:1018:GLN:NE2	2:M:1063:ARG:NH2	2.66	0.43
2:M:186:VAL:HG23	2:M:187:ASN:N	2.26	0.43
2:M:203:ASP:OD1	2:M:206:THR:HG22	2.18	0.43
2:M:220:GLY:HA3	8:M:1170:HOH:O	2.18	0.43
2:M:302:VAL:C	2:M:305:PRO:HD2	2.39	0.43
2:M:553:ASP:HA	2:M:881:ASN:HA	1.99	0.43
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.39	0.43
3:N:431:VAL:HG22	8:N:9550:HOH:O	2.18	0.43
3:N:47:GLU:HG2	8:N:9894:HOH:O	2.17	0.43
3:N:514:LEU:HA	8:N:9079:HOH:O	2.18	0.43
3:N:584:ASN:HB2	3:N:602:SER:OG	2.19	0.43
3:N:102:ILE:CG2	3:N:586:ARG:HD3	2.49	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.90	0.43
4:O:54:LEU:N	8:O:4983:HOH:O	2.52	0.43
5:P:366:ALA:HB3	5:P:367:MET:CE	2.49	0.43
1:A:23:PHE:O	1:A:196:THR:HA	2.18	0.43
1:A:1:MET:O	1:A:6:LEU:HB2	2.18	0.43
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.82	0.43
1:B:49:PRO:HA	8:B:322:HOH:O	2.19	0.43
2:C:1016:ILE:HD12	3:D:526:PRO:HG2	2.00	0.43
2:C:1042:ALA:HB1	8:D:9123:HOH:O	2.18	0.43
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.18	0.43
2:C:854:PRO:HD2	2:C:857:ASP:OD2	2.18	0.43
3:D:1102:THR:HG22	3:D:1102:THR:O	2.19	0.43
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.53	0.43
3:D:57:GLU:HG2	3:D:58:CYS:O	2.19	0.43
3:D:606:ILE:O	3:D:613:ARG:HB2	2.18	0.43
3:D:819:GLY:HA2	8:D:9660:HOH:O	2.18	0.43
8:B:441:HOH:O	3:D:821:VAL:HG13	2.18	0.43
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.49	0.43
3:D:838:ARG:HG2	3:D:865:THR:OG1	2.18	0.43
5:F:313:GLU:HG2	5:F:313:GLU:H	1.42	0.43
1:K:193:ASP:HB2	8:K:3631:HOH:O	2.19	0.43
1:L:142:VAL:HG23	1:L:142:VAL:O	2.19	0.43
1:L:19:GLU:O	1:L:200:TRP:HA	2.18	0.43
2:M:274:ARG:CD	2:M:285:LEU:HB3	2.49	0.43
2:M:654:LEU:HD13	2:M:664:GLY:N	2.33	0.43

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:337:HIS:CD2	5:P:337:HIS:N	2.86	0.43
5:P:340:SER:O	5:P:342:VAL:N	2.51	0.43
5:P:363:GLU:HA	5:P:367:MET:HE2	1.99	0.43
1:B:138:LEU:HB2	8:B:373:HOH:O	2.18	0.43
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.48	0.43
2:C:10:ARG:HD3	2:C:10:ARG:HA	1.68	0.43
2:C:334:ARG:HB2	2:C:339:LEU:HD11	2.00	0.43
2:C:29:ALA:CB	2:C:337:GLY:HA2	2.49	0.43
2:C:480:THR:HG22	2:C:482:GLU:N	2.31	0.43
2:C:640:ARG:HA	2:C:641:PRO:HD3	1.90	0.43
2:C:680:ASP:HA	8:C:1147:HOH:O	2.18	0.43
2:C:745:ILE:HG13	8:C:1168:HOH:O	2.18	0.43
2:C:77:PRO:HD2	2:C:91:GLN:O	2.19	0.43
3:D:1144:LEU:O	3:D:1166:LEU:HG	2.18	0.43
3:D:1209:LEU:HD13	3:D:1211:MET:CE	2.41	0.43
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.52	0.43
3:D:1303:TYR:CD1	3:D:1325:LEU:HD23	2.54	0.43
3:D:55:ASP:HB3	3:D:56:TYR:H	1.65	0.43
5:F:157:GLU:HG3	8:F:479:HOH:O	2.18	0.43
2:C:1010:THR:HG21	5:F:341:PRO:HB2	2.01	0.43
1:L:12:THR:OG1	1:L:24:VAL:HB	2.19	0.43
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.54	0.43
2:M:443:THR:HA	2:M:444:PRO:HD3	1.80	0.43
2:M:570:PRO:HA	8:M:1348:HOH:O	2.18	0.43
2:M:582:GLY:N	2:M:584:GLU:OE2	2.48	0.43
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.53	0.43
3:N:1300:SER:HB3	8:N:9965:HOH:O	2.18	0.43
3:N:1413:THR:HG21	8:N:9344:HOH:O	2.18	0.43
3:N:185:VAL:HG12	3:N:191:LEU:HD21	2.01	0.43
3:N:397:LYS:HE3	8:N:9313:HOH:O	2.18	0.43
3:N:441:ARG:O	3:N:443:VAL:N	2.52	0.43
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.34	0.43
3:N:760:ARG:HB2	4:O:3:GLU:OE2	2.19	0.43
2:M:1115:LEU:CG	3:N:85:VAL:HG13	2.49	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.50	0.43
3:N:898:GLU:HB3	3:N:921:ARG:NH2	2.34	0.43
3:N:781:PRO:HG2	3:N:911:LEU:HD23	2.01	0.43
3:N:950:GLY:H	3:N:953:ASP:CG	2.22	0.43
1:B:7:LYS:HD3	8:B:328:HOH:O	2.19	0.43
2:C:102:HIS:HD2	2:C:365:ASP:OD2	2.02	0.43
2:C:443:THR:HA	2:C:444:PRO:HD3	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:52:PHE:HB3	8:C:1475:HOH:O	2.18	0.43
2:C:744:ARG:HA	8:C:1168:HOH:O	2.18	0.43
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.43
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.19	0.43
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.49	0.43
3:D:427:VAL:CB	3:D:435:VAL:HB	2.49	0.43
3:D:464:LEU:O	3:D:468:LEU:HG	2.19	0.43
3:D:508:ARG:HG2	3:D:508:ARG:HH11	1.84	0.43
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.01	0.43
3:D:633:VAL:C	3:D:635:PRO:HD3	2.39	0.43
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.82	0.43
5:F:225:GLU:HG3	5:F:226:LYS:HG3	2.01	0.43
1:K:112:ARG:HH22	1:K:126:ASP:HB2	1.83	0.43
1:K:212:ASN:O	1:K:215:VAL:HG23	2.19	0.43
1:K:48:ILE:HG22	1:K:173:PRO:HD2	2.00	0.43
1:L:62:LEU:HD22	1:L:63:HIS:HE1	1.83	0.43
2:M:415:PRO:C	2:M:417:GLY:H	2.23	0.43
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.34	0.43
2:M:495:THR:H	2:M:530:GLU:CD	2.22	0.43
2:M:666:LEU:HD12	2:M:667:ALA:H	1.84	0.43
3:N:1377:LYS:HB3	3:N:1378:TYR:CE1	2.53	0.43
3:N:493:ARG:NH1	3:N:1390:LEU:N	2.67	0.43
3:N:1476:THR:OG1	4:O:20:THR:HG21	2.19	0.43
3:N:828:LYS:N	3:N:828:LYS:HD3	2.33	0.43
2:M:1115:LEU:CB	3:N:85:VAL:HG13	2.49	0.43
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.48	0.43
5:P:88:ILE:O	5:P:92:PRO:HG3	2.19	0.43
1:A:229:GLN:HB2	1:A:229:GLN:HE21	1.58	0.42
1:A:9:PRO:HB3	1:A:25:LEU:HD21	2.01	0.42
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.42
1:B:33:GLY:O	1:B:195:LEU:HD22	2.19	0.42
2:C:103:LYS:HE2	8:C:1421:HOH:O	2.19	0.42
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.19	0.42
2:C:185:LYS:HE3	8:C:1838:HOH:O	2.19	0.42
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.39	0.42
2:C:892:LEU:HD12	2:C:892:LEU:O	2.19	0.42
3:D:1107:VAL:O	3:D:1218:GLY:N	2.49	0.42
3:D:28:LYS:O	3:D:43:GLY:HA2	2.19	0.42
3:D:500:ARG:HD2	8:D:9527:HOH:O	2.18	0.42
3:D:568:ARG:O	3:D:569:ASN:C	2.57	0.42
3:D:638:LYS:C	3:D:729:HIS:HD2	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C:1550:HOH:O	3:D:88:TYR:HB2	2.17	0.42
4:E:67:GLU:HG3	4:E:67:GLU:H	1.73	0.42
5:F:132:ARG:HG3	8:F:754:HOH:O	2.19	0.42
1:L:23:PHE:CE1	1:L:208:LEU:HD13	2.54	0.42
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.83	0.42
2:M:157:ARG:HD3	2:M:158:TYR:N	2.34	0.42
2:M:244:PRO:CD	2:M:245:GLY:N	2.82	0.42
2:M:34:VAL:CG1	2:M:38:LYS:HG3	2.49	0.42
2:M:631:SER:HG	2:M:635:THR:H	1.65	0.42
2:M:650:ARG:HB2	8:M:1333:HOH:O	2.17	0.42
2:M:68:PHE:HZ	2:M:71:TYR:HB3	1.84	0.42
3:N:1136:LYS:HG3	3:N:1139:ASP:HB2	2.01	0.42
3:N:125:GLN:NE2	8:N:9189:HOH:O	2.50	0.42
3:N:104:PHE:HE2	3:N:1448:THR:HA	1.84	0.42
3:N:1435:LEU:HB2	3:N:1457:ASP:OD2	2.19	0.42
3:N:552:ASN:O	3:N:556:LYS:HD3	2.19	0.42
3:N:794:GLN:NE2	3:N:795:VAL:O	2.52	0.42
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.54	0.42
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.54	0.42
2:C:1054:THR:C	2:C:1059:ASP:HB2	2.40	0.42
2:C:219:GLN:HA	2:C:222:MET:SD	2.58	0.42
2:C:321:GLU:HG2	2:C:321:GLU:H	1.57	0.42
2:C:498:GLN:CD	3:D:1068:LEU:HB2	2.39	0.42
2:C:676:ILE:O	2:C:676:ILE:HG23	2.18	0.42
2:C:834:GLN:HB3	8:C:1816:HOH:O	2.19	0.42
2:C:897:LEU:HD11	2:C:920:GLN:HG2	2.01	0.42
3:D:1057:VAL:HA	3:D:1069:GLU:HG2	2.00	0.42
3:D:1156:LEU:HG	3:D:1177:ALA:HB2	2.00	0.42
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.18	0.42
3:D:690:ALA:O	3:D:693:GLU:HB3	2.19	0.42
3:D:828:LYS:HD2	3:D:862:ASP:OD2	2.19	0.42
5:F:309:LYS:O	5:F:312:GLN:HG3	2.19	0.42
5:F:343:ASP:O	5:F:346:THR:HB	2.18	0.42
5:F:393:THR:O	5:F:397:ILE:HG13	2.19	0.42
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.54	0.42
1:L:23:PHE:CE1	1:L:208:LEU:HD22	2.55	0.42
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.19	0.42
2:M:400:PRO:HB3	8:M:1744:HOH:O	2.18	0.42
2:M:595:LEU:HD22	2:M:625:LEU:CD2	2.49	0.42
2:M:822:VAL:HG21	2:M:824:ARG:HH21	1.84	0.42
3:N:1241:PHE:HD1	3:N:1241:PHE:H	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:134:VAL:HG21	8:N:9491:HOH:O	2.19	0.42
3:N:737:ASN:N	8:N:9095:HOH:O	2.52	0.42
5:P:372:ARG:HA	8:P:3689:HOH:O	2.18	0.42
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.49	0.42
2:C:91:GLN:HA	2:C:119:PRO:HA	2.02	0.42
2:C:238:LEU:HD23	2:C:241:LEU:HB3	2.01	0.42
2:C:254:VAL:O	2:C:257:VAL:HG23	2.18	0.42
2:C:430:VAL:O	2:C:430:VAL:HG13	2.19	0.42
2:C:460:ARG:HH11	2:C:460:ARG:CB	2.26	0.42
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.84	0.42
2:C:607:ASP:HB3	2:C:610:ARG:H	1.84	0.42
2:C:708:TYR:H	2:C:708:TYR:HD1	1.67	0.42
3:D:31:THR:HB	3:D:32:ILE:H	1.56	0.42
3:D:475:LYS:O	3:D:479:GLU:HG2	2.20	0.42
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.33	0.42
3:D:759:ALA:O	3:D:763:MET:HB3	2.19	0.42
3:D:917:GLN:NE2	3:D:917:GLN:HA	2.34	0.42
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.49	0.42
3:D:994:GLN:O	3:D:998:GLU:HG3	2.20	0.42
4:E:70:THR:HG22	4:E:71:GLY:N	2.34	0.42
5:F:348:SER:OG	5:F:349:LEU:N	2.52	0.42
5:F:368:VAL:HG13	5:F:388:ALA:O	2.20	0.42
1:L:51:THR:HA	1:L:145:ASP:O	2.19	0.42
1:L:165:ILE:HG13	1:L:165:ILE:O	2.19	0.42
1:L:179:PHE:HB2	1:L:195:LEU:HD11	2.00	0.42
2:M:184:MET:HB2	2:M:193:LEU:HD12	2.01	0.42
2:M:362:GLY:HA3	2:M:367:LEU:CD2	2.42	0.42
2:M:440:PRO:HG2	2:M:441:VAL:HG23	2.00	0.42
2:M:473:ARG:NH2	8:M:1124:HOH:O	2.52	0.42
2:M:732:ALA:O	2:M:735:ARG:HG3	2.19	0.42
2:M:959:PRO:O	2:M:963:LEU:HD23	2.19	0.42
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.01	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.54	0.42
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.54	0.42
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.50	0.42
3:N:1447:LEU:O	3:N:1448:THR:C	2.57	0.42
3:N:168:THR:O	3:N:393:ILE:N	2.52	0.42
3:N:675:ARG:O	3:N:678:GLU:HG2	2.19	0.42
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.84	0.42
3:N:78:VAL:HG12	3:N:78:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:850:LEU:H	3:N:850:LEU:CD1	2.23	0.42
5:P:419:ARG:O	5:P:421:PHE:N	2.52	0.42
2:C:1094:ALA:HB1	3:D:603:LEU:CD1	2.49	0.42
2:C:437:ARG:HG2	2:C:467:ILE:O	2.20	0.42
2:C:712:ALA:HB1	2:C:820:ARG:NH1	2.33	0.42
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.54	0.42
2:C:704:HIS:CG	2:C:831:ARG:HH21	2.37	0.42
3:D:1020:LEU:HD21	3:D:1038:LEU:HD13	2.01	0.42
3:D:1199:GLY:N	8:D:9253:HOH:O	2.51	0.42
3:D:1220:ALA:O	3:D:1224:VAL:HG23	2.19	0.42
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.82	0.42
3:D:145:VAL:HG11	8:D:9724:HOH:O	2.18	0.42
3:D:163:TYR:O	3:D:447:VAL:HG21	2.19	0.42
3:D:507:ASN:HD22	3:D:507:ASN:HA	1.65	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	0.42
3:D:530:VAL:CG1	3:D:531:ASP:H	2.32	0.42
3:D:556:LYS:HD2	8:D:9348:HOH:O	2.19	0.42
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.01	0.42
8:B:441:HOH:O	3:D:821:VAL:HG22	2.19	0.42
3:D:864:VAL:HG23	8:D:9288:HOH:O	2.18	0.42
2:C:1086:ARG:HD3	3:D:88:TYR:HH	1.83	0.42
5:F:262:VAL:O	5:F:266:GLU:HG3	2.17	0.42
1:L:161:ARG:HG3	8:L:3450:HOH:O	2.18	0.42
2:M:239:PHE:HE1	8:M:1543:HOH:O	2.02	0.42
2:M:549:PHE:CE2	2:M:886:LEU:HD12	2.55	0.42
2:M:652:GLY:HA2	8:M:1180:HOH:O	2.19	0.42
2:M:750:LYS:HG3	2:M:751:PRO:HD2	2.01	0.42
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.82	0.42
3:N:1112:CYS:CA	3:N:1195:GLN:HE22	2.31	0.42
3:N:1365:ASP:OD2	3:N:1365:ASP:N	2.53	0.42
3:N:1493:LYS:HZ3	3:N:1493:LYS:HA	1.83	0.42
3:N:759:ALA:HA	3:N:763:MET:CE	2.49	0.42
3:N:770:LEU:HD13	3:N:776:GLU:C	2.40	0.42
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.01	0.42
3:N:536:ALA:CA	5:P:315:VAL:O	2.68	0.42
3:D:1037:GLN:OE1	3:D:1042:ARG:NE	2.52	0.42
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.83	0.42
3:D:112:ILE:HD13	3:D:461:ILE:HG21	2.01	0.42
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.83	0.42
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.83	0.42
3:D:421:LEU:HD12	3:D:435:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:47:GLU:HG2	3:D:47:GLU:H	1.71	0.42
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.03	0.42
3:D:669:ASN:O	3:D:672:ALA:HB3	2.19	0.42
3:D:817:GLU:HB2	3:D:839:LEU:CD1	2.50	0.42
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.33	0.42
5:F:372:ARG:HD3	8:F:635:HOH:O	2.20	0.42
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.20	0.42
2:M:1086:ARG:CB	2:M:1112:PHE:HE2	2.32	0.42
2:M:131:GLY:N	8:M:1593:HOH:O	2.53	0.42
2:M:507:ARG:HH11	2:M:507:ARG:CB	2.25	0.42
2:M:572:ILE:HD11	2:M:701:THR:CG2	2.49	0.42
2:M:577:PRO:HA	2:M:993:PHE:HD2	1.83	0.42
2:M:754:ILE:HD13	2:M:791:ARG:HD3	2.01	0.42
2:M:923:GLU:HA	2:M:923:GLU:OE1	2.19	0.42
3:N:1142:ALA:HB1	3:N:1365:ASP:OD2	2.19	0.42
3:N:115:LEU:HD13	3:N:499:VAL:HG22	2.01	0.42
3:N:553:ARG:HD2	3:N:570:GLU:OE2	2.19	0.42
3:N:661:MET:HE1	3:N:677:LEU:HD11	2.02	0.42
3:N:700:VAL:HG22	3:N:718:PRO:HG3	2.01	0.42
3:N:639:LEU:N	3:N:729:HIS:CD2	2.87	0.42
3:N:52:PRO:HG2	3:N:78:VAL:HG13	2.00	0.42
3:N:888:GLU:HA	3:N:891:GLU:OE1	2.19	0.42
3:N:1485:GLN:NE2	4:O:79:LEU:N	2.68	0.42
1:B:133:GLU:HG3	1:B:134:GLU:HG2	2.02	0.42
1:B:13:VAL:HG12	1:B:14:ARG:N	2.34	0.42
2:C:235:LEU:HD11	8:C:1777:HOH:O	2.20	0.42
2:C:135:VAL:N	2:C:393:GLN:O	2.50	0.42
2:C:421:GLU:HG3	8:C:1723:HOH:O	2.18	0.42
2:C:710:ILE:HD12	2:C:790:LEU:HB2	2.01	0.42
2:C:751:PRO:HA	2:C:792:VAL:HG12	2.01	0.42
3:D:1086:LEU:HB2	8:D:9637:HOH:O	2.20	0.42
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.34	0.42
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.33	0.42
3:D:1259:VAL:O	3:D:1263:PHE:HD1	2.02	0.42
3:D:178:LEU:HD11	8:D:9071:HOH:O	2.19	0.42
3:D:183:GLU:HG3	8:D:9600:HOH:O	2.19	0.42
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.50	0.42
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.35	0.42
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.54	0.42
3:D:49:ILE:HB	3:D:50:PHE:CE1	2.55	0.42
3:D:678:GLU:HG3	3:D:679:ARG:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.54	0.42
3:D:817:GLU:HG3	3:D:840:LYS:HZ1	1.85	0.42
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	2.00	0.42
5:F:113:ILE:HG23	5:F:127:ILE:HG22	2.00	0.42
1:L:134:GLU:HA	8:L:3583:HOH:O	2.20	0.42
2:M:101:ILE:HG22	2:M:102:HIS:H	1.84	0.42
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.55	0.42
2:M:183:SER:HB2	2:M:190:LYS:HG2	2.00	0.42
2:M:240:THR:HG23	8:M:1647:HOH:O	2.19	0.42
2:M:345:ARG:HA	2:M:348:LEU:HB2	2.02	0.42
2:M:363:SER:HB3	8:M:1471:HOH:O	2.20	0.42
2:M:44:ILE:O	2:M:48:PHE:HB2	2.18	0.42
2:M:511:GLU:HG2	2:M:511:GLU:H	1.63	0.42
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.19	0.42
2:M:914:ILE:CD1	2:M:918:LEU:HD13	2.48	0.42
3:N:1110:ALA:O	3:N:1111:ASP:C	2.58	0.42
3:N:1209:LEU:CD2	3:N:1210:SER:H	2.29	0.42
3:N:65:ARG:HD2	3:N:65:ARG:HA	1.85	0.42
3:N:661:MET:HE1	3:N:673:ALA:HB1	2.00	0.42
3:N:860:LEU:HD23	3:N:877:PRO:HB2	2.00	0.42
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.84	0.42
5:P:338:LEU:HG	8:P:2822:HOH:O	2.19	0.42
1:A:216:GLU:O	1:A:220:GLU:HG3	2.20	0.42
1:B:18:ARG:HH12	1:B:123:MET:HE1	1.85	0.42
1:B:51:THR:HA	1:B:145:ASP:O	2.20	0.42
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.19	0.42
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.43	0.42
2:C:388:ARG:HA	8:C:1349:HOH:O	2.19	0.42
2:C:437:ARG:NH1	2:C:488:ALA:HA	2.35	0.42
2:C:662:GLU:HB3	8:C:1359:HOH:O	2.19	0.42
2:C:7:GLY:HA3	2:C:907:ASP:O	2.20	0.42
2:C:95:TYR:CD1	2:C:95:TYR:N	2.88	0.42
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.20	0.42
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.55	0.42
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.55	0.42
3:D:1205:TYR:CE1	3:D:1221:VAL:CG1	3.02	0.42
3:D:39:PRO:HB2	8:D:9084:HOH:O	2.19	0.42
3:D:501:ALA:HB1	3:D:1453:ALA:CA	2.47	0.42
3:D:937:TYR:HE1	8:D:9501:HOH:O	2.02	0.42
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.42
1:K:46:SER:HB3	2:M:856:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:159:LYS:NZ	8:L:3366:HOH:O	2.53	0.42
1:L:86:VAL:O	1:L:86:VAL:HG13	2.20	0.42
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.55	0.42
2:M:367:LEU:HA	2:M:371:LYS:HB2	2.01	0.42
2:M:515:ALA:C	2:M:516:ARG:HD3	2.40	0.42
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.90	0.42
2:M:751:PRO:HA	2:M:792:VAL:HB	2.02	0.42
3:N:1127:GLU:HB3	3:N:1128:VAL:H	1.68	0.42
3:N:135:LEU:HA	3:N:453:ASP:O	2.19	0.42
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.46	0.42
3:N:610:LYS:CG	3:N:611:GLN:HE21	2.26	0.42
3:N:796:ARG:HG2	3:N:861:GLN:O	2.20	0.42
3:N:838:ARG:HD3	3:N:874:GLU:CG	2.50	0.42
3:N:865:THR:N	8:N:9349:HOH:O	2.52	0.42
3:N:948:THR:O	3:N:1019:PRO:CB	2.68	0.42
8:N:9099:HOH:O	4:O:84:ARG:HG2	2.20	0.42
1:A:209:GLU:HA	8:A:418:HOH:O	2.19	0.42
2:C:1015:LEU:HD13	5:F:334:PRO:O	2.20	0.42
2:C:30:LEU:O	2:C:30:LEU:HD12	2.20	0.42
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.85	0.42
3:D:1047:LYS:HA	3:D:1053:PHE:CZ	2.55	0.42
3:D:1132:LEU:HA	3:D:1132:LEU:HD12	1.80	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.50	0.42
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.88	0.42
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.50	0.42
3:D:805:GLU:OE2	3:D:809:PRO:HG2	2.20	0.42
3:D:848:GLU:HA	3:D:851:LEU:HD12	2.02	0.42
3:D:971:LEU:CD1	3:D:992:ILE:HG23	2.50	0.42
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.84	0.42
5:F:401:GLU:HA	8:F:489:HOH:O	2.19	0.42
5:F:412:GLU:CD	5:F:418:LEU:HD13	2.40	0.42
1:K:111:ALA:HB3	1:K:124:ASN:O	2.20	0.42
1:K:191:ASP:O	1:K:192:LEU:HD23	2.20	0.42
1:K:176:ARG:O	1:K:200:TRP:HE3	2.02	0.42
1:L:111:ALA:HB3	1:L:124:ASN:O	2.20	0.42
1:L:123:MET:HA	8:L:3100:HOH:O	2.20	0.42
1:L:140:MET:HG2	1:L:142:VAL:HG13	2.01	0.42
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.20	0.42
2:M:1060:ILE:HA	2:M:1063:ARG:HE	1.85	0.42
2:M:1060:ILE:CG1	2:M:1063:ARG:HH21	2.33	0.42
2:M:183:SER:C	2:M:193:LEU:HD11	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:212:GLY:C	2:M:215:GLY:H	2.23	0.42
2:M:249:LYS:HB2	2:M:249:LYS:NZ	2.35	0.42
2:M:257:VAL:HA	8:M:1429:HOH:O	2.20	0.42
2:M:439:CYS:HB3	2:M:442:GLU:HB2	2.00	0.42
2:M:54:ILE:HA	8:M:1389:HOH:O	2.19	0.42
2:M:694:LEU:O	2:M:699:PHE:HB2	2.20	0.42
2:M:910:LYS:HD2	2:M:910:LYS:N	2.35	0.42
3:N:1394:VAL:CG1	3:N:1397:LYS:HG3	2.50	0.42
3:N:408:GLU:HG2	8:N:9502:HOH:O	2.19	0.42
3:N:161:LEU:CD2	3:N:452:ILE:HG21	2.48	0.42
3:N:12:LEU:HD22	3:N:511:TRP:HB3	2.02	0.42
3:N:642:CYS:HA	8:N:9469:HOH:O	2.19	0.42
3:N:71:LYS:HE3	8:N:9783:HOH:O	2.19	0.42
3:N:83:SER:N	8:N:9092:HOH:O	2.53	0.42
2:C:1090:LYS:HA	2:C:1090:LYS:HD3	1.87	0.42
2:C:147:TYR:HE2	2:C:280:LYS:NZ	2.18	0.42
2:C:452:ILE:HG13	2:C:452:ILE:O	2.19	0.42
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.84	0.42
3:D:1152:GLU:CD	3:D:1159:ARG:NH1	2.73	0.42
3:D:1184:GLN:NE2	8:D:9269:HOH:O	2.52	0.42
3:D:1382:THR:HA	8:D:9579:HOH:O	2.20	0.42
3:D:15:PRO:CB	3:D:19:ARG:HH12	2.32	0.42
2:C:1031:ARG:HD3	3:D:619:LEU:HD23	2.02	0.42
3:D:978:TYR:CE1	3:D:985:ASP:HA	2.55	0.42
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.20	0.42
5:F:166:LEU:HD22	5:F:170:HIS:HB2	2.01	0.42
5:F:181:GLU:O	5:F:184:ARG:HB3	2.19	0.42
5:F:370:LYS:C	5:F:370:LYS:HD2	2.39	0.42
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.34	0.42
1:K:160:ASP:HB2	8:K:3421:HOH:O	2.20	0.42
1:K:198:ARG:C	1:K:199:ILE:HD12	2.41	0.42
1:L:108:GLU:HA	8:L:2956:HOH:O	2.20	0.42
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.84	0.42
2:M:503:LEU:HD12	8:M:1190:HOH:O	2.19	0.42
2:M:469:THR:HG23	2:M:538:GLN:OE1	2.20	0.42
2:M:565:GLN:HA	2:M:995:MET:HE3	2.01	0.42
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.54	0.42
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.85	0.42
3:N:65:ARG:HG3	3:N:66:GLN:HG2	2.00	0.42
3:N:82:LYS:HG2	5:P:337:HIS:HB3	2.01	0.42
3:N:83:SER:O	3:N:86:ARG:N	2.53	0.42

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.19	0.41
2:M:768:THR:HB	2:M:771:GLU:CB	2.49	0.41
2:M:861:LEU:HD21	2:M:925:TYR:HE2	1.85	0.41
2:M:874:LEU:O	3:N:1029:ARG:HD2	2.20	0.41
3:N:1076:GLY:O	3:N:1079:LYS:HG3	2.20	0.41
3:N:1482:ARG:HB2	3:N:1483:PHE:CD1	2.56	0.41
3:N:30:GLU:N	8:N:9867:HOH:O	2.52	0.41
3:N:421:LEU:O	3:N:421:LEU:HD23	2.20	0.41
2:M:1056:LYS:O	3:N:624:ASP:HB2	2.21	0.41
3:N:783:ARG:HH21	3:N:1029:ARG:HG3	1.82	0.41
3:N:974:ILE:HG13	3:N:974:ILE:H	1.75	0.41
4:O:54:LEU:HA	4:O:58:PRO:CG	2.51	0.41
5:P:156:VAL:HG23	5:P:157:GLU:N	2.36	0.41
5:P:370:LYS:HD2	5:P:370:LYS:C	2.40	0.41
1:A:26:GLU:HB2	1:A:194:LYS:HA	2.02	0.41
2:C:198:ARG:CZ	2:C:228:ALA:O	2.68	0.41
2:C:224:GLU:OE1	2:C:226:VAL:HG12	2.20	0.41
2:C:267:TYR:N	2:C:267:TYR:CD2	2.88	0.41
2:C:425:PHE:O	2:C:429:ASP:OD2	2.39	0.41
2:C:451:LEU:H	2:C:451:LEU:HD12	1.86	0.41
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.55	0.41
2:C:571:LEU:C	2:C:573:ARG:H	2.22	0.41
2:C:658:GLY:N	2:C:661:SER:OG	2.54	0.41
2:C:679:PHE:CZ	2:C:859:PRO:HD3	2.55	0.41
2:C:69:LEU:HD12	2:C:97:ARG:HB3	2.02	0.41
2:C:713:ARG:HG2	8:C:1811:HOH:O	2.20	0.41
2:C:909:ALA:HB1	2:C:914:ILE:CD1	2.50	0.41
2:C:925:TYR:C	2:C:925:TYR:CD1	2.94	0.41
2:C:9:ILE:HD11	2:C:537:LYS:NZ	2.35	0.41
3:D:1171:VAL:O	3:D:1175:ILE:HG13	2.21	0.41
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.84	0.41
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.33	0.41
3:D:191:LEU:HD11	8:D:9536:HOH:O	2.19	0.41
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.51	0.41
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.51	0.41
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.41
4:E:29:GLN:CB	4:E:33:HIS:NE2	2.83	0.41
5:F:324:GLU:HA	8:F:663:HOH:O	2.19	0.41
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.55	0.41
2:M:1024:LYS:HG3	8:M:1569:HOH:O	2.21	0.41
2:M:620:LEU:HG	8:M:1346:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:821:GLU:HG2	2:M:822:VAL:N	2.35	0.41
2:M:832:LYS:HD2	8:M:1460:HOH:O	2.21	0.41
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.35	0.41
3:N:10:ILE:HG13	3:N:1434:TRP:CE2	2.55	0.41
3:N:404:GLU:HB3	3:N:414:ARG:CZ	2.50	0.41
3:N:592:THR:HA	8:N:9104:HOH:O	2.20	0.41
3:N:659:LYS:O	3:N:663:GLU:HG3	2.21	0.41
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.52	0.41
3:N:770:LEU:HD12	3:N:775:GLY:O	2.21	0.41
3:N:875:THR:HG22	3:N:879:ARG:HB2	2.03	0.41
5:P:256:ARG:NE	5:P:260:ILE:HD12	2.35	0.41
5:P:392:VAL:HG12	5:P:396:ARG:HB2	2.02	0.41
1:A:29:GLU:HB3	1:A:30:ARG:H	1.70	0.41
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.50	0.41
2:C:1004:LYS:O	2:C:1005:MET:C	2.59	0.41
2:C:163:ILE:HG13	2:C:171:TRP:CH2	2.55	0.41
2:C:299:LYS:HD2	8:C:1273:HOH:O	2.20	0.41
2:C:335:THR:HG23	2:C:461:VAL:HG11	2.03	0.41
2:C:525:SER:O	2:C:529:VAL:HG23	2.19	0.41
2:C:557:ARG:CZ	2:C:879:ARG:HG2	2.50	0.41
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.21	0.41
2:C:697:ARG:O	2:C:699:PHE:N	2.53	0.41
3:D:786:ILE:HG22	3:D:1026:SER:HB2	2.02	0.41
3:D:1063:GLU:HG3	8:D:9502:HOH:O	2.20	0.41
3:D:1211:MET:HG2	3:D:1213:ARG:H	1.85	0.41
3:D:1364:HIS:ND1	3:D:1365:ASP:N	2.67	0.41
3:D:13:ALA:O	3:D:511:TRP:HB3	2.21	0.41
3:D:1423:GLY:HA2	8:D:9248:HOH:O	2.19	0.41
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.78	0.41
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.50	0.41
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.55	0.41
3:D:817:GLU:HB2	3:D:839:LEU:HD13	2.01	0.41
4:E:46:PRO:HD3	8:E:180:HOH:O	2.20	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.77	0.41
5:F:135:ILE:O	5:F:135:ILE:HD13	2.21	0.41
5:F:244:ARG:NH1	5:F:244:ARG:HG3	2.35	0.41
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.86	0.41
2:M:205:GLU:OE1	2:M:206:THR:N	2.53	0.41
2:M:327:HIS:O	2:M:330:ASN:HB2	2.20	0.41
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.01	0.41
3:N:786:ILE:HD12	3:N:1028:ALA:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.21	0.41
3:N:151:GLN:HB2	3:N:151:GLN:HE21	1.77	0.41
3:N:169:TYR:HA	3:N:392:SER:CB	2.50	0.41
3:N:171:LEU:HD11	3:N:388:HIS:CB	2.50	0.41
3:N:42:ASP:O	3:N:49:ILE:HD12	2.21	0.41
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.56	0.41
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.50	0.41
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.55	0.41
3:N:565:ILE:HD12	3:N:565:ILE:N	2.20	0.41
3:N:637:LEU:HD11	3:N:642:CYS:CA	2.51	0.41
3:N:702:LEU:HD23	3:N:745:MET:CE	2.51	0.41
8:M:1645:HOH:O	3:N:940:THR:HG23	2.21	0.41
5:P:262:VAL:O	5:P:265:VAL:HB	2.21	0.41
1:A:178:ALA:HB3	1:A:198:ARG:HD3	2.03	0.41
1:A:211:LEU:O	1:A:214:ALA:HB3	2.21	0.41
1:B:29:GLU:HB3	1:B:30:ARG:H	1.75	0.41
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.35	0.41
2:C:162:ILE:CB	2:C:172:ILE:HD13	2.49	0.41
2:C:207:LEU:HD13	2:C:221:LEU:HD13	2.03	0.41
2:C:332:ARG:CB	2:C:332:ARG:HH11	2.15	0.41
2:C:365:ASP:O	2:C:367:LEU:N	2.54	0.41
2:C:710:ILE:HG12	2:C:758:ARG:HE	1.86	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.87	0.41
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.50	0.41
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.39	0.41
3:D:1274:ILE:CD1	3:D:1334:GLN:HB3	2.50	0.41
3:D:1262:LEU:HD23	3:D:1352:ILE:HA	2.02	0.41
3:D:397:LYS:HE2	3:D:399:ARG:NE	2.23	0.41
5:F:133:ALA:O	5:F:137:GLY:O	2.38	0.41
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.36	0.41
1:K:109:VAL:O	1:K:129:ILE:HG12	2.21	0.41
1:K:97:VAL:HG12	1:K:99:LEU:HD12	2.01	0.41
1:L:100:LEU:HD12	1:L:115:LEU:HD11	2.03	0.41
1:L:95:GLN:N	1:L:95:GLN:HE21	2.12	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.50	0.41
2:M:1054:THR:HB	2:M:1055:LEU:H	1.57	0.41
2:M:139:GLN:HE21	2:M:334:ARG:NH1	2.03	0.41
2:M:305:PRO:HG3	2:M:308:ARG:CZ	2.51	0.41
2:M:383:ARG:NH2	8:M:1405:HOH:O	2.54	0.41
2:M:473:ARG:HE	2:M:531:PHE:HE1	1.67	0.41
2:M:549:PHE:HE2	2:M:887:GLU:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.85	0.41
3:N:1485:GLN:HG2	3:N:1485:GLN:H	1.69	0.41
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.52	0.41
3:N:131:LYS:HZ3	3:N:568:ARG:HB2	1.86	0.41
4:O:31:LEU:HD23	4:O:35:PHE:CD1	2.55	0.41
5:P:394:ARG:HA	5:P:397:ILE:CD1	2.37	0.41
1:B:9:PRO:HB3	1:B:25:LEU:HG	2.03	0.41
2:C:123:GLU:HA	8:C:1818:HOH:O	2.21	0.41
2:C:30:LEU:HB3	2:C:44:ILE:CD1	2.44	0.41
2:C:460:ARG:HD2	2:C:485:TYR:CD2	2.56	0.41
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.50	0.41
2:C:952:LEU:HB3	2:C:966:LEU:HD11	2.02	0.41
3:D:1136:LYS:HE3	3:D:1139:ASP:OD2	2.21	0.41
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.36	0.41
3:D:8:VAL:O	3:D:1434:TRP:HH2	2.04	0.41
3:D:1467:ILE:HD12	3:D:1467:ILE:H	1.86	0.41
3:D:587:ARG:HG2	8:D:9367:HOH:O	2.21	0.41
3:D:639:LEU:HD22	3:D:766:ALA:CA	2.50	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.74	0.41
3:D:842:VAL:C	8:D:9557:HOH:O	2.59	0.41
3:D:86:ARG:HG3	3:D:86:ARG:O	2.20	0.41
3:D:893:GLU:O	3:D:896:ALA:HB3	2.21	0.41
5:F:113:ILE:O	5:F:116:LEU:HB2	2.21	0.41
5:F:329:TYR:HE1	8:F:541:HOH:O	2.02	0.41
5:F:421:PHE:C	5:F:423:ASP:N	2.72	0.41
1:K:85:LEU:HB2	1:K:127:LEU:HD21	2.01	0.41
1:K:197:LEU:HD23	1:K:197:LEU:N	2.33	0.41
1:L:105:GLY:HA2	8:L:3583:HOH:O	2.19	0.41
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.55	0.41
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.21	0.41
1:L:51:THR:HG22	1:L:89:PHE:CZ	2.56	0.41
2:M:612:VAL:HG22	2:M:622:GLU:HG3	2.03	0.41
2:M:671:ASN:N	2:M:671:ASN:ND2	2.69	0.41
2:M:86:LYS:HG3	2:M:813:VAL:HG12	2.03	0.41
2:M:983:ILE:O	2:M:984:GLU:C	2.59	0.41
2:M:425:PHE:HZ	3:N:1079:LYS:HB2	1.86	0.41
3:N:1310:ARG:H	3:N:1310:ARG:HG2	1.61	0.41
3:N:500:ARG:HH22	3:N:1388:ARG:HD3	1.85	0.41
3:N:1422:MET:CE	3:N:1426:LYS:HG3	2.50	0.41
3:N:783:ARG:CZ	3:N:783:ARG:HB3	2.50	0.41
5:P:142:ARG:H	5:P:142:ARG:HG2	1.63	0.41

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:ILE:O	1:A:83:LYS:HG3	2.20	0.41
2:C:166:PRO:HD3	2:C:265:ARG:NE	2.33	0.41
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.50	0.41
2:C:895:TYR:HD1	2:C:991:GLN:NE2	2.16	0.41
2:C:919:ALA:HA	8:C:1456:HOH:O	2.19	0.41
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.21	0.41
3:D:783:ARG:NE	3:D:1029:ARG:NE	2.64	0.41
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.56	0.41
3:D:1110:ALA:O	3:D:1111:ASP:C	2.60	0.41
3:D:1300:SER:HB3	8:D:9222:HOH:O	2.20	0.41
3:D:1352:ILE:HG21	3:D:1368:ILE:CG2	2.48	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.03	0.41
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	2.03	0.41
3:D:127:LEU:CD1	3:D:461:ILE:HD11	2.42	0.41
3:D:461:ILE:O	3:D:465:LEU:HB2	2.19	0.41
3:D:463:GLN:O	3:D:467:GLU:HG3	2.21	0.41
3:D:470:LEU:HD22	3:D:499:VAL:HG13	2.01	0.41
3:D:667:ALA:HB2	3:D:676:MET:CE	2.38	0.41
8:B:347:HOH:O	3:D:688:TRP:HB3	2.19	0.41
3:D:710:ARG:NE	8:D:9123:HOH:O	2.54	0.41
3:D:827:ILE:HB	3:D:828:LYS:HD3	2.01	0.41
3:D:762:GLN:HE21	4:E:20:THR:CB	2.33	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.93	0.41
5:F:96:LEU:HB2	5:F:97:GLU:OE2	2.21	0.41
1:K:14:ARG:CG	1:K:22:GLU:HB2	2.49	0.41
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.51	0.41
2:M:1087:VAL:HG23	3:N:524:LEU:HD21	2.03	0.41
2:M:1097:LEU:HD22	2:M:1097:LEU:N	2.35	0.41
2:M:446:GLY:O	2:M:447:ALA:C	2.58	0.41
2:M:556:ASN:O	2:M:559:LEU:HB3	2.21	0.41
2:M:807:ARG:HB3	8:M:1400:HOH:O	2.21	0.41
2:M:833:LEU:CD1	2:M:837:ASP:HB2	2.51	0.41
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.21	0.41
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.21	0.41
3:N:1380:GLU:HB3	3:N:1418:LYS:HB2	2.02	0.41
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.20	0.41
3:N:33:ASN:O	3:N:36:THR:O	2.39	0.41
3:N:443:VAL:HG12	3:N:445:ARG:HD2	2.02	0.41
2:M:769:PRO:HB2	3:N:65:ARG:NH1	2.36	0.41
3:N:881:LEU:O	3:N:881:LEU:HD12	2.21	0.41
3:N:948:THR:HG22	3:N:949:ILE:N	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.86	0.41
2:C:1101:THR:OG1	2:C:1109:VAL:HG12	2.21	0.41
2:C:325:ILE:HA	8:C:1441:HOH:O	2.21	0.41
2:C:366:SER:O	2:C:371:LYS:HE3	2.20	0.41
2:C:881:ASN:ND2	8:C:1494:HOH:O	2.41	0.41
3:D:999:THR:O	3:D:1003:VAL:HG13	2.21	0.41
3:D:1353:GLN:OE1	3:D:1368:ILE:HD11	2.21	0.41
3:D:1365:ASP:O	3:D:1368:ILE:HG13	2.21	0.41
3:D:411:THR:HG23	8:D:9458:HOH:O	2.20	0.41
3:D:114:THR:HG21	3:D:498:VAL:HG11	2.01	0.41
3:D:569:ASN:O	3:D:573:MET:SD	2.78	0.41
3:D:631:ILE:HG21	3:D:745:MET:CG	2.51	0.41
3:D:65:ARG:CG	3:D:66:GLN:H	2.24	0.41
4:E:70:THR:HG21	4:E:72:ARG:NH2	2.36	0.41
5:F:109:GLY:O	5:F:113:ILE:HG13	2.21	0.41
5:F:352:GLU:O	5:F:356:LYS:HG3	2.21	0.41
5:F:84:TYR:O	5:F:88:ILE:HG13	2.20	0.41
1:K:100:LEU:HD12	8:K:3405:HOH:O	2.20	0.41
1:K:101:LEU:HG	1:K:113:ASP:C	2.40	0.41
1:K:132:LEU:HD12	1:K:132:LEU:N	2.36	0.41
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.19	0.41
2:M:1109:VAL:CG1	3:N:5:VAL:HG22	2.51	0.41
2:M:116:GLY:N	8:M:1773:HOH:O	2.54	0.41
2:M:134:ARG:HE	2:M:393:GLN:C	2.23	0.41
2:M:144:PRO:HB2	2:M:267:TYR:HE1	1.86	0.41
2:M:340:MET:SD	2:M:344:PHE:HB2	2.61	0.41
2:M:353:ARG:HB2	2:M:353:ARG:HE	1.66	0.41
2:M:593:ALA:HB2	8:M:1744:HOH:O	2.20	0.41
2:M:682:TYR:HB3	2:M:689:VAL:HG22	2.02	0.41
2:M:772:ARG:HG3	2:M:773:LEU:N	2.36	0.41
2:M:975:TYR:N	2:M:975:TYR:CD1	2.88	0.41
3:N:1068:LEU:O	3:N:1069:GLU:C	2.59	0.41
3:N:110:SER:OG	3:N:113:GLY:N	2.51	0.41
3:N:112:ILE:O	3:N:116:LEU:HB2	2.21	0.41
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.20	0.41
3:N:1168:MET:HE3	3:N:1171:VAL:HB	2.02	0.41
3:N:1223:ILE:O	3:N:1224:VAL:C	2.60	0.41
3:N:1330:ILE:HD13	3:N:1347:TYR:OH	2.21	0.41
3:N:774:SER:HB3	3:N:1362:LYS:O	2.21	0.41
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.67	0.41
3:N:212:ARG:HD3	3:N:445:ARG:NH1	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1118:LYS:HA	3:N:23:TYR:OH	2.21	0.41
3:N:243:ALA:HB3	8:N:9487:HOH:O	2.20	0.41
3:N:701:LEU:C	3:N:702:LEU:HD12	2.41	0.41
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.50	0.41
3:N:891:GLU:N	8:N:9462:HOH:O	2.54	0.41
5:P:261:PRO:HA	8:P:3364:HOH:O	2.20	0.41
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.89	0.41
5:P:367:MET:SD	5:P:367:MET:N	2.94	0.41
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.21	0.41
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.98	0.41
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.45	0.41
2:C:1037:VAL:O	2:C:1041:GLU:HG3	2.20	0.41
2:C:1092:LEU:HD22	2:C:1099:VAL:CG2	2.51	0.41
2:C:137:VAL:O	2:C:391:LEU:HD11	2.21	0.41
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.86	0.41
2:C:308:ARG:HH11	2:C:308:ARG:HG2	1.85	0.41
2:C:313:LEU:HB2	2:C:321:GLU:HG3	2.03	0.41
2:C:41:ASN:N	2:C:41:ASN:ND2	2.57	0.41
2:C:328:LEU:H	2:C:433:THR:HG21	1.86	0.41
2:C:474:VAL:HG23	2:C:478:VAL:O	2.21	0.41
2:C:759:THR:HB	2:C:785:VAL:CG2	2.50	0.41
3:D:1133:ARG:HG2	3:D:1134:LEU:N	2.35	0.41
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.51	0.41
3:D:1208:ASP:HB3	8:D:2063:HOH:O	2.21	0.41
3:D:120:ALA:HA	8:D:9188:HOH:O	2.20	0.41
3:D:1272:ALA:CB	3:D:1326:THR:HB	2.51	0.41
3:D:1342:GLU:HA	3:D:1346:ARG:NH2	2.36	0.41
3:D:135:LEU:HD11	3:D:139:GLY:HA3	2.02	0.41
3:D:1480:PHE:HD1	3:D:1480:PHE:O	2.02	0.41
3:D:393:ILE:HD12	3:D:393:ILE:N	2.32	0.41
3:D:804:LEU:N	8:D:9497:HOH:O	2.53	0.41
2:C:885:ILE:HD12	3:D:949:ILE:HB	2.02	0.41
5:F:160:ASP:O	5:F:163:LEU:HB2	2.22	0.41
5:F:192:LEU:O	5:F:196:VAL:HG23	2.21	0.41
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.20	0.41
1:K:100:LEU:O	1:K:115:LEU:HG	2.21	0.41
1:K:150:TYR:HA	1:K:169:ALA:O	2.21	0.41
1:L:150:TYR:HA	1:L:169:ALA:O	2.21	0.41
2:M:261:ILE:HG22	2:M:262:ALA:N	2.36	0.41
2:M:304:LEU:HG	2:M:305:PRO:N	2.36	0.41
2:M:525:SER:O	2:M:529:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:401:LEU:HD21	2:M:565:GLN:HE21	1.86	0.41
2:M:592:LEU:HA	2:M:592:LEU:HD23	1.85	0.41
2:M:755:LEU:HD11	2:M:792:VAL:HG22	2.03	0.41
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.51	0.41
3:N:1173:LEU:HA	8:N:9311:HOH:O	2.21	0.41
3:N:1301:LYS:HD2	3:N:1301:LYS:HA	1.89	0.41
3:N:501:ALA:HA	3:N:504:ASP:HB2	2.03	0.41
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.51	0.41
4:O:49:GLN:HA	4:O:51:LEU:O	2.21	0.41
1:A:95:GLN:CG	1:A:146:ARG:HH22	2.19	0.40
1:B:106:PRO:HG3	1:B:133:GLU:O	2.22	0.40
1:B:55:SER:OG	1:B:158:ILE:HB	2.21	0.40
2:C:1018:GLN:HE21	2:C:1060:ILE:CD1	2.34	0.40
2:C:124:ASP:OD1	2:C:126:SER:N	2.48	0.40
2:C:13:ILE:HG13	2:C:458:TYR:HE2	1.86	0.40
2:C:722:ILE:HD12	2:C:805:ARG:NH2	2.36	0.40
2:C:897:LEU:HD21	2:C:920:GLN:HB3	2.02	0.40
3:D:1047:LYS:HE3	3:D:1051:GLU:HB2	2.03	0.40
3:D:1068:LEU:O	3:D:1068:LEU:HD23	2.21	0.40
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.18	0.40
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.87	0.40
3:D:1330:ILE:HD12	3:D:1347:TYR:HE1	1.86	0.40
3:D:613:ARG:HA	3:D:613:ARG:HD2	1.83	0.40
3:D:900:ILE:O	3:D:900:ILE:HD12	2.21	0.40
3:D:936:TYR:HD1	8:D:9501:HOH:O	2.03	0.40
3:D:988:ARG:O	3:D:992:ILE:HG13	2.20	0.40
5:F:115:LYS:HG3	5:F:173:TYR:CE2	2.56	0.40
5:F:272:SER:O	5:F:276:ARG:HG3	2.21	0.40
5:F:339:PRO:HB3	5:F:343:ASP:HB2	2.02	0.40
1:L:152:PRO:HD2	1:L:155:LYS:CD	2.47	0.40
1:L:145:ASP:O	1:L:171:PHE:HE1	2.05	0.40
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.85	0.40
2:M:1043:TYR:HA	3:N:710:ARG:NH1	2.35	0.40
2:M:1115:LEU:N	2:M:1115:LEU:CD1	2.78	0.40
2:M:133:ASP:OD2	2:M:133:ASP:N	2.54	0.40
2:M:299:LYS:HG3	8:M:1137:HOH:O	2.21	0.40
2:M:415:PRO:HB2	2:M:418:LEU:CD1	2.52	0.40
2:M:419:THR:HA	2:M:420:ARG:NH1	2.35	0.40
2:M:510:ALA:CB	8:M:1203:HOH:O	2.67	0.40
2:M:575:GLN:HG2	2:M:662:GLU:OE2	2.21	0.40
2:M:753:ASP:O	2:M:792:VAL:HG23	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:920:GLN:HG3	8:M:1705:HOH:O	2.21	0.40
3:N:1209:LEU:C	3:N:1211:MET:N	2.75	0.40
3:N:122:GLU:OE1	3:N:126:VAL:HG23	2.21	0.40
3:N:1426:LYS:NZ	3:N:1430:SER:OG	2.54	0.40
3:N:558:LEU:HB2	8:N:9625:HOH:O	2.21	0.40
3:N:650:LEU:CD1	3:N:691:LEU:HD22	2.51	0.40
3:N:866:VAL:CG1	3:N:867:ARG:N	2.84	0.40
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.44	0.40
2:C:367:LEU:CA	2:C:371:LYS:HB2	2.52	0.40
2:C:536:PRO:HD2	2:C:537:LYS:HD2	2.03	0.40
2:C:668:LEU:O	2:C:993:PHE:CZ	2.74	0.40
2:C:707:ARG:O	2:C:707:ARG:HG2	2.20	0.40
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.40
2:C:987:ILE:N	2:C:987:ILE:HD12	2.36	0.40
2:C:971:LYS:HB3	2:C:988:VAL:N	2.36	0.40
3:D:1047:LYS:HE3	3:D:1051:GLU:O	2.22	0.40
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.84	0.40
3:D:118:LEU:CB	3:D:123:LEU:HD22	2.38	0.40
3:D:592:THR:H	3:D:600:LEU:HD21	1.86	0.40
3:D:613:ARG:HG3	8:D:9002:HOH:O	2.21	0.40
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.20	0.40
3:D:637:LEU:HD21	3:D:642:CYS:CA	2.47	0.40
5:F:124:PRO:O	5:F:128:ARG:HB2	2.21	0.40
5:F:278:LEU:HB2	5:F:286:PRO:HG2	2.02	0.40
1:K:51:THR:HA	1:K:145:ASP:O	2.20	0.40
1:K:59:GLU:HG3	1:K:139:ASN:O	2.21	0.40
1:L:101:LEU:HG	1:L:113:ASP:O	2.21	0.40
1:L:180:GLN:HB2	1:L:198:ARG:NH2	2.22	0.40
1:L:211:LEU:O	1:L:214:ALA:HB3	2.21	0.40
1:L:91:ASN:O	1:L:94:LEU:HD12	2.20	0.40
2:M:1031:ARG:HD3	8:M:1668:HOH:O	2.21	0.40
2:M:1049:LEU:HG	2:M:1053:LEU:CD1	2.51	0.40
2:M:250:ARG:HG2	2:M:253:ALA:CB	2.46	0.40
2:M:455:LEU:O	2:M:541:SER:HB2	2.21	0.40
2:M:602:GLU:HG2	2:M:603:VAL:H	1.86	0.40
2:M:904:PRO:HG3	8:M:1508:HOH:O	2.21	0.40
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.57	0.40
3:N:1280:VAL:HG13	3:N:1316:GLY:O	2.21	0.40
3:N:138:LYS:HB2	3:N:138:LYS:HE3	1.87	0.40
3:N:156:GLU:O	3:N:159:ARG:HB3	2.21	0.40
3:N:432:TYR:HA	3:N:448:GLU:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:488:ARG:HH22	3:N:491:LYS:HZ1	1.70	0.40
3:N:13:ALA:O	3:N:511:TRP:HB3	2.21	0.40
3:N:948:THR:HB	8:N:9352:HOH:O	2.20	0.40
2:M:988:VAL:HG11	3:N:949:ILE:O	2.21	0.40
3:N:1480:PHE:O	4:O:18:ARG:NH2	2.55	0.40
5:P:220:LEU:HB2	5:P:243:ILE:HD11	2.03	0.40
8:M:1148:HOH:O	5:P:276:ARG:HD3	2.19	0.40
5:P:361:LEU:HD13	5:P:366:ALA:HB1	2.03	0.40
1:B:218:LEU:O	1:B:222:LEU:HG	2.21	0.40
1:B:39:PRO:O	1:B:43:ILE:HG12	2.21	0.40
2:C:1001:VAL:HG23	8:C:1823:HOH:O	2.21	0.40
2:C:440:PRO:HG2	2:C:441:VAL:HG23	2.02	0.40
2:C:75:GLU:HA	2:C:76:PRO:HD3	1.89	0.40
3:D:105:VAL:HG21	3:D:128:TYR:HE2	1.86	0.40
3:D:1167:SER:N	3:D:1170:ASP:OD2	2.48	0.40
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.57	0.40
3:D:1293:PHE:HD2	8:D:9222:HOH:O	2.03	0.40
3:D:1314:LYS:HZ1	3:D:1317:ASP:CB	2.34	0.40
3:D:1320:GLU:HG2	3:D:1339:LYS:NZ	2.36	0.40
3:D:1497:GLU:OE1	3:D:1500:LYS:HD2	2.21	0.40
3:D:150:ARG:O	3:D:150:ARG:HG2	2.20	0.40
3:D:27:GLU:O	3:D:28:LYS:HD2	2.21	0.40
3:D:646:LYS:HD3	8:D:2059:HOH:O	2.22	0.40
3:D:884:ARG:O	3:D:888:GLU:N	2.53	0.40
3:D:455:ARG:HH22	5:F:140:ARG:HD3	1.86	0.40
5:F:312:GLN:NE2	8:F:455:HOH:O	2.48	0.40
1:K:127:LEU:HD12	1:K:127:LEU:C	2.42	0.40
1:K:67:THR:OG1	2:M:627:ARG:NH2	2.53	0.40
1:L:100:LEU:HB2	1:L:115:LEU:CD2	2.49	0.40
2:M:167:LYS:HD2	2:M:168:ARG:NH1	2.35	0.40
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.51	0.40
2:M:621:VAL:HG13	8:M:1199:HOH:O	2.20	0.40
3:N:951:ILE:HD12	3:N:1062:ARG:NE	2.37	0.40
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.28	0.40
3:N:1266:ARG:NH2	8:N:9590:HOH:O	2.54	0.40
3:N:396:VAL:CG1	3:N:447:VAL:HA	2.52	0.40
3:N:461:ILE:O	3:N:465:LEU:HB2	2.22	0.40
3:N:608:SER:O	3:N:615:ARG:NH1	2.54	0.40
3:N:85:VAL:HG12	3:N:89:ARG:CZ	2.51	0.40
3:N:861:GLN:H	3:N:861:GLN:CD	2.25	0.40
3:N:868:TYR:HB3	8:N:9527:HOH:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:875:THR:CG2	3:N:879:ARG:HE	2.33	0.40
4:O:59:ASN:HB3	4:O:62:THR:OG1	2.22	0.40
5:P:109:GLY:O	5:P:112:ALA:HB3	2.21	0.40
5:P:249:ARG:NH2	8:P:2663:HOH:O	2.52	0.40
5:P:273:ARG:HG3	8:P:2904:HOH:O	2.20	0.40
5:P:76:SER:O	5:P:80:PRO:CD	2.66	0.40
1:B:123:MET:O	1:B:125:PRO:HD3	2.21	0.40
1:B:180:GLN:HG3	1:B:196:THR:OG1	2.21	0.40
1:B:54:THR:CG2	1:B:158:ILE:HG13	2.50	0.40
2:C:150:PRO:HB2	8:C:1325:HOH:O	2.21	0.40
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.51	0.40
2:C:251:ASP:C	2:C:252:LYS:HD2	2.42	0.40
2:C:329:GLY:HA3	8:C:1467:HOH:O	2.21	0.40
2:C:367:LEU:HA	2:C:371:LYS:HB2	2.02	0.40
2:C:432:ARG:NE	2:C:519:GLY:HA3	2.37	0.40
2:C:730:SER:N	8:C:1699:HOH:O	2.54	0.40
2:C:871:LEU:HA	2:C:871:LEU:HD23	1.79	0.40
3:D:191:LEU:HB2	3:D:211:VAL:CG2	2.51	0.40
3:D:216:VAL:HG11	8:D:9324:HOH:O	2.22	0.40
3:D:500:ARG:HA	3:D:500:ARG:HD3	1.86	0.40
3:D:53:ILE:O	3:D:53:ILE:HG12	2.22	0.40
3:D:639:LEU:CD1	3:D:640:HIS:H	2.35	0.40
3:D:755:ALA:HA	3:D:758:GLU:OE2	2.21	0.40
4:E:57:ASP:N	4:E:58:PRO:HD3	2.37	0.40
5:F:225:GLU:OE1	5:F:226:LYS:HG2	2.21	0.40
5:F:325:LYS:HB2	8:F:519:HOH:O	2.22	0.40
5:F:359:SER:C	5:F:361:LEU:H	2.23	0.40
1:L:44:LEU:O	1:L:174:VAL:HG21	2.20	0.40
2:M:331:ARG:HG3	8:M:1502:HOH:O	2.22	0.40
2:M:496:ILE:HD12	2:M:496:ILE:N	2.36	0.40
2:M:478:VAL:HG13	2:M:506:ASN:ND2	2.36	0.40
2:M:507:ARG:NH1	8:M:1728:HOH:O	2.53	0.40
2:M:614:ARG:HG2	8:M:1443:HOH:O	2.20	0.40
2:M:666:LEU:HD12	2:M:667:ALA:N	2.35	0.40
2:M:724:ARG:O	2:M:734:LEU:HD11	2.22	0.40
2:M:908:GLY:C	2:M:910:LYS:HZ3	2.24	0.40
3:N:951:ILE:HD12	3:N:1062:ARG:HE	1.85	0.40
3:N:1103:HIS:CG	3:N:1104:GLU:N	2.90	0.40
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.40	0.40
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	2.02	0.40
3:N:159:ARG:NH1	3:N:159:ARG:HB2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:474:GLU:OE1	3:N:500:ARG:NE	2.54	0.40
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.21	0.40
3:N:774:SER:C	3:N:776:GLU:N	2.75	0.40
3:N:970:LYS:O	3:N:974:ILE:HG13	2.21	0.40
3:N:99:ALA:HB1	3:N:575:GLN:CD	2.42	0.40
5:P:401:GLU:O	5:P:405:LEU:HD13	2.21	0.40
1:A:111:ALA:HB3	1:A:124:ASN:O	2.21	0.40
1:B:117:VAL:HG11	8:B:346:HOH:O	2.21	0.40
1:B:150:TYR:HA	1:B:169:ALA:O	2.21	0.40
1:B:61:VAL:HG11	1:B:75:VAL:HG21	2.03	0.40
2:C:585:GLU:HG2	2:C:665:PHE:HD2	1.87	0.40
2:C:693:GLU:OE1	2:C:696:LYS:HG3	2.22	0.40
2:C:966:LEU:HD12	2:C:966:LEU:HA	1.96	0.40
3:D:1161:GLU:HG2	3:D:1161:GLU:H	1.67	0.40
3:D:1320:GLU:HG3	8:D:9376:HOH:O	2.20	0.40
3:D:135:LEU:HD21	3:D:138:LYS:C	2.42	0.40
3:D:417:PRO:HB2	8:D:9616:HOH:O	2.21	0.40
3:D:570:GLU:OE2	3:D:573:MET:HE2	2.22	0.40
3:D:101:HIS:CE1	3:D:582:LEU:HD22	2.57	0.40
3:D:602:SER:O	3:D:606:ILE:HG12	2.22	0.40
5:F:421:PHE:C	5:F:423:ASP:H	2.25	0.40
1:K:57:TYR:CD2	1:K:161:ARG:NH1	2.90	0.40
1:K:26:GLU:HB2	1:K:27:PRO:HA	2.04	0.40
1:K:64:GLU:OE2	1:K:76:VAL:HG22	2.22	0.40
2:M:1008:ARG:NH2	2:M:1020:PRO:HB3	2.37	0.40
2:M:211:LEU:HD21	2:M:311:PHE:HE1	1.87	0.40
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.22	0.40
2:M:480:THR:HG22	2:M:481:ASP:H	1.86	0.40
2:M:513:VAL:HG12	8:M:1272:HOH:O	2.21	0.40
3:N:1102:THR:O	3:N:1102:THR:HG22	2.21	0.40
3:N:1422:MET:HE1	3:N:1426:LYS:HG3	2.02	0.40
3:N:14:SER:O	3:N:17:LYS:N	2.54	0.40
3:N:789:LEU:HA	3:N:789:LEU:HD23	1.84	0.40
3:N:960:LYS:HG2	3:N:964:LEU:HD12	2.04	0.40
5:P:315:VAL:HA	8:P:4638:HOH:O	2.21	0.40
5:P:348:SER:N	8:P:4815:HOH:O	2.53	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 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%)	202 (89%)	21 (9%)	4 (2%)	8	28
1	B	227/315 (72%)	202 (89%)	21 (9%)	4 (2%)	8	28
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	8	28
1	L	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	8	28
2	C	1117/1119 (100%)	917 (82%)	150 (13%)	50 (4%)	2	8
2	M	1117/1119 (100%)	907 (81%)	159 (14%)	51 (5%)	2	7
3	D	1388/1524 (91%)	1123 (81%)	191 (14%)	74 (5%)	2	6
3	N	1388/1524 (91%)	1110 (80%)	195 (14%)	83 (6%)	1	4
4	E	93/99 (94%)	74 (80%)	16 (17%)	3 (3%)	4	13
4	O	93/99 (94%)	75 (81%)	15 (16%)	3 (3%)	4	13
5	F	341/423 (81%)	283 (83%)	42 (12%)	16 (5%)	2	7
5	P	341/423 (81%)	285 (84%)	40 (12%)	16 (5%)	2	7
All	All	6786/7590 (89%)	5582 (82%)	892 (13%)	312 (5%)	2	7

All (312) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

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

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Mol	Chain	Res	Type
3	N	136	ASP
3	N	368	VAL
3	N	521	PRO
3	N	1050	GLY
3	N	509	PRO
2	C	166	PRO

### 5.3.2 Protein sidechains ⓘ

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

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

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

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

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

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

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

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

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

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

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

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Mol	Chain	Res	Type
2	C	870	ILE
2	C	878	SER
2	C	881	ASN
2	C	882	LEU
2	C	886	LEU
2	C	900	ARG
2	C	901	TYR
2	C	904	PRO
2	C	907	ASP
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	948	GLU
2	C	950	LEU
2	C	953	VAL
2	C	959	PRO
2	C	969	GLN
2	C	971	LYS
2	C	975	TYR
2	C	978	ARG
2	C	981	GLU
2	C	982	PRO
2	C	984	GLU
2	C	988	VAL
2	C	995	MET
2	C	1006	HIS
2	C	1008	ARG
2	C	1016	ILE
2	C	1017	THR
2	C	1019	GLN
2	C	1021	LEU
2	C	1035	MET
2	C	1052	MET
2	C	1076	VAL
2	C	1079	PRO
2	C	1085	PHE
2	C	1087	VAL
2	C	1092	LEU
2	C	1095	LEU
2	C	1098	ASP
2	C	1103	ASP
2	C	1104	GLU

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Mol	Chain	Res	Type
2	C	1106	ASP
2	C	1109	VAL
2	C	1115	LEU
3	D	3	LYS
3	D	6	ARG
3	D	12	LEU
3	D	17	LYS
3	D	25	GLU
3	D	27	GLU
3	D	29	PRO
3	D	30	GLU
3	D	32	ILE
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	48	ARG
3	D	56	TYR
3	D	58	CYS
3	D	62	LYS
3	D	71	LYS
3	D	74	GLU
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL
3	D	86	ARG
3	D	87	ARG
3	D	89	ARG
3	D	90	MET
3	D	97	THR
3	D	101	HIS
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	117	ASP
3	D	118	LEU
3	D	121	THR
3	D	133	ILE
3	D	136	ASP
3	D	145	VAL
3	D	148	GLU

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Res	Type
1	A	16	GLN
1	A	38	ASN
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN

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

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

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

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

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Mol	Chain	Res	Type
5	P	191	ASN
5	P	217	ASN
5	P	218	GLN
5	P	269	ASN
5	P	337	HIS
5	P	399	GLN

### 5.3.3 RNA ⓘ

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers ⓘ

There are no such residues in this entry.

## 5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	229/315 (72%)	-0.38	0 100 100	38, 65, 92, 117	0
1	B	229/315 (72%)	-0.27	8 (3%) 44 34	53, 95, 115, 121	0
1	K	229/315 (72%)	-0.37	0 100 100	41, 66, 93, 122	0
1	L	229/315 (72%)	-0.39	3 (1%) 77 72	52, 94, 114, 127	0
2	C	1119/1119 (100%)	-0.35	8 (0%) 87 84	23, 81, 110, 119	0
2	M	1119/1119 (100%)	-0.39	6 (0%) 91 88	27, 79, 109, 122	0
3	D	1392/1524 (91%)	-0.33	12 (0%) 84 80	17, 68, 113, 130	0
3	N	1392/1524 (91%)	-0.35	16 (1%) 80 75	27, 69, 110, 138	0
4	E	95/99 (95%)	-0.35	0 100 100	47, 85, 115, 133	0
4	O	95/99 (95%)	-0.49	1 (1%) 80 75	40, 76, 97, 111	0
5	F	345/423 (81%)	-0.40	3 (0%) 84 80	46, 84, 112, 131	0
5	P	345/423 (81%)	-0.39	5 (1%) 75 70	54, 87, 112, 125	0
All	All	6818/7590 (89%)	-0.36	62 (0%) 84 80	17, 77, 111, 138	0

All (62) RSRZ outliers are listed below:

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

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

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Mol	Chain	Res	Type	RSRZ
3	D	127	LEU	2.1
5	F	93	LEU	2.1
2	C	153	ALA	2.1
3	D	1245	GLY	2.1
3	D	505	SER	2.1
1	B	61	VAL	2.1
3	D	177	ALA	2.0
3	N	425	GLY	2.0
3	D	1305	LEU	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
7	MG	N	9002	1/1	0.94	0.13	64,64,64,64	0
7	MG	D	9001	1/1	0.97	0.15	67,67,67,67	0
6	ZN	N	7113	1/1	0.98	0.10	87,87,87,87	0
6	ZN	D	7058	1/1	0.98	0.07	109,109,109,109	0
6	ZN	D	7112	1/1	0.99	0.14	75,75,75,75	0
6	ZN	N	7059	1/1	0.99	0.11	100,100,100,100	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.