



Full wwPDB X-ray Structure Validation Report

Feb 28, 2014 – 12:59 PM GMT

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 validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

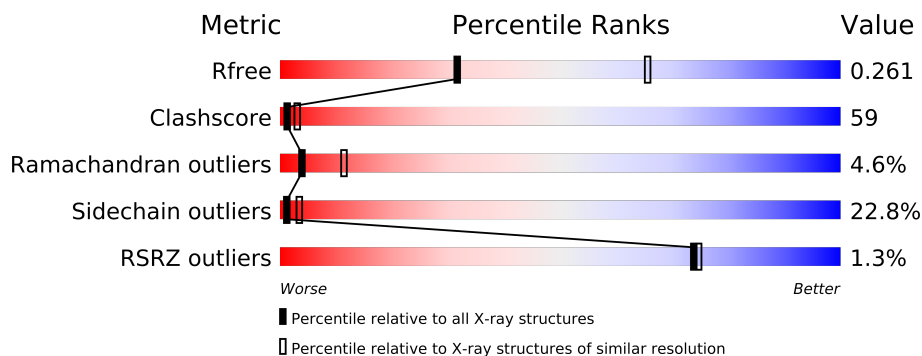
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

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}	66092	1799 (2.80-2.80)
Clashscore	79885	2295 (2.80-2.80)
Ramachandran outliers	78287	2252 (2.80-2.80)
Sidechain outliers	78261	2254 (2.80-2.80)
RSRZ outliers	66119	1802 (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 ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	315	
1	B	315	
1	K	315	
1	L	315	
2	C	1119	
2	M	1119	
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

2 Entry composition

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

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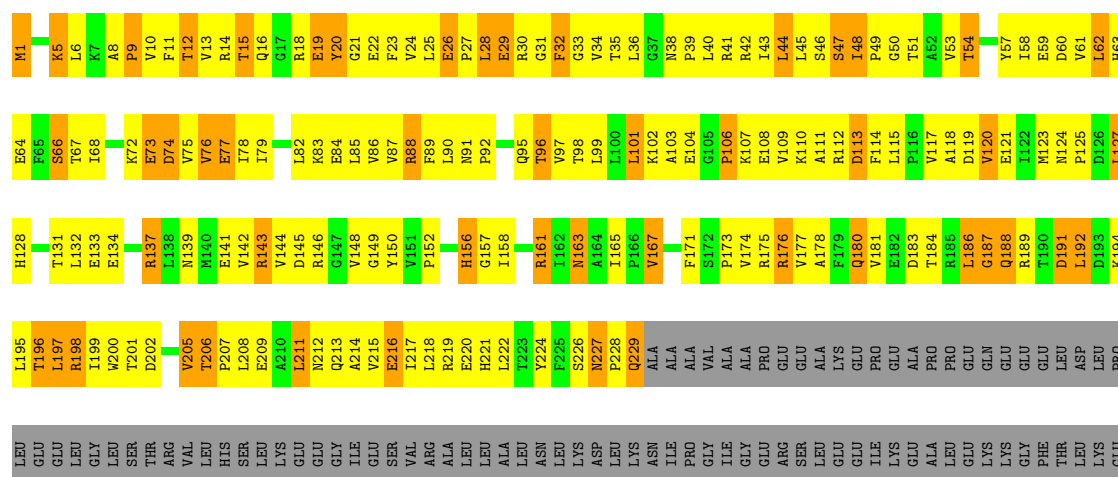
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	N	1038	Total 1038	O 1038	0	0
8	O	78	Total 78	O 78	0	0
8	P	267	Total 267	O 267	0	0

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

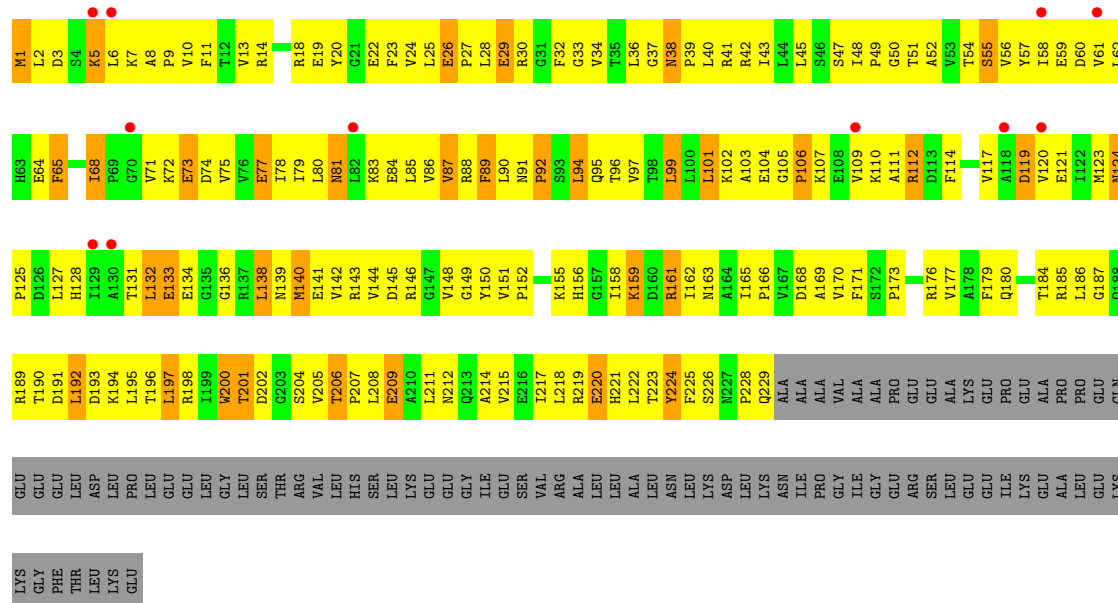
- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain A:



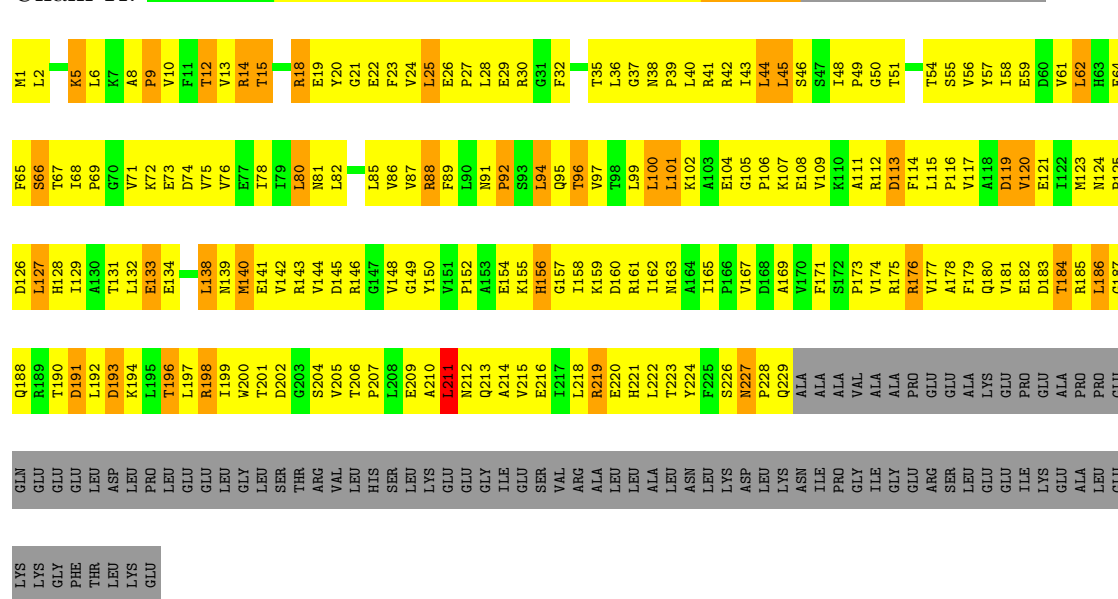
- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain B:



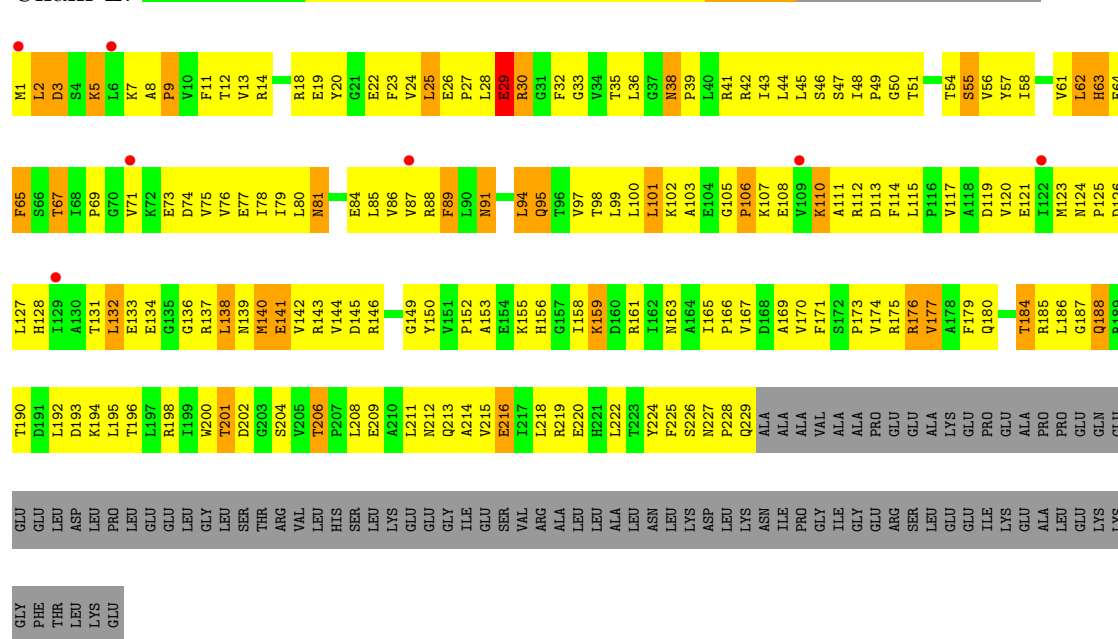
- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain K:



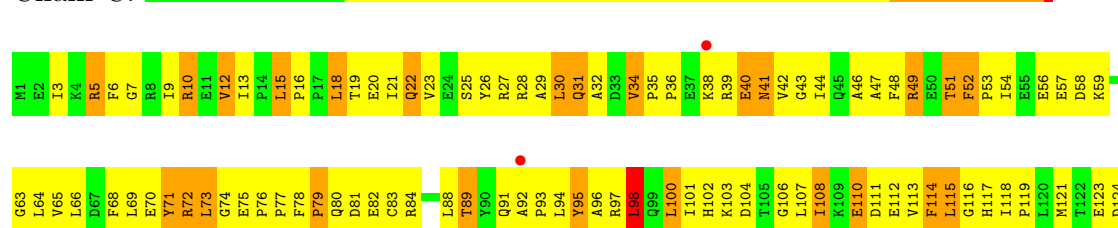
- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L:



- Molecule 2: DNA-directed RNA polymerase beta chain

Chain C:



E1083	L1015	L952	V825	L754	L634	A568	G505	P444	A380	V317	R250	M187	G125
S1094	L1016	V953	Y826	L755	T635	V569	M506	E445	A381	V318	D251	K188	S126
F1085	L1017	T954	A828	L756	A636	P570	R507	G446	R382	G319	K252	R189	F127
Q1018	Q1018	P955	A827	R758	L637	L571	T508	A447	R383	G320	V254	K190	I128
V1087	Q1019	G956	R831	T759	D638	R572	A510	I449	F385	R321	A255	L193	I129
P1020	P1020	K957	K832	T760	D639	R573	A511	G450	F386	E321	Y256	V194	D133
L1021	L1021	T958	L833	F761	P641	Q875	R512	L451	S387	T325	Y257	L195	R134
K1030	K1030	P959	Q834	T768	R642	A576	V513	L452	R388	D326	Y258	L196	V135
E1091	E1091	G998	R835	T769	V643	W514	A515	S454	L391	R327	Y259	L197	R136
L1092	Q1026	Q962	G836	T770	V644	V578	A516	S455	L392	L328	L260	R198	V137
Q1093	Q1027	L963	D837	T771	V645	V579	R517	L456	S392	G329	L261	V199	S138
A1094	G1028	R964	K838	T772	G646	M580	B517	A456	Q393		A262	L200	Q139
L1095	G1029	L965	L839	L773	Q647		K518	A457	F394	R332	D263	G291	I140
A1096	E1030	L966	A840	L774	R648		G519	A458	K395	T333	P264	Y202	H141
D1098	R1031	F967	R841	L775	V649	E584	E709	A459	R396	R334	R265	D203	R142
F1099	F1032	Q968	R842	T776	R650	E585	P521	A460	E397	T335	R266	Q204	S143
Q1100	G1033	Q969	H843	T777	K651	R586	V522	V461	T398	V336	Y267	Q205	P144
T1101	E1034	G970	G844	F778	D652	V587	I523	D462	N399	G337	D268	T206	G145
L1102	M1035	K971	R845	G779	D653	R588	V524	E463	P400	E338	L269	L207	V146
D1103	E1036		K846	T780	L654	R889	S525	L464	L401	L339	G270	A208	Y147
F1106	V1037	L974	G847	K781	L655	S590	P526	G465	S402	K341	E271	R209	F148
V1108	M1038	Y975	V848		A656	S591	E527	F466	S403	G340	A272	G273	T149
L1110	Q1039	D976	V849	D784	D657	L592	E528	I467	L404	D342	R274	G212	P150
F1112	L1040	G977		D785	G658		V529	R468	R405	Q343	R274	D151	D151
Q1113	E1041	R978	L853	K786	P659	L595	E530	T469	H406	F344	Y275	A213	P152
G1114	H1047	E984	P854	D787	A660	T596	F531	P470	K407	R345	K276	Y214	A153
L1115	L1048	G985	V855	T788	S661	T597	M532	Y471	R408	V346	E279	E216	R154
R1119	Q1050	P986	E856	S789	E662	E598	D533	R472	R409	G347	E279	K280	G156
	E1051	Y925	D863	T790	N683	G801	V534	V474	S411	L348	L281	V218	R157
	M1052	V988	R864	T791	G664	E802	S535	V475	A412	R350	G282	G219	G158
	L1053	G990	T865	T792	D725	E803	P536		L413	L351	G282	G220	I159
	L1054	Q991	P866	G798	D726	V603	K537		G414	A352	L283	M221	S161
	L1055	P992	G864	T799	H728	K605	Q538		P415	G416	L285	M222	I162
	L1056	F993	P867	R802	S730	D607	V542		G417	R355	G286	D223	I163
	S1057	I994	D868	T803	A732	N609	L546		L418	R356	G287	E224	P164
	D1058	M995	R869	V804	L673	I611	I547		T419	R358	R388	V226	L165
	D1059	K996	L870	R805	V682	V612	F549		R420	N359	L290	A228	P166
	L1060	L997	T871	R808	L677	V613	L550		R422	K361	R292	M229	R168
	E1061		M872	G809	P678	Y615	E551		F435	G362	R293	R230	G169
	L1062	V1001	P873	D810	F679	Y615	H552		R428	S363		P231	P170
	R1063	D1002	L874	P811	D680	L620	D553		E364	E364	K299	E232	W171
	A1066	D1003	G875	G812	V681	V621	D554		R429	D365	D300	E233	I172
	Y1067	E940	P877	V813	Y682	E622	A555		D429	S366	E301	A234	D173
	H1005	V941	R878	E814	N683	Y623	N556		V430	L367	V302	L235	L174
	L1006	E942	R879	L815	F684	P624	R557		H431	T368	F303	T236	E175
	M1006	V943	R879	T816	E685	L625	A558		R432	A370	L304	R237	V176
	A1007	L944	P817	G818	D686	R626	L559		T433	K371	P305	L238	E177
	R1008	R945	N881	G818	A687	R627	M560		H434	L372	T306	P239	P178
	S1009	R946	V819	V819	A747	Y628	G561		Y435	L372	L307	T240	N179
	T1010	L947	R820	T748	V689	Y629	S562		G436	V373	R308	L241	G180
	G1011	E948	Q884	E749	V689	R630	N563		R437	N374	Y309	L242	V181
	P1012	K949	L885	E821	L690	S632	M564		P440	R376	F311	P244	S183
	Y1013	L950	V822	P751	S691	N532	G565		V441	P377	A312	G245	M184
	S1014	G951	R824	D753	E693	Q633	D567		T443	L378	E442	D246	K185

- Molecule 2: DNA-directed RNA polymerase beta chain

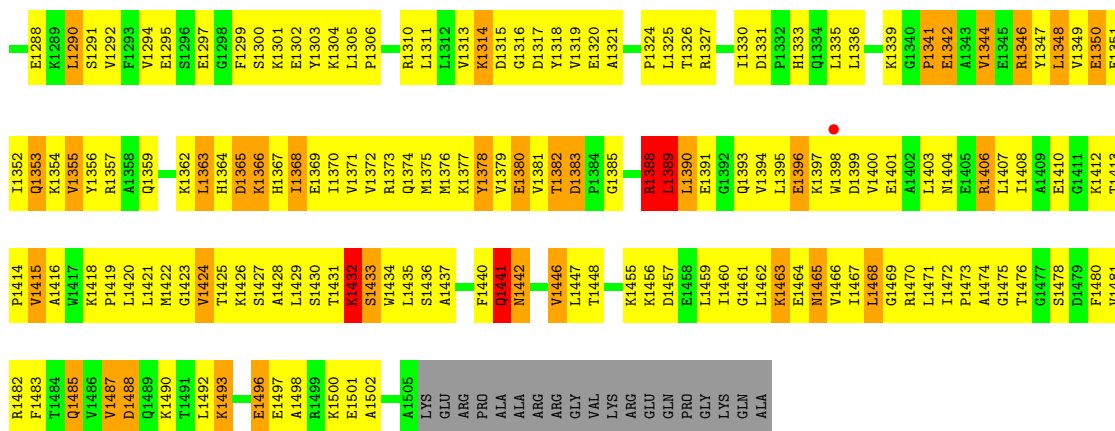
Chain M: 

R978	R979	G980	E981	P982	P983	E984	G985	P986	P987	P988	P989	G990	Q991	P992	P993	P994	M995	K996	L997	H998	M1000	V1001	E1002	D1003	K1004	M1005	L1006	A1007	R1008	S1009	P1012	Y1013	S1014	L1015	L1016	T1017	Q1018	Q1019	P1020	L1021	K1024	F1027	Q1030	R1031	F1032	G1033	E1034	M1035	L1036	V1037	V1038	A1039	L1040	E1041																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
D907	G908	L909	A910	E911	P912	E913	G914	K915	E916	L917	L918	A919	Q920	A921	E922	E923	G924	D925	P926	K927	H928	V929	E930	E931	E932	E933	E934	E935	E936	E937	E938	E939	E940	E941	E942	E943	E944	E945	E946	E947	E948	E949	E950	E951	E952	E953	E954	E955	E956	E957	E958	E959	E960	E961	E962	E963	E964	E965	E966	E967	E968	E969	E970																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
D937	K938	L939	A940	E941	P942	E943	G944	K945	E946	L947	L948	A949	Q950	A951	E952	E953	E954	D955	P956	K957	H958	V959	E960	E961	E962	E963	E964	E965	E966	E967	E968	E969	E970	E971	E972	E973	E974	E975	E976	E977	E978	E979	E980	E981	E982	E983	E984	E985	E986	E987	E988	E989	E990	E991	E992	E993	E994	E995	E996	E997	E998	E999	E1000	E1001	E1002	E1003	E1004	E1005	E1006	E1007	E1008	E1009	E1010	E1011	E1012	E1013	E1014	E1015	E1016	E1017	E1018	E1019	E1020	E1021	E1022	E1023	E1024	E1025	E1026	E1027	E1028	E1029	E1030	E1031	E1032	E1033	E1034	E1035	E1036	E1037	E1038	E1039	E1040	E1041																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
E771	R772	L773	L774	R775	R776	L777	F778	F779	E780	K781	E782	R783	E784	F785	E786	E787	E788	E789	L790	R791	F792	F793	F794	G795	E796	E797	E798	E799	E800	E801	E802	E803	E804	E805	E806	E807	E808	E809	E810	E811	E812	E813	K814	P815	G816	G817	G818	G819	G820	G821	G822	G823	G824	G825	G826	G827	G828	G829	G830	G831	G832	G833	G834	G835	G836	G837	G838	G839	G840	G841	G842	G843	G844	G845	G846	G847	G848	G849	G850	G851	G852	G853	G854	G855	G856	G857	G858	G859	G860	G861	G862	G863	G864	G865	G866	G867	G868	G869	G870	G871	G872	G873	G874	G875	G876	G877	G878	G879	G880	G881	G882	G883	G884	G885	G886	G887	G888	G889	G890	G891	G892	G893	G894	G895	G896	G897	G898	G899	G900	G901	G902	G903	G904	G905	G906	G907	G908	G909	G910	G911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	G927	G928	G929	G930	G931	G932	G933	G934	G935	G936	G937	G938	G939	G940	G941	G942	G943	G944	G945	G946	G947	G948	G949	G950	G951	G952	G953	G954	G955	G956	G957	G958	G959	G960	G961	G962	G963	G964	G965	G966	G967	G968	G969	G970	G971	G972	G973	G974	G975	G976	G977	G978	G979	G980	G981	G982	G983	G984	G985	G986	G987	G988	G989	G990	G991	G992	G993	G994	G995	G996	G997	G998	G999	E1000	E1001	E1002	E1003	E1004	E1005	E1006	E1007	E1008	E1009	E1010	E1011	E1012	E1013	E1014	E1015	E1016	E1017	E1018	E1019	E1020	E1021	E1022	E1023	E1024	E1025	E1026	E1027	E1028	E1029	E1030	E1031	E1032	E1033	E1034	E1035	E1036	E1037	E1038	E1039	E1040	E1041																																																																																																																																																																																																																																																																																																																														
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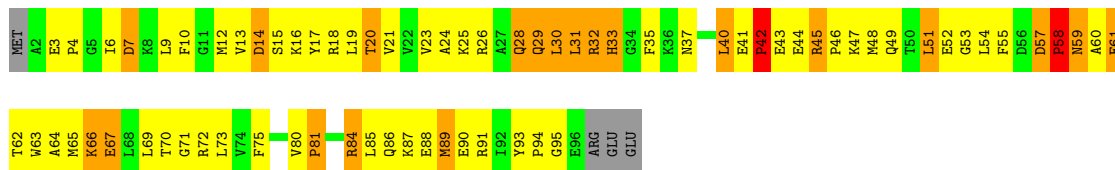


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A1225	R1151	A1089		D952	I885	A822	Q756	L691	V630	R568	N507	V446	VAL	VAL
		D1090	S1026	D953	V886	L823		E692	I631	N569	R508	V447	ALA	VAL
	L1156	G1091	A1028	A954	A887	N824	A759	E694	V632	E570	P509	E448	H388	LEU
G1230	L1160	X1093	R1029	V955	E888	R826	R760	V694	V635	K571	E510	S449	GLN	LEU
E1231	E1161	T1094	G1036	I956	A889	L827	I761	I695	G634	R572	P511	Y450	VAL	LYS
P1232	E1162	L1095	M1031	P957	V890	L827	Q762	R696	P635	M573	M512	D451	GLU	GLU
G1233	E1163	R1096	P1032	E958	E891	K828	M763	K697	Q636	L574	T513	I452	ALA	LEU
T1234	G1163	K1097	K1033	E959	R892	R829	L764	K698	L637	Q575	L514	D453	GLU	GLU
L1235	Y1165	L1098	Q1034	K961	K894	A831	S765	V699	K638	E576	E515	A454	GLU	GLU
T1236	L1166	X1099	I1035	Q962	V895	R832	A766	V700	L639	A577	A516	R455	GLY	GLY
M1238	S1167	D1100	R1036	Y963	A896	E833	H767	L701	H640	V578	V517	R456	ALA	ALA
R1239	M1168	V1101	Q1037	R964	A897	T834	L770	L702	Q641	D579	P518	K397	GLY	PHE
T1240	V1102	T1102	L1038	E965	E898	R835		M703	G642	A580	V519	E459	GLU	LEU
F1241	V1171	H1103	C1039	E966	R899	R704		R704	L581	R399	L520	A460	THR	VAL
H1242	H1172	E1104	G1040	D968	I900	R837	S774	A705	L582	V400	P521	I461	TYR	LEU
T1243	L1173	L1105	L1041	R969	Q901	R838	E776	T707	D583	Y401	P522	Q462	ARG	ARG
G1244	L1174	V1106	R1042	K970	L902	L839	F777	L708	N584	P402	D523	Q463	THR	GLU
G1245	L1175	V1107	M1045	L971		R840	L778	L708	G585	L464	L524	L464	LEU	ASP
V1246	K1176	R1108	Q1046	Q906	E907	Y841	A779	R710	R586	L465	R525	E404	PHE	ASP
A1247		E1109	K1047	K908	E907	R842	K780	L711	R587	K466	P526	K466	GLU	GLU
G1248	E1179	A1110	P1048	I974	K908	R843	P781	L711	G588	D467	N527	E467	PRO	PRO
A1249		D1111	K1048	E975	N909	A844	S782	G712	A589	TRP	V528	L468	VAL	VAL
		C1112	S1049	Q976	S910	R845	R782		P590	E408	Q529	D469	ALA	ALA
I1252	E1182	G1113	G1050	E977	S911	R846	R784	A715	V591	L470	V630	L470	THR	THR
T1253	T1183	T1114	E1051	E979	L911	D847	D784	Q716	T592	E471	D531	S410	PRO	TYR
Q1254	E1185	N1115	T1052	E979	D913	E848	I786	Q717	N593	A472	G532	A472	LYS	PHE
G1255	V1186	N1116	F1063	L983	L914	R849	L787	F718	P594	L473	G533	Q412	ASP	LEU
P1256	P1187	L1117	E1054	T984	V915	L850	G788	F719	G595	E474	D413	E474	PRO	PRO
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R1258	C1194	S1119	P1056	E987	Q917	L852		W721	D597	K475	A536	E475	VAL	GLY
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L1260	T1196	F1123	S1059	Y989	R919	R857	Q793	Q724	P599	L478	S538	L478	PRO	PRO
L1262	R1197	Q1124	S1060	T992	L920	V858	Q794	S725	R601	E480	D539	E479	THR	LEU
F1263	Y1198	Q1125	F1061	L993	R921	R859	R796	I726	S602	M481	V420	V420	ASN	VAL
E1264	G1199	D1126	R1062	Q994	K926	L860	Q797	Q727	L603	K482	L421	L421	VAL	VAL
A1265	V1200	E1127	E1063	L995	K926	L861	R797	L728	T604	H483	A422	A422	VAL	HIS
R1266	C1201	V1128	G1064	W996	T927	D862	E798	H729	D605	P484	D423	D423	VAL	GLY
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P1268	K1203	R1130	T1066	E998	R929	V864	K800	L731	L607	R486	G425	G425	ILE	ILE
K1269	C1204	R1130	V1067	T999	R929	R865	A802	V732	S608	A487	K426	K426	VAL	VAL
A1270	Y1205	R1133	L1068	T1000	L930	T865	A802	C733	G609	R488	V427	V427	ALA	GLU
K1271	G1206	L1134	E1069	E1001	L931	V866	G803	E734	K610	R489	K428	K428	ARG	LYS
A1272	T1207	R1135	Y1070	K1002	D932	R867	L804	A735	Q611	A490	S429	S429	GLY	GLY
V1273	D1208	K1136	F1071	V1003	A933	Y868	E805	F736	G612	K491	D430	D430	GLN	GLN
L1274	L1209	R1137	I1072	T1004	L934	K871	F806	N737	R613	A492	V431	V431	ALA	PRO
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E1276	M1211	D1139	S1074	A1006	Y936	R873	T808	D739	R615	K494	G433	G433	ALA	ALA
I1277	A1212	I1140	H1075	A1007	Y937	L874	P809		Q616	R495	R434	R434	GLU	GLU
D1278	R1213	E1141	G1076	F1008	T940	E874	E810	D743	M617	L496	V435	V435	ALA	ALA
G1279	P1214	A1142	A1077	K1009	T940	T875	E811	Q744		E497	V368	V368	LYS	LYS
V1280	V1215	G1143	G1143	M1010	T944	S876	A812	M745	K621	A498	V437	V437	GLY	GLY
L1281	K1078	L1144	K1078	S945	T944	R877	L813	V749	I683	V499	D438	D438	LEU	LEU
R1282	Y1145	Y1145	G1080	C946	S945	R879	A814	P750	K622	R500	L439	L439	ARG	ARG
I1283	A1220	G1146	L1080	C946	S945	R879	A814	P750	D624	A501	V440	V440	MET	MET
E1284	G1222	V1148	L1086	T947	S945	R879	A814	P750	Y625	F502	R441	R441	PRO	PRO
E1285				T948	S945	R879	A814	P750	E564	E380	L442	L442	ARG	ARG
				I949	S945	R879	A814	P750	F688	A381	V443	V443		



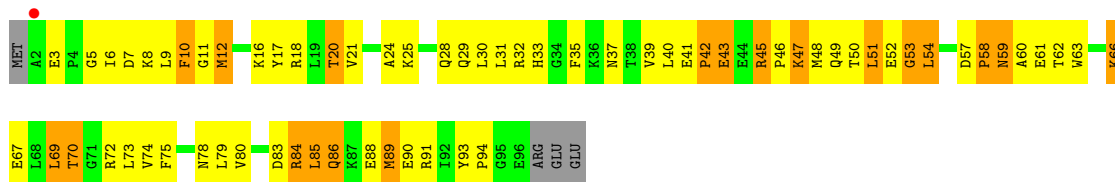
- Molecule 4: RNA polymerase omega chain

Chain E:



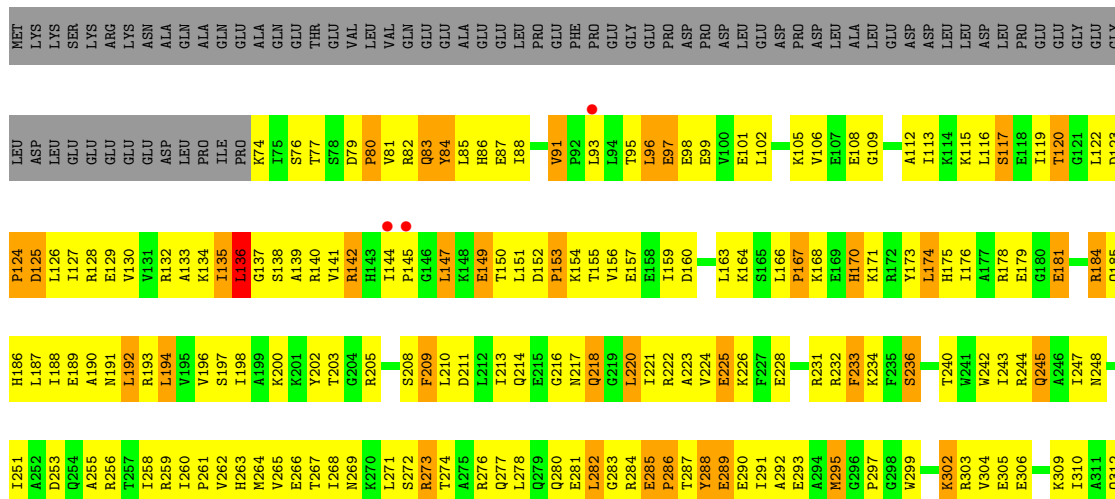
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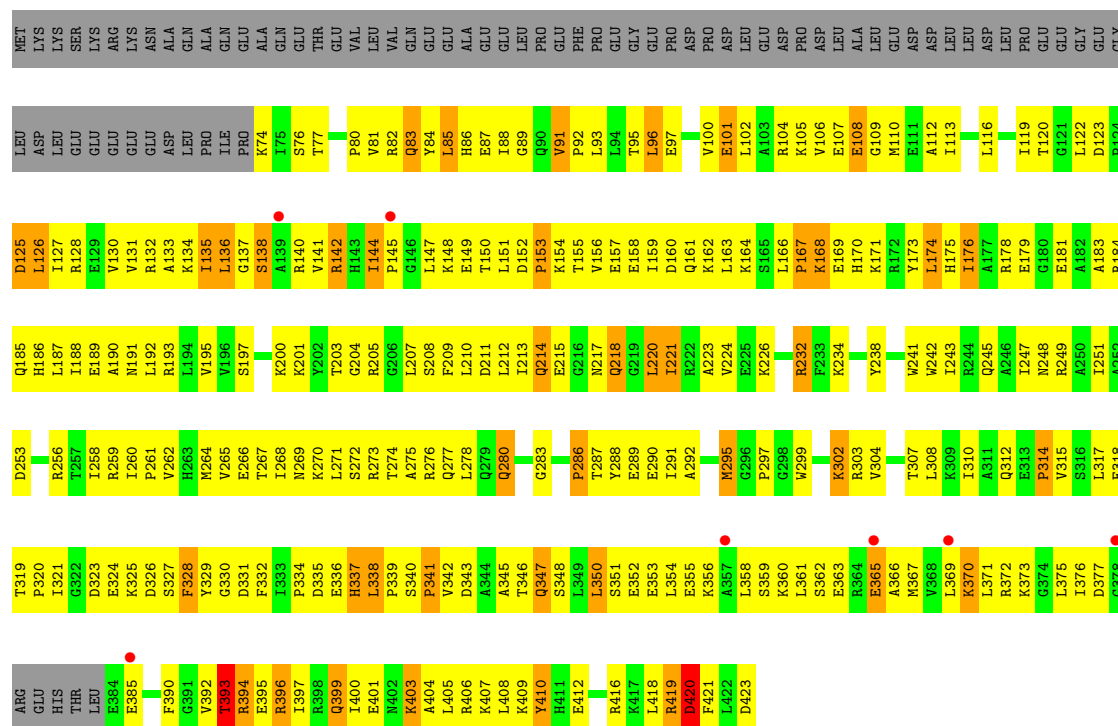
Chain 0:



- Molecule 5: RNA polymerase sigma factor rpoD

Chain F:





4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	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
$\langle I/\sigma(I) \rangle$ ¹	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 (6.13%)	DCC
Wilson B-factor (Å ²)	58.9	Xtriage
Anisotropy	0.079	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 80.1	EDS
Estimated twinning fraction	0.499 for -h,-k,l 0.068 for h,-h-k,-l 0.068 for -k,-h,-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtriage
Outliers	0 of 366401 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	58679	wwPDB-VP
Average B, all atoms (Å ²)	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.*

¹Intensities estimated from amplitudes.

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 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	1806	0	1861	206	0
2	C	8829	0	8933	1184	0
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

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 59.

All (6401) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(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
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.20	1.04
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.14	1.04
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.16	1.02
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.41	1.02
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.42	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	Distance(Å)	Clash(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
3:D:141:ILE:HG12	3:D:449:SER:HA	1.46	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
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.46	0.96
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.30	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
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.48	0.93
2:C:1090:LYS:HZ2	3:D:90:MET:HG3	1.31	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:M:16:PRO:HB3	2:M:460:ARG:HH22	1.33	0.93
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.46	0.93
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.50	0.93
2:C:517:ARG:HH11	2:C:522:VAL:HG11	1.33	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
3:N:500:ARG:HH12	3:N:1388:ARG:HH11	1.13	0.92
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.52	0.92
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.51	0.92
3:D:698:LYS:HA	3:D:756:GLN:HE22	1.32	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.51	0.91
3:D:400:VAL:HG21	3:D:441:ARG:HH11	1.35	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:M:1111:ILE:HD12	2:M:1112:PHE:H	1.36	0.90
5:F:268:ILE:HA	5:F:271:LEU:HD12	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
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
3:N:928:ALA:HA	3:N:931:LEU:HD12	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
5:F:392:VAL:HG11	5:F:396:ARG:HD2	1.55	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:C:905:ILE:H	2:C:905:ILE:HD12	1.37	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
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.55	0.88
3:D:119:SER:HB2	3:D:123:LEU:H	1.38	0.88
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.53	0.88
2:M: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
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.54	0.88
3:N:699:VAL:H	3:N:756:GLN:NE2	1.72	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.56	0.88
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.56	0.88
1:L:126:ASP:HA	8:L:4849:HOH:O	1.72	0.88
3:N:565:ILE:H	3:N:565:ILE:HD12	1.39	0.88
3:N:141:ILE:HG12	3:N:449:SER:HA	1.54	0.88
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.54	0.87
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.56	0.87
5:F:76:SER:O	5:F:80:PRO:HD2	1.73	0.87
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.56	0.87
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.55	0.87
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.57	0.87
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:689:VAL:HB	2:M:870:ILE:HG13	1.56	0.87
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.40	0.87
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.57	0.86
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.58	0.86
3:D:1087:ARG:HG2	3:D:1234:THR:HA	1.54	0.86
3:N:536:ALA:HA	5:P:315:VAL:H	1.40	0.86
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.55	0.86
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.57	0.86
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.39	0.86
2:M:614:ARG:HD2	2:M:620:LEU:HD12	1.54	0.86
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.58	0.86
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
2:C:376:ARG:HH22	5:F:285:GLU:HB3	1.40	0.85
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.57	0.85
3:N:838:ARG:HA	8:N:9349:HOH:O	1.76	0.85
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.57	0.85
2:C:145:GLY:H	2:C:163:ILE:HG23	1.41	0.85
3:D:1330:ILE:HA	8:D:9063:HOH:O	1.75	0.85
1:A:54:THR:HG23	1:A:158:ILE:HG13	1.59	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
2:M:772:ARG:HD2	5:P:373:LYS:HD2	1.59	0.85
3:D:667:ALA:HB2	3:D:676:MET:HE2	1.58	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
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.58	0.85
8:C:1350:HOH:O	3:D:532:GLY:HA2	1.76	0.85
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.55	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
3:D:615:ARG:HH21	3:D:619:LEU:HD12	1.40	0.84
1:A:145:ASP:HB3	8:A:330:HOH:O	1.76	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
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.59	0.84
1:B:103:ALA:HB1	1:B:107:LYS:HE3	1.57	0.84
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.58	0.84
2:C:768:THR:HB	2:C:771:GLU:HB3	1.60	0.84
5:P:132:ARG:HH21	5:P:184:ARG:HH12	1.25	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
1:A:95:GLN:HA	1:A:146:ARG:NH1	1.92	0.84
1:L:180:GLN:HB2	1:L:198:ARG:HH22	1.43	0.84
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.77	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:724:ARG:HH12	2:C:734:LEU:HD23	1.42	0.83
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.61	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
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:K:24:VAL:HG22	1:K:196:THR:HB	1.58	0.83
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.60	0.83
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.60	0.83
1: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
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:K:89:PHE:HZ	1:K:146:ARG:HB2	1.43	0.83
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.61	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
3:N:704:ARG:HD2	3:N:705:ALA:H	1.43	0.83
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.59	0.83
2:M:380:ALA:HA	2:M:383:ARG:HD2	1.61	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.44	0.82
3:N:139:GLY:HA3	3:N:452:ILE:HD12	1.62	0.82
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.78	0.82
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.59	0.82
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.61	0.82
3:N:422:ALA:H	3:N:427:VAL:HG11	1.44	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:907:GLU:HA	8:N:9094:HOH:O	1.78	0.82
2:M:1009:SER:HB2	3:N:651:GLU:O	1.80	0.82
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.58	0.82
2:M:1051:GLU:HG2	2:M:1056:LYS:HE3	1.61	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
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.60	0.82
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.60	0.82
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.95	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
2:C:802:ARG:HG2	2:C:826:TYR:HB2	1.62	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
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.45	0.81
3:N:420:VAL:HA	5:P:164:LYS:HD3	1.61	0.81
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.61	0.81
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.62	0.81
3:D:1209:LEU:HD13	3:D:1211:MET:HE1	1.60	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
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:C:313:LEU:HA	2:C:321:GLU:HG3	1.63	0.81
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.80	0.81
2:M:328:LEU:HD22	2:M:433:THR:HG22	1.63	0.81
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.62	0.81
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.62	0.81
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.61	0.81
3:N:658:LEU:HA	3:N:661:MET:HE3	1.63	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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:611:GLN:HA	3:D:615:ARG:HD2	1.62	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
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
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.61	0.80
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.61	0.80
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.64	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:1393:GLN:HB2	3:N:1398:TRP:HE1	1.46	0.80
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.81	0.80
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.79
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.45	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:719:PRO:HB3	2:C:820:ARG:NE	1.96	0.79
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.65	0.79
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.65	0.79
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.64	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
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.64	0.79
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.65	0.79
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.62	0.79
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.64	0.79
3:N:470:LEU:H	3:N:470:LEU:HD23	1.46	0.79
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.65	0.79
3:N:53:ILE:HG23	3:N:54:LYS:H	1.48	0.79
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.63	0.79
2:M:244:PRO:HD2	2:M:245:GLY: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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1090:LYS:NZ	3:D:90:MET:HG3	1.97	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78
2:M:242:LEU:HB3	8:M:1549:HOH:O	1.83	0.78
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.64	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:752:GLY:H	2:M:792:VAL:HB	1.45	0.78
2:M:670:GLN:O	2:M:672:VAL:HG12	1.83	0.78
2:M:397:GLU:H	2:M:633:GLN:NE2	1.81	0.78
2:C:1009:SER:HA	8:D:9195:HOH:O	1.82	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
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.49	0.78
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.66	0.78
2:C:413:LEU:HD12	2:C:413:LEU:H	1.46	0.78
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.64	0.78
3:D:86:ARG:O	3:D:522:PRO:HD2	1.83	0.78
3:D:422:ALA:H	3:D:427:VAL:HG11	1.48	0.78
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.64	0.78
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.64	0.78
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.66	0.78
3:D:152:LEU:H	3:D:152:LEU:HD23	1.48	0.78
2:C:876:VAL:HA	8:C:1494:HOH:O	1.84	0.78
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.66	0.78
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.65	0.78
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.84	0.78
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.83	0.78
4:O:51:LEU:HG	4:O:53:GLY:H	1.49	0.78
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.65	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
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
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.65	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
2:M:250:ARG:HG2	2:M:253:ALA:HB3	1.67	0.77
2:C:678:PRO:O	3:D:943:THR:HA	1.84	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.66	0.77
2:C:30:LEU:HB3	2:C:44:ILE:HD12	1.67	0.77
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.67	0.77
3:N:119:SER:H	3:N:123:LEU:HD22	1.50	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
5:F:117:SER:HA	8:F:433:HOH:O	1.84	0.77
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.66	0.77
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.67	0.77
3:D:1312:LEU:HB2	8:D:9354: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
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:D:41:ARG:HD3	3:D:42:ASP:H	1.47	0.76
3:N:699:VAL:H	3:N:756:GLN:HE22	1.33	0.76
3:N:107:ASP:HB2	8:N:9202:HOH:O	1.85	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
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	1.99	0.76
2:C:609:ASN:ND2	2:C:627:ARG:HH21	1.82	0.76
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.84	0.76
2:M:816:LYS:HE2	2:M:819:VAL:HG21	1.66	0.76
3:D:1223:ILE:H	3:D:1223:ILE:HD12	1.49	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
2:M:709:GLU:HG3	2:M:824:ARG:HG3	1.67	0.76
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.65	0.76
3:D:9:ARG:HE	3:D:11:ALA:HB2	1.51	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
1:A:109:VAL:HG23	8:A:356:HOH:O	1.85	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:639:LEU:HD12	3:N:639:LEU:H	1.51	0.76
3:D:1236:LEU:HD12	3:D:1256:LEU:HD12	1.67	0.76
2:C:944:LEU:HD21	2:C:963:LEU:HD22	1.67	0.76
2:C:41:ASN:H	2:C:41:ASN:HD22	1.30	0.76
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.66	0.76
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:M:736:ASP:O	2:M:744:ARG:HG2	1.86	0.75
3:N:1066:THR:HG23	3:N:1068:LEU:H	1.51	0.75
2:M:154:ARG:HH21	2:M:156:GLY:HA3	1.50	0.75
2:C:534:VAL:H	2:C:538:GLN:HE22	1.34	0.75
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.69	0.75
2:M:186:VAL:HG23	2:M:187:ASN:H	1.51	0.75
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.67	0.75
3:D:842:VAL:HG23	8:D:9407:HOH:O	1.86	0.75
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.51	0.75
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.51	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
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.01	0.75
3:D:73:CYS:HB3	3:D:76:CYS:O	1.85	0.75
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.69	0.75
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.69	0.75
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.01	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:N:44:LEU:HB3	3:N:525:ARG:HH21	1.50	0.75
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.68	0.75
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.51	0.75
1:L:206:THR:HG22	1:L:209:GLU:H	1.52	0.75
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.68	0.75
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.67	0.75
5:P:76:SER:O	5:P:80:PRO:HD2	1.87	0.75
1:A:191:ASP:HB3	8:A:483:HOH:O	1.86	0.75
3:N:948:THR:HG22	3:N:949:ILE:H	1.51	0.75
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.67	0.75
2:M:378:LEU:HG	2:M:382:ILE:HD11	1.69	0.75
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.69	0.75
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.67	0.75
2:C:557:ARG:NH2	2:C:879:ARG:HD3	2.00	0.75
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.69	0.75
3:D:65:ARG:HG3	3:D:66:GLN:H	1.52	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:971:LEU:HA	3:D:974:ILE:HD12	1.69	0.75
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	2.03	0.74
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.22	0.74
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.01	0.74
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.69	0.74
5:P:404:ALA:HB3	8:P:4587:HOH:O	1.87	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
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.68	0.74
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.68	0.74
2:M:864:GLY:HA2	8:M:1164:HOH:O	1.87	0.74
3:D:194:GLY:H	3:D:206:ARG:HA	1.51	0.74
1:A:189:ARG:HB3	8:A:366:HOH:O	1.86	0.74
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.67	0.74
3:N:1271:LYS:HG2	3:N:1272:ALA:H	1.51	0.74
2:M:598:GLU:O	2:M:651:LYS:HG3	1.87	0.74
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.68	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:135:LEU:HD13	3:N:147:VAL:HG23	1.68	0.74
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.70	0.74
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.68	0.74
3:D:1046:GLN:HG2	3:D:1052:THR:HG22	1.68	0.74
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.51	0.74
2:M:313:LEU:HD23	2:M:314:THR:HG23	1.68	0.74
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.68	0.74
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.67	0.74
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.67	0.74
2:M:671:ASN:HD21	2:M:993:PHE:HD2	1.32	0.74
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.69	0.74
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.88	0.74
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.01	0.74
3:N:486:ARG:HE	3:N:489:ARG:HD3	1.50	0.74
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.18	0.74
2:C:115:LEU:HD13	2:C:351:LEU:HD21	1.70	0.74
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.68	0.74
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	1.68	0.74
2:M:486:MET:HB3	8:M:1436:HOH:O	1.88	0.74
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.68	0.74
3:N:14:SER:H	3:N:17:LYS:HZ2	1.36	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
2:M:436:GLY:HA2	2:M:538:GLN:O	1.88	0.73
1:L:133:GLU:HG3	1:L:134:GLU:HG2	1.70	0.73
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	1.88	0.73
2:M:89:THR:O	2:M:91:GLN:HG3	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
3:N:661:MET:HG2	3:N:666:ILE:HD12	1.71	0.73
2:C:676:ILE:HG23	3:D:948:THR:HB	1.68	0.73
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.70	0.73
3:D:1289:LYS:HE3	3:D:1307:LYS:HE2	1.69	0.73
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.68	0.73
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.23	0.73
2:M:92:ALA:HB1	8:M:1276:HOH:O	1.89	0.73
2:C:818:GLY:HA3	8:C:1350:HOH:O	1.88	0.73
5:P:358:LEU:HD21	5:P:370:LYS:HE3	1.70	0.73
8:M:1349:HOH:O	3:N:651:GLU:HG3	1.88	0.73
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.68	0.73
1:B:45:LEU:HA	8:B:343:HOH:O	1.88	0.73
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.70	0.73
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.70	0.73
3:D:459:GLU:HB3	8:D:9187:HOH:O	1.89	0.73
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.70	0.73
1:L:63:HIS:HB2	8:L:3671:HOH:O	1.88	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: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
3:D:1045:MET:CG	3:D:1073:SER:HA	2.17	0.73
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.03	0.73
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.71	0.73
2:C:943:VAL:HG23	2:C:985:GLY:H	1.53	0.73
2:M:589:ARG:HH11	2:M:589:ARG:HB2	1.51	0.73
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.70	0.73
1:B:131:THR:HG22	8:B:423:HOH:O	1.89	0.73
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.18	0.73
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.53	0.73
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.71	0.73
1:A:98:THR:HG21	8:A:348:HOH:O	1.89	0.73
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.69	0.73
2:M:371:LYS:HA	8:M:1338:HOH:O	1.87	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.70	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
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.00	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
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.71	0.72
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	1.88	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
2:C:704:HIS:HB2	2:C:831:ARG:HE	1.53	0.72
1:A:14:ARG:NH2	1:A:22:GLU:HB3	2.03	0.72
3:D:628:ARG:HD3	3:D:744:GLN:NE2	2.04	0.72
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	1.88	0.72
3:D:1209:LEU:HD22	3:D:1211:MET:HB3	1.71	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
2:C:166:PRO:HA	8:C:1305:HOH:O	1.88	0.72
3:N:1429:LEU:HG	3:N:1441:GLN:HG3	1.70	0.72
8:N:9109:HOH:O	5:P:319:THR:HA	1.88	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
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.23	0.72
2:M:573:ARG:HG3	2:M:698:ASP:O	1.90	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
5:P:151:LEU:HB3	8:P:3247:HOH:O	1.89	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.54	0.72
1:K:133:GLU:HG2	1:K:134:GLU:N	2.05	0.72
3:D:1267:ARG:HH22	3:D:1333:HIS:HD2	1.38	0.72
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.70	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
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.69	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
3:D:153:LEU:HD12	3:D:154:THR:N	2.05	0.72
2:C:473:ARG:HE	2:C:531:PHE:HE1	1.35	0.72
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.72	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.70	0.72
2:C:64:LEU:HB2	2:C:359:MET:SD	2.30	0.72
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.86	0.72
4:O:51:LEU:HD12	4:O:52:GLU:H	1.55	0.72
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.72	0.72
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.54	0.72
1:K:55:SER:OG	1:K:158:ILE:HB	1.90	0.72
5:F:93:LEU:HG	5:F:190:ALA:CB	2.20	0.72
2:C:244:PRO:HD2	2:C:245:GLY:H	1.53	0.72
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.20	0.71
3:D:907:GLU:O	3:D:911:LEU:HD22	1.89	0.71
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.55	0.71
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.71	0.71
5:P:404:ALA:HA	8:P:4644:HOH:O	1.90	0.71
5:F:128:ARG:HG2	8:F:754:HOH:O	1.88	0.71
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.71	0.71
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.89	0.71
3:D:996:TRP:HA	3:D:999:THR:HG22	1.72	0.71
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.73	0.71
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.73	0.71
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.05	0.71
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.72	0.71
4:E:45:ARG:HA	8:E:180:HOH:O	1.88	0.71
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.06	0.71
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.71	0.71
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.91	0.71
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.20	0.71
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.05	0.71
3:D:737:ASN:HA	8:D:9006:HOH:O	1.89	0.71
3:D:374:GLU:HA	8:D:9065:HOH:O	1.90	0.71
3:N:192:ALA:O	3:N:195:VAL:HG23	1.90	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
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.73	0.71
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.21	0.71
3:N:215:TYR:O	3:N:389:GLU:HB3	1.89	0.71
3:D:513:ILE:HA	8:D:9491:HOH:O	1.91	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:1273:VAL:HG22	3:D:1326:THR:OG1	1.90	0.71
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.71	0.71
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.72	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
3:N:139:GLY:O	3:N:147:VAL:HB	1.91	0.71
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.73	0.71
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.91	0.71
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.73	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
3:D:172:PRO:HD2	3:D:389:GLU:O	1.91	0.71
2:C:113:VAL:HG13	8:C:1336:HOH:O	1.91	0.71
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.71	0.71
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.71	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
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.72	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
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.73	0.70
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.54	0.70
2:C:460:ARG:HH11	2:C:460:ARG:HB3	1.55	0.70
3:N:1488:ASP:HA	8:O:4394:HOH:O	1.91	0.70
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.73	0.70
2:M:157:ARG:HE	2:M:158:TYR:H	1.36	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: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
2:M:755:LEU:HB2	2:M:790:LEU:HD22	1.73	0.70
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.06	0.70
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.92	0.70
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.74	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:929:ARG:HB2	8:D:9499:HOH:O	1.90	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:511:GLU:O	2:C:526:PRO:HD3	1.91	0.70
2:C:108:ILE:HG21	8:C:1205:HOH:O	1.92	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
2:C:284:ARG:HG2	2:C:285:LEU:H	1.57	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:127:PHE:HA	8:C:1442:HOH:O	1.90	0.70
3:N:52:PRO:HG3	3:N:78:VAL:HG22	1.72	0.70
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.73	0.70
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
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.73	0.70
5:F:396:ARG:HG2	8:F:468:HOH:O	1.92	0.70
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.73	0.70
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.26	0.70
2:M:1115:LEU:HD11	8:M:1678:HOH:O	1.90	0.70
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.56	0.70
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.74	0.70
1:L:58:ILE:HB	1:L:61:VAL:HB	1.73	0.70
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.74	0.70
2:C:299:LYS:HB2	8:C:1374:HOH:O	1.90	0.70
3:N:796:ARG:HD3	3:N:861:GLN:HB2	1.73	0.70
3:N:965:GLU:HG3	3:N:969:ARG:HH21	1.56	0.70
3:D:1395:LEU:HB3	8:D:9369:HOH:O	1.91	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:97:VAL:HG11	1:B:120:VAL:HG21	1.74	0.70
2:C:455:LEU:HD12	2:C:459:ALA:HB3	1.72	0.69
2:C:318:PRO:HB3	8:C:1564:HOH:O	1.90	0.69
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.05	0.69
1:L:209:GLU:HB3	8:L:4878:HOH:O	1.92	0.69
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.57	0.69
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.06	0.69
2:M:343:GLN:HG3	8:M:1267:HOH:O	1.92	0.69
2:C:958:THR:HG23	2:C:961:GLU:H	1.56	0.69
3:D:132:TYR:HA	8:D:9333:HOH:O	1.91	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
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
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.57	0.69
4:E:51:LEU:HD12	4:E:52:GLU:H	1.57	0.69
3:N:834:THR:HB	3:N:838:ARG:HB3	1.74	0.69
1:L:161:ARG:HA	8:L:3450:HOH:O	1.92	0.69
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.74	0.69
3:D:793:THR:HB	3:D:879:ARG:HD3	1.74	0.69
2:M:511:GLU:O	2:M:526:PRO:HD3	1.92	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:92:ALA:HB1	8:C:1294:HOH:O	1.92	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
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.75	0.69
3:N:468:LEU:HB3	8:N:9407:HOH:O	1.92	0.69
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.08	0.69
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.73	0.69
2:M:478:VAL:HA	2:M:506:ASN:O	1.92	0.69
5:F:120:THR:HB	8:F:433:HOH:O	1.91	0.69
3:D:215:TYR:O	3:D:389:GLU:HB2	1.93	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
3:D:1462:LEU:HB3	3:D:1472:ILE:HD12	1.75	0.69
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.73	0.69
5:F:335:ASP:OD2	5:F:338:LEU:HB2	1.92	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
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:929:ARG:HD3	8:D:9607:HOH:O	1.93	0.69
3:D:811:GLU:HA	8:D:9196:HOH:O	1.93	0.69
1:K:62:LEU:HD12	8:K:3844:HOH:O	1.91	0.69
2:C:193:LEU:HD21	8:C:1760:HOH:O	1.93	0.69
3:D:756:GLN:O	3:D:760:ARG:HG2	1.91	0.69
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
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
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.28	0.69
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.75	0.69
2:C:958:THR:HG22	8:C:1364:HOH:O	1.92	0.69
3:D:178:LEU:HG	3:D:200:ASP:H	1.58	0.69
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.75	0.69
3:D:964:LEU:HD13	3:D:1058:ARG:NH1	2.08	0.69
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.32	0.69
3:D:537:THR:C	5:F:317:LEU:HB2	2.12	0.69
3:D:393:ILE:H	3:D:393:ILE:HD12	1.58	0.69
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.22	0.69
3:D:62:LYS:HE2	3:D:75:ARG:HH12	1.58	0.69
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.23	0.69
3:N:761:ILE:HG21	8:O:3197:HOH:O	1.93	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:100:VAL:CG1	5:P:104:ARG:HH21	2.06	0.69
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.74	0.68
2:M:526:PRO:HG2	8:M:1259:HOH:O	1.92	0.68
1:A:226:SER:O	1:A:228:PRO:HD3	1.93	0.68
3:N:430:ASP:HB3	8:N:9241:HOH:O	1.93	0.68
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.75	0.68
3:N:542:ASP:O	3:N:546:ARG:HG2	1.94	0.68
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.28	0.68
2:C:437:ARG:HA	2:C:467:ILE:HG21	1.73	0.68
2:C:282:GLY:HA2	2:C:308:ARG:NH2	2.07	0.68
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.08	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:609:ASN:HD21	2:C:627:ARG:HH21	1.40	0.68
2:C:567:GLN:HA	8:C:1666:HOH:O	1.93	0.68
2:M:311:PHE:HB3	8:M:1560:HOH:O	1.93	0.68
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.74	0.68
2:C:777:ILE:HG23	5:F:405:LEU:HD11	1.74	0.68
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.21	0.68
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.93	0.68
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.59	0.68
1:L:85:LEU:HD12	1:L:124:ASN:HB3	1.75	0.68
3:D:808:THR:HB	3:D:809:PRO:HD3	1.73	0.68
5:P:376:ILE:HG23	8:P:3758:HOH:O	1.93	0.68
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.76	0.68
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.76	0.68
3:D:572:ARG:HH12	5:F:79:ASP:CG	1.97	0.68
1:K:92:PRO:HD3	8:K:3642:HOH:O	1.92	0.68
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.08	0.68
3:N:760:ARG:HH21	4:O:3:GLU:CD	1.97	0.68
1:L:58:ILE:HG23	8:L:4138:HOH:O	1.93	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.76	0.68
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.93	0.68
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.08	0.68
5:P:100:VAL:HG12	5:P:104:ARG:HH21	1.58	0.68
2:M:726:ILE:HG22	8:M:1255:HOH:O	1.92	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:C:151:ASP:HB2	2:C:157:ARG:O	1.94	0.68
5:P:403:LYS:NZ	5:P:406:ARG:HD2	2.08	0.68
2:M:983:ILE:HA	8:M:1335:HOH:O	1.92	0.68
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.75	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.75	0.68
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.75	0.68
4:E:30:LEU:O	4:E:35:PHE:HA	1.94	0.68
1:B:151:VAL:HG13	1:B:155:LYS:HE2	1.76	0.68
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.93	0.68
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.76	0.68
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.76	0.68
2:C:610:ARG:HB2	8:C:1501:HOH:O	1.93	0.68
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.58	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.28	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
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.29	0.68
2:C:428:ARG:HG2	2:C:449:ILE:O	1.94	0.68
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.76	0.68
3:D:1406:ARG:NH2	3:D:1407:LEU:HG	2.09	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
1:A:74:ASP:OD1	1:A:77:GLU:HB2	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
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.75	0.68
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.75	0.68
3:N:535:PHE:O	5:P:315:VAL:N	2.26	0.68
2:C:516:ARG:HD3	2:C:521:PRO:HA	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:86:ARG:O	3:N:522:PRO:HD2	1.93	0.67
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.21	0.67
3:D:401:TYR:HB2	8:D:9802:HOH:O	1.93	0.67
1:L:112:ARG:HD2	8:L:4849:HOH:O	1.93	0.67
3:D:1459:LEU:HD22	3:D:1465:ASN:ND2	2.09	0.67
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.74	0.67
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.09	0.67
3:N:961:LYS:HG2	8:N:9231:HOH:O	1.93	0.67
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.77	0.67
2:C:478:VAL:HA	2:C:506:ASN:O	1.94	0.67
2:M:144:PRO:HA	2:M:163:ILE:HG12	1.76	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
2:C:36:PRO:HB3	8:C:1554:HOH:O	1.94	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:186:VAL:HG23	2:C:187:ASN:H	1.58	0.67
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.67
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.09	0.67
5:P:87:GLU:O	5:P:91:VAL:HG23	1.94	0.67
3:D:1318:TYR:HB3	8:D:9569:HOH:O	1.94	0.67
4:E:60:ALA:O	4:E:63:TRP:HB2	1.94	0.67
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	0.67
4:E:86:GLN:HB2	8:E:158:HOH:O	1.94	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
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
2:C:227:PHE:HD2	2:C:230:ARG:HH21	1.42	0.67
5:P:234:LYS:HG3	8:P:4168:HOH:O	1.94	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: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
5:F:351:SER:O	5:F:355:GLU:HB2	1.93	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
1:B:38:ASN:OD1	2:C:979:THR:HA	1.95	0.67
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:1095:THR:HG23	3:D:1230:GLY:HA3	1.75	0.67
2:M:546:LEU:HA	2:M:581:THR:HG21	1.76	0.67
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.76	0.67
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.75	0.67
2:M:205:GLU:O	2:M:209:ARG:HD2	1.94	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:730:PRO:HA	3:N:733:CYS:SG	2.35	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:1127:GLU:HG3	3:N:1133:ARG:HH12	1.60	0.67
3:D:1389:LEU:HD13	8:D:9579:HOH:O	1.94	0.67
2:M:630:ARG:HH21	2:M:707:ARG:N	1.93	0.67
3:D:1087:ARG:HB3	3:D:1234:THR:HG23	1.75	0.67
1:L:65:PHE:HB2	8:L:3211:HOH:O	1.94	0.67
3:N:1397:LYS:HG2	8:N:9561:HOH:O	1.93	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.43	0.67
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.59	0.67
1:A:20:TYR:HD2	1:A:21:GLY:N	1.93	0.67
3:N:654:LYS:HD3	3:N:674:ARG:HH22	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
4:O:60:ALA:O	4:O:63:TRP:HB2	1.95	0.67
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.60	0.67
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.59	0.67
1:L:62:LEU:HD13	1:L:63:HIS:ND1	2.10	0.67
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.30	0.67
3:N:124:GLU:HB2	8:N:9808:HOH:O	1.94	0.67
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.25	0.66
3:D:1271:LYS:HG2	3:D:1272:ALA:H	1.60	0.66
2:M:140:ILE:HA	2:M:332:ARG:O	1.94	0.66
3:D:821:VAL:HG21	8:D:9498:HOH:O	1.96	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.77	0.66
3:D:156:GLU:HB3	8:D:9191:HOH:O	1.95	0.66
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.76	0.66
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.76	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
2:M:1085:PHE:O	2:M:1089:VAL:HG23	1.95	0.66
3:N:423:ASP:OD1	5:P:174:LEU:HD13	1.95	0.66
1:K:227:ASN:N	1:K:227:ASN:HD22	1.91	0.66
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.94	0.66
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.10	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
5:P:208:SER:HB3	8:P:3885:HOH:O	1.95	0.66
5:P:148:LYS:HG2	8:P:3932:HOH:O	1.95	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
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.10	0.66
3:N:1376:MET:SD	3:N:1421:LEU:HD12	2.36	0.66
3:N:1342:GLU:CD	3:N:1342:GLU:H	1.99	0.66
1:B:52:ALA:HB1	8:B:430:HOH:O	1.94	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
1:L:131:THR:HA	8:L:2956:HOH:O	1.95	0.66
3:D:1169:ASP:HB3	8:D:9030:HOH:O	1.95	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:863:VAL:HG23	8:N:9129:HOH:O	1.94	0.66
2:C:930:LYS:HA	8:C:1252:HOH:O	1.96	0.66
2:C:750:LYS:HB3	8:C:1606:HOH:O	1.93	0.66
3:N:1080:GLY:HA3	8:N:9701:HOH:O	1.95	0.66
3:N:209:ARG:HH22	3:N:397:LYS:HG3	1.60	0.66
4:E:26:ARG:O	4:E:29:GLN:HG3	1.95	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
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.77	0.66
3:D:1349:VAL:HG11	8:D:9752:HOH:O	1.94	0.66
1:L:95:GLN:H	1:L:95:GLN:HE21	1.43	0.66
2:C:480:THR:HG22	2:C:482:GLU:H	1.61	0.66
3:N:1004:THR:HG21	8:N:9281:HOH:O	1.93	0.66
3:D:89:ARG:O	3:D:521:PRO:HG3	1.96	0.66
3:N:1459:LEU:HA	3:N:1464:GLU:OE1	1.95	0.66
3:D:783:ARG:HE	3:D:1029:ARG:NE	1.91	0.66
1:A:198:ARG:NH2	2:C:932:GLU:HG2	2.11	0.66
1:L:74:ASP:HA	8:L:3261:HOH:O	1.94	0.66
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.77	0.66
2:M:513:VAL:HB	8:M:1319:HOH:O	1.95	0.66
2:C:155:PRO:HB2	8:C:1225:HOH:O	1.95	0.66
5:P:325:LYS:HE2	8:P:2932:HOH:O	1.94	0.66
3:D:1413:THR:HG21	8:D:9279:HOH:O	1.94	0.66
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.61	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: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
1:A:20:TYR:HD2	1:A:21:GLY:H	1.44	0.66
3:D:652:LEU:HA	8:D:9195:HOH:O	1.95	0.66
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.59	0.66
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.60	0.66
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.10	0.66
1:A:219:ARG:CZ	1:B:219:ARG:HG2	2.26	0.66
3:D:148:GLU:HG2	3:D:151:GLN:NE2	2.11	0.66
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.78	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:C:328:LEU:HD22	2:C:433:THR:HG22	1.77	0.66
2:M:151:ASP:HB2	2:M:157:ARG:O	1.96	0.66
2:C:42:VAL:HG12	2:C:43:GLY:H	1.61	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:424:GLY:HA2	3:D:436:GLU:HA	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
2:C:710:ILE:HD11	2:C:758:ARG:NH2	2.11	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
2:C:325:ILE:HG22	8:C:1411:HOH:O	1.96	0.66
1:L:19:GLU:HG3	1:L:201:THR:O	1.96	0.66
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	1.78	0.66
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.78	0.65
3:N:656:PHE:HE2	3:N:698:LYS:HE3	1.59	0.65
3:D:1087:ARG:HD2	3:D:1256:LEU:HD22	1.78	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:M:137:VAL:HG23	2:M:391:LEU:HG	1.78	0.65
1:L:152:PRO:HD2	1:L:155:LYS:HD2	1.76	0.65
1:B:99:LEU:HD12	1:B:114:PHE:HB3	1.77	0.65
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.78	0.65
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.24	0.65
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.77	0.65
3:N:141:ILE:HD11	8:N:9550:HOH:O	1.95	0.65
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.78	0.65
3:D:850:LEU:HD12	3:D:850:LEU:H	1.60	0.65
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.76	0.65
2:M:211:LEU:HD12	2:M:308:ARG:HG3	1.76	0.65
3:N:844:ALA:O	3:N:867:ARG:HB3	1.95	0.65
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.61	0.65
3:N:35:ARG:HG3	3:N:36:THR:N	2.10	0.65
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.78	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
3:D:396:VAL:HA	8:D:9468:HOH:O	1.96	0.65
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.78	0.65
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.78	0.65
2:M:859:PRO:O	2:M:867:VAL:HG22	1.96	0.65
1:L:106:PRO:HD3	8:L:3583:HOH:O	1.97	0.65
2:M:73:LEU:HB3	2:M:94:LEU:HB2	1.79	0.65
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.79	0.65
5:P:175:HIS:O	5:P:179:GLU:HG3	1.97	0.65
3:N:1294:VAL:HB	8:N:9539:HOH:O	1.95	0.65
2:C:265:ARG:HG2	2:C:267:TYR:H	1.61	0.65
5:P:104:ARG:HB3	8:P:3870:HOH:O	1.97	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1492:LEU:HA	8:D:2041:HOH:O	1.96	0.65
5:P:352:GLU:O	5:P:356:LYS:HG3	1.96	0.65
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.11	0.65
3:N:576:GLU:HB2	8:N:9391:HOH:O	1.95	0.65
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.79	0.65
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.78	0.65
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.77	0.65
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.77	0.65
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.78	0.65
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.77	0.65
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.78	0.65
1:K:54:THR:HG21	8:K:3561:HOH:O	1.96	0.65
3:D:704:ARG:NE	3:D:705:ALA:H	1.94	0.65
2:C:185:LYS:HG2	2:C:190:LYS:HG2	1.79	0.65
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.78	0.65
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.78	0.65
5:F:166:LEU:O	5:F:171:LYS:HB2	1.96	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:1160:LEU:HD11	3:D:1174:LEU:HD21	1.78	0.65
1:B:90:LEU:HD23	8:B:356:HOH:O	1.97	0.65
8:N:9970:HOH:O	5:P:135:ILE:HD11	1.97	0.65
2:M:45:GLN:HA	8:M:1223:HOH:O	1.95	0.65
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.26	0.65
2:C:678:PRO:HB2	3:D:942:SER:OG	1.97	0.65
3:N:14:SER:H	3:N:17:LYS:NZ	1.94	0.65
3:N:119:SER:H	3:N:123:LEU:HB2	1.61	0.65
2:C:798:GLY:H	2:C:827:VAL:CG1	2.09	0.65
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.79	0.65
3:D:1154:GLU:HG3	3:D:1159:ARG:HG3	1.78	0.65
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.78	0.65
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
5:P:154:LYS:O	5:P:158:GLU:HG3	1.97	0.65
3:N:187:LYS:HA	8:N:9174:HOH:O	1.97	0.65
1:A:27:PRO:HD2	8:A:350:HOH:O	1.97	0.65
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.78	0.65
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.78	0.65
3:D:398:ALA:HB2	3:D:445:ARG:HE	1.61	0.65
3:D:1264:GLU:OE1	3:D:1424:VAL:HG12	1.97	0.65
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.61	0.65
2:C:580:MET:HB3	2:C:584:GLU:CD	2.16	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.79	0.65
3:D:817:GLU:HG3	3:D:840:LYS:NZ	2.12	0.65
2:C:405:ARG:HH12	2:C:563:ASN:ND2	1.94	0.65
1:B:47:SER:O	1:B:49:PRO:N	2.29	0.65
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.78	0.65
2:M:416:GLY:HA3	8:M:1698:HOH:O	1.96	0.65
3:N:783:ARG:HH21	3:N:1029:ARG:CG	2.09	0.65
4:E:59:ASN:HB3	4:E:62:THR:OG1	1.97	0.65
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.79	0.65
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.78	0.65
5:P:275:ALA:HA	5:P:278:LEU:HD12	1.79	0.65
2:M:157:ARG:HD2	2:M:314:THR:CG2	2.23	0.64
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.79	0.64
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.79	0.64
3:N:147:VAL:HG21	8:N:9806:HOH:O	1.96	0.64
2:M:304:LEU:HD21	8:M:1371:HOH:O	1.96	0.64
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.79	0.64
3:N:708:LEU:HA	8:N:9285:HOH:O	1.96	0.64
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.79	0.64
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.11	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:N:890:VAL:HG13	3:N:926:LYS:HD3	1.79	0.64
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.27	0.64
3:N:487:ALA:HB3	8:N:9323:HOH:O	1.97	0.64
1:B:184:THR:HB	1:B:194:LYS:NZ	2.12	0.64
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.79	0.64
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.33	0.64
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.79	0.64
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.12	0.64
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.79	0.64
3:N:911:LEU:O	3:N:915:VAL:HG23	1.98	0.64
2:M:669:GLY:O	2:M:670:GLN:HG3	1.97	0.64
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.77	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:N:1310:ARG:O	3:N:1327:ARG:HG3	1.97	0.64
2:M:498:GLN:O	2:M:501:THR:HG23	1.97	0.64
2:M:1084:SER:O	2:M:1087:VAL:HG12	1.97	0.64
3:D:85:VAL:HG21	8:D:9019:HOH:O	1.96	0.64
2:C:685:GLU:HG3	3:D:783:ARG:HD2	1.78	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:342:ASP:O	2:C:346:VAL:HG23	1.96	0.64
3:D:1075:HIS:HB3	8:D:9589:HOH:O	1.98	0.64
2:C:660:ALA:HB1	2:C:667:ALA:O	1.98	0.64
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.78	0.64
2:M:678:PRO:HD2	8:N:9142:HOH:O	1.96	0.64
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.77	0.64
2:C:881:ASN:HD22	2:C:881:ASN:H	1.42	0.64
2:M:565:GLN:OE1	2:M:842:ARG:HG2	1.98	0.64
3:D:810:GLU:O	3:D:813:LEU:HG	1.98	0.64
1:A:101:LEU:HG	1:A:114:PHE:HA	1.79	0.64
3:N:448:GLU:HG2	8:N:9338:HOH:O	1.98	0.64
3:D:448:GLU:HG3	8:D:9492:HOH:O	1.98	0.64
2:M:636:ALA:HB2	2:M:703:ILE:HG22	1.80	0.64
2:M:627:ARG:HA	8:M:1225:HOH:O	1.96	0.64
3:D:1306:PRO:HB3	3:D:1307:LYS:HE3	1.79	0.64
3:N:560:GLN:NE2	5:P:221:ILE:HB	2.13	0.64
3:D:544:TYR:O	3:D:548:ILE:HG12	1.97	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:698:LYS:HA	8:N:9643:HOH:O	1.98	0.64
1:A:30:ARG:NH1	1:A:191:ASP:HB2	2.13	0.64
3:N:615:ARG:NH1	3:N:615:ARG:HB2	2.13	0.64
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.32	0.64
1:A:18:ARG:HH12	1:A:88:ARG:NH2	1.96	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:N:1137:ARG:HA	3:N:1140:ILE:HD12	1.79	0.64
1:K:35:THR:HG21	1:L:43:ILE:HD11	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
2:C:56:GLU:HG3	2:C:64:LEU:HD23	1.80	0.64
2:M:93:PRO:HA	8:M:1237:HOH:O	1.97	0.64
2:M:16:PRO:HG2	2:M:460:ARG:HH12	1.61	0.64
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	1.97	0.64
3:D:139:GLY:H	3:D:147:VAL:HG21	1.62	0.64
5:F:273:ARG:HB3	8:F:555:HOH:O	1.97	0.64
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.80	0.64
3:N:907:GLU:O	3:N:911:LEU:HD13	1.98	0.64
1:A:30:ARG:HH11	1:A:191:ASP:HB2	1.62	0.64
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.80	0.64
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.79	0.64
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.32	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:836:VAL:HG12	8:D:9602:HOH:O	1.96	0.64
3:D:1384:PRO:HD3	8:D:9043:HOH:O	1.98	0.64
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.80	0.64
2:C:172:ILE:H	2:C:172:ILE:HD12	1.62	0.64
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.19	0.64
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.62	0.64
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.64
5:P:403:LYS:HZ1	5:P:406:ARG:HD2	1.61	0.64
3:D:804:LEU:HB2	3:D:830:ALA:O	1.98	0.64
1:B:103:ALA:O	1:B:138:LEU:HD23	1.98	0.64
1:K:36:LEU:O	1:K:39:PRO:HD2	1.98	0.64
5:P:317:LEU:HD23	5:P:330:GLY:HA3	1.79	0.64
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.13	0.64
2:M:367:LEU:O	2:M:372:LEU:HD13	1.97	0.64
1:K:100:LEU:HG	8:K:3093:HOH:O	1.97	0.64
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.80	0.64
3:N:917:GLN:HA	8:N:9246:HOH:O	1.98	0.64
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.79	0.64
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.27	0.64
3:N:422:ALA:H	3:N:427:VAL:CG1	2.11	0.64
3:N:693:GLU:HG3	4:O:48:MET:SD	2.38	0.64
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.33	0.64
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.27	0.64
3:D:590:PRO:HA	8:D:2066:HOH:O	1.98	0.64
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.79	0.64
3:D:1459:LEU:HB2	3:D:1470:ARG:HH12	1.63	0.64
3:D:1215:VAL:HG23	8:D:9465:HOH:O	1.97	0.64
2:M:1000:MET:O	2:M:1003:ASP:HB3	1.97	0.64
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.98	0.64
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.80	0.64
5:F:225:GLU:HB3	8:F:496:HOH:O	1.96	0.64
3:N:6:ARG:NH1	3:N:6:ARG:HB3	2.13	0.64
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.80	0.64
3:N:188:GLY:HA3	8:N:9237:HOH:O	1.97	0.64
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.98	0.64
1:B:59:GLU:HG2	1:B:139:ASN:O	1.98	0.64
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.98	0.64
2:M:188:LYS:HD3	8:M:1768:HOH:O	1.96	0.64
5:P:95:THR:HB	5:P:96:LEU:HD23	1.78	0.64
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
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.80	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:123:MET:C	1:B:125:PRO:HD3	2.19	0.63
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.13	0.63
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.81	0.63
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.79	0.63
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.14	0.63
3:N:65:ARG:HG3	3:N:66:GLN:H	1.61	0.63
2:C:704:HIS:CB	2:C:831:ARG:HE	2.10	0.63
3:D:804:LEU:HD23	3:D:804:LEU:H	1.63	0.63
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.80	0.63
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.28	0.63
2:C:716:LYS:HE2	8:F:558:HOH:O	1.98	0.63
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.79	0.63
5:P:351:SER:O	5:P:355:GLU:HB2	1.97	0.63
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.80	0.63
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.62	0.63
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.80	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:D:1481:VAL:HG13	4:E:18:ARG:HE	1.62	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
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.33	0.63
1:B:206:THR:HG22	1:B:209:GLU:H	1.63	0.63
1:L:108:GLU:HG2	8:L:2956:HOH:O	1.98	0.63
1:B:27:PRO:O	1:B:28:LEU:HD23	1.99	0.63
2:C:663:ASN:HB2	8:C:1359:HOH:O	1.97	0.63
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.80	0.63
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.78	0.63
3:N:496:LEU:HD23	3:N:1388:ARG:HG2	1.80	0.63
3:N:11:ALA:HB1	3:N:507:ASN:OD1	1.98	0.63
2:M:571:LEU:HD21	2:M:700:TYR:HD2	1.62	0.63
3:D:178:LEU:HD21	8:D:9071:HOH:O	1.97	0.63
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.99	0.63
1:A:97:VAL:HG23	8:A:316:HOH:O	1.99	0.63
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.79	0.63
3:D:64:LYS:HD3	5:F:376:ILE:O	1.99	0.63
1:A:128:HIS:HB2	8:A:408:HOH:O	1.96	0.63
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.98	0.63
3:D:1311:LEU:HA	8:D:9045:HOH:O	1.99	0.63
1:K:157:GLY:HA3	8:K:5051:HOH:O	1.99	0.63
2:M:833:LEU:HD11	2:M:849:VAL:HG21	1.79	0.63
3:N:178:LEU:HD21	8:N:9082:HOH:O	1.97	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.79	0.63
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.62	0.63
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.29	0.63
1:K:197:LEU:HD23	1:K:197:LEU:H	1.62	0.63
2:M:432:ARG:HD2	2:M:519:GLY:HA3	1.80	0.63
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
2:M:157:ARG:NE	2:M:158:TYR:H	1.95	0.63
3:N:699:VAL:HG12	3:N:717:GLN:HG3	1.80	0.63
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.28	0.63
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.63	0.63
1:B:80:LEU:HD21	8:D:9557:HOH:O	1.99	0.63
3:N:116:LEU:O	3:N:118:LEU:HG	1.98	0.63
2:M:841:ASN:HD22	2:M:841:ASN:C	2.02	0.63
2:M:899:GLN:HA	8:M:1664:HOH:O	1.97	0.63
3:N:417:PRO:HA	5:P:168:LYS:NZ	2.13	0.63
3:D:1047:LYS:HD2	3:D:1051:GLU:OE1	1.99	0.63
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.34	0.63
2:M:983:ILE:CG2	2:M:987:ILE:HD11	2.29	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:C:220:GLY:HA3	8:C:1329:HOH:O	1.98	0.63
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.81	0.63
2:M:1081:VAL:HG11	2:M:1111:ILE:HG22	1.81	0.63
5:F:317:LEU:O	5:F:329:TYR:HB3	1.99	0.63
3:D:139:GLY:O	3:D:147:VAL:HB	1.99	0.63
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.11	0.63
3:D:616:GLN:OE1	3:D:619:LEU:HB3	1.98	0.63
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.79	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
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.34	0.63
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.81	0.63
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.81	0.63
2:C:462:ASP:HA	8:C:1164:HOH:O	1.97	0.63
2:C:113:VAL:HG22	8:C:1632:HOH:O	1.97	0.63
1:B:170:VAL:HG22	8:B:430:HOH:O	1.97	0.63
5:P:278:LEU:HD22	5:P:290:GLU:HB3	1.79	0.63
4:O:5:GLY:O	4:O:9:LEU:HG	1.99	0.63
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.62	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.79	0.63
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
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.79	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
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.64	0.62
3:N:975:GLU:O	3:N:979:GLU:HG3	1.99	0.62
5:F:283:GLY:HA3	8:F:696:HOH:O	1.98	0.62
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.63	0.62
3:N:928:ALA:CA	3:N:931:LEU:HD12	2.29	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:D:817:GLU:O	3:D:821:VAL:HG23	1.99	0.62
3:N:610:LYS:HG2	3:N:611:GLN:NE2	2.14	0.62
3:D:1406:ARG:HA	8:D:2023: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
1:A:91:ASN:HB2	8:A:426:HOH:O	1.98	0.62
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.80	0.62
2:M:846:LYS:HE3	8:M:1413:HOH:O	1.99	0.62
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.13	0.62
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.65	0.62
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: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
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.81	0.62
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.28	0.62
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.81	0.62
1:B:212:ASN:O	1:B:215:VAL:HG22	2.00	0.62
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.34	0.62
1:L:30:ARG:HB2	1:L:30:ARG:HH11	1.64	0.62
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.80	0.62
2:M:809:GLY:HA2	8:M:1515:HOH:O	1.98	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
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.63	0.62
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.81	0.62
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.80	0.62
3:D:119:SER:HB2	3:D:123:LEU:N	2.11	0.62
3:N:728:LEU:HA	8:N:9469:HOH:O	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1372:VAL:HA	3:D:1375:MET:SD	2.39	0.62
2:M:971:LYS:HA	2:M:988:VAL:HA	1.80	0.62
3:D:1337:GLU:HA	8:D:2052:HOH:O	1.98	0.62
2:M:584:GLU:H	2:M:584:GLU:CD	2.02	0.62
1:A:41:ARG:O	1:A:45:LEU:HD12	1.98	0.62
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.64	0.62
2:C:338:GLU:HA	2:C:341:THR:HG22	1.81	0.62
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
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
3:N:62:LYS:HE2	3:N:75:ARG:NH1	2.15	0.62
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.81	0.62
2:M:48:PHE:HD2	8:M:1223:HOH:O	1.82	0.62
3:N:783:ARG:HH21	3:N:1029:ARG:HG2	1.64	0.62
2:M:676:ILE:O	2:M:676:ILE:HG23	1.98	0.62
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.80	0.62
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.64	0.62
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.14	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:D:207:PHE:HB3	3:D:208:PRO:HD2	1.81	0.62
3:D:1214:PRO:HB2	8:D:2011:HOH:O	1.98	0.62
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.82	0.62
3:N:488:ARG:HB3	3:N:488:ARG:NH1	2.15	0.62
2:C:72:ARG:HB2	2:C:72:ARG:NH1	2.15	0.62
5:P:396:ARG:HB2	8:P:2872:HOH:O	2.00	0.62
3:D:537:THR:O	5:F:317:LEU:HB2	1.99	0.62
1:K:94:LEU:HD21	1:K:119:ASP:HB3	1.81	0.62
2:C:704:HIS:CD2	2:C:831:ARG:HH21	2.18	0.62
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.80	0.62
2:M:777:ILE:HG22	8:M:1241:HOH:O	2.00	0.62
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.30	0.62
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.82	0.62
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.99	0.62
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.30	0.62
2:C:3:ILE:HG22	8:C:1178:HOH:O	1.99	0.62
3:D:723:GLY:HA3	8:D:9008:HOH:O	1.99	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
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.34	0.62
3:N:441:ARG:O	3:N:443:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:26:ARG:HA	4:E:29:GLN:OE1	2.00	0.62
2:M:254:VAL:HG11	8:M:1850:HOH:O	1.99	0.62
3:N:178:LEU:HB2	8:N:9874:HOH:O	1.99	0.62
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.65	0.62
1:L:212:ASN:O	1:L:215:VAL:HG22	2.00	0.62
5:F:361:LEU:CD2	5:F:362:SER:H	2.13	0.62
3:D:1389:LEU:HD12	3:D:1390:LEU:N	2.15	0.62
2:M:768:THR:HB	2:M:771:GLU:HB3	1.82	0.62
5:P:361:LEU:HD23	5:P:362:SER:H	1.65	0.62
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.81	0.62
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.30	0.62
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.82	0.62
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.00	0.62
3:D:625:TYR:O	3:D:749:VAL:HG23	1.98	0.62
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.81	0.62
3:D:696:HIS:CD2	4:E:59:ASN:HB2	2.35	0.62
1:K:20:TYR:HD2	1:K:21:GLY:H	1.47	0.62
2:M:495:THR:HB	2:M:530:GLU:HG3	1.82	0.62
3:D:844:ALA:O	3:D:867:ARG:HB3	1.98	0.62
5:P:277:GLN:O	5:P:280:GLN:HB3	1.99	0.62
5:P:347:GLN:HA	5:P:350:LEU:CD2	2.27	0.61
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.14	0.61
2:M:976:ASP:CB	2:M:979:THR:HG22	2.29	0.61
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.81	0.61
3:N:529:GLN:HG2	3:N:535:PHE:HE2	1.65	0.61
2:C:686:ASP:H	3:D:740:PHE:HD1	1.48	0.61
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.81	0.61
2:C:71:TYR:H	2:C:71:TYR:HD2	1.48	0.61
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.82	0.61
1:B:184:THR:HB	1:B:194:LYS:HZ3	1.63	0.61
2:M:775:ARG:HD3	8:M:1274:HOH:O	1.99	0.61
8:M:1274:HOH:O	5:P:421:PHE:HE2	1.83	0.61
3:D:605:ASP:HB3	8:D:2071:HOH:O	2.00	0.61
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.81	0.61
5:P:142:ARG:HD2	8:P:2896:HOH:O	1.99	0.61
2:M:261:ILE:HD13	8:M:1497:HOH:O	2.00	0.61
3:D:85:VAL:O	3:D:89:ARG:HD3	1.99	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
2:C:89:THR:HG21	2:C:383:ARG:HH21	1.65	0.61
1:B:206:THR:CG2	1:B:209:GLU:H	2.13	0.61
3:D:1169:ASP:HB2	8:D:9180:HOH:O	1.99	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.82	0.61
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.64	0.61
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.64	0.61
3:D:117:ASP:HA	8:D:9025:HOH:O	2.00	0.61
2:C:243:ARG:HB3	8:C:1850:HOH:O	1.99	0.61
2:M:158:TYR:HD1	2:M:313:LEU:HD21	1.65	0.61
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.82	0.61
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.81	0.61
3:D:153:LEU:HD11	3:D:158:TYR:N	2.15	0.61
3:N:543:LEU:HA	3:N:546:ARG:HG3	1.82	0.61
1:L:80:LEU:HD23	3:N:867:ARG:HH12	1.65	0.61
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.00	0.61
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.82	0.61
3:N:400:VAL:HG21	3:N:441:ARG:NH1	2.15	0.61
2:C:1018:GLN:HE21	2:C:1063:ARG:HH22	1.48	0.61
5:P:262:VAL:HG12	5:P:266:GLU:OE1	2.00	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:244:PRO:HB2	8:M:1637:HOH:O	2.00	0.61
2:C:94:LEU:HD21	8:C:1125:HOH:O	1.99	0.61
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.82	0.61
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.81	0.61
1:B:97:VAL:HG13	8:B:346:HOH:O	2.00	0.61
2:C:49:ARG:NH1	2:C:49:ARG:HB2	2.14	0.61
2:C:409:ARG:HA	2:C:454:SER:HA	1.80	0.61
2:M:492:ASP:HB3	2:M:518:LYS:HD2	1.81	0.61
3:D:675:ARG:HH21	5:F:421:PHE:N	1.97	0.61
2:C:208:ALA:O	2:C:218:VAL:HG21	2.01	0.61
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.30	0.61
5:P:400:ILE:HA	8:P:3326:HOH:O	1.99	0.61
3:N:9:ARG:HG3	3:N:1455:LYS:O	2.01	0.61
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.16	0.61
2:M:332:ARG:HG2	2:M:332:ARG:NH1	2.15	0.61
3:D:1302:GLU:HB3	8:D:2003:HOH:O	1.99	0.61
2:M:605:LYS:HD3	2:M:610:ARG:NH1	2.15	0.61
2:C:651:LYS:HA	8:C:1288:HOH:O	2.01	0.61
3:D:998:GLU:HA	8:D:9447:HOH:O	1.99	0.61
3:D:778:LEU:O	3:D:778:LEU:HD23	2.00	0.61
3:D:4:GLU:HA	8:D:9462:HOH:O	2.01	0.61
3:D:1021:TYR:CE1	3:D:1025:GLN:HG3	2.35	0.61
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.16	0.61
1:A:123:MET:O	1:A:125:PRO:HD3	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:361:LEU:HD22	5:F:362:SER:H	1.65	0.61
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.35	0.61
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.81	0.61
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.30	0.61
1:A:86:VAL:HG21	1:A:202:ASP:O	2.00	0.61
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
2:C:532:MET:HG3	2:C:533:ASP:N	2.16	0.61
3:D:965:GLU:O	3:D:968:ASP:HB2	2.00	0.61
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.83	0.61
5:P:337:HIS:H	5:P:337:HIS:CD2	2.19	0.61
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.28	0.61
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.82	0.61
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.83	0.61
3:N:116:LEU:HB3	3:N:118:LEU:HD21	1.82	0.61
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.81	0.61
1:L:100:LEU:O	1:L:115:LEU:HG	2.01	0.61
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.65	0.61
3:N:100:ALA:HA	8:N:9084:HOH:O	1.99	0.61
3:D:598:ARG:HH22	5:F:318:GLU:C	2.04	0.61
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.81	0.61
4:E:25:LYS:O	4:E:29:GLN:HG2	2.01	0.61
3:D:1033:GLN:HE22	3:D:1036:ARG:NH1	1.97	0.61
3:N:172:PRO:HD2	3:N:389:GLU:O	2.01	0.61
3:N:123:LEU:HD11	3:N:152:LEU:HD21	1.82	0.61
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.65	0.61
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.83	0.61
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.81	0.61
1:L:188:GLN:HG3	8:N:9878:HOH:O	2.01	0.61
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.82	0.61
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.31	0.61
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.81	0.61
2:C:976:ASP:CB	2:C:979:THR:HG22	2.31	0.61
2:C:431:HIS:H	2:C:434:HIS:CE1	2.18	0.61
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.00	0.61
3:D:133:ILE:HG22	3:D:455:ARG:N	2.15	0.61
3:N:164:GLY:HA2	8:N:9338:HOH:O	2.00	0.61
3:N:817:GLU:O	3:N:821:VAL:HG23	2.00	0.61
3:N:984:THR:HG22	3:N:987:GLU:H	1.65	0.61
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.83	0.61
2:C:575:GLN:N	2:C:667:ALA:HB1	2.15	0.61
2:M:63:GLY:HA3	2:M:103:LYS:HE2	1.82	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:807:ARG:CZ	2:M:807:ARG:HB2	2.30	0.61
1:L:84:GLU:HB2	8:N:9025:HOH:O	2.01	0.61
2:C:605:LYS:HG3	2:C:612:VAL:HB	1.81	0.61
3:N:842:VAL:HG23	8:N:9576:HOH:O	2.01	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
3:N:1324:PRO:HA	8:N:9087:HOH:O	2.00	0.61
2:C:1018:GLN:HG3	2:C:1060:ILE:HD13	1.82	0.60
2:C:537:LYS:HD2	2:C:537:LYS:H	1.65	0.60
3:N:661:MET:CE	3:N:677:LEU:HD11	2.31	0.60
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.36	0.60
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.36	0.60
3:N:1493:LYS:HA	3:N:1493:LYS:NZ	2.16	0.60
3:D:1299:PHE:HB2	8:D:9130:HOH:O	2.01	0.60
3:D:190:GLU:HB3	8:D:9257:HOH:O	2.01	0.60
3:N:1468:LEU:HD13	3:N:1470:ARG:HB2	1.83	0.60
2:M:567:GLN:HB2	2:M:997:LEU:HD23	1.83	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
3:N:130:SER:O	3:N:568:ARG:NH2	2.34	0.60
2:C:682:TYR:HE2	8:D:9907:HOH:O	1.85	0.60
5:P:403:LYS:HA	5:P:403:LYS:HZ2	1.65	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:N:119:SER:N	3:N:123:LEU:HB2	2.16	0.60
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.82	0.60
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.66	0.60
4:O:70:THR:HG21	4:O:72:ARG:NH2	2.16	0.60
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.36	0.60
1:K:102:LYS:HE2	1:K:139:ASN:ND2	2.15	0.60
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.16	0.60
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.81	0.60
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.17	0.60
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.83	0.60
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.60
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.37	0.60
1:K:5:LYS:O	1:K:8:ALA:HB2	2.01	0.60
4:E:48:MET:N	4:E:54:LEU:HB2	2.15	0.60
3:N:767:HIS:CD2	4:O:6:ILE:HG12	2.35	0.60
3:N:35:ARG:HG3	3:N:36:THR:H	1.66	0.60
1:B:5:LYS:O	1:B:8:ALA:HB2	2.02	0.60
2:M:39:ARG:NE	2:M:39:ARG:HA	2.16	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.36	0.60
1:K:58:ILE:HB	1:K:61:VAL:HB	1.83	0.60
1:L:2:LEU:HD12	1:L:3:ASP:H	1.66	0.60
3:D:966:GLU:HA	3:D:969:ARG:HD2	1.83	0.60
3:D:1320:GLU:HB2	3:D:1323:GLN:HE21	1.65	0.60
2:M:515:ALA:O	2:M:516:ARG:HD3	2.01	0.60
2:C:327:HIS:CE1	2:C:489:THR:HA	2.35	0.60
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.83	0.60
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.36	0.60
3:N:9:ARG:NH1	3:N:506:GLY:HA2	2.14	0.60
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.01	0.60
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.16	0.60
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.65	0.60
5:F:112:ALA:O	5:F:116:LEU:HG	2.01	0.60
3:N:950:GLY:H	3:N:953:ASP:HB2	1.66	0.60
3:D:1307:LYS:H	3:D:1307:LYS:CD	2.14	0.60
1:B:158:ILE:HD13	8:B:396:HOH:O	2.01	0.60
1:B:132:LEU:HD21	1:B:136:GLY:O	2.01	0.60
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.84	0.60
3:N:831:GLY:HA3	8:N:9080:HOH:O	2.01	0.60
2:M:395:LYS:HE3	2:M:403:SER:OG	2.01	0.60
3:D:162:ARG:CZ	3:D:162:ARG:HB2	2.31	0.60
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.83	0.60
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.36	0.60
2:C:193:LEU:HB2	8:C:1179:HOH:O	2.01	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
2:M:902:ILE:HG13	8:M:1340:HOH:O	2.00	0.60
1:L:36:LEU:O	1:L:39:PRO:HD2	2.02	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
3:N:1124:GLN:N	3:N:1133:ARG:O	2.34	0.60
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.83	0.60
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.83	0.60
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.83	0.60
2:C:433:THR:HG21	2:C:488:ALA:CB	2.32	0.60
2:M:154:ARG:NH2	2:M:156:GLY:HA3	2.15	0.60
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.02	0.60
3:N:1301:LYS:HB3	8:N:9539:HOH:O	2.01	0.60
2:M:31:GLN:HB2	8:M:1418:HOH:O	2.00	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.83	0.60
4:E:45:ARG:O	4:E:47:LYS:HE3	2.02	0.60
1:A:43:ILE:HG13	8:A:322:HOH:O	2.01	0.60
2:M:914:ILE:HD11	2:M:918:LEU:HD13	1.84	0.60
2:M:775:ARG:HA	8:M:1274:HOH:O	2.01	0.60
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.84	0.60
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.02	0.60
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.83	0.60
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.37	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
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.84	0.60
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.84	0.60
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.67	0.60
3:N:865:THR:CG2	3:N:874:GLU:HG3	2.32	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:N:1271:LYS:HG2	3:N:1272:ALA:N	2.16	0.60
2:C:542:VAL:HG23	2:C:543:ASN:H	1.65	0.60
5:P:416:ARG:CZ	5:P:419:ARG:HB2	2.31	0.60
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.15	0.60
1:B:29:GLU:HG3	8:B:446:HOH:O	2.00	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:C:698:ASP:HA	8:C:1248:HOH:O	2.00	0.60
2:M:455:LEU:HD12	2:M:456:ALA:O	2.01	0.60
2:C:19:THR:O	2:C:23:VAL:HG23	2.02	0.60
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.83	0.60
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.82	0.60
2:C:569:VAL:HG12	2:C:996:LYS:O	2.01	0.60
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.32	0.60
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	1.84	0.60
3:N:1389:LEU:HD12	3:N:1390:LEU:N	2.16	0.60
2:M:367:LEU:HD11	8:M:1686:HOH:O	2.01	0.60
2:M:1080:SER:HA	8:M:1763:HOH:O	2.02	0.60
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.83	0.60
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.83	0.60
3:D:660:LYS:HA	3:D:660:LYS:HE3	1.84	0.60
2:C:1014:SER:OG	5:F:331:ASP:HA	2.01	0.60
1:L:98:THR:HB	8:L:4416:HOH:O	2.02	0.60
2:C:583:LEU:O	2:C:587:VAL:HG23	2.02	0.60
2:C:493:ARG:HD2	8:C:1692:HOH:O	2.02	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:64:LEU:HA	8:M:1327:HOH:O	2.00	0.60
2:C:241:LEU:HB2	8:C:1346:HOH:O	2.02	0.60
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.02	0.60
2:C:408:ARG:NH1	2:C:455:LEU:HG	2.17	0.60
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.81	0.60
5:F:85:LEU:HD12	8:F:574:HOH:O	2.01	0.60
5:P:261:PRO:O	5:P:265:VAL:HG23	2.02	0.60
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.17	0.60
1:L:219:ARG:HB3	1:L:219:ARG:NH1	2.14	0.60
3:D:1459:LEU:HD13	3:D:1470:ARG:NH1	2.16	0.60
2:M:208:ALA:O	2:M:218:VAL:HG21	2.02	0.60
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.67	0.60
1:A:198:ARG:HH21	2:C:932:GLU:HG2	1.66	0.60
5:P:359:SER:HA	8:P:4306:HOH:O	2.02	0.60
5:F:356:LYS:O	5:F:360:LYS:HG2	2.02	0.60
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.18	0.59
3:D:540:LEU:HA	3:D:543:LEU:HD12	1.84	0.59
2:C:211:LEU:HD11	2:C:308:ARG:HA	1.83	0.59
2:M:769:PRO:HB2	8:N:9172:HOH:O	2.02	0.59
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.17	0.59
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.66	0.59
5:F:126:LEU:O	5:F:130:VAL:HG23	2.02	0.59
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.84	0.59
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.67	0.59
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.32	0.59
3:D:1243:THR:OG1	3:D:1253:THR:HB	2.02	0.59
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.84	0.59
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.67	0.59
3:D:1463:LYS:O	3:D:1467:ILE:HD12	2.01	0.59
2:C:585:GLU:O	2:C:588:VAL:HG22	2.01	0.59
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.85	0.59
2:M:89:THR:HA	2:M:129:ILE:O	2.03	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
3:D:601:ARG:NH2	3:D:612:GLY:HA2	2.17	0.59
5:P:404:ALA:O	5:P:408:LEU:HD23	2.02	0.59
2:M:626:ARG:H	2:M:639:GLN:NE2	2.00	0.59
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.66	0.59
2:C:398:THR:OG1	2:C:633:GLN:HG3	2.02	0.59
3:D:734:GLU:HB3	8:D:9079:HOH:O	2.03	0.59
2:M:41:ASN:O	2:M:46:ALA:HB2	2.02	0.59
3:N:397:LYS:HD3	8:N:9216:HOH:O	2.01	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:168:THR:HA	8:D:9120:HOH:O	2.02	0.59
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.32	0.59
1:K:156:HIS:HD2	1:K:157:GLY:H	1.49	0.59
2:C:116:GLY:HA3	2:C:378:LEU:HD23	1.84	0.59
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.32	0.59
2:C:530:GLU:HA	8:C:1268:HOH:O	2.03	0.59
2:C:181:VAL:HB	8:C:1316:HOH:O	2.02	0.59
1:L:175:ARG:O	3:N:851:LEU:HD21	2.03	0.59
2:C:317:VAL:HG12	8:C:1247:HOH:O	2.02	0.59
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.82	0.59
2:M:1002:GLU:HG2	8:P:3095:HOH:O	2.02	0.59
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.67	0.59
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.32	0.59
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.84	0.59
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.68	0.59
2:M:904:PRO:HA	8:M:1161:HOH:O	2.01	0.59
1:L:180:GLN:HG2	8:N:9258:HOH:O	2.02	0.59
3:N:907:GLU:HG2	3:N:908:LYS:N	2.18	0.59
3:N:847:ASP:HA	3:N:850:LEU:HD13	1.84	0.59
2:C:602:GLU:HA	2:C:647:GLN:O	2.03	0.59
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.32	0.59
3:D:1385:GLY:HA2	8:D:9279:HOH:O	2.01	0.59
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.84	0.59
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.84	0.59
2:M:342:ASP:O	2:M:346:VAL:HG23	2.02	0.59
2: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
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.31	0.59
1:L:180:GLN:HA	8:N:9258:HOH:O	2.02	0.59
2:C:895:TYR:HD1	2:C:991:GLN:HE21	1.51	0.59
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.84	0.59
3:N:152:LEU:HD23	3:N:152:LEU:N	2.15	0.59
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.02	0.59
1:K:141:GLU:HA	8:K:3093:HOH:O	2.00	0.59
3:N:462:GLN:HG3	3:N:513:ILE:HD13	1.83	0.59
3:D:1157:GLY:HA2	8:D:9700:HOH:O	2.02	0.59
3:N:1267:ARG:HH11	3:N:1267:ARG:HB2	1.67	0.59
3:D:1061:PHE:HA	8:D:9283:HOH:O	2.01	0.59
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.67	0.59
2:M:332:ARG:HG2	2:M:332:ARG:HH11	1.67	0.59
3:N:705:ALA:HB2	8:N:9482:HOH:O	2.02	0.59
3:D:1354:LYS:HD2	8:D:9706:HOH:O	2.03	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.83	0.59
3:D:491:LYS:HB2	8:D:9725:HOH:O	2.02	0.59
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.83	0.59
3:D:764:LEU:HB3	8:D:9083:HOH:O	2.02	0.59
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.33	0.59
2:C:720:GLU:HA	2:C:759:THR:O	2.03	0.59
2:C:709:GLU:CD	2:C:824:ARG:HH12	2.05	0.59
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.85	0.59
2:M:1014:SER:HB3	2:M:1017:THR:O	2.02	0.59
1:K:14:ARG:HG3	1:K:22:GLU:HB2	1.85	0.59
2:M:798:GLY:H	2:M:827:VAL:CG1	2.15	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
2:C:983:ILE:HG23	3:D:944:THR:O	2.02	0.59
2:C:135:VAL:O	2:C:392:SER:HA	2.03	0.59
5:P:166:LEU:O	5:P:171:LYS:HB2	2.02	0.59
2:M:938:LYS:HB3	2:M:939:ARG:HH21	1.67	0.59
3:D:1304:LYS:HA	8:D:9240:HOH:O	2.02	0.59
2:C:51:THR:HB	2:C:348:LEU:HD23	1.85	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
3:N:149:LYS:HD3	8:N:9307:HOH:O	2.02	0.59
2:M:1015:LEU:HB2	5:P:334:PRO:O	2.02	0.59
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.33	0.59
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.31	0.59
2:C:905:ILE:H	2:C:905:ILE:CD1	2.07	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:679:ARG:HB2	3:N:682:ASP:OD1	2.02	0.59
8:K:3080:HOH:O	1:L:36:LEU:HD12	2.02	0.59
1:L:80:LEU:HD23	3:N:867:ARG:NH1	2.18	0.59
3:N:920:LEU:HB2	8:N:9246:HOH:O	2.01	0.59
3:N:588:GLY:HA2	8:N:9699:HOH:O	2.03	0.59
3:N:169:TYR:HD1	3:N:169:TYR:H	1.49	0.59
1:A:133:GLU:HG2	1:A:134:GLU:N	2.16	0.59
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.85	0.59
1:L:64:GLU:HG3	8:L:3767:HOH:O	2.01	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
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.07	0.59
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.84	0.59
2:C:778:PHE:CZ	5:F:409:LYS:HB2	2.38	0.59
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.85	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:70:GLU:HA	8:C:1554:HOH:O	2.03	0.59
3:D:817:GLU:HG3	3:D:840:LYS:HZ2	1.68	0.59
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.37	0.59
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.83	0.59
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.84	0.59
3:N:984:THR:HB	3:N:987:GLU:OE1	2.01	0.59
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.01	0.59
5:P:245:GLN:HB3	8:P:4764:HOH:O	2.02	0.59
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.84	0.59
3:D:380:GLU:O	3:D:382:GLU:N	2.35	0.59
5:F:102:LEU:O	5:F:106:VAL:HG23	2.03	0.59
3:N:1091:SER:HA	8:N:9056:HOH:O	2.02	0.59
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.85	0.59
3:D:500:ARG:HH11	3:D:500:ARG:HG3	1.68	0.59
5:F:420:ASP:O	5:F:422:LEU:HD23	2.03	0.59
2:M:714:ASP:HB2	8:M:1654:HOH:O	2.03	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
1:B:101:LEU:HG	1:B:114:PHE:HA	1.84	0.59
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.33	0.59
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.85	0.59
3:N:125:GLN:HE22	3:N:587:ARG:HH21	1.51	0.59
5:F:416:ARG:HB3	8:F:511:HOH:O	2.02	0.59
4:E:88:GLU:OE1	4:E:91:ARG:HD2	2.03	0.59
2:M:691:SER:HB2	2:M:858:MET:SD	2.42	0.59
2:M:1090:LYS:HE3	3:N:88:TYR:O	2.03	0.58
3:D:424:GLY:HA2	3:D:435:VAL:O	2.02	0.58
5:P:85:LEU:HD22	5:P:193:ARG:HD3	1.84	0.58
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.38	0.58
3:N:629:SER:O	3:N:744:GLN:HG2	2.03	0.58
1:L:62:LEU:H	1:L:62:LEU:HD12	1.67	0.58
3:N:984:THR:H	3:N:987:GLU:CD	2.07	0.58
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.38	0.58
2:C:49:ARG:HG3	2:C:266:ARG:HH22	1.68	0.58
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.04	0.58
2:M:604:ALA:HB3	2:M:612:VAL:O	2.03	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
1:A:216:GLU:HG2	8:A:475:HOH:O	2.02	0.58
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.83	0.58
2:C:578:VAL:HG13	2:C:671:ASN:HB3	1.86	0.58
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.84	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1412:LYS:HG3	8:D:9515:HOH:O	2.03	0.58
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.02	0.58
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.84	0.58
3:D:637:LEU:HD11	3:D:641:GLN:HB2	1.84	0.58
3:N:1124:GLN:HG2	3:N:1133:ARG:HG2	1.85	0.58
2:M:580:MET:HB3	2:M:584:GLU:CD	2.23	0.58
3:D:420:VAL:HG23	8:D:9627:HOH:O	2.02	0.58
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.84	0.58
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.68	0.58
5:F:168:LYS:HG3	8:F:516:HOH:O	2.03	0.58
5:P:152:ASP:HA	8:P:2840:HOH:O	2.03	0.58
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.84	0.58
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.33	0.58
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.02	0.58
5:P:393:THR:HG22	5:P:394:ARG:H	1.66	0.58
3:D:907:GLU:HG2	3:D:1027:GLY:N	2.17	0.58
3:N:947:ILE:HD12	3:N:947:ILE:O	2.03	0.58
2:M:162:ILE:O	2:M:164:PRO:HD3	2.02	0.58
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.67	0.58
2:M:722:ILE:HG13	2:M:757:GLY:O	2.02	0.58
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.68	0.58
2:M:575:GLN:H	2:M:667:ALA:HB1	1.68	0.58
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.84	0.58
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.85	0.58
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.02	0.58
3:N:1304:LYS:HA	8:N:2011:HOH:O	2.03	0.58
2:M:357:GLU:O	2:M:360:LEU:HG	2.04	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
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.83	0.58
2:C:487:THR:HA	8:C:1431:HOH:O	2.02	0.58
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.85	0.58
2:C:139:GLN:HA	2:C:411:SER:O	2.03	0.58
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.17	0.58
5:F:129:GLU:HB3	5:F:142:ARG:HH21	1.67	0.58
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.04	0.58
2:C:437:ARG:O	2:C:467:ILE:HD13	2.04	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
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.33	0.58
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.86	0.58
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.84	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:47:LYS:HE2	4:O:47:LYS:N	2.19	0.58
2:C:690:ILE:HD13	2:C:833:LEU:HD21	1.84	0.58
2:C:881:ASN:HD22	2:C:881:ASN:N	1.99	0.58
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.86	0.58
3:D:877:PRO:O	3:D:880:ILE:HG22	2.03	0.58
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.86	0.58
2:C:166:PRO:HD3	2:C:265:ARG:HE	1.68	0.58
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.86	0.58
3:D:704:ARG:HE	3:D:705:ALA:H	1.50	0.58
2:C:1032:PHE:CE1	2:C:1052:MET:HG2	2.37	0.58
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.68	0.58
3:N:1122:LEU:O	3:N:1134:LEU:HD23	2.04	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
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
3:N:756:GLN:O	3:N:760:ARG:HG2	2.04	0.58
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.33	0.58
2:M:210:GLU:HA	8:M:1749:HOH:O	2.03	0.58
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.34	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
2:C:44:ILE:HB	8:C:1185:HOH:O	2.04	0.58
3:D:865:THR:HG23	3:D:874:GLU:HG2	1.84	0.58
1:B:80:LEU:HD11	8:D:9557: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
5:P:392:VAL:HG12	8:P:2872:HOH:O	2.04	0.58
1:B:10:VAL:HA	8:B:381:HOH:O	2.02	0.58
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.39	0.58
5:F:291:ILE:O	5:F:295:MET:HB2	2.03	0.58
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.33	0.58
2:C:758:ARG:HB3	2:C:788:THR:O	2.04	0.58
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.33	0.58
1:L:23:PHE:HD1	8:L:3037:HOH:O	1.86	0.58
2:C:159:ILE:HG22	8:C:1786:HOH:O	2.03	0.58
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.04	0.58
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.18	0.58
2:M:342:ASP:O	2:M:345:ARG:HG3	2.04	0.58
5:P:93:LEU:HD12	5:P:191:ASN:HD21	1.68	0.58
2:C:946:ARG:HB2	8:C:1715:HOH:O	2.03	0.58
3:N:998:GLU:HG3	8:N:9582:HOH:O	2.04	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.39	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
2:M:1111:ILE:CD1	2:M:1112:PHE:H	2.14	0.58
3:D:28:LYS:HG2	8:D:9642:HOH:O	2.04	0.58
5:F:218:GLN:HE21	5:F:221:ILE:HD12	1.67	0.58
5:P:154:LYS:HB3	8:P:3247:HOH:O	2.03	0.58
2:C:276:LYS:O	2:C:280:LYS:HB2	2.04	0.58
2:C:695:LEU:HD22	2:C:832:LYS:HG2	1.86	0.58
3:D:619:LEU:HB2	8:D:9069:HOH:O	2.04	0.58
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.84	0.58
1:K:39:PRO:O	1:K:43:ILE:HG12	2.04	0.58
1:A:57:TYR:CE2	1:A:59:GLU:HA	2.39	0.58
3:D:470:LEU:HD11	3:D:509:PRO:HG3	1.86	0.58
1:K:152:PRO:HD2	1:K:155:LYS:HG3	1.85	0.58
3:D:1341:PRO:O	3:D:1344:VAL:HG23	2.04	0.58
3:D:178:LEU:HD21	3:D:199:LEU:H	1.69	0.58
3:D:1491:THR:O	3:D:1495:ILE:HD13	2.04	0.58
2:M:166:PRO:HD3	2:M:265:ARG:HG3	1.85	0.58
5:F:220:LEU:O	5:F:224:VAL:HG23	2.03	0.58
5:P:220:LEU:O	5:P:224:VAL:HG23	2.04	0.58
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.04	0.58
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.84	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
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.86	0.57
2:C:29:ALA:HB2	2:C:337:GLY:HA2	1.86	0.57
2:C:433:THR:HA	8:C:1154:HOH:O	2.02	0.57
3:N:810:GLU:HA	3:N:813:LEU:HD23	1.84	0.57
3:N:119:SER:OG	3:N:123:LEU:HD13	2.03	0.57
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.67	0.57
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.86	0.57
3:D:957:PRO:HB3	3:D:959:GLU:OE1	2.04	0.57
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.38	0.57
3:D:675:ARG:O	3:D:678:GLU:HG2	2.04	0.57
1:A:211:LEU:O	1:A:215:VAL:HG13	2.04	0.57
3:D:920:LEU:HD21	8:D:9121:HOH:O	2.03	0.57
5:P:187:LEU:HD23	5:P:191:ASN:ND2	2.18	0.57
1:A:103:ALA:HB2	8:A:343:HOH:O	2.03	0.57
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.68	0.57
2:C:847:GLY:HA3	8:C:1126:HOH:O	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.86	0.57
2:C:200:LEU:HB2	8:C:1211:HOH:O	2.04	0.57
1:B:150:TYR:CD2	3:D:857:ILE:HG13	2.38	0.57
2:M:678:PRO:HG2	3:N:947:ILE:HD11	1.85	0.57
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.33	0.57
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.19	0.57
5:P:362:SER:O	5:P:367:MET:HE2	2.04	0.57
1:A:191:ASP:O	1:A:192:LEU:HD23	2.04	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
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.68	0.57
1:A:178:ALA:CB	2:C:864:GLY:H	2.18	0.57
2:C:752:GLY:H	2:C:792:VAL:HB	1.70	0.57
2:M:759:THR:HB	2:M:785:VAL:HG21	1.87	0.57
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.35	0.57
5:P:81:VAL:HG12	5:P:85:LEU:HG	1.86	0.57
3:D:1232:PRO:HA	3:D:1235:GLN:OE1	2.04	0.57
2:M:328:LEU:H	2:M:433:THR:HG21	1.69	0.57
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.34	0.57
3:D:153:LEU:HD12	3:D:154:THR:H	1.69	0.57
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.87	0.57
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.85	0.57
2:C:320:HIS:HB2	8:C:1663:HOH:O	2.04	0.57
1:A:46:SER:HB3	2:C:856:GLU:HG3	1.86	0.57
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.26	0.57
3:N:1433:SER:HB2	3:N:1457:ASP:OD1	2.04	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:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.86	0.57
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.85	0.57
3:N:1127:GLU:HG3	3:N:1133:ARG:NH1	2.18	0.57
2:M:874:LEU:CD1	3:N:783:ARG:HB2	2.35	0.57
5:P:93:LEU:HG	5:P:190:ALA:CB	2.34	0.57
3:N:823:LEU:HD11	8:N:9446:HOH:O	2.03	0.57
3:D:1285:GLU:H	3:D:1285:GLU:CD	2.08	0.57
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.05	0.57
2:M:27:ARG:HD2	8:M:1403:HOH:O	2.04	0.57
2:C:157:ARG:HA	8:C:1144:HOH:O	2.04	0.57
3:N:399:ARG:HG2	8:N:9313:HOH:O	2.04	0.57
5:F:120:THR:HA	8:F:562:HOH:O	2.04	0.57
3:D:105:VAL:HG13	3:D:124:GLU:OE1	2.05	0.57
2:M:318:PRO:HD3	8:M:1200:HOH:O	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.86	0.57
2:C:750:LYS:HB2	3:D:681:ARG:NH2	2.19	0.57
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.39	0.57
2:C:177:GLU:HB3	8:C:1316:HOH:O	2.02	0.57
3:D:159:ARG:HB2	3:D:159:ARG:HH11	1.69	0.57
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.05	0.57
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.03	0.57
1:K:162:ILE:HG13	1:K:163:ASN:OD1	2.04	0.57
3:N:524:LEU:HD23	8:N:9282:HOH:O	2.04	0.57
3:D:42:ASP:O	3:D:46:ASP:HB2	2.04	0.57
2:C:769:PRO:O	2:C:772:ARG:HB3	2.05	0.57
2:C:157:ARG:CZ	2:C:314:THR:HA	2.34	0.57
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.86	0.57
3:D:478:LEU:HD23	3:D:496:LEU:HD21	1.86	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
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.86	0.57
2:M:534:VAL:N	2:M:538:GLN:HE22	2.01	0.57
2:C:885:ILE:HG23	3:D:949:ILE:O	2.05	0.57
2:C:626:ARG:H	2:C:639:GLN:HE21	1.51	0.57
3:D:840:LYS:HD2	8:D:9835:HOH:O	2.05	0.57
2:C:575:GLN:H	2:C:667:ALA:HB1	1.68	0.57
3:N:899:LEU:HB3	3:N:921:ARG:NH1	2.19	0.57
3:D:159:ARG:HB2	3:D:159:ARG:NH1	2.20	0.57
2:M:473:ARG:HD2	2:M:475:VAL:HG22	1.85	0.57
2:M:516:ARG:NE	3:N:1068:LEU:HD22	2.20	0.57
3:D:1389:LEU:HD12	3:D:1390:LEU:H	1.68	0.57
2:C:724:ARG:NE	2:C:737:LEU:O	2.38	0.57
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.33	0.57
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.39	0.57
2:M:139:GLN:NE2	2:M:418:LEU:HD22	2.19	0.57
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.38	0.57
3:D:56:TYR:CE2	3:D:66:GLN:HA	2.39	0.57
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.86	0.57
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.86	0.57
1:L:143:ARG:HH11	1:L:158:ILE:CG2	2.17	0.57
3:D:1377:LYS:HE2	3:D:1394:VAL:HG22	1.87	0.57
3:N:1128:VAL:HB	8:N:9347:HOH:O	2.05	0.57
1:A:127:LEU:HD12	1:A:128:HIS:N	2.18	0.57
8:D:2049:HOH:O	5:F:168:LYS:HE3	2.03	0.57
2:M:10:ARG:HA	2:M:10:ARG:CZ	2.34	0.57
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.20	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:30:GLU:HA	8:D:9510:HOH:O	2.05	0.57
4:O:17:TYR:CD2	4:O:17:TYR:N	2.72	0.57
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.31	0.57
2:C:300:ASP:HB2	8:C:1289:HOH:O	2.04	0.57
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.04	0.57
2:M:145:GLY:O	2:M:163:ILE:HG23	2.04	0.57
2:M:820:ARG:HD3	2:M:821:GLU:HB3	1.86	0.57
3:D:397:LYS:HG3	8:D:9912:HOH:O	2.05	0.57
5:F:385:GLU:O	5:F:397:ILE:HD13	2.05	0.57
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.87	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
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.85	0.57
2:M:1006:HIS:O	3:N:648:MET:HE2	2.04	0.57
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.20	0.57
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.57
3:N:1231:GLU:OE1	3:N:1232:PRO:HG3	2.04	0.57
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.87	0.57
3:D:235:ALA:HB3	8:D:2026:HOH:O	2.04	0.57
2:M:1106:ASP:OD1	3:N:7:LYS:HD2	2.05	0.57
3:D:519:VAL:HA	3:D:544:TYR:OH	2.05	0.57
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.40	0.57
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.86	0.57
1:B:196:THR:HG23	8:B:382:HOH:O	2.05	0.57
2:C:882:LEU:HD22	3:D:951:ILE:HD13	1.85	0.57
3:N:119:SER:N	3:N:123:LEU:HD22	2.18	0.57
2:C:41:ASN:O	2:C:46:ALA:HB2	2.05	0.57
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.86	0.57
3:D:1491:THR:HG23	8:D:9315:HOH:O	2.03	0.57
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.85	0.57
1:K:68:ILE:HD13	1:K:138:LEU:HD11	1.86	0.57
1:A:137:ARG:HD2	1:A:137:ARG:H	1.68	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
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.40	0.57
2:M:680:ASP:HB2	2:M:682:TYR:CD2	2.40	0.57
3:N:679:ARG:HD2	8:N:9182:HOH:O	2.03	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:N:53:ILE:HG23	3:N:54:LYS:N	2.19	0.57
1:L:27:PRO:O	1:L:28:LEU:HD23	2.03	0.57
3:N:1406:ARG:HD2	3:N:1412:LYS:HD2	1.86	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:899:LEU:HB3	3:N:921:ARG:HH12	1.70	0.57
5:F:139:ALA:HB2	8:F:644:HOH:O	2.04	0.57
2:C:945:ARG:HB3	2:C:945:ARG:NH1	2.20	0.57
4:E:43:GLU:HG2	4:E:44:GLU:H	1.69	0.57
3:N:988:ARG:HD2	3:N:989:TYR:N	2.20	0.57
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.87	0.56
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.69	0.56
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.86	0.56
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.35	0.56
2:M:206:THR:HA	8:M:1787:HOH:O	2.05	0.56
2:C:604:ALA:HB3	2:C:612:VAL:O	2.04	0.56
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.35	0.56
3:N:799:LYS:H	3:N:826:PRO:HG2	1.70	0.56
1:B:228:PRO:O	1:B:229:GLN:HG3	2.05	0.56
2:C:674:VAL:HG23	2:C:869:VAL:O	2.05	0.56
2:M:26:TYR:HD2	2:M:121:MET:HB2	1.70	0.56
3:N:197:SER:CB	3:N:203:ALA:HB3	2.27	0.56
3:D:133:ILE:HG23	3:D:456:MET:SD	2.46	0.56
5:P:350:LEU:HG	5:P:354:LEU:HD12	1.87	0.56
2:C:630:ARG:NH1	2:C:630:ARG:HG2	2.20	0.56
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.35	0.56
2:M:674:VAL:HG23	2:M:869:VAL:O	2.05	0.56
3:N:486:ARG:HB3	8:N:9366:HOH:O	2.05	0.56
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.05	0.56
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.87	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:569:VAL:HG12	2:M:996:LYS:O	2.05	0.56
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.21	0.56
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.30	0.56
2:M:460:ARG:HB3	2:M:460:ARG:NH1	2.20	0.56
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.86	0.56
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.20	0.56
4:O:48:MET:HG2	4:O:49:GLN:H	1.70	0.56
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.86	0.56
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.87	0.56
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.45	0.56
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.71	0.56
1:K:123:MET:O	1:K:125:PRO:HD3	2.05	0.56
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.87	0.56
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.68	0.56
3:D:386:HIS:HA	8:D:9065:HOH:O	2.04	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.34	0.56
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.86	0.56
1:B:57:TYR:HB3	1:B:141:GLU:HG2	1.86	0.56
2:C:97:ARG:HD2	8:C:1601:HOH:O	2.06	0.56
3:N:835:SER:HA	8:N:9080:HOH:O	2.05	0.56
3:D:1200:VAL:HG22	3:D:1373:ARG:NH1	2.20	0.56
2:C:231:PRO:HB3	8:C:1721:HOH:O	2.04	0.56
1:A:40:LEU:O	1:A:44:LEU:HD12	2.05	0.56
3:N:42:ASP:O	3:N:46:ASP:HB2	2.06	0.56
3:D:93:ILE:CD1	3:D:548:ILE:HD13	2.36	0.56
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.30	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
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.88	0.56
3:N:953:ASP:HA	8:N:9114:HOH:O	2.05	0.56
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.88	0.56
3:D:703:ASN:ND2	3:D:704:ARG:H	2.03	0.56
2:M:580:MET:SD	2:M:584:GLU:HG3	2.46	0.56
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.26	0.56
2:M:1042:ALA:HB3	3:N:710:ARG:HB3	1.87	0.56
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.04	0.56
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.05	0.56
3:N:1066:THR:HG22	3:N:1069:GLU:CG	2.33	0.56
3:D:422:ALA:H	3:D:427:VAL:CG1	2.18	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
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.87	0.56
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.17	0.56
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.36	0.56
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.05	0.56
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.35	0.56
3:D:1307:LYS:HD3	3:D:1307:LYS:H	1.71	0.56
1:K:20:TYR:CD2	1:K:21:GLY:N	2.74	0.56
3:N:459:GLU:HG3	3:N:460:ALA:N	2.20	0.56
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.69	0.56
3:N:1136:LYS:O	3:N:1139:ASP:HB2	2.06	0.56
3:D:639:LEU:HD22	3:D:766:ALA:HA	1.87	0.56
2:C:736:ASP:HA	2:C:744:ARG:NH1	2.21	0.56
1:A:62:LEU:HD12	8:A:375:HOH:O	2.04	0.56
3:N:695:ILE:HG21	3:N:720:LEU:HD11	1.88	0.56
3:N:1031:ASN:HB3	3:N:1034:GLN:NE2	2.21	0.56
2:C:979:THR:HG23	2:C:981:GLU:N	2.09	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.87	0.56
2:M:630:ARG:HD3	2:M:705:ILE:HG13	1.87	0.56
2:C:129:ILE:HG12	2:C:386:PHE:O	2.05	0.56
5:P:407:LYS:HB2	8:P:4644:HOH:O	2.05	0.56
3:N:706:PRO:HA	8:N:9170:HOH:O	2.06	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
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
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.70	0.56
3:D:1376:MET:HE2	3:D:1421:LEU:HB2	1.86	0.56
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.06	0.56
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.87	0.56
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.40	0.56
2:M:798:GLY:H	2:M:827:VAL:HG11	1.70	0.56
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.40	0.56
2:M:26:TYR:O	2:M:30:LEU:HD12	2.06	0.56
2:C:173:ASP:O	2:C:184:MET:HA	2.06	0.56
2:M:948:GLU:HB3	8:M:1188:HOH:O	2.04	0.56
1:K:44:LEU:O	1:K:174:VAL:HG21	2.06	0.56
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.05	0.56
3:D:475:LYS:HA	3:D:478:LEU:HG	1.87	0.56
2:M:269:LEU:HG	2:M:288:ARG:N	2.19	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
2:M:602:GLU:HA	2:M:647:GLN:O	2.06	0.56
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.88	0.56
2:M:63:GLY:CA	2:M:103:LYS:HE2	2.36	0.56
4:E:91:ARG:HB3	8:E:105:HOH:O	2.05	0.56
3:N:1490:LYS:HB3	8:O:4026:HOH:O	2.05	0.56
3:D:829:VAL:HG21	8:D:9103:HOH:O	2.05	0.56
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.87	0.56
2:M:1015:LEU:HA	5:P:335:ASP:HB3	1.88	0.56
2:C:724:ARG:HG3	2:C:741:GLY:N	2.14	0.56
3:N:928:ALA:O	3:N:931:LEU:HB2	2.06	0.56
3:D:607:LEU:HB3	3:D:614:PHE:HE2	1.70	0.56
3:D:214:GLU:CD	3:D:390:PRO:HB2	2.26	0.56
2:C:176:VAL:C	2:C:178:PRO:HD3	2.25	0.56
3:D:1217:ILE:HD13	3:D:1480:PHE:CE2	2.41	0.56
4:O:73:LEU:HD23	8:O:4394:HOH:O	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.20	0.56
2:C:633:GLN:NE2	2:C:633:GLN:H	2.04	0.56
3:N:552:ASN:HA	3:N:555:LYS:HD2	1.87	0.56
2:C:189:ARG:HB3	8:C:1497:HOH:O	2.06	0.56
2:M:21:ILE:HD12	2:M:21:ILE:H	1.70	0.56
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.21	0.56
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.88	0.56
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.71	0.56
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.05	0.56
2:C:352:ALA:O	2:C:356:ARG:HG3	2.05	0.56
2:C:289:THR:HG22	2:C:290:LEU:HD22	1.86	0.56
5:P:144:ILE:HA	8:P:4865:HOH:O	2.05	0.56
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.19	0.56
2:C:987:ILE:HD11	3:D:946:GLY:HA3	1.86	0.56
3:N:493:ARG:O	3:N:497:GLU:HG3	2.06	0.56
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.36	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
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.88	0.56
3:N:1087:ARG:NE	3:N:1238:MET:HB2	2.21	0.56
5:P:135:ILE:O	5:P:135:ILE:HD13	2.06	0.56
3:N:560:GLN:HE21	5:P:218:GLN:NE2	2.04	0.56
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.21	0.56
1:B:2:LEU:HD12	1:B:3:ASP:N	2.21	0.56
5:P:401:GLU:O	5:P:405:LEU:HB2	2.05	0.56
2:M:1067:TYR:CE1	2:M:1071:ILE:HD11	2.40	0.56
3:N:28:LYS:HB2	3:N:41:ARG:HD2	1.87	0.56
3:N:82:LYS:HE2	8:N:9124:HOH:O	2.05	0.56
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
5:P:153:PRO:HG2	5:P:154:LYS:H	1.71	0.56
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.32	0.56
2:C:724:ARG:CG	2:C:740:GLU:HA	2.36	0.56
5:F:328:PHE:HB3	8:F:674:HOH:O	2.05	0.56
3:N:875:THR:HG23	3:N:879:ARG:HE	1.71	0.56
2:M:404:LEU:O	2:M:407:LYS:HB2	2.06	0.56
1:L:143:ARG:HH11	1:L:158:ILE:HG23	1.70	0.56
3:N:1310:ARG:HG3	3:N:1327:ARG:HB2	1.86	0.56
3:D:969:ARG:O	3:D:972:LEU:HB3	2.06	0.56
2:C:445:GLU:HB2	8:C:1296:HOH:O	2.06	0.56
2:M:493:ARG:HD2	8:M:1824:HOH:O	2.06	0.56
2:C:39:ARG:HE	2:C:39:ARG:HA	1.71	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:417:LYS:HG3	8:F:684:HOH:O	2.06	0.56
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.88	0.55
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.88	0.55
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.88	0.55
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.88	0.55
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.35	0.55
2:C:313:LEU:CA	2:C:321:GLU:HG3	2.33	0.55
5:P:264:MET:O	5:P:268:ILE:HG13	2.06	0.55
4:E:54:LEU:HG	4:E:58:PRO:CG	2.36	0.55
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.41	0.55
1:A:178:ALA:HB2	2:C:864:GLY:H	1.69	0.55
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.87	0.55
3:N:1262:LEU:HD11	3:N:1351:GLU:HG2	1.88	0.55
3:D:728:LEU:HD22	3:D:745:MET:SD	2.46	0.55
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.36	0.55
5:P:201:LYS:HG2	8:P:3872:HOH:O	2.04	0.55
3:N:245:LEU:HA	8:N:9639:HOH:O	2.06	0.55
3:N:894:LYS:HG3	8:N:9120:HOH:O	2.06	0.55
3:N:530:VAL:HG23	3:N:534:ARG:O	2.06	0.55
3:N:80:VAL:HG12	3:N:81:THR:N	2.21	0.55
1:B:150:TYR:CE2	3:D:857:ILE:HG13	2.40	0.55
2:M:5:ARG:HG3	8:M:1295:HOH:O	2.05	0.55
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.87	0.55
5:F:132:ARG:O	5:F:136:LEU:HG	2.06	0.55
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.06	0.55
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.71	0.55
2:C:902:ILE:O	2:C:904:PRO:HD3	2.06	0.55
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.88	0.55
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.07	0.55
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.87	0.55
2:C:956:GLY:HA2	8:C:1408:HOH:O	2.05	0.55
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.71	0.55
3:N:659:LYS:HE3	3:N:663:GLU:CD	2.27	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:D:604:THR:HA	3:D:607:LEU:HD12	1.88	0.55
3:N:834:THR:HG22	3:N:838:ARG:HD2	1.86	0.55
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.41	0.55
3:D:112:ILE:HG13	3:D:124:GLU:OE2	2.06	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
3:N:488:ARG:HH22	3:N:491:LYS:NZ	2.04	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:97:ARG:HG3	8:M:1631:HOH:O	2.06	0.55
3:D:980:MET:HG3	8:D:9110:HOH:O	2.06	0.55
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.89	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
3:D:890:VAL:HA	8:D:9150:HOH:O	2.06	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: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
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.88	0.55
3:D:211:VAL:HG11	8:D:9373:HOH:O	2.06	0.55
5:P:403:LYS:HD3	8:P:4835:HOH:O	2.07	0.55
2:M:140:ILE:HD11	2:M:412:ALA:HA	1.88	0.55
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.06	0.55
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.87	0.55
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	2.06	0.55
5:P:327:SER:HG	5:P:332:PHE:HZ	1.54	0.55
5:P:264:MET:O	5:P:267:THR:HB	2.07	0.55
1:L:206:THR:CG2	1:L:209:GLU:H	2.18	0.55
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.37	0.55
1:B:184:THR:O	1:B:192:LEU:HB2	2.07	0.55
5:P:218:GLN:NE2	5:P:221:ILE:HD12	2.21	0.55
2:C:1033:GLY:HA3	8:C:1885:HOH:O	2.07	0.55
2:M:583:LEU:O	2:M:587:VAL:HG23	2.06	0.55
1:K:104:GLU:HG2	1:K:105:GLY:N	2.21	0.55
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.72	0.55
3:D:592:THR:N	3:D:600:LEU:HD21	2.22	0.55
3:D:210:ARG:HG3	3:D:398:ALA:H	1.72	0.55
2:M:140:ILE:CG2	2:M:333:ILE:HG13	2.35	0.55
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.36	0.55
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.88	0.55
2:M:697:ARG:HG3	2:M:699:PHE:CD1	2.41	0.55
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.09	0.55
2:M:207:LEU:HD22	2:M:221:LEU:HD13	1.86	0.55
2:C:113:VAL:HG21	2:C:373:VAL:HG21	1.89	0.55
3:N:1200:VAL:HG22	3:N:1373:ARG:NH1	2.22	0.55
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.38	0.55
1:A:219:ARG:NH2	1:B:223:THR:HG23	2.22	0.55
1:B:148:VAL:HA	8:B:322:HOH:O	2.05	0.55
1:B:27:PRO:HD2	8:B:363:HOH:O	2.06	0.55
2:M:114:PHE:H	2:M:114:PHE:HD1	1.52	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.21	0.55
2:M:585:GLU:HG2	2:M:665:PHE:HD2	1.70	0.55
4:E:4:PRO:HB3	8:E:138:HOH:O	2.07	0.55
2:M:517:ARG:HB2	8:M:1758:HOH:O	2.07	0.55
2:C:64:LEU:HD11	8:C:1196:HOH:O	2.05	0.55
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.89	0.55
2:M:770:GLU:HA	8:M:1825:HOH:O	2.06	0.55
4:E:37:ASN:HD22	4:E:89:MET:HE3	1.72	0.55
2:C:478:VAL:HG11	8:C:1719:HOH:O	2.06	0.55
3:N:1290:LEU:HD11	3:N:1311:LEU:HD22	1.89	0.55
2:C:595:LEU:O	2:C:655:LEU:HG	2.07	0.55
2:M:397:GLU:HG3	2:M:633:GLN:NE2	2.22	0.55
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.41	0.55
2:C:534:VAL:H	2:C:538:GLN:NE2	2.02	0.55
2:C:51:THR:HG22	8:C:1597:HOH:O	2.06	0.55
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.05	0.55
3:N:1278:ASP:HB2	3:N:1318:TYR:OH	2.07	0.55
2:C:716:LYS:HG2	8:C:1417:HOH:O	2.06	0.55
5:F:370:LYS:HZ3	5:F:371:LEU:HG	1.71	0.55
2:M:601:GLY:O	2:M:648:ARG:HA	2.06	0.55
2:C:918:LEU:HD23	2:C:967:PHE:O	2.07	0.55
3:N:1047:LYS:HE2	8:N:9823:HOH:O	2.06	0.55
2:C:203:ASP:HB3	8:C:1639:HOH:O	2.05	0.55
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.88	0.55
1:A:180:GLN:HB3	8:A:328:HOH:O	2.06	0.55
3:N:1357:ARG:HD3	8:N:9210:HOH:O	2.06	0.55
2:M:520:GLU:HB2	8:M:1758:HOH:O	2.07	0.55
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.87	0.55
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.89	0.55
2:M:196:LEU:HB2	8:M:1510:HOH:O	2.05	0.55
3:D:842:VAL:HG12	8:D:9557:HOH:O	2.07	0.55
3:D:704:ARG:HG2	3:D:736:PHE:HB3	1.89	0.55
3:D:1397:LYS:O	3:D:1400:VAL:HB	2.07	0.55
1:A:219:ARG:NH1	1:B:223:THR:HG23	2.22	0.55
2:M:878:SER:HB3	3:N:1029:ARG:HD3	1.89	0.55
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.37	0.55
4:O:33:HIS:HB3	8:O:3948:HOH:O	2.06	0.55
1:B:110:LYS:HZ3	1:B:112:ARG:HD2	1.70	0.55
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.89	0.55
2:M:585:GLU:HG2	2:M:665:PHE:CD2	2.42	0.55
3:D:695:ILE:HG21	3:D:720:LEU:HD11	1.88	0.55
4:O:43:GLU:H	4:O:43:GLU:CD	2.10	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:732:ALA:HB2	8:C:1371:HOH:O	2.07	0.55
3:D:551:ASN:O	3:D:555:LYS:HG3	2.06	0.55
3:N:1097:LYS:HA	8:N:9081:HOH:O	2.05	0.55
5:F:82:ARG:HA	8:F:574:HOH:O	2.06	0.55
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.31	0.55
2:M:722:ILE:HG21	2:M:821:GLU:OE2	2.07	0.55
3:N:838:ARG:HH11	3:N:874:GLU:HG2	1.71	0.55
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.07	0.55
3:N:178:LEU:HG	3:N:200:ASP:H	1.71	0.55
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.27	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
4:O:69:LEU:HB3	8:O:3383:HOH:O	2.05	0.55
2:C:195:LEU:HD23	2:C:238:LEU:HG	1.89	0.55
2:C:160:ALA:O	2:C:173:ASP:HA	2.07	0.55
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.89	0.55
2:C:436:GLY:HA3	2:C:469:THR:OG1	2.06	0.55
3:N:154:THR:HA	8:N:9161:HOH:O	2.07	0.55
2:M:902:ILE:O	2:M:904:PRO:HD3	2.07	0.55
2:M:244:PRO:HD3	8:M:1549:HOH:O	2.06	0.55
2:M:132:ALA:HB1	2:M:632:ASN:HD21	1.71	0.55
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.42	0.55
2:M:209:ARG:O	2:M:213:ALA:HB2	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
3:N:181:ASP:OD2	3:N:199:LEU:HB2	2.07	0.55
1:A:218:LEU:O	1:A:222:LEU:HD23	2.06	0.55
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.88	0.55
2:M:51:THR:OG1	2:M:348:LEU:HD23	2.07	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
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.37	0.55
2:M:1115:LEU:HB3	3:N:85:VAL:HG13	1.88	0.55
2:C:290:LEU:HD12	8:C:1289:HOH:O	2.06	0.55
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.88	0.55
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.37	0.55
3:D:460:ALA:O	3:D:464:LEU:HG	2.07	0.55
1:L:180:GLN:CB	1:L:198:ARG:HH22	2.16	0.55
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.89	0.55
2:C:52:PHE:O	2:C:54:ILE:HG13	2.05	0.55
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.07	0.55
3:N:573:MET:SD	5:P:210:LEU:HD13	2.47	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.89	0.55
2:C:139:GLN:HB3	2:C:334:ARG:HD2	1.89	0.55
2:M:49:ARG:HB3	2:M:266:ARG:HH12	1.71	0.55
1:B:60:ASP:HB2	8:B:383:HOH:O	2.07	0.55
3:N:933:ALA:O	3:N:937:TYR:HD1	1.90	0.55
3:N:1346:ARG:CZ	3:N:1346:ARG:HA	2.37	0.55
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.22	0.54
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.41	0.54
3:D:553:ARG:HD3	5:F:214:GLN:HB3	1.89	0.54
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.22	0.54
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.88	0.54
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.42	0.54
3:D:192:ALA:O	3:D:195:VAL:HG23	2.07	0.54
8:C:1147:HOH:O	3:D:943:THR:HG21	2.07	0.54
3:D:1376:MET:CE	3:D:1421:LEU:HB2	2.36	0.54
1:A:176:ARG:O	1:A:200:TRP:HE3	1.90	0.54
5:P:323:ASP:HB2	8:P:2932:HOH:O	2.07	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:D:565:ILE:HD11	5:F:189:GLU:OE1	2.07	0.54
3:N:1369:GLU:O	3:N:1372:VAL:HG12	2.07	0.54
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	1.90	0.54
5:F:218:GLN:NE2	5:F:221:ILE:HD12	2.22	0.54
1:K:91:ASN:H	1:K:94:LEU:HD12	1.73	0.54
2:M:1049:LEU:HG	2:M:1053:LEU:HD12	1.88	0.54
3:N:419:ASP:OD2	5:P:171:LYS:HE3	2.08	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
3:N:970:LYS:HB2	3:N:970:LYS:NZ	2.22	0.54
3:D:213:VAL:HG22	3:D:214:GLU:H	1.71	0.54
3:N:637:LEU:HD11	3:N:642:CYS:N	2.22	0.54
2:M:54:ILE:HG23	2:M:54:ILE:O	2.07	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
3:D:126:VAL:O	3:D:132:TYR:HD1	1.91	0.54
1:K:101:LEU:HG	1:K:114:PHE:HA	1.88	0.54
3:N:863:VAL:HG21	8:N:9257:HOH:O	2.06	0.54
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.87	0.54
2:C:1014:SER:HB3	2:C:1017:THR:O	2.07	0.54
5:P:162:LYS:HA	8:P:1319:HOH:O	2.06	0.54
3:D:36:THR:C	3:D:38:LYS:H	2.11	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:73:CYS:HB3	3:N:76:CYS:O	2.07	0.54
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.90	0.54
5:P:161:GLN:HA	5:P:164:LYS:NZ	2.22	0.54
3:N:838:ARG:NH1	3:N:874:GLU:HG2	2.22	0.54
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.88	0.54
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.88	0.54
3:D:462:GLN:HG2	8:D:9662:HOH:O	2.07	0.54
2:M:688:ILE:HD11	2:M:847:GLY:HA3	1.89	0.54
3:D:974:ILE:HG22	8:D:9303:HOH:O	2.06	0.54
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.89	0.54
1:B:159:LYS:N	1:B:159:LYS:HD3	2.23	0.54
1:L:108:GLU:HB3	8:L:3562:HOH:O	2.07	0.54
3:D:1406:ARG:HE	3:D:1406:ARG:C	2.11	0.54
3:N:36:THR:C	3:N:38:LYS:H	2.10	0.54
1:B:78:ILE:HA	8:B:366:HOH:O	2.05	0.54
2:M:1082:PRO:HA	8:M:1607:HOH:O	2.06	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
2:C:486:MET:SD	2:C:491:GLU:HA	2.48	0.54
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.43	0.54
3:N:614:PHE:O	3:N:617:ASN:HB2	2.07	0.54
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.07	0.54
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.22	0.54
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.90	0.54
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.89	0.54
5:F:369:LEU:HD23	8:F:443:HOH:O	2.07	0.54
2:C:724:ARG:HB2	2:C:740:GLU:HG3	1.89	0.54
3:D:615:ARG:HD3	3:D:616:GLN:N	2.22	0.54
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.90	0.54
2:M:710:ILE:CD1	2:M:790:LEU:HB2	2.37	0.54
3:D:1068:LEU:HD23	3:D:1072:ILE:HG12	1.89	0.54
3:N:629:SER:C	3:N:744:GLN:HG2	2.28	0.54
3:N:1380:GLU:HG3	3:N:1381:VAL:N	2.23	0.54
3:N:1110:ALA:HB2	8:N:9805:HOH:O	2.07	0.54
3:D:529:GLN:OE1	3:D:533:GLY:HA2	2.08	0.54
2:M:838:LYS:HB3	2:M:848:VAL:HG22	1.88	0.54
1:K:133:GLU:HG2	1:K:134:GLU:H	1.71	0.54
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.90	0.54
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.38	0.54
2:C:196:LEU:HD21	2:C:303:PHE:CD1	2.41	0.54
1:K:209:GLU:C	1:K:213:GLN:HE21	2.10	0.54
3:N:804:LEU:HB2	3:N:830:ALA:O	2.06	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:553:ARG:HH22	5:F:211:ASP:CG	2.11	0.54
3:D:628:ARG:HD3	3:D:744:GLN:HE21	1.71	0.54
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.38	0.54
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.17	0.54
2:C:89:THR:HA	2:C:129:ILE:O	2.08	0.54
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.07	0.54
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.73	0.54
3:D:1333:HIS:CE1	3:D:1421:LEU:HD23	2.43	0.54
3:D:754:PHE:HZ	4:E:21:VAL:HG13	1.72	0.54
1:L:81:ASN:O	1:L:84:GLU:HB3	2.07	0.54
2:C:146:VAL:HG22	2:C:162:ILE:HG23	1.90	0.54
3:N:601:ARG:NH2	3:N:606:ILE:HA	2.23	0.54
2:C:945:ARG:HD3	2:C:949:LYS:NZ	2.23	0.54
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.37	0.54
1:L:186:LEU:O	1:L:186:LEU:HD23	2.07	0.54
2:M:227:PHE:HA	2:M:230:ARG:HE	1.71	0.54
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.07	0.54
3:N:167:GLU:HG3	8:N:9466:HOH:O	2.06	0.54
3:D:868:TYR:CG	3:D:869:MET:N	2.75	0.54
1:A:47:SER:HG	1:B:32:PHE:HZ	1.56	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:N:702:LEU:HD13	3:N:716:PHE:CD1	2.43	0.54
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.38	0.54
2:M:607:ASP:HB3	2:M:609:ASN:H	1.72	0.54
2:M:358:ARG:HB3	2:M:371:LYS:O	2.08	0.54
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.89	0.54
2:M:185:LYS:HB3	2:M:188:LYS:O	2.07	0.54
1:K:20:TYR:HD2	1:K:21:GLY:N	2.05	0.54
2:M:455:LEU:HD12	2:M:459:ALA:HB3	1.89	0.54
2:C:749:VAL:HG11	2:C:755:LEU:HD23	1.88	0.54
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.08	0.54
5:F:245:GLN:HA	8:F:572:HOH:O	2.06	0.54
2:M:424:GLY:O	2:M:427:VAL:HG23	2.08	0.54
2:M:408:ARG:NH1	2:M:542:VAL:HG23	2.23	0.54
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.37	0.54
3:N:523:ASP:O	3:N:526:PRO:HG3	2.08	0.54
2:C:194:VAL:HG23	8:C:1179:HOH:O	2.06	0.54
2:C:341:THR:CG2	2:C:345:ARG:HH21	2.20	0.54
3:N:1277:ILE:HA	8:N:9618:HOH:O	2.07	0.54
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.38	0.54
3:D:948:THR:O	3:D:949:ILE:HD13	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:43:ILE:HD12	1:L:32:PHE:CZ	2.43	0.54
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.37	0.54
3:D:1465:ASN:HD21	3:D:1470:ARG:HD3	1.73	0.54
2:M:202:TYR:HA	8:M:1314:HOH:O	2.07	0.54
2:M:210:GLU:HB3	8:M:1386:HOH:O	2.07	0.54
3:D:154:THR:HG22	3:D:157:GLU:CD	2.28	0.54
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.90	0.54
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.89	0.54
3:N:828:LYS:HB3	8:N:9129:HOH:O	2.08	0.54
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.42	0.54
2:M:204:GLN:HG3	8:M:1527:HOH:O	2.08	0.54
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.89	0.54
3:D:1314:LYS:HB2	8:D:9676:HOH:O	2.06	0.54
1:A:90:LEU:HD12	1:A:119:ASP:O	2.07	0.54
1:K:30:ARG:HD3	8:K:3174:HOH:O	2.07	0.54
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.06	0.54
2:C:242:LEU:HD23	8:C:1853:HOH:O	2.08	0.54
2:M:1013:TYR:HD1	2:M:1020:PRO:HA	1.73	0.54
2:M:1090:LYS:HE2	2:M:1112:PHE:CE1	2.43	0.54
3:N:478:LEU:HD21	3:N:500:ARG:NH2	2.22	0.54
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.38	0.54
2:M:630:ARG:HH21	2:M:707:ARG:H	1.54	0.54
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.08	0.54
3:N:834:THR:CG2	3:N:838:ARG:HD2	2.38	0.54
2:M:328:LEU:CD2	2:M:437:ARG:HD3	2.37	0.54
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.08	0.54
8:C:1147:HOH:O	3:D:940:THR:HA	2.07	0.54
2:M:397:GLU:OE2	2:M:632:ASN:HB2	2.08	0.54
2:C:73:LEU:HB3	2:C:94:LEU:HB2	1.90	0.54
2:C:535:SER:H	2:C:538:GLN:NE2	2.06	0.54
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.90	0.54
3:D:530:VAL:HG12	3:D:531:ASP:H	1.72	0.54
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.42	0.54
3:D:929:ARG:HG3	3:D:929:ARG:HH11	1.73	0.54
1:L:67:THR:HA	8:L:3261:HOH:O	2.07	0.54
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.90	0.54
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.28	0.54
1:K:218:LEU:O	1:K:222:LEU:HD23	2.07	0.54
2:M:103:LYS:HD2	8:M:1331:HOH:O	2.06	0.54
1:A:212:ASN:O	1:A:215:VAL:HG22	2.07	0.54
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.90	0.54
2:M:42:VAL:HG12	2:M:43:GLY:H	1.72	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.23	0.54
3:D:1382:THR:HG21	3:D:1418:LYS:NZ	2.23	0.54
3:N:864:VAL:HA	8:N:9349:HOH:O	2.07	0.54
3:D:503:LEU:HA	3:D:508:ARG:HH22	1.73	0.54
3:D:1114:THR:O	3:D:1114:THR:HG23	2.08	0.54
2:C:691:SER:HB3	2:C:868:ASP:O	2.07	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
2:C:715:THR:HG22	2:C:717:LEU:HG	1.89	0.54
3:N:1382:THR:HG22	8:N:9076:HOH:O	2.08	0.54
3:N:852:ALA:O	3:N:857:ILE:HG12	2.08	0.54
3:N:217:LYS:HA	8:N:9812:HOH:O	2.08	0.54
3:D:379:ALA:HB3	8:D:9652:HOH:O	2.08	0.54
2:C:214:TYR:HB3	8:C:1697:HOH:O	2.08	0.54
5:F:99:GLU:HB2	8:F:540:HOH:O	2.08	0.54
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.38	0.54
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.38	0.54
2:M:37:GLU:HG2	8:M:1585:HOH:O	2.08	0.54
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.90	0.54
2:M:1015:LEU:HD13	5:P:335:ASP:HA	1.89	0.54
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.08	0.54
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.36	0.54
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.42	0.54
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.89	0.54
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.54
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.08	0.54
3:N:424:GLY:HA2	3:N:435:VAL:O	2.08	0.54
4:E:63:TRP:O	4:E:67:GLU:HG3	2.08	0.54
1:K:19:GLU:HB3	1:K:175:ARG:NH2	2.15	0.54
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.90	0.54
2:M:176:VAL:C	2:M:178:PRO:HD3	2.28	0.54
3:D:1271:LYS:HG2	8:D:9063:HOH:O	2.07	0.54
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.08	0.54
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.43	0.54
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.08	0.54
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.91	0.54
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.37	0.54
3:D:992:ILE:O	3:D:995:LEU:HB3	2.08	0.54
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.89	0.54
5:P:376:ILE:HG22	5:P:377:ASP:OD1	2.08	0.54
3:N:1321:ALA:HB3	3:N:1339:LYS:HE2	1.90	0.54
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.43	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
3:D:391:ALA:HB3	8:D:9451:HOH:O	2.08	0.54
5:P:74:LYS:HE3	8:P:2868:HOH:O	2.07	0.54
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.89	0.53
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.08	0.53
2:M:431:HIS:HD2	2:M:433:THR:H	1.56	0.53
2:C:848:VAL:HG23	3:D:740:PHE:O	2.08	0.53
1:L:29:GLU:C	8:L:4886:HOH:O	2.46	0.53
2:M:697:ARG:HB2	8:M:1159:HOH:O	2.07	0.53
2:M:549:PHE:CZ	2:M:886:LEU:HD12	2.43	0.53
2:C:798:GLY:H	2:C:827:VAL:HG11	1.70	0.53
2:C:487:THR:HG23	8:C:1431:HOH:O	2.08	0.53
1:L:24:VAL:HG12	1:L:26:GLU:OE2	2.08	0.53
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.37	0.53
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.89	0.53
1:A:18:ARG:O	1:A:207:PRO:HD3	2.08	0.53
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.08	0.53
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.22	0.53
3:N:1420:LEU:HD12	3:N:1421:LEU:H	1.70	0.53
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.90	0.53
2:M:876:VAL:O	2:M:879:ARG:O	2.26	0.53
3:D:1463:LYS:HG2	8:D:9761:HOH:O	2.08	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: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
3:D:1264:GLU:OE2	3:D:1425:THR:HG22	2.08	0.53
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.71	0.53
3:D:674:ARG:HD2	8:F:469:HOH:O	2.09	0.53
3:D:400:VAL:HG21	3:D:441:ARG:NH1	2.14	0.53
3:N:690:ALA:O	3:N:694:VAL:HG23	2.08	0.53
3:D:1095:THR:N	8:D:9051:HOH:O	2.41	0.53
2:M:572:ILE:O	2:M:573:ARG:HG2	2.08	0.53
3:D:903:ASP:HB2	8:D:9514:HOH:O	2.07	0.53
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.08	0.53
3:D:704:ARG:HH11	3:D:738:ALA:HB2	1.73	0.53
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.23	0.53
3:N:127:LEU:HD12	3:N:128:TYR:N	2.23	0.53
2:C:1100:GLN:HG3	2:C:1101:THR:O	2.08	0.53
1:L:185:ARG:HA	8:L:4811:HOH:O	2.08	0.53
2:C:554:ASP:HB2	2:C:880:MET:HB2	1.89	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:28:GLN:O	4:E:31:LEU:HG	2.07	0.53
5:P:201:LYS:HD2	8:P:3919:HOH:O	2.08	0.53
1:A:108:GLU:HB3	8:A:384:HOH:O	2.07	0.53
2:C:812:GLY:HA3	8:C:1432:HOH:O	2.07	0.53
1:B:146:ARG:HG3	1:B:146:ARG:O	2.08	0.53
2:C:586:ARG:HG2	8:C:1243:HOH:O	2.08	0.53
1:K:2:LEU:HB2	8:K:5032:HOH:O	2.08	0.53
2:C:138:SER:HB2	2:C:410:ILE:HG13	1.90	0.53
3:D:650:LEU:HD22	3:D:688:TRP:CZ3	2.43	0.53
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.43	0.53
2:C:332:ARG:HD3	2:C:465:GLY:HA3	1.91	0.53
5:P:138:SER:O	5:P:141:VAL:HG12	2.08	0.53
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.38	0.53
2:C:145:GLY:N	2:C:163:ILE:HG23	2.18	0.53
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.89	0.53
2:C:839:LEU:HD21	2:C:849:VAL:HG22	1.89	0.53
2:M:571:LEU:HG	2:M:700:TYR:HA	1.91	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
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.43	0.53
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.91	0.53
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.89	0.53
3:N:534:ARG:HH11	3:N:534:ARG:HG3	1.74	0.53
4:O:66:LYS:HE3	8:O:3745:HOH:O	2.08	0.53
3:N:1502:ALA:HA	8:N:9322:HOH:O	2.09	0.53
3:D:847:ASP:O	3:D:851:LEU:HG	2.09	0.53
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.34	0.53
2:C:102:HIS:HB2	2:C:106:GLY:O	2.09	0.53
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.90	0.53
3:N:165:LYS:HB3	3:N:395:VAL:HG11	1.89	0.53
5:F:306:GLU:O	5:F:310:ILE:HG13	2.08	0.53
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.28	0.53
5:F:365:GLU:CD	5:F:397:ILE:HA	2.29	0.53
2:M:380:ALA:HA	2:M:383:ARG:CD	2.35	0.53
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.29	0.53
3:N:951:ILE:HG23	3:N:1062:ARG:HE	1.74	0.53
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.37	0.53
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.44	0.53
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.90	0.53
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.91	0.53
3:D:430:ASP:CG	3:D:431:VAL:H	2.12	0.53
3:N:1498:ALA:HB3	8:N:9099:HOH:O	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:86:GLN:O	4:O:90:GLU:HG3	2.07	0.53
2:M:198:ARG:HB3	8:M:1370:HOH:O	2.09	0.53
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.09	0.53
5:P:393:THR:O	5:P:397:ILE:HG13	2.09	0.53
3:D:786:ILE:HD13	3:D:908:LYS:HB3	1.89	0.53
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.88	0.53
2:C:1009:SER:HB2	3:D:651:GLU:OE1	2.08	0.53
3:D:652:LEU:HB3	3:D:653:PHE:CD1	2.44	0.53
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.09	0.53
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.07	0.53
1:L:115:LEU:HD12	1:L:115:LEU:O	2.08	0.53
4:E:61:GLU:O	4:E:65:MET:HG3	2.08	0.53
1:B:226:SER:O	1:B:228:PRO:HD3	2.07	0.53
5:F:402:ASN:O	5:F:406:ARG:HG3	2.08	0.53
5:F:305:GLU:O	5:F:309:LYS:HG3	2.08	0.53
2:C:601:GLY:O	2:C:648:ARG:HA	2.09	0.53
3:N:1423:GLY:HA3	8:N:9011:HOH:O	2.08	0.53
1:L:42:ARG:HB3	8:L:3652:HOH:O	2.08	0.53
8:M:1680:HOH:O	3:N:1088:THR:HG21	2.09	0.53
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.38	0.53
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
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.89	0.53
3:D:168:THR:OG1	3:D:393:ILE:HB	2.09	0.53
2:M:139:GLN:HE22	2:M:415:PRO:CG	2.21	0.53
3:N:738:ALA:HB3	8:N:9159:HOH:O	2.08	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:N:1197:ARG:HG3	3:N:1198:TYR:H	1.73	0.53
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.74	0.53
2:M:411:SER:HA	2:M:452:ILE:HA	1.90	0.53
1:A:66:SER:O	1:A:75:VAL:HG23	2.08	0.53
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.44	0.53
3:N:197:SER:HA	8:N:9553:HOH:O	2.09	0.53
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.90	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
3:D:1242:HIS:CE1	3:D:1266:ARG:HD3	2.43	0.53
2:M:630:ARG:HA	2:M:705:ILE:HD11	1.89	0.53
2:M:139:GLN:HG2	2:M:418:LEU:HD22	1.90	0.53
2:M:752:GLY:N	2:M:792:VAL:HB	2.21	0.53
2:C:577:PRO:HB2	2:C:580:MET:HG3	1.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.39	0.53
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.38	0.53
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.37	0.53
3:D:714:GLN:OE1	3:D:765:SER:HB2	2.08	0.53
3:D:531:ASP:C	3:D:533:GLY:H	2.11	0.53
1:L:110:LYS:HZ3	1:L:110:LYS:HB2	1.73	0.53
3:D:1349:VAL:HG21	8:D:9752:HOH:O	2.07	0.53
3:N:1253:THR:OG1	3:N:1258:ARG:HD3	2.07	0.53
2:C:1003:ASP:O	2:C:1005:MET:N	2.41	0.53
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.73	0.53
3:D:420:VAL:HA	5:F:164:LYS:HE3	1.91	0.53
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.44	0.53
2:C:945:ARG:HH11	2:C:945:ARG:HB3	1.74	0.53
1:A:117:VAL:HG12	8:A:360:HOH:O	2.07	0.53
5:P:209:PHE:O	5:P:213:ILE:HG13	2.08	0.53
2:M:271:GLU:OE1	2:M:275:TYR:HB2	2.09	0.53
2:C:1025:ALA:HA	8:C:1228:HOH:O	2.07	0.53
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.90	0.53
2:M:129:ILE:HD13	2:M:134:ARG:CB	2.29	0.53
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.24	0.53
2:M:564:MET:HE1	8:M:1413:HOH:O	2.09	0.53
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.09	0.53
5:P:269:ASN:O	5:P:273:ARG:HG3	2.09	0.53
2:C:274:ARG:HG2	8:C:1235:HOH:O	2.08	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.91	0.53
2:M:489:THR:HG21	8:M:1667:HOH:O	2.07	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:C:874:LEU:HD13	3:D:783:ARG:HB2	1.90	0.53
2:M:571:LEU:HD12	2:M:701:THR:O	2.08	0.53
2:C:496:ILE:HD12	2:C:496:ILE:H	1.74	0.53
3:D:477:LEU:HD13	3:D:492:ALA:O	2.08	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
2:C:444:PRO:HD2	2:C:452:ILE:HG13	1.91	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
5:P:253:ASP:HA	5:P:259:ARG:NH1	2.24	0.53
2:C:964:LYS:HD2	8:C:1456:HOH:O	2.09	0.53
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.22	0.53
1:K:182:GLU:O	1:K:194:LYS:HB3	2.09	0.53
2:C:358:ARG:HB3	2:C:371:LYS:O	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.91	0.53
5:P:337:HIS:H	5:P:337:HIS:HD2	1.56	0.53
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.72	0.53
3:N:1432:LYS:HD2	3:N:1433:SER:N	2.12	0.53
3:D:1381:VAL:HG23	3:D:1391:GLU:O	2.09	0.53
3:D:119:SER:CB	3:D:123:LEU:HB2	2.39	0.53
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.24	0.53
2:C:578:VAL:HG11	2:C:991:GLN:CB	2.35	0.53
3:D:880:ILE:O	3:D:883:ALA:HB3	2.09	0.53
2:M:639:GLN:HG3	8:M:1290:HOH:O	2.09	0.53
2:M:217:LEU:HD12	2:M:311:PHE:CD2	2.44	0.53
2:C:115:LEU:HA	2:C:375:SER:HB3	1.90	0.53
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.39	0.53
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.91	0.53
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.91	0.53
3:N:1087:ARG:HG2	3:N:1087:ARG:HH11	1.73	0.53
5:P:420:ASP:HB2	8:P:2629:HOH:O	2.08	0.53
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.89	0.53
4:O:8:LYS:HG3	8:O:3467:HOH:O	2.09	0.53
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.24	0.53
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.09	0.53
2:C:380:ALA:O	2:C:384:GLU:HB2	2.09	0.53
5:F:203:THR:HG22	8:F:514:HOH:O	2.07	0.53
3:N:774:SER:C	3:N:776:GLU:H	2.13	0.53
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.90	0.53
1:L:101:LEU:HG	1:L:114:PHE:HA	1.90	0.53
2:M:520:GLU:O	2:M:522:VAL:HG23	2.08	0.53
2:C:431:HIS:CD2	2:C:433:THR:H	2.27	0.53
2:M:16:PRO:HA	8:M:1782:HOH:O	2.08	0.53
2:C:1054:THR:HG22	2:C:1059:ASP:OD2	2.09	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
3:D:478:LEU:HD22	3:D:1388:ARG:NH1	2.23	0.53
3:N:699:VAL:CG1	3:N:717:GLN:HE21	2.20	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
1:A:176:ARG:HG3	1:A:200:TRP:HB2	1.91	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
2:M:296:GLY:HA2	8:M:1743:HOH:O	2.09	0.53
5:P:191:ASN:HA	8:P:2854:HOH:O	2.09	0.53
3:D:890:VAL:HG13	3:D:926:LYS:HE2	1.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.44	0.53
3:D:774:SER:C	3:D:776:GLU:H	2.12	0.53
2:C:525:SER:OG	2:C:528:GLU:HG3	2.08	0.53
5:F:388:ALA:HB1	8:F:443:HOH:O	2.08	0.52
2:C:1054:THR:CG2	2:C:1079:PRO:HB3	2.30	0.52
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.39	0.52
2:M:172:ILE:HD12	2:M:172:ILE:H	1.74	0.52
2:M:710:ILE:HD11	2:M:758:ARG:HH21	1.73	0.52
2:M:380:ALA:O	2:M:384:GLU:HB2	2.09	0.52
3:D:1230:GLY:CA	8:D:9051:HOH:O	2.57	0.52
2:C:985:GLY:O	2:C:987:ILE:HD12	2.09	0.52
3:N:950:GLY:O	3:N:953:ASP:N	2.38	0.52
2:M:627:ARG:O	2:M:638:ASP:HB3	2.09	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
3:N:1106:VAL:HG22	8:N:9413:HOH:O	2.10	0.52
2:M:510:ALA:HB1	8:M:1203:HOH:O	2.09	0.52
8:M:1245:HOH:O	3:N:603:LEU:HD11	2.09	0.52
1:A:123:MET:C	1:A:125:PRO:HD3	2.29	0.52
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.38	0.52
3:N:799:LYS:O	3:N:799:LYS:HD3	2.09	0.52
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.91	0.52
2:M:720:GLU:HA	2:M:759:THR:O	2.08	0.52
3:D:669:ASN:HD21	5:F:417:LYS:HA	1.74	0.52
3:D:720:LEU:H	3:D:720:LEU:HD12	1.75	0.52
4:E:95:GLY:HA3	8:E:104:HOH:O	2.08	0.52
3:D:684:LYS:HD3	3:D:686:GLU:OE1	2.09	0.52
1:A:197:LEU:HD23	1:A:197:LEU:N	2.25	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
3:D:911:LEU:O	3:D:915:VAL:HG23	2.09	0.52
3:N:507:ASN:HA	8:N:9017:HOH:O	2.08	0.52
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.44	0.52
3:N:702:LEU:HD13	3:N:716:PHE:HD1	1.74	0.52
2:C:685:GLU:H	3:D:740:PHE:HE1	1.57	0.52
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.91	0.52
1:L:184:THR:O	1:L:192:LEU:HB2	2.08	0.52
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.91	0.52
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.74	0.52
2:C:1039:ALA:O	2:C:1043:TYR:HD1	1.92	0.52
3:D:955:VAL:HG21	3:D:1015:TYR:HE2	1.74	0.52
3:N:1087:ARG:HE	3:N:1238:MET:HB2	1.74	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:102:HIS:HB2	2:M:106:GLY:O	2.09	0.52
2:C:1049:LEU:O	2:C:1053:LEU:HG	2.08	0.52
3:N:1033:GLN:HB3	8:N:9763:HOH:O	2.09	0.52
3:D:131:LYS:CG	3:D:568:ARG:HG2	2.36	0.52
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.19	0.52
1:A:20:TYR:CD2	1:A:21:GLY:N	2.76	0.52
3:D:607:LEU:HB3	3:D:614:PHE:CE2	2.44	0.52
2:C:671:ASN:ND2	2:C:671:ASN:H	2.06	0.52
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.91	0.52
2:M:19:THR:HG21	2:M:125:GLY:HA3	1.92	0.52
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.92	0.52
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.28	0.52
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.08	0.52
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.39	0.52
1:A:58:ILE:HB	1:A:61:VAL:HB	1.91	0.52
5:F:191:ASN:HB3	5:F:220:LEU:HD11	1.91	0.52
2:C:861:LEU:HD23	2:C:862:PRO:N	2.24	0.52
2:M:798:GLY:HA3	2:M:828:ALA:O	2.09	0.52
3:D:895:VAL:O	3:D:899:LEU:HG	2.10	0.52
2:C:732:ALA:O	2:C:735:ARG:HG3	2.10	0.52
2:M:411:SER:HB2	2:M:452:ILE:HG23	1.91	0.52
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.90	0.52
2:C:559:LEU:HD23	2:C:560:MET:HG3	1.90	0.52
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.91	0.52
5:F:340:SER:OG	5:F:342:VAL:HG23	2.09	0.52
3:N:697:GLY:HA3	8:O:2665:HOH:O	2.08	0.52
5:F:263:HIS:HB2	8:F:604:HOH:O	2.08	0.52
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.91	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.90	0.52
3:N:1366:LYS:O	3:N:1370:ILE:HG12	2.10	0.52
3:D:537:THR:CA	5:F:317:LEU:HD12	2.39	0.52
1:K:91:ASN:HA	8:K:3642:HOH:O	2.09	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
3:N:420:VAL:HG23	8:N:9890:HOH:O	2.07	0.52
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.73	0.52
3:D:116:LEU:O	3:D:118:LEU:HG	2.08	0.52
2:C:1092:LEU:HA	2:C:1095:LEU:HD12	1.90	0.52
2:C:1095:LEU:CD1	3:D:607:LEU:HD11	2.32	0.52
2:M:772:ARG:CD	5:P:373:LYS:HD2	2.37	0.52
3:N:631:ILE:HD13	3:N:745:MET:HG3	1.91	0.52
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.91	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:842:ARG:HB2	8:M:1165:HOH:O	2.07	0.52
2:C:625:LEU:HD13	2:C:639:GLN:O	2.10	0.52
2:C:468:ARG:HD3	2:C:485:TYR:HB3	1.90	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:1448:THR:O	3:D:1452:ILE:HD13	2.09	0.52
2:M:378:LEU:HG	2:M:382:ILE:CD1	2.40	0.52
3:D:996:TRP:O	3:D:999:THR:HG22	2.08	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
1:L:123:MET:O	1:L:125:PRO:HD3	2.10	0.52
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.39	0.52
8:D:9510:HOH:O	5:F:259:ARG:HB2	2.07	0.52
2:M:15:LEU:HD11	2:M:583:LEU:HD11	1.90	0.52
5:P:185:GLN:O	5:P:189:GLU:HG3	2.09	0.52
1:K:219:ARG:HG3	1:K:219:ARG:HH11	1.74	0.52
3:D:799:LYS:H	3:D:826:PRO:HG2	1.74	0.52
1:K:94:LEU:HD11	1:K:119:ASP:OD1	2.09	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:M:162:ILE:HB	2:M:172:ILE:HB	1.90	0.52
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.35	0.52
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.75	0.52
3:D:584:ASN:HB3	8:D:9062:HOH:O	2.08	0.52
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.92	0.52
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.90	0.52
3:N:853:VAL:HG13	3:N:858:VAL:O	2.10	0.52
3:N:1381:VAL:HG23	3:N:1391:GLU:O	2.10	0.52
5:F:234:LYS:CD	5:F:236:SER:HB3	2.37	0.52
1:K:97:VAL:HG23	8:K:3015:HOH:O	2.07	0.52
2:C:1005:MET:CE	3:D:648:MET:HB2	2.39	0.52
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.90	0.52
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.90	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:N:712:GLY:HA2	8:N:9111:HOH:O	2.09	0.52
2:C:332:ARG:HA	2:C:465:GLY:O	2.10	0.52
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.44	0.52
2:C:777:ILE:HG12	5:F:405:LEU:HD11	1.91	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:C:627:ARG:HG3	2:C:628:PHE:H	1.75	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.45	0.52
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.90	0.52
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.91	0.52
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.45	0.52
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.92	0.52
2:C:1109:VAL:HG22	8:D:9538:HOH:O	2.10	0.52
2:C:911:GLU:HG2	2:C:915:LYS:HZ2	1.74	0.52
3:N:1047:LYS:HG2	3:N:1053:PHE:CE1	2.45	0.52
2:C:1047:HIS:CD2	3:D:1471:LEU:HD11	2.45	0.52
2:C:1024:LYS:HB2	8:C:1173:HOH:O	2.08	0.52
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.30	0.52
3:D:1033:GLN:HE21	3:D:1033:GLN:HA	1.74	0.52
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.09	0.52
2:C:730:SER:O	2:C:734:LEU:HD13	2.10	0.52
1:A:205:VAL:HG23	1:A:206:THR:N	2.23	0.52
5:P:367:MET:HA	5:P:370:LYS:NZ	2.24	0.52
1:K:18:ARG:O	1:K:207:PRO:HD3	2.08	0.52
3:N:490:ALA:HB2	8:N:9895:HOH:O	2.10	0.52
2:M:645:VAL:HG22	8:M:1487:HOH:O	2.09	0.52
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.92	0.52
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.90	0.52
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.52
3:D:679:ARG:HD3	3:D:682:ASP:OD2	2.10	0.52
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.73	0.52
1:K:68:ILE:HA	8:K:4050:HOH:O	2.09	0.52
5:P:102:LEU:HD22	5:P:183:ALA:O	2.09	0.52
3:N:180:LYS:O	3:N:184:GLU:HG3	2.09	0.52
3:D:38:LYS:HD3	8:D:9533:HOH:O	2.09	0.52
3:N:1330:ILE:N	3:N:1330:ILE:HD12	2.25	0.52
2:C:510:ALA:HB3	2:C:513:VAL:HG23	1.91	0.52
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.24	0.52
3:N:1041:LEU:HD12	3:N:1057:VAL:O	2.08	0.52
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.92	0.52
3:N:500:ARG:HH12	3:N:1388:ARG:HD2	1.75	0.52
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.34	0.52
2:M:412:ALA:CB	2:M:451:LEU:HB3	2.40	0.52
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.09	0.52
2:C:884:GLN:HG3	2:C:885:ILE:N	2.22	0.52
3:N:951:ILE:HG23	3:N:1062:ARG:HH21	1.75	0.52
2:C:32:ALA:HB2	2:C:73:LEU:HD21	1.91	0.52
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.75	0.52
5:F:247:ILE:O	5:F:251:ILE:HG13	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:897:LEU:HG	2:C:920:GLN:HE21	1.75	0.52
2:C:402:SER:OG	2:C:566:THR:HG22	2.10	0.52
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.40	0.52
2:M:1101:THR:O	2:M:1102:LEU:HD23	2.10	0.52
2:C:532:MET:HE3	8:C:1857:HOH:O	2.10	0.52
2:M:97:ARG:HD2	8:M:1366:HOH:O	2.10	0.52
2:M:473:ARG:HA	2:M:531:PHE:CD1	2.45	0.52
3:N:1344:VAL:HG12	3:N:1348:LEU:CD2	2.40	0.52
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.44	0.52
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.40	0.52
5:P:167:PRO:HG2	8:P:3728:HOH:O	2.10	0.52
1:L:226:SER:O	1:L:228:PRO:HD3	2.09	0.52
3:D:819:GLY:HA3	8:D:9099:HOH:O	2.08	0.52
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.10	0.52
1:K:80:LEU:HB3	8:K:3096:HOH:O	2.10	0.52
2:C:333:ILE:N	2:C:333:ILE:HD12	2.25	0.52
2:M:442:GLU:HG2	2:M:454:SER:OG	2.10	0.52
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.75	0.52
2:M:1034:GLU:HB2	8:M:1373:HOH:O	2.09	0.52
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.24	0.52
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.91	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:136:ASP:HB3	3:D:137:PRO:CD	2.35	0.52
5:P:363:GLU:HA	5:P:367:MET:HG2	1.92	0.52
1:B:204:SER:HB2	8:B:371:HOH:O	2.09	0.52
2:C:232:GLU:O	2:C:235:LEU:HB2	2.09	0.52
2:M:571:LEU:HD23	2:M:670:GLN:NE2	2.25	0.52
2:M:244:PRO:CD	2:M:245:GLY:H	2.17	0.52
2:C:114:PHE:HB2	8:C:1287:HOH:O	2.10	0.52
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.74	0.52
3:D:879:ARG:HH21	3:D:903:ASP:C	2.14	0.52
1:K:123:MET:C	1:K:125:PRO:HD3	2.31	0.52
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.91	0.52
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.56	0.52
5:F:274:THR:O	5:F:278:LEU:HG	2.10	0.52
2:C:722:ILE:HD12	2:C:805:ARG:HH21	1.74	0.52
2:C:139:GLN:OE1	2:C:415:PRO:HD2	2.09	0.52
3:D:972:LEU:HD23	3:D:973:GLN:N	2.24	0.52
3:D:918:ALA:O	3:D:922:LEU:HG	2.10	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:322:VAL:HA	8:M:1189:HOH:O	2.09	0.52
2:C:841:ASN:HD21	2:C:845:ASN:H	1.58	0.52
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.45	0.52
1:K:46:SER:HB3	2:M:856:GLU:CD	2.30	0.52
3:N:81:THR:HG22	8:N:9092:HOH:O	2.10	0.52
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.75	0.52
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.92	0.52
2:C:724:ARG:HH11	2:C:724:ARG:HB3	1.73	0.52
3:N:126:VAL:O	3:N:132:TYR:HD1	1.92	0.52
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.92	0.52
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.09	0.52
2:M:451:LEU:HD12	2:M:451:LEU:H	1.75	0.52
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.35	0.52
1:K:143:ARG:HG3	1:K:144:VAL:N	2.25	0.52
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.52
3:N:15:PRO:HG3	8:N:9079:HOH:O	2.10	0.52
5:P:321:ILE:HB	5:P:327:SER:OG	2.10	0.52
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.45	0.52
2:C:41:ASN:N	2:C:41:ASN:HD22	1.97	0.52
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.44	0.52
3:N:1194:CYS:HB3	3:N:1373:ARG:HH22	1.74	0.52
3:N:1194:CYS:HB3	3:N:1373:ARG:CZ	2.40	0.52
2:C:399:ASN:N	2:C:399:ASN:HD22	2.08	0.52
1:L:85:LEU:HD13	1:L:127:LEU:HD23	1.92	0.52
5:P:323:ASP:O	5:P:325:LYS:N	2.43	0.52
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
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.10	0.52
5:P:253:ASP:HA	5:P:259:ARG:HH12	1.75	0.52
3:N:411:THR:HB	8:N:9297:HOH:O	2.10	0.52
1:L:46:SER:HB2	8:L:3700:HOH:O	2.09	0.52
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.91	0.51
3:D:542:ASP:O	3:D:546:ARG:HG2	2.10	0.51
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.92	0.51
3:D:573:MET:CE	5:F:210:LEU:HB3	2.39	0.51
3:D:777:PRO:HG2	3:D:915:VAL:HB	1.92	0.51
3:D:213:VAL:HG21	8:D:9600:HOH:O	2.09	0.51
3:N:119:SER:HB2	3:N:123:LEU:N	2.24	0.51
3:D:1277:ILE:HG21	8:D:9249: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
2:M:290:LEU:HD13	8:M:1252:HOH:O	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.30	0.51
3:D:529:GLN:HG2	3:D:535:PHE:CE1	2.45	0.51
3:N:1210:SER:HB2	8:O:3546:HOH:O	2.10	0.51
3:D:1333:HIS:ND1	3:D:1421:LEU:HD23	2.26	0.51
1:K:62:LEU:H	1:K:62:LEU:HD12	1.75	0.51
3:D:1403:LEU:HG	8:D:9163:HOH:O	2.10	0.51
2:C:554:ASP:HA	3:D:1061:PHE:CZ	2.45	0.51
3:D:819:GLY:O	3:D:822:ALA:HB3	2.10	0.51
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.10	0.51
5:F:87:GLU:O	5:F:91:VAL:HG23	2.10	0.51
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.10	0.51
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.57	0.51
3:D:1045:MET:HG2	3:D:1073:SER:CA	2.27	0.51
2:M:405:ARG:HE	2:M:543:ASN:ND2	2.08	0.51
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.91	0.51
3:D:1242:HIS:HE1	3:D:1266:ARG:HB3	1.75	0.51
2:C:269:LEU:HG	2:C:288:ARG:N	2.24	0.51
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.45	0.51
3:N:171:LEU:HD13	3:N:389:GLU:C	2.30	0.51
3:N:637:LEU:HD21	8:N:9469:HOH:O	2.10	0.51
3:N:610:LYS:HG2	3:N:611:GLN:HG2	1.92	0.51
2:M:309:TYR:HA	2:M:312:ALA:HB3	1.92	0.51
3:N:1133:ARG:HB2	8:N:9380:HOH:O	2.09	0.51
2:M:958:THR:HA	8:M:1596:HOH:O	2.09	0.51
2:M:103:LYS:HB2	8:M:1613:HOH:O	2.10	0.51
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.40	0.51
1:A:117:VAL:HB	1:A:120:VAL:HG12	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:L:170:VAL:HG23	8:L:3287:HOH:O	2.10	0.51
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.91	0.51
2:C:329:GLY:N	2:C:488:ALA:HB3	2.24	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
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.44	0.51
3:N:213:VAL:HG22	3:N:214:GLU:H	1.75	0.51
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.09	0.51
2:C:265:ARG:HG2	2:C:267:TYR:CG	2.45	0.51
2:C:920:GLN:HG3	8:C:1216:HOH:O	2.11	0.51
3:N:168:THR:HG21	8:N:9101:HOH:O	2.10	0.51
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.75	0.51
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:137:VAL:O	2:M:391:LEU:HD21	2.10	0.51
3:N:1310:ARG:HB2	3:N:1327:ARG:HE	1.75	0.51
1:A:106:PRO:HG3	1:A:133:GLU:O	2.11	0.51
5:F:153:PRO:HG2	5:F:154:LYS:H	1.75	0.51
5:P:299:TRP:CZ3	5:P:303:ARG:HG2	2.45	0.51
2:C:1015:LEU:HA	8:C:1202:HOH:O	2.09	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
4:O:88:GLU:HA	4:O:91:ARG:HD2	1.93	0.51
3:N:996:TRP:CE2	3:N:1056:PRO:HG3	2.45	0.51
2:C:198:ARG:HD2	8:C:1571:HOH:O	2.09	0.51
3:D:1382:THR:HG22	8:D:9873:HOH:O	2.09	0.51
3:N:1311:LEU:H	3:N:1311:LEU:HD23	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
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
3:D:181:ASP:O	3:D:185:VAL:HG23	2.11	0.51
2:C:701:THR:CG2	2:C:832:LYS:HG3	2.37	0.51
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.11	0.51
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.92	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
2:M:546:LEU:CA	2:M:581:THR:HG21	2.41	0.51
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.74	0.51
3:D:889:ALA:O	3:D:929:ARG:HD2	2.11	0.51
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.92	0.51
1:K:115:LEU:HD13	8:K:3936:HOH:O	2.09	0.51
2:C:574:ALA:HB1	2:C:667:ALA:HB3	1.92	0.51
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.42	0.51
3:N:491:LYS:HD3	3:N:492:ALA:N	2.25	0.51
2:C:72:ARG:HB2	2:C:72:ARG:HH11	1.75	0.51
3:N:550:ARG:HH12	3:N:577:ALA:HB2	1.76	0.51
2:M:4:LYS:HD3	8:M:1624:HOH:O	2.10	0.51
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.40	0.51
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.75	0.51
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.09	0.51
2:M:191:PHE:CE2	2:M:195:LEU:HB3	2.46	0.51
1:K:72:LYS:HD2	1:K:73:GLU:OE2	2.09	0.51
1:K:127:LEU:HD12	1:K:128:HIS:N	2.23	0.51
3:D:507:ASN:HA	8:D:9186:HOH:O	2.11	0.51
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:741:GLY:HA3	8:M:1430:HOH:O	2.09	0.51
4:E:81:PRO:HG3	8:E:183:HOH:O	2.09	0.51
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.92	0.51
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.93	0.51
4:O:24:ALA:O	4:O:28:GLN:HG3	2.10	0.51
1:L:57:TYR:CE1	1:L:161:ARG:HB3	2.46	0.51
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.11	0.51
3:N:1390:LEU:HD13	8:N:9614:HOH:O	2.11	0.51
1:A:132:LEU:HD13	8:A:356:HOH:O	2.09	0.51
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.75	0.51
3:D:764:LEU:HD12	3:D:765:SER:H	1.75	0.51
3:D:178:LEU:HD12	3:D:200:ASP:HB2	1.93	0.51
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.91	0.51
3:D:483:HIS:ND1	3:D:483:HIS:N	2.58	0.51
5:P:214:GLN:HA	5:P:214:GLN:OE1	2.10	0.51
5:P:113:ILE:O	5:P:116:LEU:HB2	2.11	0.51
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.75	0.51
2:M:37:GLU:HA	8:M:1458:HOH:O	2.11	0.51
2:C:410:ILE:HD12	2:C:410:ILE:N	2.26	0.51
2:C:1104:GLU:HA	3:D:6:ARG:NH1	2.26	0.51
3:N:498:VAL:HG12	8:N:9641:HOH:O	2.10	0.51
2:M:420:ARG:HG2	2:M:422:ARG:HG2	1.91	0.51
3:D:1088:THR:HA	8:D:9405:HOH:O	2.10	0.51
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.10	0.51
3:N:1065:LEU:CD1	3:N:1069:GLU:HB2	2.41	0.51
2:M:154:ARG:HH21	2:M:157:ARG:H	1.58	0.51
3:D:543:LEU:O	3:D:546:ARG:HB2	2.11	0.51
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.26	0.51
5:P:153:PRO:HG3	8:P:3659:HOH:O	2.10	0.51
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.92	0.51
4:O:48:MET:HG2	4:O:49:GLN:N	2.24	0.51
5:F:393:THR:HG22	5:F:394:ARG:H	1.76	0.51
2:M:36:PRO:HD3	8:M:1244:HOH:O	2.09	0.51
1:L:216:GLU:HG3	1:L:219:ARG:HH12	1.76	0.51
4:E:48:MET:CB	4:E:54:LEU:HB2	2.41	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:958:THR:CG2	2:C:961:GLU:HB2	2.40	0.51
1:B:105:GLY:O	1:B:132:LEU:HD23	2.09	0.51
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.91	0.51
3:N:513:ILE:HA	8:N:9084:HOH:O	2.10	0.51
3:D:1320:GLU:HB2	3:D:1323:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:720:LEU:H	3:N:720:LEU:HD12	1.75	0.51
3:D:669:ASN:HB3	5:F:349:LEU:HD11	1.92	0.51
4:O:86:GLN:HG2	8:O:2986:HOH:O	2.09	0.51
2:M:319:GLY:HA2	8:M:1247:HOH:O	2.11	0.51
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.10	0.51
2:C:209:ARG:O	2:C:213:ALA:HB2	2.11	0.51
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.91	0.51
4:O:17:TYR:HD2	4:O:17:TYR:N	2.08	0.51
3:D:550:ARG:HH11	3:D:573:MET:HB3	1.76	0.51
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.93	0.51
2:C:1018:GLN:NE2	2:C:1063:ARG:HH22	2.08	0.51
3:D:671:LYS:O	3:D:671:LYS:HD3	2.11	0.51
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.93	0.51
2:C:701:THR:HG23	2:C:832:LYS:HA	1.92	0.51
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.91	0.51
2:C:693:GLU:HG3	8:C:1199:HOH:O	2.11	0.51
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.26	0.51
3:N:6:ARG:CZ	3:N:6:ARG:HB3	2.41	0.51
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.46	0.51
2:M:584:GLU:O	2:M:588:VAL:HG13	2.11	0.51
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.26	0.51
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.74	0.51
3:N:1363:LEU:HD12	3:N:1364:HIS:O	2.11	0.51
2:M:944:LEU:O	2:M:948:GLU:HG2	2.10	0.51
3:D:702:LEU:HG	3:D:745:MET:HE2	1.92	0.51
3:N:1176:LYS:HA	3:N:1179:GLU:CD	2.30	0.51
2:C:15:LEU:HD12	2:C:15:LEU:H	1.76	0.51
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.46	0.51
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.93	0.51
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.11	0.51
3:N:1183:ILE:HG22	8:N:2022:HOH:O	2.10	0.51
3:N:524:LEU:C	3:N:526:PRO:HD3	2.31	0.51
3:D:84:ILE:O	3:D:87:ARG:HG3	2.11	0.51
5:F:316:SER:HB2	5:F:319:THR:OG1	2.11	0.51
2:C:42:VAL:HG12	2:C:43:GLY:N	2.26	0.51
2:C:157:ARG:NH2	2:C:314:THR:HA	2.24	0.51
3:D:1389:LEU:HD12	3:D:1390:LEU:HG	1.93	0.51
4:O:54:LEU:HG	4:O:58:PRO:CG	2.40	0.51
5:F:264:MET:O	5:F:267:THR:HB	2.10	0.51
3:N:554:LEU:O	3:N:558:LEU:HG	2.11	0.51
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.76	0.51
3:D:1223:ILE:N	3:D:1223:ILE:HD12	2.23	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:81:THR:O	3:D:82:LYS:O	2.28	0.51
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.92	0.51
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.45	0.51
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.26	0.51
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.46	0.51
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.10	0.51
3:N:1156:LEU:HD11	3:N:1176:LYS:HD2	1.92	0.51
3:D:563:PRO:HG3	5:F:188:ILE:HG21	1.93	0.51
5:P:203:THR:HG22	5:P:204:GLY:N	2.26	0.51
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.11	0.51
3:N:1059:SER:HA	8:N:9131:HOH:O	2.11	0.51
2:C:64:LEU:HD22	2:C:359:MET:CG	2.41	0.51
3:D:524:LEU:C	3:D:526:PRO:HD3	2.31	0.51
3:D:790:TYR:CD1	3:D:1022:VAL:HG13	2.46	0.51
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.46	0.51
2:M:571:LEU:HD12	2:M:701:THR:C	2.31	0.51
5:P:256:ARG:NH2	5:P:258:ILE:HB	2.26	0.51
2:C:113:VAL:N	8:C:1822:HOH:O	2.41	0.51
2:M:321:GLU:HG2	8:M:1221:HOH:O	2.10	0.51
1:K:149:GLY:O	1:K:171:PHE:HB2	2.11	0.51
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.26	0.51
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.41	0.51
2:M:885:ILE:HD12	8:N:9188:HOH:O	2.11	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
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.41	0.51
3:N:1487:VAL:HG11	3:N:1492:LEU:HD23	1.92	0.51
1:B:220:GLU:HG2	8:B:449:HOH:O	2.10	0.51
3:N:1500:LYS:HD3	8:N:9564:HOH:O	2.11	0.51
2:C:362:GLY:HA3	2:C:367:LEU:HD22	1.92	0.51
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.91	0.51
3:N:58:CYS:SG	3:N:59:ALA:N	2.84	0.51
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.41	0.51
4:O:47:LYS:N	4:O:54:LEU:HD13	2.26	0.51
5:F:268:ILE:HG22	8:F:510:HOH:O	2.11	0.51
2:M:704:HIS:O	2:M:705:ILE:HG23	2.11	0.51
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.46	0.51
1:A:83:LYS:HE2	1:A:167:VAL:CG1	2.40	0.51
3:D:152:LEU:N	3:D:152:LEU:HD23	2.23	0.51
2:M:626:ARG:HB2	2:M:639:GLN:HE21	1.74	0.51
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.41	0.51
2:M:303:PHE:HD1	8:M:1252:HOH:O	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
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
3:N:170:PRO:HA	8:N:9445:HOH:O	2.11	0.51
4:O:83:ASP:O	4:O:86:GLN:HG3	2.11	0.51
3:N:1288:GLU:HA	8:N:9629:HOH:O	2.11	0.51
2:C:394:PHE:HD2	2:C:394:PHE:H	1.59	0.51
2:C:21:ILE:HD12	2:C:21:ILE:H	1.74	0.51
1:B:19:GLU:HG3	1:B:201:THR:O	2.10	0.51
5:F:336:GLU:HG2	8:F:426:HOH:O	2.11	0.51
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.10	0.50
2:C:358:ARG:HH22	2:C:374:ASN:CB	2.11	0.50
1:K:91:ASN:H	1:K:94:LEU:CD1	2.24	0.50
1:K:227:ASN:ND2	8:K:3074:HOH:O	2.43	0.50
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.20	0.50
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.93	0.50
3:D:1271:LYS:HG2	3:D:1272:ALA:N	2.25	0.50
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.47	0.50
1:K:9:PRO:HD2	1:L:224:TYR:CZ	2.46	0.50
1:L:23:PHE:O	1:L:196:THR:HA	2.12	0.50
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.11	0.50
1:L:176:ARG:HB2	8:N:9402:HOH:O	2.12	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
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
5:F:407:LYS:HD3	8:F:437:HOH:O	2.10	0.50
1:K:32:PHE:HB2	8:K:3631:HOH:O	2.11	0.50
3:N:1436:SER:HB3	8:N:9153:HOH:O	2.11	0.50
3:N:27:GLU:N	8:N:9386:HOH:O	2.44	0.50
3:N:422:ALA:O	3:N:427:VAL:HG21	2.11	0.50
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.59	0.50
2:M:575:GLN:HA	2:M:662:GLU:OE2	2.11	0.50
3:D:653:PHE:CD1	3:D:653:PHE:N	2.80	0.50
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.76	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
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.51	0.50
3:N:1119:SER:HA	3:N:1186:VAL:O	2.10	0.50
2:C:175:GLU:HB3	2:C:183:SER:OG	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.94	0.50
3:D:420:VAL:HA	5:F:164:LYS:CE	2.41	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:N:999:THR:O	3:N:1002:LYS:HB2	2.11	0.50
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.93	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
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.10	0.50
2:C:712:ALA:HB1	2:C:820:ARG:HH11	1.76	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:1097:LEU:CD2	2:C:1097:LEU:H	2.19	0.50
3:D:195:VAL:HG13	8:D:9005:HOH:O	2.11	0.50
3:D:1271:LYS:HE3	3:D:1334:GLN:HE22	1.75	0.50
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.42	0.50
2:C:497:ALA:HA	2:C:515:ALA:HA	1.93	0.50
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.40	0.50
2:C:679:PHE:C	3:D:943:THR:HG22	2.31	0.50
2:C:625:LEU:HB3	2:C:639:GLN:HG3	1.93	0.50
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.46	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
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.15	0.50
3:D:480:GLU:O	3:D:484:PRO:HD2	2.11	0.50
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.76	0.50
4:O:84:ARG:CZ	4:O:84:ARG:HB2	2.42	0.50
3:D:428:LYS:HB3	3:D:450:TYR:CE1	2.46	0.50
1:A:115:LEU:O	1:A:115:LEU:HD12	2.12	0.50
2:C:969:GLN:HA	8:D:9594:HOH:O	2.11	0.50
1:B:173:PRO:HB2	1:B:205:VAL:HG22	1.92	0.50
2:M:1067:TYR:HA	2:M:1070:ILE:HD12	1.93	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:N:1422:MET:HE2	8:N:9147:HOH:O	2.11	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
3:N:554:LEU:HD21	3:N:571:LYS:HG3	1.93	0.50
2:M:333:ILE:O	2:M:465:GLY:HA3	2.11	0.50
2:C:1088:LEU:HB2	8:D:9002:HOH:O	2.10	0.50
1:B:84:GLU:HB3	1:B:127:LEU:HD21	1.92	0.50
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.40	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:639:LEU:HD12	3:N:639:LEU:N	2.25	0.50
4:E:17:TYR:O	4:E:21:VAL:HG23	2.11	0.50
3:D:960:LYS:HZ2	3:D:1041:LEU:HB3	1.77	0.50
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.76	0.50
2:C:175:GLU:HA	8:C:1786:HOH:O	2.11	0.50
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.93	0.50
3:N:1258:ARG:HG3	3:N:1262:LEU:HD22	1.92	0.50
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.10	0.50
5:F:142:ARG:HB3	5:F:142:ARG:HH11	1.77	0.50
3:D:1200:VAL:HG22	3:D:1373:ARG:HH12	1.76	0.50
3:N:1097:LYS:HD2	8:N:9081:HOH:O	2.10	0.50
3:D:1117:TYR:HE2	3:D:1151:ARG:HH21	1.59	0.50
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.47	0.50
1:L:33:GLY:O	1:L:195:LEU:HD22	2.11	0.50
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.27	0.50
1:A:44:LEU:O	1:A:174:VAL:HG21	2.12	0.50
3:D:526:PRO:O	3:D:537:THR:HA	2.12	0.50
1:K:173:PRO:HB3	1:K:204:SER:HB3	1.93	0.50
8:N:9535:HOH:O	5:P:140:ARG:HB2	2.10	0.50
3:N:699:VAL:N	3:N:756:GLN:NE2	2.53	0.50
2:M:680:ASP:HB2	2:M:682:TYR:CE2	2.46	0.50
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.46	0.50
2:M:755:LEU:HB2	2:M:790:LEU:CD2	2.40	0.50
2:C:876:VAL:O	2:C:879:ARG:O	2.29	0.50
3:D:904:VAL:HG22	8:D:9514:HOH:O	2.09	0.50
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.39	0.50
2:C:722:ILE:HD13	2:C:722:ILE:O	2.12	0.50
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.12	0.50
2:C:432:ARG:HD3	3:D:1048:PRO:HG2	1.92	0.50
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.41	0.50
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.44	0.50
1:L:132:LEU:HD21	1:L:136:GLY:O	2.12	0.50
5:P:102:LEU:O	5:P:106:VAL:HG23	2.12	0.50
3:N:1263:PHE:CD2	3:N:1371:VAL:HG11	2.47	0.50
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.11	0.50
5:F:149:GLU:OE1	5:F:149:GLU:HA	2.11	0.50
3:D:1119:SER:HA	3:D:1186:VAL:O	2.11	0.50
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.27	0.50
3:N:175:VAL:HG11	8:N:9190:HOH:O	2.11	0.50
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.41	0.50
1:K:173:PRO:HB2	1:K:205:VAL:HG22	1.93	0.50
3:D:1105:ILE:HD11	3:D:1374:GLN:NE2	2.26	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:139:GLN:O	2:M:334:ARG:N	2.43	0.50
1:K:56:VAL:HG21	1:K:82:LEU:HD12	1.93	0.50
3:N:951:ILE:CG2	3:N:1062:ARG:HH21	2.24	0.50
3:N:21:TRP:HZ3	3:N:518:PRO:HG2	1.77	0.50
3:D:470:LEU:HD12	3:D:508:ARG:HH21	1.77	0.50
2:M:589:ARG:HD2	8:M:1552:HOH:O	2.12	0.50
3:D:1205:TYR:HE1	3:D:1221:VAL:CG1	2.23	0.50
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.12	0.50
1:B:158:ILE:HA	8:B:396:HOH:O	2.11	0.50
3:D:178:LEU:CD2	3:D:199:LEU:H	2.24	0.50
1:L:81:ASN:HB2	8:L:2800:HOH:O	2.12	0.50
2:M:165:LEU:HD12	2:M:166:PRO:C	2.32	0.50
2:M:852:ILE:N	2:M:852:ILE:HD12	2.27	0.50
5:P:287:THR:N	5:P:290:GLU:OE1	2.44	0.50
2:C:72:ARG:HD3	8:C:1601:HOH:O	2.12	0.50
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.94	0.50
3:N:1335:LEU:HD23	3:N:1344:VAL:HG22	1.94	0.50
3:D:902:LEU:H	3:D:902:LEU:HD12	1.76	0.50
1:B:11:PHE:CD1	1:B:25:LEU:HD13	2.47	0.50
2:M:191:PHE:CD2	2:M:238:LEU:HD21	2.47	0.50
5:P:412:GLU:HG3	5:P:418:LEU:HD22	1.92	0.50
1:A:213:GLN:O	1:A:217:ILE:HG13	2.11	0.50
2:M:377:PRO:HA	8:M:1544:HOH:O	2.11	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
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.93	0.50
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.35	0.50
3:D:661:MET:CE	3:D:673:ALA:HB1	2.40	0.50
2:M:704:HIS:CG	2:M:831:ARG:HH21	2.30	0.50
2:M:428:ARG:HG2	2:M:451:LEU:HG	1.93	0.50
1:A:206:THR:CG2	1:A:209:GLU:HG3	2.39	0.50
3:N:186:VAL:HG13	3:N:187:LYS:N	2.27	0.50
3:D:399:ARG:NH2	3:D:432:TYR:HE2	2.09	0.50
3:D:396:VAL:HG13	3:D:446:VAL:O	2.12	0.50
1:A:26:GLU:HG2	1:A:27:PRO:HA	1.94	0.50
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.76	0.50
2:C:534:VAL:HB	2:C:538:GLN:NE2	2.27	0.50
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.11	0.50
2:M:837:ASP:O	2:M:848:VAL:HG13	2.12	0.50
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.92	0.50
3:D:7:LYS:HD3	3:D:1456:LYS:NZ	2.26	0.50
8:C:1739:HOH:O	5:F:370:LYS:HG2	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:574:LEU:O	3:N:578:VAL:HG23	2.11	0.50
5:F:289:GLU:O	5:F:293:GLU:HG3	2.11	0.50
2:C:195:LEU:CD2	2:C:238:LEU:HG	2.42	0.50
2:C:572:ILE:HG21	2:C:703:ILE:HD13	1.92	0.50
2:C:18:LEU:HB2	2:C:590:ASP:HB3	1.93	0.50
2:M:1027:PHE:HA	8:M:1757:HOH:O	2.11	0.50
5:P:108:GLU:OE1	5:P:108:GLU:HA	2.12	0.50
2:C:103:LYS:HG3	8:C:1421:HOH:O	2.12	0.50
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.46	0.50
2:M:214:TYR:HB2	8:M:1457:HOH:O	2.12	0.50
1:A:156:HIS:CD2	1:A:157:GLY:H	2.29	0.50
3:D:1009:LYS:O	3:D:1012:GLU:HG2	2.11	0.50
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.94	0.50
2:C:404:LEU:HD22	2:C:591:SER:HB3	1.93	0.50
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.76	0.50
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.42	0.50
3:D:1192:LEU:HG	3:D:1369:GLU:HG2	1.92	0.50
2:C:627:ARG:O	2:C:638:ASP:HB3	2.12	0.50
3:D:690:ALA:O	3:D:694:VAL:HG23	2.12	0.50
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.41	0.50
3:D:834:THR:HB	3:D:838:ARG:HB3	1.92	0.50
5:F:404:ALA:O	5:F:408:LEU:HD23	2.12	0.50
3:N:898:GLU:HB3	3:N:921:ARG:HH22	1.76	0.50
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.94	0.50
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.46	0.50
3:D:404:GLU:HB3	3:D:414:ARG:HD3	1.94	0.50
2:M:955:PRO:HA	8:M:1188:HOH:O	2.11	0.50
2:M:228:ALA:HB2	8:M:1214:HOH:O	2.11	0.50
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.93	0.50
8:D:9410:HOH:O	5:F:147:LEU:HD11	2.11	0.50
1:A:42:ARG:NH2	1:B:34:VAL:HB	2.27	0.50
2:C:437:ARG:CZ	2:C:469:THR:HG22	2.42	0.50
2:C:464:LEU:O	2:C:466:PHE:N	2.45	0.50
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.50
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.41	0.50
2:C:157:ARG:CD	2:C:314:THR:HG22	2.40	0.50
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.77	0.50
3:N:9:ARG:HH22	3:N:507:ASN:HD21	1.60	0.50
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.46	0.50
3:N:813:LEU:HD12	3:N:817:GLU:OE1	2.12	0.50
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.42	0.50
3:D:1230:GLY:HA3	8:D:9051:HOH:O	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.41	0.50
3:D:864:VAL:HG12	3:D:865:THR:H	1.77	0.50
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.42	0.50
5:P:419:ARG:HG3	5:P:420:ASP:N	2.26	0.50
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.94	0.50
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.94	0.50
3:N:846:PRO:HD3	8:N:9226:HOH:O	2.10	0.50
5:F:255:ALA:HB3	8:F:561:HOH:O	2.11	0.50
3:N:16:GLU:HB2	8:N:9939:HOH:O	2.11	0.50
3:N:1481:VAL:HA	4:O:18:ARG:HH21	1.77	0.49
2:C:437:ARG:HB3	2:C:467:ILE:HB	1.93	0.49
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.93	0.49
2:C:630:ARG:HH11	2:C:630:ARG:HG2	1.76	0.49
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.93	0.49
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.75	0.49
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.94	0.49
3:N:183:GLU:O	3:N:186:VAL:HG12	2.12	0.49
3:N:733:CYS:HA	8:N:9159:HOH:O	2.12	0.49
2:C:137:VAL:HG22	2:C:391:LEU:O	2.12	0.49
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.12	0.49
2:C:1044:GLY:CA	4:E:17:TYR:HE1	2.25	0.49
3:N:543:LEU:O	3:N:546:ARG:HB2	2.11	0.49
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.12	0.49
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.41	0.49
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.94	0.49
1:B:145:ASP:O	1:B:171:PHE:HE1	1.94	0.49
4:E:66:LYS:HB2	4:E:66:LYS:NZ	2.26	0.49
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.41	0.49
2:M:723:THR:HG21	2:M:783:ARG:HH22	1.77	0.49
1:K:64:GLU:HB2	8:K:3487:HOH:O	2.10	0.49
2:M:157:ARG:HA	2:M:157:ARG:NE	2.27	0.49
2:C:217:LEU:HA	8:C:1241:HOH:O	2.10	0.49
3:D:630:VAL:HG23	3:D:744:GLN:OE1	2.12	0.49
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.94	0.49
2:M:826:TYR:N	2:M:826:TYR:CD1	2.80	0.49
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.77	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
5:F:167:PRO:HD2	5:F:170:HIS:CD2	2.47	0.49
4:E:86:GLN:O	4:E:90:GLU:HG3	2.12	0.49
3:N:60:CYS:SG	3:N:62:LYS:HG2	2.52	0.49
2:M:508:ILE:HG21	8:M:1319:HOH:O	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
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
3:N:583:ASP:HA	3:N:602:SER:HB2	1.93	0.49
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.76	0.49
3:D:1197:ARG:HG3	8:D:9036:HOH:O	2.10	0.49
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.94	0.49
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.27	0.49
3:D:549:ASN:HB3	8:F:611:HOH:O	2.12	0.49
3:N:1496:GLU:O	3:N:1500:LYS:HG3	2.12	0.49
1:K:211:LEU:O	1:K:215:VAL:HG22	2.12	0.49
2:C:761:PHE:CD1	2:C:761:PHE:N	2.80	0.49
2:M:259:GLY:HA3	8:M:1296:HOH:O	2.11	0.49
1:K:66:SER:O	1:K:75:VAL:HG23	2.12	0.49
2:M:745:ILE:HD11	8:M:1269:HOH:O	2.11	0.49
3:D:197:SER:CB	3:D:203:ALA:HB3	2.28	0.49
2:C:141:HIS:ND1	2:C:418:LEU:HG	2.27	0.49
3:N:1168:MET:HE2	3:N:1168:MET:O	2.11	0.49
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.26	0.49
3:N:474:GLU:O	3:N:478:LEU:HG	2.12	0.49
3:N:9:ARG:HG3	3:N:1455:LYS:C	2.33	0.49
2:M:170:PRO:HG2	2:M:258:TYR:HD2	1.76	0.49
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.43	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.92	0.49
2:C:710:ILE:CB	2:C:790:LEU:HD13	2.39	0.49
3:D:850:LEU:O	3:D:853:VAL:HB	2.12	0.49
3:N:645:PRO:HG3	3:N:725:SER:O	2.13	0.49
1:L:62:LEU:HD12	8:L:2996:HOH:O	2.12	0.49
3:D:1205:TYR:HD2	8:D:9465:HOH:O	1.95	0.49
3:N:844:ALA:HA	3:N:867:ARG:NH1	2.27	0.49
1:A:61:VAL:HG12	8:A:482:HOH:O	2.12	0.49
3:N:462:GLN:HB3	8:N:9127:HOH:O	2.12	0.49
2:M:708:TYR:N	2:M:708:TYR:CD1	2.79	0.49
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.48	0.49
3:N:379:ALA:HB2	8:N:9176:HOH:O	2.12	0.49
3:N:1225:ALA:HA	3:N:1367:HIS:ND1	2.27	0.49
3:N:203:ALA:HA	8:N:9962:HOH:O	2.13	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
2:C:777:ILE:HA	5:F:405:LEU:HD21	1.93	0.49
3:D:1105:ILE:HA	8:D:9253:HOH:O	2.12	0.49
2:C:503:LEU:HD13	2:C:507:ARG:O	2.12	0.49
2:M:92:ALA:HB2	2:M:120:LEU:CD1	2.34	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.47	0.49
3:D:395:VAL:HG12	8:D:2022:HOH:O	2.11	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
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.42	0.49
3:D:111:LYS:HE2	3:D:1452:ILE:HG21	1.95	0.49
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.47	0.49
5:P:247:ILE:O	5:P:251:ILE:HG13	2.13	0.49
3:N:868:TYR:HE2	3:N:880:ILE:HD11	1.78	0.49
3:D:809:PRO:O	3:D:812:ALA:HB3	2.12	0.49
2:C:443:THR:HG23	2:C:449:ILE:HD12	1.92	0.49
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.93	0.49
5:P:218:GLN:HE21	5:P:221:ILE:HD12	1.78	0.49
2:C:146:VAL:HG13	2:C:161:SER:O	2.12	0.49
1:K:68:ILE:HG21	1:K:138:LEU:CD1	2.42	0.49
3:N:7:LYS:HD3	3:N:1456:LYS:NZ	2.28	0.49
2:C:15:LEU:HD13	2:C:586:ARG:HG3	1.94	0.49
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.95	0.49
2:M:1118:LYS:HG2	3:N:23:TYR:HE1	1.78	0.49
5:P:107:GLU:HG3	8:P:4460:HOH:O	2.11	0.49
4:E:55:PHE:HB3	8:E:116:HOH:O	2.12	0.49
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.45	0.49
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.47	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
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:299:TRP:CE3	5:F:303:ARG:HD3	2.47	0.49
2:C:147:TYR:HE2	2:C:280:LYS:HZ3	1.59	0.49
3:N:970:LYS:HE3	8:N:9931:HOH:O	2.13	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:N:119:SER:HB2	3:N:123:LEU:CB	2.38	0.49
5:P:291:ILE:HB	8:P:4032:HOH:O	2.13	0.49
5:P:260:ILE:CG2	5:P:264:MET:HB2	2.41	0.49
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.42	0.49
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.43	0.49
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.48	0.49
5:P:323:ASP:C	5:P:325:LYS:H	2.15	0.49
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.47	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.12	0.49
5:F:287:THR:C	5:F:289:GLU:H	2.15	0.49
3:N:720:LEU:HD12	8:N:9443:HOH:O	2.12	0.49
5:F:203:THR:HB	8:F:436:HOH:O	2.11	0.49
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.11	0.49
2:M:937:ASP:HB2	2:M:940:GLU:H	1.77	0.49
1:K:65:PHE:CE1	2:M:799:ILE:HD11	2.46	0.49
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.28	0.49
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.42	0.49
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.28	0.49
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.43	0.49
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.95	0.49
3:N:133:ILE:HG23	3:N:455:ARG:N	2.28	0.49
3:N:567:ILE:C	3:N:571:LYS:HZ2	2.16	0.49
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.48	0.49
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.25	0.49
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.41	0.49
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.11	0.49
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.94	0.49
3:N:728:LEU:HD12	8:N:9339:HOH:O	2.12	0.49
2:C:609:ASN:ND2	2:C:627:ARG:NH2	2.58	0.49
3:D:862:ASP:O	3:D:877:PRO:HD3	2.12	0.49
3:N:890:VAL:CG1	3:N:926:LYS:HD3	2.42	0.49
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.95	0.49
1:L:196:THR:HB	8:L:4937:HOH:O	2.11	0.49
8:A:501:HOH:O	2:C:644:VAL:HG13	2.13	0.49
3:D:1289:LYS:HE3	3:D:1307:LYS:CE	2.41	0.49
1:L:84:GLU:HG3	1:L:127:LEU:HD22	1.94	0.49
3:N:121:THR:C	8:N:9808:HOH:O	2.51	0.49
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.94	0.49
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.49
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.49
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.13	0.49
1:L:102:LYS:HG3	1:L:139:ASN:CB	2.42	0.49
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.43	0.49
2:M:420:ARG:HD2	2:M:420:ARG:H	1.76	0.49
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.49
2:M:802:ARG:HD2	8:M:1213:HOH:O	2.12	0.49
5:F:277:GLN:O	5:F:280:GLN:HB3	2.12	0.49
1:A:187:GLY:HA3	8:A:335:HOH:O	2.11	0.49
2:C:422:ARG:HG2	8:C:1141:HOH:O	2.12	0.49
2:C:896:PHE:O	2:C:924:VAL:HG11	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:96:ALA:CB	3:D:554:LEU:HD12	2.42	0.49
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.94	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
3:N:27:GLU:O	3:N:28:LYS:HD2	2.13	0.49
3:D:131:LYS:HB3	3:D:456:MET:CE	2.43	0.49
5:P:184:ARG:O	5:P:188:ILE:HG13	2.12	0.49
4:O:54:LEU:HB3	8:O:4983:HOH:O	2.12	0.49
2:C:274:ARG:HG3	2:C:274:ARG:O	2.13	0.49
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.36	0.49
2:M:768:THR:O	2:M:772:ARG:HB3	2.12	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
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.78	0.49
3:D:124:GLU:HG2	3:D:128:TYR:CZ	2.47	0.49
3:D:156:GLU:CD	3:D:156:GLU:N	2.66	0.49
4:E:51:LEU:CD1	4:E:52:GLU:H	2.26	0.49
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.11	0.49
3:N:602:SER:O	3:N:606:ILE:HG12	2.13	0.49
2:M:580:MET:HB3	2:M:584:GLU:OE2	2.13	0.49
3:N:574:LEU:O	3:N:577:ALA:HB3	2.11	0.49
5:P:142:ARG:NH1	5:P:142:ARG:HB3	2.26	0.49
3:D:916:TYR:HH	3:D:1145:TYR:HH	1.60	0.49
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.49
2:C:589:ARG:HG2	8:C:1213:HOH:O	2.12	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.28	0.49
2:M:770:GLU:HB2	8:N:9595:HOH:O	2.12	0.49
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.93	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
3:D:493:ARG:HD2	8:D:9698:HOH:O	2.13	0.49
3:D:790:TYR:CG	3:D:1026:SER:HB3	2.48	0.49
3:N:687:VAL:O	3:N:690:ALA:HB3	2.12	0.49
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	2.12	0.49
3:D:939:PHE:O	3:D:943:THR:HG23	2.13	0.49
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.27	0.49
2:M:571:LEU:HD23	2:M:670:GLN:HE21	1.77	0.49
1:B:65:PHE:HD1	3:D:813:LEU:HD22	1.76	0.49
5:F:404:ALA:HA	8:F:429:HOH:O	2.12	0.49
3:N:1442:ASN:HA	8:N:9244:HOH:O	2.11	0.49
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.74	0.49
2:C:172:ILE:HD12	2:C:172:ILE:N	2.27	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:492:ASP:HB3	2:M:518:LYS:CD	2.42	0.49
2:C:412:ALA:CB	2:C:451:LEU:HB3	2.42	0.49
2:M:62:GLY:O	2:M:103:LYS:HG3	2.13	0.49
2:C:751:PRO:HA	2:C:792:VAL:CG1	2.42	0.49
2:M:345:ARG:HH11	2:M:345:ARG:HB3	1.77	0.49
3:D:1157:GLY:HA3	8:D:9057:HOH:O	2.11	0.49
3:D:229:ALA:HA	8:D:2026:HOH:O	2.12	0.49
2:C:717:LEU:HB3	8:C:1140:HOH:O	2.13	0.49
2:C:84:ARG:HH21	2:C:128:ILE:HD11	1.78	0.49
1:A:95:GLN:HG2	1:A:146:ARG:NH2	2.14	0.49
2:C:397:GLU:HA	2:C:403:SER:HB3	1.94	0.49
2:C:100:LEU:HD12	2:C:101:ILE:O	2.12	0.49
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.13	0.49
3:D:1431:THR:HB	8:D:9481:HOH:O	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:C:536:PRO:HB3	2:C:906:PHE:HD1	1.77	0.49
2:M:758:ARG:HB3	2:M:788:THR:O	2.13	0.49
3:N:704:ARG:HG3	3:N:736:PHE:CB	2.43	0.49
3:N:674:ARG:HG2	3:N:674:ARG:HH11	1.76	0.49
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.25	0.49
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.46	0.49
2:M:841:ASN:ND2	2:M:844:GLY:H	2.11	0.49
3:N:68:PHE:HA	3:N:71:LYS:HZ1	1.78	0.49
2:C:637:LEU:HD13	8:C:1532:HOH:O	2.12	0.49
3:D:440:VAL:HG22	8:D:9349:HOH:O	2.13	0.49
2:M:525:SER:H	2:M:528:GLU:HG3	1.77	0.49
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.95	0.49
5:F:395:GLU:O	5:F:399:GLN:HB2	2.13	0.49
2:M:497:ALA:HA	2:M:515:ALA:HA	1.94	0.49
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.95	0.49
5:F:362:SER:C	5:F:364:ARG:H	2.15	0.49
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.95	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
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.40	0.49
2:M:285:LEU:O	2:M:285:LEU:HD23	2.13	0.49
2:M:722:ILE:O	2:M:722:ILE:HG23	2.13	0.49
2:M:614:ARG:CD	2:M:620:LEU:HD12	2.36	0.49
3:N:948:THR:O	3:N:949:ILE:HD13	2.13	0.49
2:C:603:VAL:HG12	8:C:1221:HOH:O	2.13	0.49
3:D:959:GLU:CD	3:D:959:GLU:H	2.16	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.28	0.49
5:F:142:ARG:HG3	8:F:482:HOH:O	2.12	0.49
1:A:62:LEU:HB3	1:A:163:ASN:HD21	1.78	0.49
3:N:466:LYS:HB2	8:N:9423:HOH:O	2.12	0.49
1:K:96:THR:HG21	8:K:3321:HOH:O	2.12	0.49
5:P:176:ILE:HD12	8:P:3516:HOH:O	2.13	0.49
4:E:84:ARG:NH1	4:E:84:ARG:HB2	2.26	0.49
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.42	0.48
3:N:433:GLY:HA3	3:N:450:TYR:HD1	1.78	0.48
2:M:721:ARG:O	2:M:758:ARG:HA	2.13	0.48
1:L:32:PHE:O	1:L:36:LEU:HD23	2.12	0.48
2:M:537:LYS:CA	2:M:545:ASN:HD21	2.22	0.48
2:C:137:VAL:O	2:C:391:LEU:HD21	2.13	0.48
3:N:890:VAL:HG12	8:N:9462:HOH:O	2.12	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.39	0.48
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.13	0.48
2:M:589:ARG:CB	2:M:589:ARG:HH11	2.23	0.48
2:C:166:PRO:HD2	8:C:1392:HOH:O	2.13	0.48
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.95	0.48
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.48	0.48
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.48	0.48
1:K:100:LEU:HD11	8:K:4816:HOH:O	2.13	0.48
3:N:1108:ARG:HH21	3:N:1198:TYR:C	2.16	0.48
2:M:510:ALA:HA	8:M:1122:HOH:O	2.13	0.48
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.43	0.48
3:D:32:ILE:HG12	3:D:38:LYS:O	2.13	0.48
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.95	0.48
2:M:778:PHE:HD2	8:M:1700:HOH:O	1.95	0.48
2:C:286:SER:HB3	8:C:1755:HOH:O	2.12	0.48
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.43	0.48
5:P:193:ARG:HG2	8:P:3920:HOH:O	2.13	0.48
4:O:48:MET:CB	4:O:54:LEU:HB2	2.43	0.48
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.48	0.48
2:C:498:GLN:O	2:C:501:THR:HG23	2.12	0.48
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.96	0.48
3:D:1310:ARG:NH1	3:D:1327:ARG:HD3	2.28	0.48
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.44	0.48
3:N:119:SER:H	3:N:123:LEU:CD2	2.23	0.48
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.48	0.48
2:M:637:LEU:N	2:M:637:LEU:HD23	2.28	0.48
3:D:971:LEU:O	3:D:975:GLU:HG3	2.12	0.48
2:M:605:LYS:HB3	8:M:1452:HOH:O	2.11	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:198:ARG:C	1:A:199:ILE:HD12	2.34	0.48
3:N:1046:GLN:OE1	3:N:1046:GLN:N	2.46	0.48
5:P:208:SER:HB2	5:P:211:ASP:OD1	2.13	0.48
1:B:18:ARG:O	1:B:207:PRO:HD3	2.13	0.48
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.13	0.48
2:C:583:LEU:HG	2:C:583:LEU:O	2.13	0.48
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.48	0.48
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.48	0.48
2:M:283:ILE:HG23	8:M:1216:HOH:O	2.13	0.48
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.12	0.48
2:C:367:LEU:CD2	2:C:371:LYS:HG2	2.41	0.48
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.13	0.48
2:C:802:ARG:HB3	8:C:1186:HOH:O	2.11	0.48
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.95	0.48
3:N:756:GLN:HG2	8:N:9643:HOH:O	2.12	0.48
2:M:707:ARG:HD2	2:M:824:ARG:HG2	1.93	0.48
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.37	0.48
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.47	0.48
2:M:790:LEU:C	2:M:790:LEU:HD23	2.34	0.48
3:N:15:PRO:HA	3:N:18:ILE:CG1	2.42	0.48
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.48	0.48
2:M:882:LEU:HD11	3:N:1038:LEU:HD23	1.94	0.48
2:M:407:LYS:HD2	8:M:1363:HOH:O	2.12	0.48
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.43	0.48
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.28	0.48
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.28	0.48
2:C:759:THR:HB	2:C:785:VAL:HG21	1.95	0.48
3:N:844:ALA:HB1	8:N:9025:HOH:O	2.11	0.48
4:E:85:LEU:HD23	4:E:86:GLN:N	2.28	0.48
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.13	0.48
1:K:140:MET:HG3	1:K:142:VAL:HG12	1.94	0.48
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.42	0.48
5:F:142:ARG:HA	8:F:755:HOH:O	2.13	0.48
3:D:829:VAL:HA	8:D:2081:HOH:O	2.13	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
2:C:742:VAL:HG12	2:C:743:VAL:N	2.28	0.48
5:F:231:ARG:HB3	5:F:233:PHE:CZ	2.49	0.48
3:N:179:VAL:HG23	8:N:9425:HOH:O	2.13	0.48
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.95	0.48
2:M:1060:ILE:HG12	2:M:1063:ARG:HH21	1.78	0.48
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:35:PHE:HB3	8:O:3746:HOH:O	2.14	0.48
5:F:310:ILE:HB	8:F:438:HOH:O	2.12	0.48
2:M:281:LEU:CD1	2:M:306:THR:HA	2.44	0.48
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.95	0.48
3:D:139:GLY:N	3:D:147:VAL:HG21	2.27	0.48
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.94	0.48
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.28	0.48
3:D:608:SER:O	3:D:612:GLY:HA3	2.14	0.48
2:C:379:GLU:O	2:C:383:ARG:HB3	2.12	0.48
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.96	0.48
2:C:500:ASN:ND2	3:D:1067:VAL:HG23	2.20	0.48
2:C:839:LEU:HD12	2:C:994:ILE:HG21	1.95	0.48
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.39	0.48
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.42	0.48
1:L:13:VAL:HG22	8:L:3037:HOH:O	2.13	0.48
3:N:566:ILE:HB	8:N:9165:HOH:O	2.13	0.48
5:F:226:LYS:HE3	8:F:741:HOH:O	2.12	0.48
1:L:2:LEU:HD12	1:L:3:ASP:N	2.27	0.48
5:F:134:LYS:HB3	5:F:178:ARG:NH1	2.28	0.48
3:N:1176:LYS:HA	3:N:1179:GLU:OE2	2.14	0.48
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.43	0.48
2:M:748:GLU:HA	2:M:799:ILE:HG22	1.95	0.48
1:A:118:ALA:HB3	8:A:444:HOH:O	2.14	0.48
2:C:872:ASN:HB3	8:C:1870:HOH:O	2.13	0.48
2:M:264:PRO:HB2	2:M:289:THR:OG1	2.13	0.48
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.96	0.48
8:D:9332:HOH:O	5:F:80:PRO:HA	2.13	0.48
3:N:565:ILE:CD1	3:N:565:ILE:H	2.10	0.48
1:K:18:ARG:NH1	1:K:123:MET:HE1	2.28	0.48
3:D:65:ARG:HG3	3:D:66:GLN:N	2.25	0.48
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.95	0.48
2:M:474:VAL:HG23	2:M:478:VAL:O	2.13	0.48
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.43	0.48
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.49	0.48
1:L:173:PRO:HB3	1:L:204:SER:HB3	1.94	0.48
3:D:768:ASN:H	3:D:768:ASN:HD22	1.61	0.48
5:F:194:LEU:HB2	8:F:523:HOH:O	2.12	0.48
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.95	0.48
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.43	0.48
3:N:42:ASP:O	3:N:43:GLY:O	2.31	0.48
5:P:350:LEU:HG	5:P:354:LEU:CD1	2.43	0.48
2:C:630:ARG:HH22	2:C:707:ARG:N	2.11	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:708:TYR:N	2:C:708:TYR:CD1	2.81	0.48
3:D:1264:GLU:HB3	3:D:1266:ARG:NE	2.29	0.48
4:O:45:ARG:O	4:O:47:LYS:HD3	2.13	0.48
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.26	0.48
2:M:239:PHE:HE2	8:M:1222:HOH:O	1.97	0.48
2:C:127:PHE:O	2:C:133:ASP:HA	2.13	0.48
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.76	0.48
3:D:827:ILE:O	3:D:837:GLY:HA3	2.14	0.48
2:C:41:ASN:HB3	8:C:1231:HOH:O	2.13	0.48
2:M:688:ILE:HD12	2:M:688:ILE:N	2.29	0.48
2:M:19:THR:HG21	2:M:124:ASP:O	2.14	0.48
2:M:301:GLU:O	2:M:305:PRO:HG2	2.13	0.48
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.43	0.48
2:M:833:LEU:HD12	2:M:834:GLN:N	2.29	0.48
2:C:669:GLY:C	2:C:670:GLN:HG3	2.33	0.48
2:M:879:ARG:NH1	3:N:1029:ARG:NH2	2.62	0.48
4:E:87:LYS:O	4:E:91:ARG:HG3	2.14	0.48
2:M:759:THR:HB	2:M:785:VAL:CG2	2.43	0.48
1:B:110:LYS:HZ3	1:B:110:LYS:HB2	1.78	0.48
3:D:1009:LYS:HA	3:D:1012:GLU:CD	2.34	0.48
1:K:215:VAL:HG11	1:L:225:PHE:CD1	2.48	0.48
3:D:576:GLU:C	3:D:576:GLU:CD	2.72	0.48
3:N:973:GLN:HG2	8:N:9252:HOH:O	2.13	0.48
1:B:162:ILE:HG22	8:B:463:HOH:O	2.12	0.48
2:M:1045:ALA:HB1	2:M:1048:THR:HB	1.96	0.48
3:D:666:ILE:H	3:D:666:ILE:HG13	1.33	0.48
1:K:178:ALA:HB3	1:K:198:ARG:HD3	1.94	0.48
2:C:91:GLN:HE22	2:C:383:ARG:NH2	2.11	0.48
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.17	0.48
3:D:389:GLU:O	3:D:389:GLU:HG2	2.13	0.48
3:D:813:LEU:O	3:D:839:LEU:HD11	2.13	0.48
2:C:471:TYR:HA	2:C:534:VAL:HG23	1.96	0.48
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.48	0.48
3:D:860:LEU:O	3:D:877:PRO:HD2	2.13	0.48
2:M:599:GLU:OE1	2:M:651:LYS:HD2	2.14	0.48
2:C:603:VAL:H	2:C:647:GLN:H	1.61	0.48
2:M:80:GLN:O	2:M:83:CYS:HB2	2.13	0.48
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.28	0.48
3:N:880:ILE:O	3:N:883:ALA:HB3	2.14	0.48
4:E:17:TYR:N	4:E:17:TYR:CD2	2.82	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

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.95	0.48
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.43	0.48
4:E:43:GLU:HG2	4:E:44:GLU:N	2.28	0.48
3:D:899:LEU:HD21	3:D:922:LEU:HD21	1.96	0.48
1:K:209:GLU:O	1:K:213:GLN:HG3	2.13	0.48
3:D:428:LYS:HB3	3:D:450:TYR:HE1	1.77	0.48
2:M:57:GLU:HG3	2:M:58:ASP:OD2	2.13	0.48
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.76	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
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
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.33	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
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
3:N:676:MET:HE2	3:N:684:LYS:HD2	1.96	0.48
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.49	0.48
3:N:631:ILE:O	3:N:632:VAL:HG23	2.13	0.48
3:D:633:VAL:HB	3:D:740:PHE:CZ	2.48	0.48
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.96	0.48
1:A:85:LEU:HD12	1:A:86:VAL:N	2.29	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.43	0.48
1:A:161:ARG:NH2	8:A:348:HOH:O	2.46	0.48
3:N:1173:LEU:CD2	3:N:1174:LEU:HD23	2.43	0.48
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.96	0.48
5:F:171:LYS:HG3	5:F:175:HIS:CD2	2.49	0.48
2:M:852:ILE:HD12	2:M:852:ILE:H	1.79	0.48
3:N:1310:ARG:HD2	3:N:1327:ARG:HH21	1.76	0.48
2:C:937:ASP:HB3	2:C:939:ARG:HG2	1.96	0.48
3:N:799:LYS:HE2	3:N:824:ASN:O	2.13	0.48
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.16	0.48
3:D:32:ILE:O	5:F:258:ILE:HG23	2.14	0.48
5:P:169:GLU:H	5:P:169:GLU:CD	2.17	0.48
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.95	0.48
1:A:110:LYS:HB2	8:A:442:HOH:O	2.14	0.48
3:N:1117:TYR:CD2	3:N:1117:TYR:N	2.82	0.48
2:M:863:ASP:O	2:M:865:THR:N	2.46	0.48
3:D:494:LYS:HD3	8:D:9340:HOH:O	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:125:ASP:OD2	5:P:126:LEU:HD13	2.14	0.48
3:N:93:ILE:HD13	3:N:548:ILE:HD11	1.95	0.48
2:M:310:LEU:O	2:M:314:THR:HG23	2.14	0.48
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.95	0.48
4:O:47:LYS:H	4:O:47:LYS:HE2	1.78	0.48
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.49	0.48
2:C:536:PRO:HG2	8:C:1330:HOH:O	2.14	0.48
3:N:661:MET:CE	3:N:673:ALA:HB1	2.43	0.48
3:D:183:GLU:O	3:D:186:VAL:HG12	2.14	0.48
2:C:721:ARG:O	2:C:758:ARG:HA	2.14	0.48
2:M:31:GLN:HG2	2:M:34:VAL:HG23	1.96	0.48
5:P:291:ILE:O	5:P:295:MET:HB2	2.13	0.48
5:P:267:THR:HG21	8:P:3894:HOH:O	2.14	0.48
3:N:879:ARG:NE	3:N:902:LEU:O	2.47	0.48
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.41	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:586:ARG:HD2	2:M:590:ASP:OD2	2.14	0.48
3:N:393:ILE:H	3:N:393:ILE:HD12	1.79	0.48
2:C:669:GLY:HA3	2:C:995:MET:HA	1.96	0.48
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.96	0.48
3:N:788:GLY:O	3:N:792:ILE:HG22	2.13	0.48
3:D:161:LEU:CD1	3:D:452:ILE:HD12	2.44	0.48
2:M:952:LEU:HB3	2:M:969:GLN:HE22	1.78	0.48
2:M:114:PHE:CZ	5:P:283:GLY:HA3	2.49	0.48
3:D:645:PRO:HG3	3:D:725:SER:O	2.12	0.48
1:L:218:LEU:O	1:L:222:LEU:HG	2.14	0.48
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.44	0.48
1:A:137:ARG:N	1:A:137:ARG:HD2	2.29	0.48
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.44	0.48
3:N:804:LEU:HB3	8:N:9574:HOH:O	2.13	0.48
2:C:715:THR:CG2	2:C:717:LEU:HG	2.44	0.48
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.13	0.48
2:M:1104:GLU:HG2	8:M:1597:HOH:O	2.13	0.48
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.13	0.48
8:N:9310:HOH:O	4:O:89:MET:HA	2.14	0.48
5:F:323:ASP:O	5:F:325:LYS:N	2.46	0.48
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.94	0.48
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.14	0.48
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.14	0.48
2:C:704:HIS:O	2:C:705:ILE:HG13	2.14	0.48
3:D:516:ALA:O	3:D:518:PRO:HD3	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:64:ALA:HA	4:E:67:GLU:CD	2.34	0.48
3:N:787:LEU:O	3:N:787:LEU:HD12	2.14	0.48
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.44	0.48
2:M:415:PRO:HB2	2:M:418:LEU:HD13	1.96	0.48
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.96	0.48
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.14	0.48
2:M:207:LEU:O	2:M:211:LEU:HB3	2.13	0.48
2:C:378:LEU:HG	2:C:382:ILE:CD1	2.44	0.48
2:M:835:VAL:HG13	3:N:725:SER:OG	2.14	0.48
3:D:1107:VAL:HG21	3:D:1215:VAL:HG11	1.94	0.48
3:N:761:ILE:HD13	8:O:3197:HOH:O	2.13	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
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.49	0.48
5:F:323:ASP:C	5:F:325:LYS:H	2.17	0.48
3:D:1250:ALA:O	3:D:1269:LYS:HE2	2.14	0.48
3:N:759:ALA:HA	3:N:763:MET:HE2	1.96	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.48
3:N:1242:HIS:NE2	3:N:1266:ARG:HD3	2.29	0.48
2:C:335:THR:CG2	2:C:461:VAL:HG11	2.44	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.48	0.47
3:N:443:VAL:CG1	3:N:445:ARG:HE	2.26	0.47
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.48	0.47
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.96	0.47
2:M:178:PRO:HA	8:M:1432:HOH:O	2.11	0.47
2:M:808:ARG:HH21	2:M:820:ARG:HG2	1.78	0.47
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.29	0.47
5:P:370:LYS:HB3	5:P:370:LYS:NZ	2.29	0.47
3:N:658:LEU:O	3:N:661:MET:HB2	2.14	0.47
1:A:184:THR:HG23	1:A:192:LEU:CD1	2.44	0.47
5:F:115:LYS:HE2	5:F:115:LYS:HA	1.96	0.47
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.44	0.47
2:M:575:GLN:N	2:M:667:ALA:HB1	2.29	0.47
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.42	0.47
2:M:367:LEU:HD23	2:M:371:LYS:NZ	2.29	0.47
2:C:694:LEU:O	2:C:699:PHE:HB2	2.14	0.47
1:L:143:ARG:HG3	8:L:3482:HOH:O	2.13	0.47
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.96	0.47
3:N:1197:ARG:HB3	3:N:1396:GLU:OE1	2.13	0.47
2:C:926:PHE:CD2	2:C:930:LYS:HE2	2.49	0.47
3:D:1128:VAL:O	3:D:1129:THR:C	2.52	0.47
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:190:THR:HA	8:L:4811:HOH:O	2.14	0.47
2:M:611:ILE:N	2:M:611:ILE:HD12	2.29	0.47
2:M:810:ASP:HB3	8:M:1642:HOH:O	2.13	0.47
3:D:924:MET:O	3:D:927:THR:HB	2.14	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	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
5:F:200:LYS:HE2	8:F:705:HOH:O	2.14	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
2:C:260:LEU:HA	2:C:291:ALA:CB	2.43	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
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.43	0.47
5:F:306:GLU:HG2	8:F:517:HOH:O	2.14	0.47
1:A:54:THR:HG22	1:A:143:ARG:HG2	1.95	0.47
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.44	0.47
2:M:984:GLU:HG3	3:N:944:THR:O	2.14	0.47
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.96	0.47
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.94	0.47
3:D:1342:GLU:H	3:D:1342:GLU:CD	2.18	0.47
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.43	0.47
3:N:792:ILE:O	3:N:878:GLY:HA3	2.14	0.47
1:B:159:LYS:HE2	8:B:396:HOH:O	2.12	0.47
3:N:761:ILE:HG23	4:O:6:ILE:HD11	1.95	0.47
3:N:583:ASP:OD2	3:N:586:ARG:HD2	2.14	0.47
3:D:1432:LYS:CG	3:D:1433:SER:H	2.27	0.47
3:N:169:TYR:HA	3:N:392:SER:HA	1.96	0.47
3:D:829:VAL:HG11	8:D:9103: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:M:776:SER:HB3	8:M:1776:HOH:O	2.12	0.47
3:D:585:GLY:N	8:D:9822:HOH:O	2.47	0.47
2:M:916:GLU:HG3	2:M:917:LEU:N	2.29	0.47
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.44	0.47
5:F:138:SER:O	5:F:141:VAL:HG12	2.14	0.47
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.96	0.47
4:E:37:ASN:HD22	4:E:89:MET:CE	2.27	0.47
2:C:584:GLU:H	2:C:584:GLU:CD	2.16	0.47
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.47
2:C:553:ASP:HA	2:C:881:ASN:HA	1.97	0.47
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:32:PHE:N	8:L:4886:HOH:O	2.47	0.47
1:A:59:GLU:HG3	1:A:139:ASN:ND2	2.30	0.47
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.43	0.47
2:C:959:PRO:O	2:C:963:LEU:HD23	2.14	0.47
2:M:687:ALA:C	2:M:688:ILE:HD12	2.35	0.47
1:L:13:VAL:HG11	1:L:208:LEU:HD11	1.96	0.47
2:C:80:GLN:O	2:C:83:CYS:HB2	2.14	0.47
2:M:603:VAL:H	2:M:647:GLN:H	1.63	0.47
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.12	0.47
5:F:216:GLY:O	5:F:243:ILE:HG12	2.14	0.47
3:D:169:TYR:N	3:D:170:PRO:CD	2.77	0.47
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.95	0.47
5:F:198:ILE:HA	8:F:618:HOH:O	2.14	0.47
3:N:1475:GLY:HA2	4:O:17:TYR:CD1	2.49	0.47
2:M:405:ARG:HG2	2:M:409:ARG:NH2	2.11	0.47
5:P:336:GLU:HG2	5:P:337:HIS:HD2	1.80	0.47
3:D:573:MET:HE3	5:F:210:LEU:HB3	1.95	0.47
5:F:368:VAL:HG12	8:F:443:HOH:O	2.14	0.47
2:C:157:ARG:HD3	2:C:158:TYR:N	2.29	0.47
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.49	0.47
5:P:128:ARG:HB2	5:P:128:ARG:NH1	2.30	0.47
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.95	0.47
5:F:267:THR:O	5:F:271:LEU:HG	2.14	0.47
5:F:303:ARG:HG3	8:F:507:HOH:O	2.14	0.47
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.47
2:M:172:ILE:HD12	2:M:172:ILE:N	2.30	0.47
5:P:409:LYS:HG3	5:P:410:TYR:N	2.29	0.47
3:N:147:VAL:HG11	8:N:9806:HOH:O	2.13	0.47
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.15	0.47
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.44	0.47
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.48	0.47
3:D:1207:TYR:N	8:D:9465:HOH:O	2.46	0.47
1:B:211:LEU:O	1:B:215:VAL:HG13	2.14	0.47
3:N:1485:GLN:HE21	4:O:80:VAL:N	2.09	0.47
5:F:282:LEU:HB2	5:F:284:ARG:H	1.79	0.47
5:F:223:ALA:HB2	5:F:242:TRP:HB2	1.96	0.47
3:D:711:LEU:CD1	3:D:778:LEU:HD13	2.44	0.47
3:D:639:LEU:HD12	3:D:640:HIS:H	1.80	0.47
3:D:1317:ASP:N	8:D:9664:HOH:O	2.47	0.47
2:M:198:ARG:NH1	2:M:231:PRO:HG3	2.30	0.47
1:A:157:GLY:HA3	8:A:320:HOH:O	2.14	0.47
3:D:1250:ALA:HB3	8:D:9181:HOH:O	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:827:ILE:HG23	3:N:837:GLY:CA	2.45	0.47
1:K:95:GLN:HG3	8:K:3203:HOH:O	2.14	0.47
2:M:716:LYS:HB2	8:M:1298:HOH:O	2.13	0.47
2:M:1059:ASP:O	2:M:1063:ARG:HG2	2.13	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.45	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.47
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.49	0.47
2:C:773:LEU:O	2:C:777:ILE:HG13	2.14	0.47
2:C:1055:LEU:HG	2:C:1079:PRO:HG3	1.97	0.47
3:N:561:GLY:HA2	8:N:9133:HOH:O	2.14	0.47
3:D:912:LYS:O	3:D:915:VAL:HG23	2.15	0.47
3:N:132:TYR:HA	8:N:9161:HOH:O	2.14	0.47
3:N:568:ARG:HA	3:N:571:LYS:NZ	2.29	0.47
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.49	0.47
3:N:864:VAL:HG12	3:N:865:THR:H	1.79	0.47
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.96	0.47
2:C:232:GLU:HG3	2:C:235:LEU:CD1	2.44	0.47
3:D:186:VAL:HG13	3:D:187:LYS:N	2.28	0.47
3:D:465:LEU:CD1	3:D:513:ILE:HD11	2.44	0.47
2:C:567:GLN:CB	2:C:997:LEU:HD22	2.45	0.47
3:N:493:ARG:NH1	3:N:1390:LEU:H	2.12	0.47
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.50	0.47
2:M:625:LEU:O	2:M:627:ARG:N	2.47	0.47
2:M:197:LEU:CD1	2:M:207:LEU:HD11	2.44	0.47
2:M:645:VAL:HG13	8:M:1487:HOH:O	2.14	0.47
5:F:411:HIS:HB2	8:F:598:HOH:O	2.13	0.47
2:C:473:ARG:HD2	2:C:475:VAL:HG23	1.95	0.47
2:C:526:PRO:HB2	8:C:1311:HOH:O	2.13	0.47
3:N:871:LYS:HB3	3:N:873:LEU:HD11	1.97	0.47
3:D:1153:VAL:O	3:D:1160:LEU:HG	2.14	0.47
3:N:1310:ARG:HB2	8:N:9400:HOH:O	2.14	0.47
3:N:417:PRO:HA	5:P:168:LYS:HZ2	1.77	0.47
5:P:112:ALA:HA	5:P:173:TYR:CD2	2.48	0.47
5:P:392:VAL:HG21	8:P:3999:HOH:O	2.14	0.47
3:N:459:GLU:HG2	8:N:9337:HOH:O	2.14	0.47
2:C:398:THR:HG22	2:C:568:ALA:O	2.13	0.47
3:D:420:VAL:HA	5:F:164:LYS:NZ	2.29	0.47
4:O:84:ARG:HG3	4:O:84:ARG:O	2.15	0.47
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.18	0.47
2:C:510:ALA:HB2	8:C:1220:HOH:O	2.14	0.47
5:P:302:LYS:HA	8:P:3021:HOH:O	2.14	0.47
3:D:1250:ALA:HB2	8:D:9571:HOH:O	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:886:VAL:HG13	3:N:930:LEU:HD11	1.96	0.47
3:N:1138:ALA:HA	3:N:1141:GLU:HG3	1.96	0.47
3:N: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
3:D:852:ALA:O	3:D:857:ILE:HG12	2.14	0.47
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.29	0.47
2:M:820:ARG:HB2	8:M:1654:HOH:O	2.14	0.47
5:F:117:SER:OG	5:F:124:PRO:HG3	2.15	0.47
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.96	0.47
3:N:902:LEU:O	3:N:902:LEU:HD12	2.15	0.47
1:K:69:PRO:O	1:K:71:VAL:HG23	2.13	0.47
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.44	0.47
1:B:68:ILE:HD12	1:B:71:VAL:HG21	1.95	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:1485:GLN:NE2	4:O:80:VAL:H	2.12	0.47
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.45	0.47
3:N:1320:GLU:HG2	3:N:1339:LYS:HE3	1.96	0.47
5:F:371:LEU:O	5:F:375:LEU:HB3	2.15	0.47
5:P:396:ARG:HA	5:P:399:GLN:HB2	1.95	0.47
3:D:675:ARG:HH21	5:F:421:PHE:H	1.61	0.47
2:C:139:GLN:HG2	2:C:140:ILE:H	1.79	0.47
3:N:829:VAL:HA	8:N:9426:HOH:O	2.15	0.47
3:D:640:HIS:HE1	4:E:3:GLU:HG2	1.79	0.47
1:K:228:PRO:HG3	8:K:4456:HOH:O	2.13	0.47
2:M:916:GLU:O	2:M:919:ALA:HB3	2.15	0.47
3:D:1071:PHE:HB3	8:D:9526:HOH:O	2.14	0.47
3:N:1054:GLU:HB2	8:N:9488:HOH:O	2.15	0.47
2:M:1030:GLN:HB3	3:N:626:SER:HB2	1.97	0.47
1:A:149:GLY:O	1:A:171:PHE:HB2	2.14	0.47
2:M:32:ALA:HA	8:M:1342:HOH:O	2.15	0.47
3:D:416:ALA:H	3:D:417:PRO:CD	2.26	0.47
2:C:403:SER:O	2:C:407:LYS:HD2	2.14	0.47
3:N:1068:LEU:C	3:N:1070:TYR:N	2.67	0.47
2:C:372:LEU:HD21	8:C:1196:HOH:O	2.14	0.47
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.97	0.47
2:M:1090:LYS:HZ1	3:N:90:MET:CG	2.27	0.47
3:N:1166:LEU:N	3:N:1166:LEU:HD23	2.29	0.47
3:N:47:GLU:OE1	3:N:52:PRO:HA	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
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.45	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:83:SER:O	3:D:86:ARG:HB3	2.14	0.47
2:C:193:LEU:HD23	2:C:307:LEU:CD1	2.45	0.47
2:C:301:GLU:O	2:C:305:PRO:HG2	2.15	0.47
2:M:770:GLU:HG2	8:N:9172:HOH:O	2.15	0.47
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.96	0.47
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.95	0.47
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.50	0.47
3:N:442:ASN:HB3	8:N:9376:HOH:O	2.14	0.47
5:P:155:THR:O	5:P:159:ILE:HG13	2.14	0.47
5:P:159:ILE:O	5:P:163:LEU:HG	2.14	0.47
3:N:470:LEU:HD21	3:N:508:ARG:NH2	2.30	0.47
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.50	0.47
2:M:824:ARG:HB3	2:M:826:TYR:CE1	2.50	0.47
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.15	0.47
5:F:273:ARG:HG2	8:F:571:HOH:O	2.15	0.47
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.30	0.47
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.44	0.47
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.96	0.47
2:M:470:PRO:HB2	2:M:483:VAL:HG11	1.97	0.47
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.15	0.47
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.96	0.47
2:M:52:PHE:O	2:M:54:ILE:N	2.48	0.47
2:C:798:GLY:HA2	8:C:1158:HOH:O	2.15	0.47
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.96	0.47
3:N:598:ARG:NE	8:N:9109:HOH:O	2.47	0.47
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.50	0.47
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.97	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.47	0.47
3:N:960:LYS:HB3	8:N:9231:HOH:O	2.13	0.47
3:N:153:LEU:CD1	3:N:157:GLU:HB2	2.45	0.47
3:N:1379:VAL:CG1	3:N:1395:LEU:HD23	2.45	0.47
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.45	0.47
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.28	0.47
3:D:780:LYS:HE2	8:D:9604:HOH:O	2.13	0.47
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.79	0.47
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.96	0.47
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.80	0.47
3:D:848:GLU:HB2	8:D:9179:HOH:O	2.13	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
3:D:1009:LYS:HE2	3:D:1013:GLU:OE1	2.14	0.47
3:D:96:ALA:HB1	3:D:554:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:488:ARG:NH1	3:D:488:ARG:HB3	2.29	0.47
2:C:878:SER:HB2	8:C:1420:HOH:O	2.14	0.47
2:M:724:ARG:HE	2:M:734:LEU:HG	1.78	0.47
3:D:647:ARG:HG2	8:D:9811:HOH:O	2.14	0.47
2:C:739:GLU:HB2	8:C:1284:HOH:O	2.14	0.47
4:E:69:LEU:HD11	8:E:181:HOH:O	2.15	0.47
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.80	0.47
2:M:409:ARG:HA	2:M:454:SER:CA	2.32	0.47
3:D:591:VAL:HG12	3:D:592:THR:O	2.15	0.47
5:F:316:SER:HB3	5:F:318:GLU:O	2.15	0.47
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.95	0.47
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.30	0.47
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.45	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
2:C:285:LEU:HD12	2:C:288:ARG:O	2.15	0.47
3:N:536:ALA:HA	5:P:315:VAL:N	2.19	0.47
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.78	0.47
3:D:1354:LYS:HD3	8:D:9078:HOH:O	2.15	0.47
2:M:572:ILE:CG2	2:M:703:ILE:HD13	2.45	0.47
2:M:53:PRO:HD3	8:M:1173:HOH:O	2.14	0.47
3:D:1312:LEU:N	8:D:9045:HOH:O	2.42	0.47
2:M:624:PRO:O	2:M:625:LEU:HD23	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
3:N:486:ARG:HH21	3:N:489:ARG:CD	2.28	0.47
3:D:528:VAL:HG12	8:D:9096:HOH:O	2.15	0.47
1:L:61:VAL:HA	8:L:2996:HOH:O	2.15	0.47
3:D:996:TRP:HA	3:D:999:THR:CG2	2.43	0.47
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.95	0.47
3:N:1123:PHE:HB3	3:N:1133:ARG:O	2.15	0.47
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.15	0.47
1:L:149:GLY:O	1:L:171:PHE:HB2	2.14	0.47
5:P:110:MET:HA	5:P:113:ILE:HD12	1.97	0.47
3:N:587:ARG:HD3	8:N:9432:HOH:O	2.14	0.47
3:D:645:PRO:HB3	3:D:723:GLY:O	2.14	0.47
1:L:212:ASN:N	1:L:212:ASN:HD22	2.11	0.47
3:D:414:ARG:HG2	8:D:9627:HOH:O	2.13	0.47
2:C:946:ARG:NH2	3:D:859:ASP:HA	2.30	0.47
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.97	0.47
1:L:50:GLY:O	1:L:146:ARG:HA	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.35	0.47
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.45	0.47
3:N:209:ARG:HB2	3:N:395:VAL:O	2.15	0.47
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.95	0.47
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.27	0.47
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.97	0.47
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.49	0.47
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.97	0.47
2:M:551:GLU:HA	2:M:906:PHE:CE2	2.49	0.47
2:M:671:ASN:ND2	2:M:993:PHE:CD2	2.81	0.47
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
3:D:476:GLU:HG2	8:D:9254:HOH:O	2.14	0.47
3:D:1341:PRO:HD2	3:D:1342:GLU:OE2	2.14	0.47
2:C:244:PRO:CD	2:C:245:GLY:H	2.20	0.47
3:N:181:ASP:O	3:N:185:VAL:HG23	2.14	0.47
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.29	0.47
3:N:188:GLY:HA2	3:N:210:ARG:NH1	2.30	0.47
5:P:421:PHE:C	5:P:423:ASP:H	2.17	0.47
5:P:109:GLY:O	5:P:113:ILE:HG13	2.14	0.47
3:D:645:PRO:HA	3:D:721:VAL:O	2.14	0.47
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.27	0.47
4:E:13:VAL:HG21	4:E:19:LEU:HB2	1.96	0.47
3:D:843:PHE:HA	3:D:848:GLU:OE1	2.14	0.47
2:M:1105:LYS:HB2	2:M:1107:ASN:HD22	1.80	0.47
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.15	0.47
3:D:169:TYR:HA	3:D:392:SER:HA	1.97	0.47
3:N:204:LEU:HG	8:N:9317:HOH:O	2.14	0.47
3:N:463:GLN:O	3:N:467:GLU:HG3	2.15	0.47
3:D:129:PHE:CE2	3:D:587:ARG:HD3	2.50	0.47
2:M:405:ARG:HD3	2:M:543:ASN:HB2	1.97	0.47
3:N:90:MET:SD	3:N:521:PRO:HD3	2.54	0.47
3:D:80:VAL:HG12	8:D:9019:HOH:O	2.14	0.47
2:C:302:VAL:O	2:C:306:THR:HG23	2.15	0.47
3:D:422:ALA:O	3:D:427:VAL:HG21	2.15	0.47
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.45	0.47
5:F:388:ALA:HA	8:F:635:HOH:O	2.15	0.47
3:N:397:LYS:HE2	3:N:399:ARG:HE	1.80	0.47
3:D:474:GLU:O	3:D:478:LEU:HG	2.15	0.47
2:C:269:LEU:HD22	8:C:1709:HOH:O	2.14	0.47
1:B:180:GLN:HB3	8:D:9039:HOH:O	2.15	0.47
2:M:412:ALA:HB3	2:M:451:LEU:HB3	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.97	0.47
3:D:928:ALA:O	3:D:931:LEU:HB2	2.14	0.47
2:C:690:ILE:CD1	2:C:833:LEU:HD21	2.45	0.47
2:C:625:LEU:O	2:C:627:ARG:N	2.48	0.47
2:M:215:GLY:HA3	8:M:1560:HOH:O	2.15	0.47
2:C:645:VAL:HA	8:C:1221:HOH:O	2.15	0.47
2:M:605:LYS:HA	8:M:1487:HOH:O	2.15	0.47
3:D:1336:LEU:HA	3:D:1344:VAL:CG2	2.45	0.47
1:L:54:THR:HG22	1:L:158:ILE:HG13	1.97	0.47
4:O:74:VAL:CG1	4:O:79:LEU:HD21	2.45	0.47
2:C:722:ILE:CG2	2:C:805:ARG:HH21	2.27	0.47
2:M:44:ILE:HD13	2:M:344:PHE:CE1	2.50	0.47
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.80	0.47
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.15	0.47
1:B:20:TYR:OH	1:B:198:ARG:HD3	2.14	0.47
3:D:1183:ILE:N	3:D:1183:ILE:HD12	2.29	0.47
3:N:916:TYR:O	3:N:919:PHE:HB3	2.15	0.47
5:F:261:PRO:O	5:F:265:VAL:HG23	2.15	0.47
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.97	0.47
2:M:926:PHE:O	2:M:930:LYS:HG3	2.15	0.47
3:N:44:LEU:HG	8:N:9867:HOH:O	2.16	0.46
2:C:281:LEU:HB2	2:C:309:TYR:CG	2.50	0.46
5:F:363:GLU:HA	5:F:367:MET:SD	2.55	0.46
2:C:285:LEU:HD23	2:C:285:LEU:O	2.15	0.46
2:M:464:LEU:O	2:M:466:PHE:N	2.48	0.46
3:D:1459:LEU:HD22	3:D:1465:ASN:HD22	1.79	0.46
1:K:88:ARG:HD2	1:K:123:MET:HE1	1.97	0.46
2:C:941:VAL:O	2:C:944:LEU:HB2	2.14	0.46
3:N:1275:SER:HB3	3:N:1325:LEU:CD1	2.45	0.46
2:C:687:ALA:C	2:C:688:ILE:HD12	2.35	0.46
3:N:645:PRO:HA	3:N:721:VAL:O	2.15	0.46
1:K:115:LEU:HB3	8:K:4097:HOH:O	2.14	0.46
2:C:1100:GLN:O	2:C:1102:LEU:HD12	2.15	0.46
5:F:282:LEU:N	5:F:282:LEU:HD23	2.30	0.46
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.97	0.46
2:M:918:LEU:HD23	2:M:968:LEU:CA	2.43	0.46
1:K:68:ILE:CD1	1:K:138:LEU:HD11	2.45	0.46
2:C:195:LEU:CD1	2:C:234:ALA:HB1	2.46	0.46
2:M:345:ARG:CB	2:M:345:ARG:HH11	2.27	0.46
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.97	0.46
2:M:422:ARG:HG3	8:M:1745:HOH:O	2.13	0.46
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:797:LYS:HD2	3:D:797:LYS:N	2.30	0.46
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.76	0.46
1:A:50:GLY:O	1:A:146:ARG:HA	2.15	0.46
3:N:400:VAL:HA	3:N:442:ASN:O	2.15	0.46
5:P:365:GLU:CD	5:P:397:ILE:HA	2.35	0.46
2:C:9:ILE:HD12	2:C:9:ILE:O	2.15	0.46
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.43	0.46
1:K:78:ILE:O	1:K:82:LEU:HG	2.15	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:534:VAL:N	2:C:538:GLN:NE2	2.63	0.46
2:M:817:PRO:C	2:M:819:VAL:H	2.18	0.46
3:D:495:ARG:O	3:D:495:ARG:HG2	2.16	0.46
3:N:484:PRO:O	3:N:489:ARG:HD2	2.14	0.46
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.46	0.46
5:F:282:LEU:H	5:F:282:LEU:HD23	1.79	0.46
2:M:44:ILE:HG22	8:M:1223:HOH:O	2.14	0.46
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.42	0.46
1:A:101:LEU:HG	1:A:113:ASP:O	2.15	0.46
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.79	0.46
2:M:1101:THR:HB	3:N:5:VAL:HG11	1.98	0.46
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.30	0.46
3:N:551:ASN:O	3:N:555:LYS:HG3	2.15	0.46
3:N:1056:PRO:HD2	8:N:9483:HOH:O	2.14	0.46
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.97	0.46
2:M:1118:LYS:HD3	3:N:20:SER:O	2.14	0.46
3:N:759:ALA:HA	3:N:763:MET:HB3	1.96	0.46
2:M:325:ILE:HG23	8:M:1502:HOH:O	2.16	0.46
2:M:621:VAL:HG22	8:M:1199:HOH:O	2.16	0.46
3:D:962:GLN:N	3:D:962:GLN:OE1	2.47	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
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
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.45	0.46
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.80	0.46
3:D:907:GLU:OE1	3:D:908:LYS:HG2	2.14	0.46
2:M:428:ARG:HE	2:M:451:LEU:HD11	1.80	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
1:A:19:GLU:O	1:A:200:TRP:HA	2.16	0.46
1:K:115:LEU:O	1:K:115:LEU:HD12	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:828:LYS:HD2	8:N:9129:HOH:O	2.15	0.46
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.97	0.46
2:C:863:ASP:O	2:C:865:THR:N	2.48	0.46
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.46	0.46
2:C:780:GLU:CD	2:C:781:LYS:H	2.18	0.46
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.59	0.46
3:D:1085:ALA:HA	8:D:9707:HOH:O	2.14	0.46
3:N:957:PRO:HA	3:N:1010:ASN:ND2	2.30	0.46
3:D:1380:GLU:HB3	3:D:1418:LYS:HB2	1.98	0.46
5:F:256:ARG:NH2	5:F:310:ILE:O	2.48	0.46
5:F:276:ARG:HA	8:F:735:HOH:O	2.14	0.46
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.98	0.46
2:M:710:ILE:HB	2:M:790:LEU:CD1	2.38	0.46
1:B:86:VAL:HG22	8:B:371:HOH:O	2.15	0.46
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.18	0.46
3:N:1114:THR:HG23	3:N:1114:THR:O	2.15	0.46
2:C:265:ARG:HG2	2:C:267:TYR:N	2.30	0.46
4:E:41:GLU:O	4:E:45:ARG:HG2	2.15	0.46
3:D:704:ARG:HA	3:D:704:ARG:HD2	1.76	0.46
1:A:218:LEU:HB2	8:A:322:HOH:O	2.14	0.46
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.98	0.46
3:D:574:LEU:O	3:D:578:VAL:HG23	2.16	0.46
1:B:73:GLU:HB2	1:B:78:ILE:HD11	1.96	0.46
3:N:416:ALA:H	3:N:417:PRO:CD	2.28	0.46
2:C:835:VAL:HG11	8:D:9008:HOH:O	2.16	0.46
2:M:101:ILE:HG22	2:M:102:HIS:N	2.30	0.46
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.31	0.46
3:N:1156:LEU:HD12	8:N:9485:HOH:O	2.16	0.46
1:B:92:PRO:HA	1:B:146:ARG:NH2	2.31	0.46
3:D:68:PHE:O	3:D:71:LYS:HG2	2.15	0.46
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.96	0.46
2:M:191:PHE:CE2	2:M:238:LEU:HD21	2.51	0.46
1:B:19:GLU:O	1:B:200:TRP:HA	2.15	0.46
2:M:801:VAL:HG23	8:M:1213:HOH:O	2.15	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
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.45	0.46
3:N:28:LYS:HD3	3:N:41:ARG:NH1	2.30	0.46
3:D:84:ILE:HA	3:D:87:ARG:HG2	1.97	0.46
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.46	0.46
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.46	0.46
3:N:1434:TRP:HZ3	3:N:1457:ASP:H	1.62	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:404:GLU:OE1	3:N:414:ARG:HD3	2.16	0.46
2:C:310:LEU:O	2:C:314:THR:HG23	2.15	0.46
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.96	0.46
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.97	0.46
3:D:208:PRO:CB	3:D:395:VAL:HG13	2.43	0.46
4:E:18:ARG:HD3	8:E:126:HOH:O	2.15	0.46
2:M:842:ARG:HD3	8:M:1636:HOH:O	2.16	0.46
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.75	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
2:C:647:GLN:HA	8:C:1176:HOH:O	2.16	0.46
5:P:104:ARG:HG2	8:P:3629:HOH:O	2.15	0.46
2:M:875:GLY:O	2:M:879:ARG:HD3	2.15	0.46
3:N:560:GLN:HE21	5:P:218:GLN:HE22	1.63	0.46
3:D:501:ALA:HA	3:D:504:ASP:HB2	1.97	0.46
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.51	0.46
1:L:69:PRO:O	1:L:71:VAL:HG23	2.16	0.46
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.30	0.46
5:F:336:GLU:HB2	8:F:726:HOH:O	2.15	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.79	0.46
5:P:215:GLU:OE1	5:P:215:GLU:HA	2.15	0.46
2:C:490:GLU:HG2	2:C:494:TYR:OH	2.15	0.46
2:M:1090:LYS:HZ1	3:N:90:MET:HG2	1.79	0.46
2:M:1091:GLU:OE2	3:N:613:ARG:HD2	2.15	0.46
3:D:1382:THR:HG22	8:D:9579:HOH:O	2.16	0.46
3:N:508:ARG:HB3	3:N:510:GLU:OE2	2.16	0.46
3:N:820:GLU:HA	3:N:825:ALA:O	2.16	0.46
3:D:1272:ALA:HB2	8:D:9364:HOH:O	2.16	0.46
1:K:23:PHE:O	1:K:196:THR:HA	2.15	0.46
3:N:516:ALA:O	3:N:518:PRO:HD3	2.16	0.46
3:N:608:SER:O	3:N:612:GLY:HA3	2.16	0.46
2:C:73:LEU:HD22	2:C:94:LEU:HD22	1.97	0.46
2:M:688:ILE:CD1	2:M:847:GLY:HA3	2.45	0.46
2:C:113:VAL:HG11	2:C:373:VAL:CB	2.46	0.46
3:D:1114:THR:HG22	3:D:1195:GLN:HB3	1.97	0.46
3:N:809:PRO:O	3:N:812:ALA:HB3	2.16	0.46
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.46	0.46
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.97	0.46
3:N:1342:GLU:HG2	8:N:9105:HOH:O	2.15	0.46
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.79	0.46
3:N:646:LYS:HA	3:N:720:LEU:HD23	1.97	0.46
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:328:LEU:CD2	2:C:437:ARG:HD3	2.46	0.46
3:N:81:THR:O	3:N:82:LYS:C	2.54	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:C:1054:THR:HG22	2:C:1059:ASP:CG	2.36	0.46
3:N:470:LEU:HD12	3:N:503:LEU:CG	2.43	0.46
1:K:175:ARG:HH21	1:K:201:THR:H	1.62	0.46
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.15	0.46
2:M:253:ALA:HB3	8:M:1251:HOH:O	2.15	0.46
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.98	0.46
2:C:376:ARG:NH2	5:F:285:GLU:HB3	2.21	0.46
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.98	0.46
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	1.98	0.46
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.98	0.46
5:P:319:THR:HB	5:P:321:ILE:HD11	1.96	0.46
1:L:26:GLU:HB2	1:L:27:PRO:HA	1.98	0.46
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.45	0.46
3:N:671:LYS:N	8:N:9139:HOH:O	2.48	0.46
5:F:375:LEU:HG	5:F:376:ILE:HG13	1.97	0.46
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.96	0.46
3:N:586:ARG:HA	8:N:2001:HOH:O	2.15	0.46
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.46
3:D:829:VAL:H	3:D:835:SER:HB2	1.81	0.46
3:N:530:VAL:HB	3:N:531:ASP:H	1.56	0.46
5:P:292:ALA:HB1	5:P:299:TRP:O	2.16	0.46
4:E:69:LEU:HD21	8:E:181:HOH:O	2.15	0.46
3:N:819:GLY:O	3:N:822:ALA:HB3	2.16	0.46
3:N:1378:TYR:CD1	3:N:1378:TYR:N	2.84	0.46
1:L:138:LEU:O	1:L:138:LEU:HD23	2.16	0.46
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.97	0.46
3:N:521:PRO:O	3:N:525:ARG:HG2	2.14	0.46
2:M:157:ARG:HH11	2:M:157:ARG:HG2	1.80	0.46
2:C:194:VAL:HG21	2:C:221:LEU:HA	1.98	0.46
3:D:116:LEU:HB3	3:D:118:LEU:CD2	2.46	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:813:LEU:HA	3:N:839:LEU:HD11	1.97	0.46
5:F:273:ARG:O	5:F:276:ARG:HB2	2.16	0.46
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.46	0.46
3:N:850:LEU:O	3:N:853:VAL:HB	2.15	0.46
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.51	0.46
3:N:1209:LEU:HD22	3:N:1211:MET:SD	2.55	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1441:GLN:NE2	3:N:1442:ASN:H	2.14	0.46
3:D:126:VAL:O	3:D:132:TYR:CD1	2.68	0.46
2:C:1039:ALA:HB2	3:D:707:THR:HG21	1.98	0.46
5:P:274:THR:O	5:P:278:LEU:HG	2.15	0.46
1:B:81:ASN:HB2	8:B:366:HOH:O	2.16	0.46
3:N:1137:ARG:O	3:N:1140:ILE:N	2.49	0.46
1:A:181:VAL:O	2:C:937:ASP:HA	2.16	0.46
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.29	0.46
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.97	0.46
3:D:684:LYS:HD3	3:D:686:GLU:CD	2.35	0.46
3:N:1115:THR:HB	8:N:9719:HOH:O	2.15	0.46
3:N:159:ARG:HB2	3:N:159:ARG:CZ	2.46	0.46
3:N:805:GLU:HB2	8:N:9612:HOH:O	2.16	0.46
3:N:1269:LYS:HE3	8:N:9213:HOH:O	2.16	0.46
4:O:11:GLY:HA3	8:O:3878:HOH:O	2.15	0.46
3:D:592:THR:HA	8:D:9540:HOH:O	2.16	0.46
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.80	0.46
2:C:47:ALA:CB	2:C:345:ARG:HB3	2.33	0.46
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.96	0.46
2:M:861:LEU:HD23	2:M:862:PRO:CD	2.37	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
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:D:863:VAL:HA	8:D:2082:HOH:O	2.16	0.46
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.36	0.46
2:M:602:GLU:HG2	2:M:603:VAL:N	2.31	0.46
3:N:860:LEU:HD22	3:N:878:GLY:CA	2.46	0.46
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.98	0.46
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.67	0.46
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.46	0.46
3:D:1337:GLU:HB3	8:D:9228:HOH:O	2.16	0.46
2:C:975:TYR:HA	2:C:982:PRO:HA	1.98	0.46
2:M:685:GLU:CG	3:N:739:ASP:HB2	2.46	0.46
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.80	0.46
2:M:408:ARG:CZ	2:M:542:VAL:HG23	2.46	0.46
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.97	0.46
5:P:302:LYS:HG3	5:P:303:ARG:N	2.31	0.46
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.98	0.46
3:N:600:LEU:HD12	3:N:600:LEU:H	1.81	0.46
2:M:423:ALA:HB1	8:M:1764:HOH:O	2.16	0.46
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.98	0.46
2:C:352:ALA:O	2:C:355:VAL:HG12	2.16	0.46
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.31	0.46
3:D:543:LEU:HD21	3:D:600:LEU:HB2	1.97	0.46
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.15	0.46
3:D:210:ARG:NE	3:D:398:ALA:HB3	2.31	0.46
3:D:421:LEU:HD23	3:D:421:LEU:O	2.15	0.46
3:N:500:ARG:HD2	8:N:9705:HOH:O	2.15	0.46
3:D:400:VAL:HG23	8:D:9178:HOH:O	2.15	0.46
3:N:529:GLN:HG2	3:N:535:PHE:CE2	2.48	0.46
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.98	0.46
1:B:85:LEU:CD1	1:B:124:ASN:HB3	2.42	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:1327:ARG:HG2	8:D:9891:HOH:O	2.16	0.46
3:D:1135:ARG:NH2	8:D:9592:HOH:O	2.49	0.46
2:C:473:ARG:NE	2:C:531:PHE:HE1	2.09	0.46
3:N:844:ALA:HB3	3:N:848:GLU:OE2	2.16	0.46
1:A:219:ARG:HH22	1:B:223:THR:HG23	1.80	0.46
1:A:219:ARG:HH12	1:B:223:THR:HG23	1.81	0.46
1:B:74:ASP:O	1:B:78:ILE:HG13	2.16	0.46
1:L:43:ILE:HD13	8:L:3139:HOH:O	2.16	0.46
2:C:904:PRO:HB2	2:C:907:ASP:OD2	2.16	0.46
2:M:1100:GLN:HG3	2:M:1101:THR:O	2.16	0.46
3:N:976:GLN:HA	3:N:979:GLU:OE1	2.15	0.46
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.97	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
3:D:1164:ARG:HA	8:D:9221:HOH:O	2.15	0.46
2:M:121:MET:HE3	2:M:127:PHE:CE2	2.51	0.46
3:N:1341:PRO:O	3:N:1344:VAL:N	2.48	0.46
2:M:420:ARG:CD	2:M:420:ARG:H	2.29	0.46
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.97	0.46
2:C:1103:ASP:N	2:C:1107:ASN:O	2.49	0.46
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:169:GLY:HA2	2:M:263:ASP:CB	2.30	0.45
2:C:101:ILE:HG22	2:C:102:HIS:N	2.31	0.45
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.98	0.45
2:M:157:ARG:NH1	2:M:157:ARG:HG2	2.32	0.45
2:C:338:GLU:O	2:C:341:THR:HG22	2.16	0.45
2:M:770:GLU:OE1	5:P:354:LEU:HD13	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:441:ARG:O	3:D:443:VAL:N	2.49	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
2:M:704:HIS:CD2	2:M:705:ILE:H	2.33	0.45
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.46	0.45
5:F:117:SER:N	5:F:127:ILE:HD12	2.31	0.45
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.98	0.45
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.97	0.45
3:N:729:HIS:HB3	3:N:732:VAL:HG22	1.98	0.45
2:M:232:GLU:O	2:M:235:LEU:HB2	2.16	0.45
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.97	0.45
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.16	0.45
2:C:694:LEU:HD21	2:C:868:ASP:HB3	1.98	0.45
1:K:224:TYR:HB3	1:L:9:PRO:CB	2.42	0.45
3:D:1397:LYS:HB3	8:D:9838:HOH:O	2.15	0.45
2:M:114:PHE:HE1	8:P:4072:HOH:O	1.99	0.45
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.98	0.45
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.32	0.45
5:F:340:SER:O	5:F:342:VAL:N	2.49	0.45
3:N:411:THR:HG23	3:N:429:SER:OG	2.16	0.45
1:B:149:GLY:O	1:B:171:PHE:HB2	2.16	0.45
3:D:585:GLY:HA3	8:D:9104:HOH:O	2.16	0.45
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.16	0.45
3:N:527:MET:CE	3:N:537:THR:HB	2.45	0.45
5:P:89:GLY:HA2	8:P:4492:HOH:O	2.15	0.45
3:D:455:ARG:HH11	3:D:455:ARG:HG2	1.81	0.45
2:C:1016:ILE:CD1	3:D:526:PRO:HG2	2.46	0.45
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.45	0.45
5:F:373:LYS:HD3	5:F:378:GLY:C	2.36	0.45
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.98	0.45
5:F:302:LYS:HG3	5:F:303:ARG:N	2.31	0.45
2:M:435:TYR:HA	3:N:1071:PHE:HE2	1.81	0.45
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.98	0.45
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.57	0.45
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.51	0.45
3:D:1377:LYS:O	3:D:1395:LEU:N	2.47	0.45
2:M:998:TYR:OH	2:M:1000:MET:HA	2.16	0.45
3:D:1494:ALA:HB3	8:D:9315:HOH:O	2.16	0.45
2:C:598:GLU:HG3	8:C:1515:HOH:O	2.15	0.45
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.30	0.45
1:L:188:GLN:HA	8:N:9218:HOH:O	2.17	0.45
2:M:56:GLU:HG2	2:M:64:LEU:HD23	1.97	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:890:VAL:HG13	3:D:926:LYS:HD3	1.98	0.45
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.16	0.45
2:C:794:PRO:HD3	8:C:1635:HOH:O	2.15	0.45
2:M:778:PHE:HA	8:M:1278:HOH:O	2.16	0.45
2:M:1078:GLU:HA	2:M:1078:GLU:OE1	2.17	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
5:P:336:GLU:HA	8:P:2842:HOH:O	2.16	0.45
2:C:207:LEU:O	2:C:211:LEU:HB3	2.16	0.45
2:C:218:VAL:HB	8:C:1237:HOH:O	2.17	0.45
2:C:289:THR:HG22	2:C:290:LEU:H	1.81	0.45
2:C:479:VAL:HG23	2:C:506:ASN:C	2.37	0.45
1:A:20:TYR:HB3	8:A:358:HOH:O	2.16	0.45
3:D:400:VAL:HA	3:D:442:ASN:O	2.17	0.45
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.20	0.45
2:M:254:VAL:HA	2:M:257:VAL:HG23	1.98	0.45
3:N:820:GLU:HG2	3:N:825:ALA:O	2.17	0.45
2:C:144:PRO:O	2:C:276:LYS:HD3	2.16	0.45
3:D:1331:ASP:OD1	3:D:1334:GLN:HG3	2.16	0.45
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.15	0.45
1:A:26:GLU:HG2	1:A:27:PRO:CA	2.46	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
3:D:770:LEU:HB2	3:D:1210:SER:O	2.17	0.45
3:N:950:GLY:O	3:N:951:ILE:C	2.54	0.45
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.56	0.45
2:C:456:ALA:HB1	2:C:538:GLN:O	2.16	0.45
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.51	0.45
3:N:875:THR:HG23	3:N:879:ARG:NE	2.32	0.45
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.17	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:C:683:ASN:N	2:C:683:ASN:OD1	2.49	0.45
1:L:62:LEU:HD22	1:L:63:HIS:CE1	2.52	0.45
2:M:838:LYS:HG2	8:M:1507:HOH:O	2.16	0.45
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.15	0.45
2:C:897:LEU:CD1	2:C:921:ALA:HA	2.46	0.45
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.97	0.45
5:P:148:LYS:HB2	8:P:4930:HOH:O	2.16	0.45
3:N:396:VAL:HG13	3:N:446:VAL:O	2.16	0.45
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.98	0.45
2:C:254:VAL:HA	2:C:257:VAL:HG23	1.96	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:69:LEU:HD21	2:M:99:GLN:NE2	2.31	0.45
5:F:253:ASP:O	5:F:259:ARG:HD2	2.17	0.45
2:C:148:PHE:HD2	2:C:160:ALA:HA	1.80	0.45
1:B:50:GLY:O	1:B:146:ARG:HA	2.16	0.45
1:K:2:LEU:O	1:K:6:LEU:HB3	2.16	0.45
2:C:1015:LEU:HD12	8:C:1202:HOH:O	2.17	0.45
2:M:737:LEU:HD21	2:M:741:GLY:O	2.16	0.45
3:D:170:PRO:HG3	8:D:9430:HOH:O	2.16	0.45
2:C:1105:LYS:O	2:C:1107:ASN:N	2.49	0.45
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.46	0.45
2:M:17:PRO:O	2:M:20:GLU:HB3	2.16	0.45
5:P:308:LEU:O	5:P:312:GLN:HG3	2.15	0.45
2:C:19:THR:HG22	2:C:19:THR:O	2.16	0.45
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.17	0.45
2:C:826:TYR:HB3	8:C:1718:HOH:O	2.15	0.45
5:F:358:LEU:HD12	5:F:367:MET:HE1	1.98	0.45
3:D:1264:GLU:CD	3:D:1425:THR:H	2.20	0.45
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.51	0.45
1:B:14:ARG:HA	8:B:324:HOH:O	2.14	0.45
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.81	0.45
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.47	0.45
2:C:668:LEU:HD12	2:C:668:LEU:N	2.32	0.45
1:A:26:GLU:HG3	1:A:184:THR:HG21	1.99	0.45
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.46	0.45
3:N:950:GLY:C	3:N:953:ASP:H	2.20	0.45
3:N:119:SER:CB	3:N:123:LEU:HB2	2.39	0.45
2:C:535:SER:H	2:C:538:GLN:HE21	1.64	0.45
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.99	0.45
3:D:473:LEU:HD21	3:D:495:ARG:NE	2.30	0.45
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.40	0.45
2:M:217:LEU:HD12	2:M:311:PHE:HD2	1.81	0.45
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.99	0.45
3:D:704:ARG:NH1	3:D:737:ASN:O	2.50	0.45
1:B:143:ARG:HB2	8:B:337:HOH:O	2.16	0.45
2:C:399:ASN:ND2	2:C:402:SER:HB2	2.31	0.45
1:L:110:LYS:HE3	8:L:3562:HOH:O	2.15	0.45
2:M:874:LEU:HD12	3:N:783:ARG:HB2	1.97	0.45
4:E:61:GLU:OE2	4:E:62:THR:N	2.50	0.45
3:D:1339:LYS:HE3	8:D:2030:HOH:O	2.14	0.45
2:C:911:GLU:O	2:C:915:LYS:HG2	2.17	0.45
3:D:900:ILE:CD1	3:D:902:LEU:HG	2.47	0.45
1:A:33:GLY:HA2	1:A:195:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1440:PHE:HD1	3:D:1441:GLN:H	1.64	0.45
2:C:16:PRO:O	2:C:18:LEU:HD12	2.16	0.45
3:D:581:LEU:CD1	3:D:603:LEU:HD12	2.46	0.45
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.17	0.45
1:B:64:GLU:HG3	1:B:79:ILE:HD13	1.97	0.45
4:O:78:ASN:HB2	8:O:4376:HOH:O	2.16	0.45
3:N:992:ILE:O	3:N:995:LEU:HB3	2.15	0.45
3:N:1075:HIS:HB3	8:N:9012:HOH:O	2.16	0.45
3:D:792:ILE:O	3:D:878:GLY:HA3	2.16	0.45
2:C:352:ALA:C	2:C:355:VAL:HG12	2.37	0.45
2:M:157:ARG:CD	2:M:158:TYR:H	2.28	0.45
3:D:41:ARG:CD	3:D:42:ASP:H	2.23	0.45
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.37	0.45
3:N:1465:ASN:HA	3:N:1465:ASN:HD22	1.53	0.45
3:D:717:GLN:HB2	3:D:717:GLN:HE21	1.51	0.45
3:D:145:VAL:HG21	8:D:9724:HOH:O	2.16	0.45
3:N:569:ASN:HA	3:N:572:ARG:HD2	1.98	0.45
3:D:583:ASP:HA	3:D:602:SER:OG	2.16	0.45
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.80	0.45
2:M:669:GLY:HA3	2:M:995:MET:HA	1.98	0.45
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.47	0.45
3:N:123:LEU:HA	8:N:9192:HOH:O	2.16	0.45
2:M:244:PRO:HD2	2:M:245:GLY:N	2.25	0.45
2:C:94:LEU:HD12	2:C:95:TYR:N	2.32	0.45
2:C:460:ARG:HG2	8:C:1486:HOH:O	2.16	0.45
3:D:850:LEU:HB2	8:D:9338:HOH:O	2.16	0.45
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.52	0.45
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.99	0.45
2:C:670:GLN:HE22	2:C:699:PHE:C	2.20	0.45
1:A:18:ARG:NH1	1:A:88:ARG:HE	2.14	0.45
3:D:178:LEU:CG	3:D:200:ASP:H	2.26	0.45
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.36	0.45
1:B:194:LYS:HZ2	1:B:194:LYS:HB2	1.82	0.45
3:D:1337:GLU:HG3	8:D:2052:HOH:O	2.16	0.45
3:D:972:LEU:O	3:D:976:GLN:HG3	2.17	0.45
1:L:123:MET:HG2	8:L:3100:HOH:O	2.15	0.45
2:C:957:LYS:HE2	2:C:965:GLU:OE2	2.16	0.45
3:D:890:VAL:HG21	3:D:922:LEU:CD1	2.47	0.45
3:N:800:LYS:HD3	3:N:804:LEU:HD22	1.98	0.45
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.99	0.45
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.52	0.45
3:D:6:ARG:HH11	3:D:6:ARG:CB	2.30	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:657:ASP:HB3	8:C:1152:HOH:O	2.17	0.45
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.97	0.45
5:F:197:SER:HA	8:F:484:HOH:O	2.14	0.45
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.31	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:176:ARG:HG3	1:K:200:TRP:CE3	2.52	0.45
5:P:272:SER:O	5:P:276:ARG:HG2	2.16	0.45
3:D:1233:GLY:O	3:D:1256:LEU:HD13	2.16	0.45
2:C:549:PHE:HE2	2:C:887:GLU:N	2.15	0.45
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.46	0.45
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.42	0.45
3:N:728:LEU:HD22	3:N:745:MET:CE	2.47	0.45
2:M:571:LEU:HD12	2:M:701:THR:N	2.32	0.45
8:A:413:HOH:O	2:C:642:ARG:HA	2.17	0.45
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.98	0.45
3:D:1291:SER:HB3	8:D:9240:HOH:O	2.15	0.45
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.46	0.45
1:B:156:HIS:CE1	1:B:158:ILE:H	2.35	0.45
1:L:81:ASN:ND2	1:L:127:LEU:HD11	2.30	0.45
2:C:622:GLU:OE1	2:C:624:PRO:HG3	2.17	0.45
3:N:1128:VAL:O	3:N:1129:THR:C	2.55	0.45
2:C:817:PRO:C	2:C:819:VAL:H	2.20	0.45
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.97	0.45
3:D:859:ASP:N	3:D:859:ASP:OD2	2.48	0.45
2:C:948:GLU:HG3	2:C:949:LYS:N	2.31	0.45
3:D:36:THR:O	3:D:38:LYS:N	2.50	0.45
1:K:57:TYR:CZ	1:K:161:ARG:HD2	2.52	0.45
2:M:863:ASP:OD1	2:M:865:THR:HG22	2.16	0.45
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.47	0.45
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.46	0.45
1:K:183:ASP:HB2	8:K:4658:HOH:O	2.16	0.45
3:D:27:GLU:HG3	3:D:28:LYS:HD2	1.98	0.45
5:F:217:ASN:O	5:F:221:ILE:HG13	2.17	0.45
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.98	0.45
5:P:153:PRO:O	5:P:157:GLU:HG2	2.16	0.45
2:M:144:PRO:HB3	8:M:1235:HOH:O	2.16	0.45
1:B:24:VAL:HG13	1:B:196:THR:CG2	2.37	0.45
3:D:396:VAL:HG22	8:D:9882:HOH:O	2.17	0.45
3:N:13:ALA:HA	3:N:17:LYS:NZ	2.32	0.45
3:D:503:LEU:HG	3:D:508:ARG:NH2	2.32	0.45
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:290:LEU:HD12	8:M:1503:HOH:O	2.17	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
3:N:866:VAL:HG12	3:N:867:ARG:N	2.32	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
2:M:73:LEU:HD12	2:M:73:LEU:O	2.17	0.45
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.46	0.45
3:N:491:LYS:HG3	8:N:9735:HOH:O	2.17	0.45
1:A:103:ALA:HB1	1:A:107:LYS:NZ	2.32	0.45
3:N:1175:ILE:HG22	3:N:1179:GLU:OE1	2.16	0.45
3:N:892:ASP:HB3	3:N:895:VAL:HG23	1.99	0.45
2:C:794:PRO:HD2	8:C:1228:HOH:O	2.16	0.45
2:M:86:LYS:HG2	2:M:813:VAL:HG12	1.99	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
2:C:304:LEU:HG	2:C:305:PRO:N	2.31	0.45
1:A:20:TYR:CE2	1:A:22:GLU:HG3	2.51	0.45
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.98	0.45
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.16	0.45
1:K:74:ASP:O	1:K:78:ILE:HG13	2.17	0.45
3:N:703:ASN:ND2	3:N:704:ARG:H	2.15	0.45
1:A:184:THR:HB	1:A:194:LYS:HD2	1.98	0.45
2:C:874:LEU:HB3	3:D:1029:ARG:HD2	1.98	0.45
3:N:119:SER:CB	3:N:123:LEU:HD13	2.46	0.45
3:D:462:GLN:NE2	3:D:513:ILE:HB	2.32	0.45
3:D:985:ASP:O	3:D:988:ARG:HD2	2.16	0.45
2:M:503:LEU:HD12	2:M:505:GLY:O	2.17	0.45
1:L:194:LYS:HG2	8:L:4937:HOH:O	2.17	0.45
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.81	0.45
2:C:265:ARG:HD2	8:C:1452:HOH:O	2.17	0.45
3:D:1342:GLU:O	3:D:1346:ARG:HB2	2.17	0.45
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.99	0.45
2:C:1056:LYS:HE2	3:D:625:TYR:HB2	1.98	0.45
1:L:128:HIS:CE1	1:L:131:THR:HG23	2.52	0.45
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.70	0.45
3:N:1238:MET:HG2	3:N:1256:LEU:HD23	1.98	0.45
2:M:922:PHE:HD2	2:M:964:LYS:HD3	1.82	0.45
4:O:9:LEU:CD2	4:O:69:LEU:HG	2.47	0.45
3:N:1136:LYS:HE3	3:N:1139:ASP:OD2	2.16	0.45
1:K:40:LEU:O	1:K:44:LEU:HD12	2.17	0.45
2:C:39:ARG:HA	2:C:39:ARG:NE	2.30	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	2.31	0.45
1:B:20:TYR:HB3	8:B:319:HOH:O	2.15	0.45
3:D:164:GLY:HA2	8:D:9127:HOH:O	2.16	0.45
1:A:227:ASN:H	1:A:227:ASN:ND2	2.14	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
3:N:52:PRO:HD2	3:N:79:GLU:O	2.16	0.45
2:C:217:LEU:HD23	8:C:1241:HOH:O	2.17	0.45
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.81	0.45
5:F:364:ARG:O	5:F:368:VAL:HG23	2.17	0.45
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.99	0.45
3:N:9:ARG:HA	3:N:1455:LYS:O	2.16	0.45
3:N:456:MET:HG2	3:N:456:MET:O	2.16	0.45
2:M:164:PRO:HA	8:M:1235:HOH:O	2.17	0.45
3:N:640:HIS:NE2	3:N:717:GLN:OE1	2.48	0.45
3:D:1086:LEU:HD22	8:D:9242:HOH:O	2.16	0.45
2:M:620:LEU:N	2:M:620:LEU:HD13	2.32	0.45
3:N:704:ARG:CZ	3:N:737:ASN:O	2.65	0.45
1:A:102:LYS:HE2	1:A:139:ASN:CG	2.37	0.45
2:M:210:GLU:HG3	8:M:1787:HOH:O	2.17	0.45
2:C:112:GLU:HA	8:C:1822:HOH:O	2.17	0.45
2:C:98:LEU:HD11	8:C:1822:HOH:O	2.17	0.45
3:N:645:PRO:HB3	3:N:723:GLY:O	2.17	0.45
3:D:704:ARG:HB2	3:D:736:PHE:CD2	2.52	0.45
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.47	0.45
1:B:28:LEU:HB2	1:B:193:ASP:HB2	1.99	0.45
3:N:1320:GLU:HG3	8:N:9381:HOH:O	2.16	0.45
2:C:1006:HIS:HD1	2:C:1006:HIS:N	2.14	0.45
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.17	0.45
3:D:639:LEU:N	3:D:729:HIS:CD2	2.84	0.45
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.16	0.45
3:D:848:GLU:HA	3:D:851:LEU:CD1	2.46	0.45
1:K:161:ARG:HB2	1:K:161:ARG:NH1	2.32	0.45
2:C:5:ARG:HG2	2:C:5:ARG:HH11	1.82	0.45
3:D:198:ARG:HG3	8:D:9736:HOH:O	2.16	0.45
3:N:872:ARG:NH2	8:N:9086:HOH:O	2.50	0.45
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.47	0.45
3:D:22:SER:OG	3:D:91:GLY:HA2	2.17	0.45
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.32	0.45
5:F:209:PHE:HE2	5:F:213:ILE:HD11	1.81	0.45
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.99	0.45
3:D:90:MET:HE3	3:D:519:VAL:O	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:402:PRO:HG2	3:N:444:VAL:CG1	2.47	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
3:N:1455:LYS:HE3	8:N:9604:HOH:O	2.17	0.45
3:N:130:SER:HB3	3:N:132:TYR:HE1	1.80	0.45
1:B:23:PHE:O	1:B:196:THR:HA	2.17	0.45
2:M:679:PHE:HD2	2:M:682:TYR:HD2	1.65	0.45
3:N:806:PHE:CG	3:N:806:PHE:O	2.70	0.45
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.32	0.45
2:M:437:ARG:HG2	2:M:467:ILE:HG22	1.98	0.45
1:L:22:GLU:OE2	1:L:198:ARG:HG2	2.17	0.45
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.99	0.45
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.98	0.45
8:D:9004:HOH:O	5:F:132:ARG:NH1	2.49	0.45
3:N:634:GLY:O	3:N:637:LEU:HB3	2.17	0.45
2:C:535:SER:O	2:C:538:GLN:HG2	2.16	0.45
3:D:495:ARG:O	3:D:499:VAL:HG23	2.17	0.45
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.99	0.45
3:D:1495:ILE:HG12	4:E:80:VAL:CG1	2.46	0.45
3:N:1087:ARG:NH1	3:N:1234:THR:O	2.50	0.45
2:M:498:GLN:O	2:M:532:MET:SD	2.75	0.45
4:O:7:ASP:HB2	8:O:3467:HOH:O	2.16	0.45
2:C:729:LEU:HD21	5:F:421:PHE:HD1	1.82	0.45
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.99	0.45
2:M:15:LEU:CD2	2:M:583:LEU:HD21	2.47	0.45
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.47	0.45
4:O:85:LEU:HD23	4:O:86:GLN:N	2.32	0.45
2:C:1083:GLU:OE1	2:C:1083:GLU:HA	2.17	0.45
2:C:718:GLY:HA3	2:C:761:PHE:CZ	2.52	0.45
3:D:768:ASN:N	3:D:768:ASN:HD22	2.13	0.45
3:N:778:LEU:HD12	3:N:778:LEU:HA	1.78	0.45
2:C:952:LEU:HB3	2:C:966:LEU:CD1	2.47	0.45
2:M:366:SER:HB2	8:M:1234:HOH:O	2.17	0.45
2:M:1013:TYR:CD1	2:M:1020:PRO:HA	2.52	0.44
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.16	0.44
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.98	0.44
2:M:134:ARG:HD3	2:M:393:GLN:O	2.17	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
3:N:400:VAL:C	3:N:402:PRO:HD3	2.38	0.44
3:D:756:GLN:NE2	3:D:760:ARG:HD2	2.32	0.44
1:K:19:GLU:O	1:K:200:TRP:HA	2.16	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:630:VAL:O	3:D:726:ILE:HG13	2.16	0.44
2:C:737:LEU:HD12	2:C:754:ILE:HB	1.98	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
3:N:1280:VAL:HG12	3:N:1281:VAL:N	2.32	0.44
2:M:139:GLN:HB3	2:M:334:ARG:HD3	1.99	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:C:884:GLN:HG3	2:C:885:ILE:HD13	1.98	0.44
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.99	0.44
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.82	0.44
2:M:34:VAL:CB	2:M:38:LYS:HG3	2.47	0.44
2:C:693:GLU:OE2	2:C:855:VAL:HG21	2.16	0.44
3:D:795:VAL:CG1	3:D:863:VAL:HG13	2.44	0.44
3:D:10:ILE:HD13	3:D:1447:LEU:HG	1.99	0.44
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.41	0.44
2:C:405:ARG:HD2	2:C:442:GLU:OE1	2.17	0.44
3:N:1197:ARG:HD2	3:N:1198:TYR:CD1	2.52	0.44
5:P:217:ASN:O	5:P:221:ILE:HG13	2.18	0.44
3:D:1320:GLU:CB	3:D:1323:GLN:HE21	2.30	0.44
3:N:799:LYS:N	3:N:826:PRO:HG2	2.31	0.44
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.52	0.44
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.98	0.44
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.16	0.44
2:M:429:ASP:HB3	8:M:1324:HOH:O	2.17	0.44
2:C:499:ALA:HB1	8:C:1368:HOH:O	2.18	0.44
3:N:1249:ALA:HB2	8:N:9831:HOH:O	2.16	0.44
1:B:106:PRO:HB2	8:B:403:HOH:O	2.17	0.44
2:M:559:LEU:HD23	2:M:560:MET:N	2.33	0.44
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.32	0.44
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.99	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
5:F:302:LYS:O	5:F:306:GLU:HB2	2.17	0.44
5:P:369:LEU:O	5:P:373:LYS: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:C:515:ALA:C	2:C:516:ARG:HG2	2.38	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
2:M:873:PRO:HB3	3:N:949:ILE:HG12	1.98	0.44
3:N:951:ILE:HG23	3:N:1062:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:71:TYR:HD2	8:C:1554:HOH:O	1.99	0.44
3:D:806:PHE:O	3:D:807:ALA:C	2.55	0.44
3:D:112:ILE:O	3:D:112:ILE:HD12	2.18	0.44
3:N:891:GLU:HA	3:N:891:GLU:OE1	2.17	0.44
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.18	0.44
3:D:574:LEU:O	3:D:577:ALA:HB3	2.16	0.44
2:C:162:ILE:HB	2:C:172:ILE:CD1	2.47	0.44
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.53	0.44
1:B:173:PRO:HA	1:B:202:ASP:OD2	2.17	0.44
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.47	0.44
3:N:1031:ASN:OD1	3:N:1033:GLN:N	2.50	0.44
4:O:16:LYS:HD3	4:O:17:TYR:CE2	2.46	0.44
2:C:436:GLY:O	2:C:459:ALA:HB2	2.18	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:630:ARG:NH2	2:C:706:GLU:C	2.71	0.44
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.98	0.44
3:D:658:LEU:O	3:D:661:MET:HB2	2.17	0.44
2:C:1067:TYR:HE2	5:F:345:ALA:HB2	1.82	0.44
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.21	0.44
3:D:209:ARG:HB2	3:D:395:VAL:O	2.17	0.44
2:M:469:THR:HG23	2:M:470:PRO:HD2	1.99	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
2:M:561:GLY:HA3	2:M:842:ARG:O	2.18	0.44
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.25	0.44
5:P:317:LEU:O	5:P:329:TYR:HB3	2.16	0.44
5:P:256:ARG:HD2	8:P:3047:HOH:O	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
1:L:55:SER:OG	1:L:158:ILE:HB	2.18	0.44
3:N:465:LEU:HD22	3:N:509:PRO:O	2.17	0.44
5:F:335:ASP:CG	5:F:338:LEU:HB2	2.37	0.44
3:N:899:LEU:CD1	3:N:900:ILE:HG23	2.45	0.44
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.18	0.44
2:C:841:ASN:ND2	2:C:844:GLY:H	2.15	0.44
2:M:713:ARG:HG3	2:M:713:ARG:HH11	1.82	0.44
2:C:79:PRO:HG2	2:C:82:GLU:HB2	2.00	0.44
3:N:893:GLU:O	3:N:896:ALA:HB3	2.17	0.44
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.31	0.44
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.29	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1002:GLU:HB2	3:D:628:ARG:HH12	1.82	0.44
5:P:276:ARG:HB2	8:P:3917:HOH:O	2.16	0.44
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.98	0.44
2:M:975:TYR:HE2	8:M:1126:HOH:O	2.01	0.44
2:M:534:VAL:N	2:M:538:GLN:NE2	2.63	0.44
2:C:884:GLN:CG	2:C:885:ILE:N	2.80	0.44
3:D:1350:GLU:HG3	3:D:1354:LYS:CE	2.43	0.44
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.47	0.44
3:D:477:LEU:HD23	8:D:9254:HOH:O	2.16	0.44
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.83	0.44
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.99	0.44
2:M:674:VAL:O	2:M:989:VAL:HA	2.17	0.44
3:N:486:ARG:CZ	8:N:9895:HOH:O	2.65	0.44
2:M:832:LYS:O	2:M:833:LEU:C	2.55	0.44
3:N:584:ASN:H	3:N:602:SER:CB	2.30	0.44
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.98	0.44
1:A:112:ARG:HD3	8:A:442:HOH:O	2.16	0.44
5:P:123:ASP:HB2	5:P:126:LEU:HD22	1.98	0.44
3:D:581:LEU:HD12	3:D:603:LEU:HD12	2.00	0.44
3:N:472:ALA:HB3	8:N:9566:HOH:O	2.17	0.44
3:N:650:LEU:HD12	3:N:691:LEU:HD22	2.00	0.44
2:C:212:GLY:C	2:C:215:GLY:H	2.21	0.44
3:D:548:ILE:H	3:D:548:ILE:HG12	1.47	0.44
5:P:128:ARG:CZ	5:P:128:ARG:HB2	2.48	0.44
3:D:661:MET:HE3	3:D:673:ALA:HB1	2.00	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
1:B:14:ARG:HH21	1:B:24:VAL:HG21	1.82	0.44
3:D:583:ASP:OD2	3:D:586:ARG:HD2	2.18	0.44
2:C:129:ILE:HG13	2:C:386:PHE:HB3	1.99	0.44
1:A:184:THR:O	1:A:192:LEU:HD12	2.17	0.44
3:D:879:ARG:HG3	3:D:879:ARG:NH1	2.33	0.44
1:K:156:HIS:HD2	1:K:157:GLY:N	2.15	0.44
3:N:206:ARG:HH11	3:N:206:ARG:HG2	1.82	0.44
3:N:1441:GLN:CD	3:N:1442:ASN:HB2	2.38	0.44
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.32	0.44
2:C:917:LEU:HD23	2:C:917:LEU:HA	1.89	0.44
4:E:40:LEU:HD13	8:E:180:HOH:O	2.18	0.44
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.32	0.44
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.53	0.44
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.99	0.44
2:C:447:ALA:O	2:C:449:ILE:HG22	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.82	0.44
2:C:1035:MET:HG2	3:D:707:THR:O	2.17	0.44
5:P:287:THR:O	5:P:289:GLU:N	2.50	0.44
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.99	0.44
5:P:395:GLU:O	5:P:399:GLN:HB2	2.18	0.44
2:C:1033:GLY:O	2:C:1036:GLU:HB2	2.18	0.44
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.18	0.44
3:D:554:LEU:O	3:D:558:LEU:HG	2.16	0.44
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.18	0.44
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.17	0.44
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.48	0.44
3:D:925:GLU:HG2	4:E:7:ASP:OD1	2.18	0.44
2:M:1061:GLU:HB3	8:M:1529:HOH:O	2.17	0.44
5:F:81:VAL:O	5:F:85:LEU:HG	2.17	0.44
2:C:789:SER:O	2:C:791:ARG:HG2	2.17	0.44
2:M:428:ARG:O	3:N:1078:ARG:NH1	2.50	0.44
3:N:968:ASP:O	3:N:971:LEU:HB3	2.17	0.44
2:C:383:ARG:HB2	2:C:383:ARG:CZ	2.46	0.44
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.99	0.44
1:A:27:PRO:HG3	1:A:186:LEU:HD13	2.00	0.44
5:F:136:LEU:HD12	5:F:137:GLY:N	2.32	0.44
3:N:631:ILE:HG12	3:N:743:ASP:O	2.18	0.44
2:C:690:ILE:HD12	2:C:849:VAL:CG1	2.47	0.44
2:C:470:PRO:HB2	2:C:483:VAL:HG11	1.99	0.44
3:D:1447:LEU:O	3:D:1448:THR:C	2.56	0.44
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.48	0.44
1:B:54:THR:HG22	1:B:158:ILE:HG13	1.99	0.44
4:E:49:GLN:HA	4:E:51:LEU:O	2.18	0.44
3:N:1416:ALA:HA	8:N:9145:HOH:O	2.16	0.44
1:B:73:GLU:HB2	1:B:78:ILE:CG1	2.48	0.44
1:K:58:ILE:HD13	1:K:140:MET:CB	2.47	0.44
1:A:107:LYS:HG3	8:A:494:HOH:O	2.17	0.44
1:L:107:LYS:HB2	8:L:4739:HOH:O	2.16	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
2:C:141:HIS:NE2	2:C:332:ARG:NH1	2.65	0.44
3:N:82:LYS:HB2	3:N:82:LYS:HE3	1.85	0.44
2:C:281:LEU:HD11	2:C:306:THR:CA	2.34	0.44
2:M:129:ILE:HD12	2:M:129:ILE:N	2.31	0.44
3:N:1470:ARG:HG2	3:N:1471:LEU:N	2.32	0.44
3:D:90:MET:CE	3:D:518:PRO:HB3	2.47	0.44
4:O:45:ARG:HB2	4:O:46:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:400:VAL:CG1	3:D:441:ARG:HD3	2.48	0.44
2:M:164:PRO:HD2	2:M:170:PRO:O	2.18	0.44
3:D:1236:LEU:HA	3:D:1359:GLN:CD	2.38	0.44
1:A:191:ASP:O	1:A:191:ASP:CG	2.55	0.44
3:D:1371:VAL:HG12	3:D:1375:MET:HE3	1.99	0.44
3:N:950:GLY:C	3:N:952:ASP:N	2.64	0.44
3:N:464:LEU:HD11	8:N:9491:HOH:O	2.18	0.44
3:N:18:ILE:HG21	3:N:516:ALA:HB1	1.99	0.44
3:D:9:ARG:HH21	3:D:11:ALA:CB	2.31	0.44
2:C:41:ASN:HB2	8:C:1831:HOH:O	2.17	0.44
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.53	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HG3	2.44	0.44
3:D:999:THR:O	3:D:1002:LYS:HB2	2.17	0.44
3:N:884:ARG:NH1	8:N:9403:HOH:O	2.49	0.44
5:P:290:GLU:CD	5:P:290:GLU:H	2.20	0.44
3:N:566:ILE:HG23	5:P:214:GLN:HE22	1.82	0.44
2:M:95:TYR:N	2:M:95:TYR:CD1	2.86	0.44
3:D:57:GLU:HG2	3:D:58:CYS:N	2.33	0.44
3:N:563:PRO:HA	5:P:185:GLN:OE1	2.18	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
2:C:953:VAL:HG22	2:C:966:LEU:HD13	2.00	0.44
2:M:445:GLU:HA	2:M:445:GLU:OE2	2.17	0.44
3:D:369:ALA:HB3	8:D:9717:HOH:O	2.16	0.44
4:O:10:PHE:CE2	4:O:16:LYS:HG3	2.53	0.44
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.33	0.44
1:K:50:GLY:O	1:K:146:ARG:HA	2.18	0.44
2:C:820:ARG:HB3	8:C:1508:HOH:O	2.18	0.44
2:C:1086:ARG:HG2	2:C:1112:PHE:CE2	2.52	0.44
1:K:175:ARG:HH21	1:K:201:THR:N	2.16	0.44
2:M:146:VAL:HG11	2:M:306:THR:HG22	2.00	0.44
2:M:250:ARG:HG2	8:M:1251:HOH:O	2.18	0.44
3:D:168:THR:O	3:D:393:ILE:N	2.49	0.44
2:M:619:ARG:C	2:M:620:LEU:HD13	2.37	0.44
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.37	0.44
2:M:752:GLY:O	3:N:679:ARG:HG2	2.18	0.44
3:N:907:GLU:HG2	3:N:908:LYS:H	1.81	0.44
2:C:176:VAL:HG13	8:C:1607:HOH:O	2.17	0.44
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.99	0.44
3:N:12:LEU:HD23	3:N:13:ALA:N	2.26	0.44
3:N:119:SER:CB	3:N:123:LEU:H	2.27	0.44
2:M:397:GLU:N	2:M:633:GLN:CD	2.71	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:653:PHE:HD1	3:D:653:PHE:N	2.16	0.44
2:C:470:PRO:HG2	2:C:538:GLN:OE1	2.18	0.44
2:M:625:LEU:HD13	2:M:639:GLN:O	2.18	0.44
2:M:218:VAL:O	2:M:221:LEU:HG	2.18	0.44
2:M:695:LEU:HD22	2:M:832:LYS:HB3	2.00	0.44
2:C:51:THR:CB	2:C:348:LEU:HD23	2.48	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:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.44
2:M:80:GLN:HE22	2:M:122:THR:HG23	1.83	0.44
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.48	0.44
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.32	0.44
2:C:185:LYS:HB3	2:C:188:LYS:O	2.17	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
3:N:459:GLU:HA	8:N:9127:HOH:O	2.17	0.44
3:D:6:ARG:HH11	3:D:6:ARG:HB3	1.83	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:27:ARG:HG2	2:C:27:ARG:HH11	1.82	0.44
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.52	0.44
3:D:472:ALA:HB3	8:D:9440:HOH:O	2.17	0.44
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.48	0.44
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.82	0.44
2:M:364:GLU:HG2	8:M:1471:HOH:O	2.17	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:M:1049:LEU:O	2:M:1053:LEU:HD12	2.17	0.44
2:C:778:PHE:HB3	8:C:1664:HOH:O	2.18	0.44
5:F:361:LEU:HD13	5:F:366:ALA:HB2	1.99	0.44
3:N:664:LYS:HE3	3:N:693:GLU:OE1	2.18	0.44
3:D:910:SER:O	3:D:913:ASP:HB2	2.18	0.44
5:F:295:MET:HB3	5:F:299:TRP:CG	2.52	0.44
3:D:135:LEU:HA	3:D:453:ASP:O	2.18	0.44
3:D:611:GLN:CG	5:F:326:ASP:HB2	2.46	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.53	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
2:M:577:PRO:HD3	8:M:1226:HOH:O	2.17	0.44
3:N:119:SER:H	3:N:123:LEU:CB	2.28	0.44
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.16	0.44
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.31	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:943:VAL:HG11	2:M:973:VAL:CG2	2.48	0.44
1:K:69:PRO:HA	2:M:607:ASP:OD2	2.17	0.44
3:D:1379:VAL:HA	3:D:1420:LEU:HB3	1.99	0.44
1:B:57:TYR:CE1	1:B:161:ARG:HB3	2.53	0.44
5:P:376:ILE:HB	8:P:4564:HOH:O	2.18	0.44
1:B:170:VAL:HG23	1:B:170:VAL:O	2.17	0.44
2:C:722:ILE:HG23	2:C:805:ARG:NH2	2.30	0.44
3:D:955:VAL:HB	3:D:1011:PHE:CE1	2.46	0.44
2:C:902:ILE:HD13	8:C:1742:HOH:O	2.18	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.51	0.44
2:M:1042:ALA:HB1	3:N:710:ARG:CD	2.48	0.44
3:D:780:LYS:NZ	8:D:9079:HOH:O	2.48	0.44
3:N:1302:GLU:OE2	3:N:1304:LYS:HG3	2.17	0.44
1:A:107:LYS:HB3	8:A:463:HOH:O	2.18	0.44
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.00	0.44
2:C:601:GLY:HA3	2:C:615:TYR:HA	1.99	0.44
2:C:916:GLU:O	2:C:919:ALA:HB3	2.18	0.44
2:C:1049:LEU:HG	2:C:1053:LEU:HD11	1.99	0.44
3:D:799:LYS:N	3:D:826:PRO:HG2	2.32	0.44
2:M:1105:LYS:O	2:M:1107:ASN:N	2.50	0.44
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.99	0.44
4:O:50:THR:HB	8:O:4472:HOH:O	2.18	0.44
2:C:435:TYR:C	2:C:437:ARG:H	2.21	0.43
2:M:1087:VAL:HG23	3:N:524:LEU:CD2	2.48	0.43
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.33	0.43
2:M:91:GLN:CD	2:M:117:HIS:HB3	2.37	0.43
2:M:176:VAL:O	2:M:178:PRO:HD3	2.17	0.43
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.98	0.43
5:F:132:ARG:HD3	5:F:181:GLU:CD	2.39	0.43
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.18	0.43
2:C:873:PRO:HG2	3:D:947:ILE:CD1	2.43	0.43
3:D:1135:ARG:NH1	3:D:1357:ARG:HH12	2.16	0.43
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.30	0.43
5:P:320:PRO:C	5:P:321:ILE:HD13	2.38	0.43
1:A:150:TYR:HD1	2:C:696:LYS:HD3	1.83	0.43
3:D:1223:ILE:CD1	3:D:1223:ILE:H	2.25	0.43
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.00	0.43
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.44	0.43
2:C:961:GLU:HG3	8:C:1364:HOH:O	2.18	0.43
2:C:927:GLY:HA2	2:C:930:LYS:HE3	1.99	0.43
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.52	0.43
2:M:47:ALA:HB3	2:M:344:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:783:ARG:HE	3:N:1029:ARG:HG3	1.83	0.43
2:C:162:ILE:HD12	2:C:172:ILE:CB	2.46	0.43
5:P:133:ALA:O	5:P:137:GLY:O	2.36	0.43
2:C:861:LEU:HD23	2:C:863:ASP:H	1.83	0.43
1:K:58:ILE:HD13	1:K:140:MET:HB2	2.00	0.43
3:D:639:LEU:HD22	3:D:766:ALA:CB	2.48	0.43
3:D:34:TYR:OH	5:F:261:PRO:HD2	2.18	0.43
3:D:1098:LEU:N	3:D:1098:LEU:HD12	2.33	0.43
1:L:75:VAL:O	1:L:79:ILE:HG23	2.17	0.43
2:M:761:PHE:HB3	8:M:1358:HOH:O	2.17	0.43
4:E:14:ASP:N	4:E:14:ASP:OD1	2.46	0.43
2:M:566:THR:HG22	2:M:566:THR:O	2.18	0.43
5:P:101:GLU:O	5:P:105:LYS:HG3	2.18	0.43
2:C:786:LYS:HA	8:C:1481:HOH:O	2.17	0.43
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.18	0.43
3:N:1004:THR:OG1	3:N:1036:ARG:HG3	2.18	0.43
2:C:65:VAL:HB	2:C:101:ILE:HB	2.00	0.43
3:D:131:LYS:HA	3:D:456:MET:HG3	2.00	0.43
2:C:338:GLU:HA	2:C:341:THR:CG2	2.46	0.43
5:P:130:VAL:HG21	5:P:159:ILE:HG21	2.01	0.43
4:O:46:PRO:CB	4:O:54:LEU:HD22	2.48	0.43
2:C:754:ILE:HD13	2:C:791:ARG:CD	2.48	0.43
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.83	0.43
3:N:1314:LYS:HZ3	3:N:1317:ASP:N	2.03	0.43
1:A:51:THR:HA	1:A:145:ASP:O	2.18	0.43
5:F:155:THR:O	5:F:159:ILE:HG13	2.17	0.43
3:D:817:GLU:O	3:D:840:LYS:NZ	2.51	0.43
8:N:9109:HOH:O	5:P:319:THR:HG23	2.17	0.43
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.42	0.43
3:D:530:VAL:HG12	3:D:531:ASP:N	2.32	0.43
1:K:169:ALA:HB1	1:K:171:PHE:CE1	2.53	0.43
2:M:603:VAL:HG23	2:M:647:GLN:O	2.17	0.43
3:D:814:ALA:HB3	8:D:9196:HOH:O	2.17	0.43
3:D:178:LEU:CD1	3:D:200:ASP:H	2.32	0.43
1:A:219:ARG:NE	1:B:219:ARG:HG2	2.33	0.43
3:N:163:TYR:O	3:N:447:VAL:HG21	2.18	0.43
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.53	0.43
3:N:560:GLN:NE2	5:P:218:GLN:NE2	2.65	0.43
1:L:94:LEU:HD21	1:L:119:ASP:HB2	2.01	0.43
3:D:1198:TYR:HE1	8:D:9137:HOH:O	2.00	0.43
5:F:416:ARG:HD2	5:F:419:ARG:HB3	1.98	0.43
2:M:50:GLU:OE2	2:M:345:ARG:NH1	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:677:MET:HE1	2:C:983:ILE:HD13	1.99	0.43
2:M:357:GLU:HB2	8:M:1297:HOH:O	2.17	0.43
2:M:484:VAL:HG21	8:M:1124:HOH:O	2.18	0.43
3:D:631:ILE:O	3:D:632:VAL:HG23	2.18	0.43
3:N:530:VAL:HA	8:N:9503:HOH:O	2.17	0.43
3:D:890:VAL:HG13	3:D:926:LYS:CE	2.48	0.43
3:N:1353:GLN:O	3:N:1357:ARG:HD2	2.18	0.43
3:N:996:TRP:HA	3:N:996:TRP:CE3	2.53	0.43
2:M:916:GLU:HA	8:M:1178:HOH:O	2.16	0.43
2:M:462:ASP:CG	2:M:463:GLU:H	2.21	0.43
2:M:1018:GLN:NE2	5:P:338:LEU:HD13	2.33	0.43
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.18	0.43
2:C:108:ILE:H	2:C:108:ILE:HG13	1.55	0.43
3:D:521:PRO:O	3:D:525:ARG:HD3	2.19	0.43
5:P:134:LYS:HE3	5:P:160:ASP:OD2	2.18	0.43
2:M:1075:ASP:HB2	4:O:31:LEU:HD12	1.99	0.43
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.48	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:C:876:VAL:HG21	3:D:949:ILE:HG13	2.00	0.43
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.38	0.43
2:C:746:GLY:C	2:C:799:ILE:HG22	2.38	0.43
2:M:378:LEU:N	8:M:1288:HOH:O	2.51	0.43
2:C:688:ILE:N	2:C:688:ILE:HD12	2.33	0.43
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.83	0.43
2:C:54:ILE:HG12	8:C:1597:HOH:O	2.19	0.43
4:E:57:ASP:H	4:E:58:PRO:HD3	1.83	0.43
3:N:1197:ARG:HB3	3:N:1396:GLU:HG3	2.00	0.43
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.42	0.43
1:A:107:LYS:CG	8:A:494:HOH:O	2.66	0.43
1:K:1:MET:O	1:K:6:LEU:HB2	2.18	0.43
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	1.99	0.43
5:F:323:ASP:HB3	5:F:325:LYS:HG3	2.00	0.43
3:D:34:TYR:CE1	3:D:35:ARG:HG3	2.53	0.43
2:M:1052:MET:HG3	3:N:623:VAL:CG2	2.48	0.43
3:N:1051:GLU:HG3	3:N:1051:GLU:H	1.50	0.43
1:B:189:ARG:H	1:B:189:ARG:HG2	1.61	0.43
2:M:999:HIS:HE1	8:M:1359:HOH:O	2.00	0.43
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.17	0.43
2:M:1091:GLU:HA	3:N:520:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:89:ARG:NH2	8:N:9103:HOH:O	2.51	0.43
5:F:320:PRO:C	5:F:321:ILE:HD13	2.38	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.52	0.43
3:D:1382:THR:HG21	3:D:1418:LYS:CE	2.48	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
3:D:119:SER:H	3:D:123:LEU:CB	2.31	0.43
3:N:568:ARG:O	3:N:569:ASN:C	2.57	0.43
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.36	0.43
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.17	0.43
3:D:772:PRO:HG3	3:D:1210:SER:OG	2.19	0.43
2:M:572:ILE:HG23	2:M:703:ILE:HD13	1.99	0.43
2:M:571:LEU:C	2:M:573:ARG:H	2.21	0.43
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.43
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.19	0.43
3:N:789:LEU:O	3:N:792:ILE:HG23	2.18	0.43
3:D:805:GLU:O	3:D:805:GLU:OE1	2.37	0.43
3:N:1485:GLN:O	4:O:75:PHE:HA	2.19	0.43
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.54	0.43
2:C:401:LEU:HD13	2:C:587:VAL:HG11	1.99	0.43
2:C:396:ASP:HA	2:C:633:GLN:OE1	2.18	0.43
2:M:15:LEU:HD21	2:M:583:LEU:HD21	2.00	0.43
1:A:75:VAL:HA	1:A:78:ILE:HD12	1.99	0.43
1:L:101:LEU:HD21	1:L:113:ASP:HB3	1.99	0.43
5:F:179:GLU:HG3	8:F:503:HOH:O	2.18	0.43
1:A:49:PRO:HB3	1:A:148:VAL:HG22	2.00	0.43
3:D:369:ALA:HA	8:D:9461:HOH:O	2.19	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:C:417:GLY:C	2:C:418:LEU:HD12	2.39	0.43
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.39	0.43
3:N:47:GLU:HG2	8:N:9894:HOH:O	2.17	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
4:O:54:LEU:N	8:O:4983:HOH:O	2.52	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.90	0.43
3:N:431:VAL:HG22	8:N:9550:HOH:O	2.18	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
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	2.00	0.43
5:P:366:ALA:HB3	5:P:367:MET:CE	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1029:ARG:NH2	8:D:9488:HOH:O	2.52	0.43
2:C:640:ARG:CB	2:C:640:ARG:HH11	2.32	0.43
3:N:514:LEU:HA	8:N:9079:HOH:O	2.18	0.43
3:D:853:VAL:HA	3:D:858:VAL:O	2.18	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:302:VAL:C	2:M:305:PRO:HD2	2.39	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
3:N:102:ILE:CG2	3:N:586:ARG:HD3	2.49	0.43
3:N:584:ASN:HB2	3:N:602:SER:OG	2.19	0.43
1:A:215:VAL:HG11	1:B:225:PHE:CD1	2.53	0.43
1:K:229:GLN:HB2	1:K:229:GLN:HE21	1.64	0.43
2:M:220:GLY:HA3	8:M:1170:HOH:O	2.18	0.43
2:C:236:ILE:O	2:C:239:PHE:HB2	2.17	0.43
2:M:1019:GLN:OE1	3:N:621:LYS:HA	2.18	0.43
2:M:553:ASP:HA	2:M:881:ASN:HA	1.99	0.43
2:C:854:PRO:HD2	2:C:857:ASP:OD2	2.18	0.43
3:N:1425:THR:CG2	3:N:1426:LYS:N	2.82	0.43
2:C:1016:ILE:HD12	3:D:526:PRO:HG2	2.00	0.43
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.18	0.43
5:P:77:THR:O	5:P:81:VAL:HG23	2.17	0.43
1:A:23:PHE:O	1:A:196:THR:HA	2.18	0.43
2:M:274:ARG:CD	2:M:285:LEU:HB3	2.49	0.43
3:N:694:VAL:HG13	8:N:9146:HOH:O	2.18	0.43
3:D:606:ILE:O	3:D:613:ARG:HB2	2.18	0.43
5:P:367:MET:HA	5:P:370:LYS:HZ3	1.84	0.43
1:L:142:VAL:HG23	1:L:142:VAL:O	2.19	0.43
8:B:441:HOH:O	3:D:821:VAL:HG13	2.18	0.43
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.82	0.43
3:N:596:SER:OG	3:N:598:ARG:HB3	2.18	0.43
3:N:32:ILE:O	5:P:258:ILE:HG23	2.19	0.43
3:D:838:ARG:HG2	3:D:865:THR:OG1	2.18	0.43
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.53	0.43
3:N:669:ASN:O	3:N:672:ALA:HB3	2.18	0.43
2:C:1042:ALA:HB1	8:D:9123:HOH:O	2.18	0.43
1:L:19:GLU:O	1:L:200:TRP:HA	2.18	0.43
1:B:49:PRO:HA	8:B:322:HOH:O	2.19	0.43
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.49	0.43
3:N:210:ARG:HD3	8:N:9691:HOH:O	2.18	0.43
2:M:841:ASN:ND2	2:M:841:ASN:C	2.70	0.43
3:D:57:GLU:HG2	3:D:58:CYS:O	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1102:THR:HG22	3:D:1102:THR:O	2.19	0.43
3:D:819:GLY:HA2	8:D:9660:HOH:O	2.18	0.43
1:K:193:ASP:HB2	8:K:3631:HOH:O	2.19	0.43
3:N:910:SER:O	3:N:913:ASP:HB2	2.18	0.43
1:A:1:MET:O	1:A:6:LEU:HB2	2.18	0.43
2:M:654:LEU:HD13	2:M:664:GLY:N	2.33	0.43
5:F:313:GLU:HG2	5:F:313:GLU:H	1.42	0.43
3:N:1237:THR:HB	3:N:1239:ARG:HH21	1.84	0.43
5:P:343:ASP:O	5:P:346:THR:HB	2.18	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:M:1049:LEU:O	2:M:1049:LEU:HG	2.16	0.43
3:D:699:VAL:CG2	3:D:760:ARG:HB3	2.45	0.43
1:A:24:VAL:HG22	1:A:196:THR:CB	2.46	0.43
3:N:131:LYS:HE2	3:N:568:ARG:HB3	2.01	0.43
2:M:267:TYR:O	2:M:288:ARG:HD3	2.17	0.43
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.84	0.43
2:M:139:GLN:NE2	2:M:334:ARG:HH11	2.02	0.43
3:N:684:LYS:HD3	3:N:686:GLU:CD	2.39	0.43
3:N:629:SER:OG	3:N:630:VAL:N	2.50	0.43
1:K:9:PRO:HB3	1:K:25:LEU:CG	2.48	0.43
3:D:641:GLN:O	3:D:716:PHE:HD2	2.01	0.43
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.00	0.43
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.78	0.43
3:N:112:ILE:HD13	3:N:461:ILE:HG21	2.00	0.43
5:P:104:ARG:HD3	8:P:5106:HOH:O	2.18	0.43
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.70	0.43
3:N:798:GLU:HB2	3:N:828:LYS:HZ3	1.84	0.43
4:O:9:LEU:HD21	4:O:69:LEU:HG	2.01	0.43
2:C:938:LYS:HD3	2:C:939:ARG:NH2	2.33	0.43
2:C:816:LYS:O	2:C:819:VAL:HB	2.19	0.43
3:D:965:GLU:HB2	8:D:2028:HOH:O	2.17	0.43
2:M:56:GLU:HB2	2:M:359:MET:SD	2.59	0.43
2:C:588:VAL:HG21	2:C:664:GLY:O	2.17	0.43
2:C:915:LYS:O	2:C:968:LEU:HD22	2.19	0.43
5:P:223:ALA:HB2	5:P:242:TRP:CB	2.49	0.43
3:N:469:ASP:HB3	8:N:9566:HOH:O	2.18	0.43
2:M:936:VAL:HG22	8:M:1450:HOH:O	2.18	0.43
3:D:106:LYS:HA	3:D:106:LYS:HD3	1.83	0.43
1:L:137:ARG:CZ	1:L:137:ARG:HB3	2.49	0.43
3:D:677:LEU:HD21	3:D:687:VAL:HG21	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1050:GLN:NE2	2:M:1079:PRO:HB2	2.33	0.43
5:P:340:SER:O	5:P:342:VAL:N	2.51	0.43
2:M:289:THR:O	2:M:291:ALA:N	2.51	0.43
5:P:337:HIS:CD2	5:P:337:HIS:N	2.86	0.43
2:M:89:THR:HG23	2:M:89:THR:O	2.19	0.43
3:D:210:ARG:HG3	3:D:398:ALA:N	2.32	0.43
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.33	0.43
3:D:478:LEU:HD21	3:D:500:ARG:HH22	1.77	0.43
4:O:41:GLU:HG3	4:O:45:ARG:NH1	2.34	0.43
3:D:907:GLU:OE1	3:D:908:LYS:N	2.52	0.43
3:N:806:PHE:O	3:N:807:ALA:C	2.56	0.43
2:M:773:LEU:HA	8:M:1485:HOH:O	2.19	0.43
2:M:139:GLN:NE2	2:M:415:PRO:HG2	2.34	0.43
5:P:363:GLU:HA	5:P:367:MET:HE2	1.99	0.43
3:N:704:ARG:CD	3:N:705:ALA:H	2.24	0.43
1:A:26:GLU:CB	1:A:194:LYS:HG3	2.49	0.43
2:C:974:LEU:HD11	2:C:989:VAL:HG11	2.01	0.43
2:M:984:GLU:O	3:N:946:GLY:HA3	2.18	0.43
2:M:31:GLN:OE1	2:M:38:LYS:HB2	2.18	0.43
2:M:52:PHE:HB3	8:M:1173:HOH:O	2.18	0.43
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.49	0.43
2:C:98:LEU:N	2:C:98:LEU:HD12	2.33	0.43
2:M:309:TYR:CE2	2:M:321:GLU:HB3	2.54	0.43
1:K:152:PRO:HB3	2:M:832:LYS:NZ	2.34	0.43
4:O:67:GLU:OE1	4:O:73:LEU:HD11	2.18	0.43
1:B:143:ARG:CD	1:B:158:ILE:HG21	2.48	0.43
3:D:805:GLU:HA	8:D:9801:HOH:O	2.18	0.43
3:N:1124:GLN:HG3	8:N:9303:HOH:O	2.19	0.43
3:N:1485:GLN:NE2	4:O:79:LEU:H	2.17	0.43
1:K:101:LEU:HG	1:K:113:ASP:O	2.18	0.43
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.49	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
3:N:1274:ILE:HA	8:N:9087:HOH:O	2.19	0.43
3:N:829:VAL:H	3:N:835:SER:HB2	1.83	0.43
3:D:32:ILE:HG22	5:F:258:ILE:HD12	2.00	0.43
1:K:228:PRO:HA	1:L:11:PHE:O	2.19	0.43
2:M:1103:ASP:N	2:M:1107:ASN:O	2.52	0.43
1:B:185:ARG:HG3	1:B:190:THR:HG22	2.01	0.43
3:N:1009:LYS:HG3	8:N:9857:HOH:O	2.18	0.43
2:C:29:ALA:CB	2:C:337:GLY:HA2	2.49	0.43
2:M:1115:LEU:CG	3:N:85:VAL:HG13	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.34	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.50	0.43
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.48	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
2:C:1010:THR:HG21	5:F:341:PRO:HB2	2.01	0.43
3:N:760:ARG:HB2	4:O:3:GLU:OE2	2.19	0.43
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.52	0.43
1:B:138:LEU:HB2	8:B:373:HOH:O	2.18	0.43
2:C:77:PRO:HD2	2:C:91:GLN:O	2.19	0.43
3:N:781:PRO:HG2	3:N:911:LEU:HD23	2.01	0.43
2:C:680:ASP:HA	8:C:1147:HOH:O	2.18	0.43
3:D:1209:LEU:HD13	3:D:1211:MET:CE	2.41	0.43
3:N:950:GLY:H	3:N:953:ASP:CG	2.22	0.43
2:C:640:ARG:HA	2:C:641:PRO:HD3	1.90	0.43
3:D:1144:LEU:O	3:D:1166:LEU:HG	2.18	0.43
3:D:55:ASP:HB3	3:D:56:TYR:H	1.65	0.43
1:L:12:THR:OG1	1:L:24:VAL:HB	2.19	0.43
3:N:185:VAL:HG12	3:N:191:LEU:HD21	2.01	0.43
2:C:480:THR:HG22	2:C:482:GLU:N	2.31	0.43
3:N:898:GLU:HB3	3:N:921:ARG:NH2	2.34	0.43
2:M:582:GLY:N	2:M:584:GLU:OE2	2.48	0.43
2:C:334:ARG:HB2	2:C:339:LEU:HD11	2.00	0.43
2:C:745:ILE:HG13	8:C:1168:HOH:O	2.18	0.43
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.54	0.43
2:M:570:PRO:HA	8:M:1348:HOH:O	2.18	0.43
2:C:10:ARG:HD3	2:C:10:ARG:HA	1.68	0.43
3:N:1300:SER:HB3	8:N:9965:HOH:O	2.18	0.43
5:F:157:GLU:HG3	8:F:479:HOH:O	2.18	0.43
3:N:1413:THR:HG21	8:N:9344:HOH:O	2.18	0.43
2:M:443:THR:HA	2:M:444:PRO:HD3	1.80	0.43
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.53	0.43
3:D:1303:TYR:CD1	3:D:1325:LEU:HD23	2.54	0.43
2:C:102:HIS:HD2	2:C:365:ASP:OD2	2.02	0.43
2:M:1115:LEU:CB	3:N:85:VAL:HG13	2.49	0.43
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.01	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
1:K:48:ILE:HG22	1:K:173:PRO:HD2	2.00	0.43
5:P:88:ILE:O	5:P:92:PRO:HG3	2.19	0.43
3:D:464:LEU:O	3:D:468:LEU:HG	2.19	0.43
3:N:1476:THR:OG1	4:O:20:THR:HG21	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:415:PRO:C	2:M:417:GLY:H	2.23	0.43
3:D:633:VAL:C	3:D:635:PRO:HD3	2.39	0.43
2:M:666:LEU:HD12	2:M:667:ALA:H	1.84	0.43
3:N:493:ARG:NH1	3:N:1390:LEU:N	2.67	0.43
3:D:508:ARG:HG2	3:D:508:ARG:HH11	1.84	0.43
1:L:62:LEU:HD22	1:L:63:HIS:HE1	1.83	0.43
2:C:52:PHE:HB3	8:C:1475:HOH:O	2.18	0.43
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.19	0.43
2:C:443:THR:HA	2:C:444:PRO:HD3	1.81	0.43
3:N:828:LYS:N	3:N:828:LYS:HD3	2.33	0.43
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.48	0.43
5:F:225:GLU:HG3	5:F:226:LYS:HG3	2.01	0.43
2:M:495:THR:H	2:M:530:GLU:CD	2.22	0.43
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.43
1:K:112:ARG:HH22	1:K:126:ASP:HB2	1.83	0.43
2:C:744:ARG:HA	8:C:1168:HOH:O	2.18	0.43
1:K:212:ASN:O	1:K:215:VAL:HG23	2.19	0.43
3:N:1377:LYS:HB3	3:N:1378:TYR:CE1	2.53	0.43
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.34	0.43
1:B:7:LYS:HD3	8:B:328:HOH:O	2.19	0.43
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.82	0.43
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
3:D:28:LYS:O	3:D:43:GLY:HA2	2.19	0.42
3:D:568:ARG:O	3:D:569:ASN:C	2.57	0.42
3:N:1435:LEU:HB2	3:N:1457:ASP:OD2	2.19	0.42
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
3:D:500:ARG:HD2	8:D:9527:HOH:O	2.18	0.42
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.42
5:F:132:ARG:HG3	8:F:754:HOH:O	2.19	0.42
1:A:9:PRO:HB3	1:A:25:LEU:HD21	2.01	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:68:PHE:HZ	2:M:71:TYR:HB3	1.84	0.42
1:L:23:PHE:CE1	1:L:208:LEU:HD13	2.54	0.42
3:D:1107:VAL:O	3:D:1218:GLY:N	2.49	0.42
3:N:794:GLN:NE2	3:N:795:VAL:O	2.52	0.42
2:C:185:LYS:HE3	8:C:1838:HOH:O	2.19	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:1136:LYS:HG3	3:N:1139:ASP:HB2	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:638:LYS:C	3:D:729:HIS:HD2	2.23	0.42
3:N:552:ASN:O	3:N:556:LYS:HD3	2.19	0.42
2:C:892:LEU:HD12	2:C:892:LEU:O	2.19	0.42
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.19	0.42
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.39	0.42
2:C:103:LYS:HE2	8:C:1421:HOH:O	2.19	0.42
1:B:33:GLY:O	1:B:195:LEU:HD22	2.19	0.42
1:A:229:GLN:HB2	1:A:229:GLN:HE21	1.58	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
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.54	0.42
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.18	0.42
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.19	0.42
2:C:1054:THR:C	2:C:1059:ASP:HB2	2.40	0.42
3:D:1057:VAL:HA	3:D:1069:GLU:HG2	2.00	0.42
2:M:822:VAL:HG21	2:M:824:ARG:HH21	1.84	0.42
2:C:498:GLN:CD	3:D:1068:LEU:HB2	2.39	0.42
3:N:737:ASN:N	8:N:9095:HOH:O	2.52	0.42
5:F:393:THR:O	5:F:397:ILE:HG13	2.19	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:321:GLU:HG2	2:C:321:GLU:H	1.57	0.42
3:N:134:VAL:HG21	8:N:9491:HOH:O	2.19	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
2:M:595:LEU:HD22	2:M:625:LEU:CD2	2.49	0.42
1:L:23:PHE:CE1	1:L:208:LEU:HD22	2.55	0.42
2:C:897:LEU:HD11	2:C:920:GLN:HG2	2.01	0.42
5:P:372:ARG:HA	8:P:3689:HOH:O	2.18	0.42
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.54	0.42
5:F:309:LYS:O	5:F:312:GLN:HG3	2.19	0.42
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.54	0.42
3:D:1156:LEU:HG	3:D:1177:ALA:HB2	2.00	0.42
2:M:400:PRO:HB3	8:M:1744:HOH:O	2.18	0.42
3:N:1241:PHE:HD1	3:N:1241:PHE:H	1.67	0.42
5:F:343:ASP:O	5:F:346:THR:HB	2.18	0.42
2:C:219:GLN:HA	2:C:222:MET:SD	2.58	0.42
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.54	0.42
3:N:78:VAL:HG12	3:N:78:VAL:O	2.19	0.42
2:C:708:TYR:H	2:C:708:TYR:HD1	1.67	0.42
5:F:368:VAL:HG13	5:F:388:ALA:O	2.20	0.42
3:D:475:LYS:O	3:D:479:GLU:HG2	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:184:MET:HB2	2:M:193:LEU:HD12	2.01	0.42
2:C:91:GLN:HA	2:C:119:PRO:HA	2.02	0.42
3:N:675:ARG:O	3:N:678:GLU:HG2	2.19	0.42
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.33	0.42
3:N:850:LEU:H	3:N:850:LEU:CD1	2.23	0.42
2:C:460:ARG:HH11	2:C:460:ARG:CB	2.26	0.42
2:M:362:GLY:HA3	2:M:367:LEU:CD2	2.42	0.42
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.49	0.42
3:N:168:THR:O	3:N:393:ILE:N	2.52	0.42
2:C:607:ASP:HB3	2:C:610:ARG:H	1.84	0.42
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.54	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.50	0.42
5:P:419:ARG:O	5:P:421:PHE:N	2.52	0.42
1:L:51:THR:HA	1:L:145:ASP:O	2.19	0.42
2:C:254:VAL:O	2:C:257:VAL:HG23	2.18	0.42
3:D:994:GLN:O	3:D:998:GLU:HG3	2.20	0.42
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.49	0.42
2:C:238:LEU:HD23	2:C:241:LEU:HB3	2.01	0.42
3:N:1447:LEU:O	3:N:1448:THR:C	2.57	0.42
2:M:473:ARG:NH2	8:M:1124:HOH:O	2.52	0.42
5:F:348:SER:OG	5:F:349:LEU:N	2.52	0.42
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.01	0.42
3:D:31:THR:HB	3:D:32:ILE:H	1.56	0.42
1:L:179:PHE:HB2	1:L:195:LEU:HD11	2.00	0.42
2:M:732:ALA:O	2:M:735:ARG:HG3	2.19	0.42
3:D:917:GLN:NE2	3:D:917:GLN:HA	2.34	0.42
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.84	0.42
1:L:165:ILE:HG13	1:L:165:ILE:O	2.19	0.42
2:C:430:VAL:O	2:C:430:VAL:HG13	2.19	0.42
2:M:959:PRO:O	2:M:963:LEU:HD23	2.19	0.42
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.84	0.42
3:D:759:ALA:O	3:D:763:MET:HB3	2.19	0.42
2:M:440:PRO:HG2	2:M:441:VAL:HG23	2.00	0.42
4:E:70:THR:HG22	4:E:71:GLY:N	2.34	0.42
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.82	0.42
2:C:437:ARG:HG2	2:C:467:ILE:O	2.20	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	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
2:C:712:ALA:HB1	2:C:820:ARG:NH1	2.33	0.42
2:C:1086:ARG:HD3	3:D:88:TYR:HH	1.83	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1199:GLY:N	8:D:9253:HOH:O	2.51	0.42
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.82	0.42
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.01	0.42
3:D:145:VAL:HG11	8:D:9724:HOH:O	2.18	0.42
2:M:239:PHE:HE1	8:M:1543:HOH:O	2.02	0.42
3:N:536:ALA:CA	5:P:315:VAL:O	2.68	0.42
1:L:161:ARG:HG3	8:L:3450:HOH:O	2.18	0.42
3:D:163:TYR:O	3:D:447:VAL:HG21	2.19	0.42
2:M:750:LYS:HG3	2:M:751:PRO:HD2	2.01	0.42
2:M:549:PHE:CE2	2:M:886:LEU:HD12	2.55	0.42
8:B:441:HOH:O	3:D:821:VAL:HG22	2.19	0.42
3:N:1112:CYS:CA	3:N:1195:GLN:HE22	2.31	0.42
3:D:864:VAL:HG23	8:D:9288:HOH:O	2.18	0.42
3:D:1220:ALA:O	3:D:1224:VAL:HG23	2.19	0.42
3:D:530:VAL:CG1	3:D:531:ASP:H	2.32	0.42
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.01	0.42
3:N:1493:LYS:HZ3	3:N:1493:LYS:HA	1.83	0.42
3:N:1365:ASP:N	3:N:1365:ASP:OD2	2.53	0.42
3:N:770:LEU:HD13	3:N:776:GLU:C	2.40	0.42
3:D:507:ASN:HA	3:D:507:ASN:HD22	1.65	0.42
3:N:759:ALA:HA	3:N:763:MET:CE	2.49	0.42
2:C:1094:ALA:HB1	3:D:603:LEU:CD1	2.49	0.42
3:D:1020:LEU:HD21	3:D:1038:LEU:HD13	2.01	0.42
3:D:556:LYS:HD2	8:D:9348:HOH:O	2.19	0.42
5:F:262:VAL:O	5:F:266:GLU:HG3	2.17	0.42
2:M:652:GLY:HA2	8:M:1180:HOH:O	2.19	0.42
2:M:1086:ARG:CB	2:M:1112:PHE:HE2	2.32	0.42
3:N:52:PRO:HG2	3:N:78:VAL:HG13	2.00	0.42
3:D:421:LEU:HD12	3:D:435:VAL:HG11	2.01	0.42
5:F:372:ARG:HD3	8:F:635:HOH:O	2.20	0.42
3:D:1037:GLN:OE1	3:D:1042:ARG:NE	2.52	0.42
3:N:661:MET:HE1	3:N:677:LEU:HD11	2.02	0.42
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.83	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:507:ARG:HH11	2:M:507:ARG:CB	2.25	0.42
3:D:817:GLU:HB2	3:D:839:LEU:CD1	2.50	0.42
3:D:112:ILE:HD13	3:D:461:ILE:HG21	2.01	0.42
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.83	0.42
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.33	0.42
3:N:888:GLU:HA	3:N:891:GLU:OE1	2.19	0.42
3:N:639:LEU:N	3:N:729:HIS:CD2	2.87	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.20	0.42
3:N:1485:GLN:NE2	4:O:79:LEU:N	2.68	0.42
3:N:553:ARG:HD2	3:N:570:GLU:OE2	2.19	0.42
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.83	0.42
3:N:1142:ALA:HB1	3:N:1365:ASP:OD2	2.19	0.42
3:D:669:ASN:O	3:D:672:ALA:HB3	2.19	0.42
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.03	0.42
3:N:115:LEU:HD13	3:N:499:VAL:HG22	2.01	0.42
3:D:47:GLU:HG2	3:D:47:GLU:H	1.71	0.42
2:M:923:GLU:HA	2:M:923:GLU:OE1	2.19	0.42
2:M:754:ILE:HD13	2:M:791:ARG:HD3	2.01	0.42
3:N:700:VAL:HG22	3:N:718:PRO:HG3	2.01	0.42
2:M:131:GLY:N	8:M:1593:HOH:O	2.53	0.42
5:P:338:LEU:HG	8:P:2822:HOH:O	2.19	0.42
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.55	0.42
2:C:135:VAL:N	2:C:393:GLN:O	2.50	0.42
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	2.00	0.42
3:D:49:ILE:HB	3:D:50:PHE:CE1	2.55	0.42
3:N:65:ARG:HA	3:N:65:ARG:HD2	1.85	0.42
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.35	0.42
2:M:183:SER:HB2	2:M:190:LYS:HG2	2.00	0.42
1:B:13:VAL:HG12	1:B:14:ARG:N	2.34	0.42
3:D:1086:LEU:HB2	8:D:9637:HOH:O	2.20	0.42
3:N:661:MET:HE1	3:N:673:ALA:HB1	2.00	0.42
2:C:235:LEU:HD11	8:C:1777:HOH:O	2.20	0.42
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.50	0.42
3:D:183:GLU:HG3	8:D:9600:HOH:O	2.19	0.42
5:F:113:ILE:HG23	5:F:127:ILE:HG22	2.00	0.42
2:C:710:ILE:HD12	2:C:790:LEU:HB2	2.01	0.42
3:D:1259:VAL:O	3:D:1263:PHE:HD1	2.02	0.42
3:D:817:GLU:HG3	3:D:840:LYS:HZ1	1.85	0.42
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.54	0.42
3:N:1110:ALA:O	3:N:1111:ASP:C	2.58	0.42
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.33	0.42
1:L:134:GLU:HA	8:L:3583:HOH:O	2.20	0.42
3:N:1209:LEU:CD2	3:N:1210:SER:H	2.29	0.42
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.34	0.42
3:N:860:LEU:HD23	3:N:877:PRO:HB2	2.00	0.42
2:M:511:GLU:HG2	2:M:511:GLU:H	1.63	0.42
3:D:178:LEU:HD11	8:D:9071:HOH:O	2.19	0.42
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.84	0.42
2:M:44:ILE:O	2:M:48:PHE:HB2	2.18	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:914:ILE:CD1	2:M:918:LEU:HD13	2.48	0.42
2:M:101:ILE:HG22	2:M:102:HIS:H	1.84	0.42
3:D:678:GLU:HG3	3:D:679:ARG:HG3	2.01	0.42
2:C:751:PRO:HA	2:C:792:VAL:HG12	2.01	0.42
2:M:345:ARG:HA	2:M:348:LEU:HB2	2.02	0.42
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.54	0.42
1:B:133:GLU:HG3	1:B:134:GLU:HG2	2.02	0.42
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.19	0.42
2:M:363:SER:HB3	8:M:1471:HOH:O	2.20	0.42
2:M:240:THR:HG23	8:M:1647:HOH:O	2.19	0.42
2:C:421:GLU:HG3	8:C:1723:HOH:O	2.18	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:C:437:ARG:NH1	2:C:488:ALA:HA	2.35	0.42
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.55	0.42
3:N:865:THR:N	8:N:9349:HOH:O	2.52	0.42
3:N:838:ARG:HD3	3:N:874:GLU:CG	2.50	0.42
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.46	0.42
2:M:751:PRO:HA	2:M:792:VAL:HB	2.02	0.42
3:N:135:LEU:HA	3:N:453:ASP:O	2.19	0.42
3:N:948:THR:O	3:N:1019:PRO:CB	2.68	0.42
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.43	0.42
2:C:95:TYR:CD1	2:C:95:TYR:N	2.88	0.42
3:N:610:LYS:CG	3:N:611:GLN:HE21	2.26	0.42
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.55	0.42
2:M:367:LEU:HA	2:M:371:LYS:HB2	2.01	0.42
3:D:1205:TYR:CE1	3:D:1221:VAL:CG1	3.02	0.42
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.20	0.42
3:N:796:ARG:HG2	3:N:861:GLN:O	2.20	0.42
1:L:86:VAL:O	1:L:86:VAL:HG13	2.20	0.42
3:N:1127:GLU:HB3	3:N:1128:VAL:H	1.68	0.42
2:C:7:GLY:HA3	2:C:907:ASP:O	2.20	0.42
3:D:501:ALA:HB1	3:D:1453:ALA:CA	2.47	0.42
1:B:18:ARG:HH12	1:B:123:MET:HE1	1.85	0.42
2:C:662:GLU:HB3	8:C:1359:HOH:O	2.19	0.42
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.42
1:A:216:GLU:O	1:A:220:GLU:HG3	2.20	0.42
8:N:9099:HOH:O	4:O:84:ARG:HG2	2.20	0.42
2:C:388:ARG:HA	8:C:1349:HOH:O	2.19	0.42
1:K:46:SER:HB3	2:M:856:GLU:CG	2.49	0.42
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.55	0.42
1:B:51:THR:HA	1:B:145:ASP:O	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:39:PRO:HB2	8:D:9084:HOH:O	2.19	0.42
1:L:159:LYS:NZ	8:L:3366:HOH:O	2.53	0.42
3:D:937:TYR:HE1	8:D:9501:HOH:O	2.02	0.42
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.19	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:439:CYS:HB3	2:M:442:GLU:HB2	2.00	0.42
3:N:83:SER:N	8:N:9092:HOH:O	2.53	0.42
3:D:591:VAL:CG1	3:D:597:ASP:HA	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
1:K:176:ARG:O	1:K:200:TRP:HE3	2.02	0.42
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.85	0.42
2:M:183:SER:C	2:M:193:LEU:HD11	2.39	0.42
2:M:257:VAL:HA	8:M:1429:HOH:O	2.20	0.42
1:K:191:ASP:O	1:K:192:LEU:HD23	2.20	0.42
2:M:910:LYS:HD2	2:M:910:LYS:N	2.35	0.42
1:A:209:GLU:HA	8:A:418:HOH:O	2.19	0.42
3:N:161:LEU:CD2	3:N:452:ILE:HG21	2.48	0.42
1:L:140:MET:HG2	1:L:142:VAL:HG13	2.01	0.42
3:N:642:CYS:HA	8:N:9469:HOH:O	2.19	0.42
3:N:12:LEU:HD22	3:N:511:TRP:HB3	2.02	0.42
2:M:694:LEU:O	2:M:699:PHE:HB2	2.20	0.42
2:M:54:ILE:HA	8:M:1389:HOH:O	2.19	0.42
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.20	0.42
2:C:30:LEU:HD12	2:C:30:LEU:O	2.20	0.42
5:F:412:GLU:CD	5:F:418:LEU:HD13	2.40	0.42
3:D:971:LEU:CD1	3:D:992:ILE:HG23	2.50	0.42
2:M:212:GLY:C	2:M:215:GLY:H	2.23	0.42
1:L:111:ALA:HB3	1:L:124:ASN:O	2.20	0.42
3:D:805:GLU:OE2	3:D:809:PRO:HG2	2.20	0.42
3:N:1394:VAL:CG1	3:N:1397:LYS:HG3	2.50	0.42
1:K:111:ALA:HB3	1:K:124:ASN:O	2.20	0.42
3:D:1047:LYS:HA	3:D:1053:PHE:CZ	2.55	0.42
1:L:123:MET:HA	8:L:3100:HOH:O	2.20	0.42
3:N:71:LYS:HE3	8:N:9783:HOH:O	2.19	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.50	0.42
3:D:848:GLU:HA	3:D:851:LEU:HD12	2.02	0.42
2:C:1015:LEU:HD13	5:F:334:PRO:O	2.20	0.42
2:M:249:LYS:HB2	2:M:249:LYS:NZ	2.35	0.42
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.88	0.42
3:D:1132:LEU:HA	3:D:1132:LEU:HD12	1.80	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:408:GLU:HG2	8:N:9502:HOH:O	2.19	0.42
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.84	0.42
3:N:83:SER:O	3:N:86:ARG:N	2.53	0.42
3:N:82:LYS:HG2	5:P:337:HIS:HB3	2.01	0.42
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.34	0.42
3:N:65:ARG:HG3	3:N:66:GLN:HG2	2.00	0.42
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.84	0.42
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.85	0.42
2:C:1090:LYS:HA	2:C:1090:LYS:HD3	1.87	0.42
3:D:15:PRO:CB	3:D:19:ARG:HH12	2.32	0.42
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.20	0.42
3:D:1382:THR:HA	8:D:9579:HOH:O	2.20	0.42
1:K:198:ARG:C	1:K:199:ILE:HD12	2.41	0.42
5:P:273:ARG:O	5:P:276:ARG:HB2	2.20	0.42
2:C:147:TYR:HE2	2:C:280:LYS:NZ	2.18	0.42
2:C:1031:ARG:HD3	3:D:619:LEU:HD23	2.02	0.42
2:M:469:THR:HG23	2:M:538:GLN:OE1	2.20	0.42
5:F:181:GLU:O	5:F:184:ARG:HB3	2.19	0.42
2:M:565:GLN:HA	2:M:995:MET:HE3	2.01	0.42
3:D:978:TYR:CE1	3:D:985:ASP:HA	2.55	0.42
2:M:503:LEU:HD12	8:M:1190:HOH:O	2.19	0.42
1:L:108:GLU:HA	8:L:2956:HOH:O	2.20	0.42
2:C:452:ILE:HG13	2:C:452:ILE:O	2.19	0.42
5:F:166:LEU:HD22	5:F:170:HIS:HB2	2.01	0.42
3:N:1485:GLN:HE21	4:O:79:LEU:N	2.17	0.42
3:D:1152:GLU:CD	3:D:1159:ARG:NH1	2.73	0.42
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.54	0.42
5:F:370:LYS:C	5:F:370:LYS:HD2	2.39	0.42
3:D:1184:GLN:NE2	8:D:9269:HOH:O	2.52	0.42
5:P:328:PHE:HD2	5:P:328:PHE:HA	1.68	0.42
5:P:197:SER:O	5:P:200:LYS:HB3	2.20	0.42
1:K:160:ASP:HB2	8:K:3421:HOH:O	2.20	0.42
2:M:1067:TYR:HE2	5:P:342:VAL:HA	1.85	0.42
2:C:302:VAL:O	2:C:305:PRO:HD2	2.20	0.42
2:M:1041:GLU:HG2	3:N:1462:LEU:HD13	2.01	0.42
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.49	0.42
5:F:291:ILE:HG23	5:F:304:VAL:HG21	2.01	0.42
3:N:633:VAL:C	3:N:635:PRO:HD3	2.40	0.42
1:K:26:GLU:N	1:K:26:GLU:OE2	2.53	0.42
3:D:671:LYS:CG	5:F:422:LEU:HA	2.46	0.42
3:D:1086:LEU:HB3	3:D:1090:ASP:OD1	2.20	0.42
3:D:613:ARG:O	3:D:617:ASN:HB2	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:704:ARG:HD2	3:N:705:ALA:N	2.22	0.42
3:N:654:LYS:HD3	3:N:674:ARG:NH2	2.32	0.42
2:M:993:PHE:CE1	2:M:995:MET:HG2	2.54	0.42
2:C:346:VAL:O	2:C:350:ARG:HG3	2.20	0.42
2:M:397:GLU:H	2:M:633:GLN:CD	2.23	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:N:482:LYS:HA	3:N:489:ARG:HH21	1.85	0.42
2:M:18:LEU:HB2	2:M:590:ASP:HB3	2.01	0.42
5:P:247:ILE:HG22	5:P:251:ILE:CD1	2.45	0.42
3:D:154:THR:HG21	3:D:156:GLU:HG2	2.01	0.42
2:M:513:VAL:HG23	8:M:1203:HOH:O	2.19	0.42
5:P:133:ALA:HA	5:P:142:ARG:NH2	2.35	0.42
1:A:121:GLU:HG2	1:A:123:MET:SD	2.60	0.42
4:E:42:PRO:HB2	4:E:43:GLU:OE2	2.20	0.42
3:D:892:ASP:HB3	3:D:895:VAL:HB	2.01	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.78	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:N:221:ALA:HB1	8:N:9440:HOH:O	2.20	0.42
5:F:96:LEU:HD12	5:F:97:GLU:OE2	2.20	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
2:C:110:GLU:OE2	2:C:369:PRO:HG3	2.20	0.41
1:A:38:ASN:HB3	1:A:39:PRO:HD3	2.01	0.41
5:P:336:GLU:HG2	5:P:337:HIS:CD2	2.55	0.41
2:C:216:GLU:HG2	8:C:1241:HOH:O	2.20	0.41
5:P:132:ARG:CZ	5:P:184:ARG:HH12	2.32	0.41
3:N:500:ARG:NH1	3:N:1388:ARG:HD2	2.35	0.41
2:C:504:GLU:HG2	2:C:507:ARG:O	2.20	0.41
3:D:628:ARG:HD3	8:D:9382:HOH:O	2.20	0.41
3:N:630:VAL:HG12	3:N:631:ILE:N	2.35	0.41
3:N:123:LEU:HD21	8:N:9865:HOH:O	2.20	0.41
3:D:470:LEU:HD12	3:D:508:ARG:NH2	2.34	0.41
2:M:318:PRO:HD2	2:M:321:GLU:OE1	2.19	0.41
2:C:901:TYR:CE2	2:C:917:LEU:HD13	2.55	0.41
1:B:211:LEU:O	1:B:214:ALA:HB3	2.20	0.41
2:C:543:ASN:ND2	2:C:562:SER:O	2.50	0.41
3:N:109:PRO:HG2	8:N:9287:HOH:O	2.20	0.41
3:D:3:LYS:CD	3:D:3:LYS:H	2.33	0.41
3:N:62:LYS:HE2	3:N:75:ARG:HH11	1.84	0.41
2:C:142:ARG:NH2	2:C:325:ILE:HD13	2.35	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:955:VAL:O	3:D:1039:CYS:HB3	2.20	0.41
5:P:278:LEU:HB2	5:P:286:PRO:HG2	2.01	0.41
1:B:26:GLU:HG3	1:B:194:LYS:NZ	2.35	0.41
3:N:488:ARG:CZ	3:N:488:ARG:HB3	2.50	0.41
1:K:211:LEU:O	1:K:214:ALA:HB3	2.19	0.41
2:M:881:ASN:H	2:M:881:ASN:HD22	1.68	0.41
3:N:972:LEU:HD12	8:N:9750:HOH:O	2.19	0.41
3:N:438:ASP:OD1	3:N:440:VAL:HG23	2.20	0.41
2:C:108:ILE:HB	2:C:368:THR:HG1	1.84	0.41
3:D:50:PHE:CD2	3:D:522:PRO:HG3	2.56	0.41
2:C:1115:LEU:HB3	3:D:85:VAL:CG1	2.49	0.41
1:K:173:PRO:HA	1:K:202:ASP:OD1	2.21	0.41
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
3:D:447:VAL:HG23	3:D:448:GLU:N	2.35	0.41
3:D:1263:PHE:HD2	3:D:1375:MET:HE2	1.84	0.41
3:N:853:VAL:HG22	3:N:858:VAL:HG23	2.01	0.41
2:M:984:GLU:OE1	3:N:945:SER:HA	2.20	0.41
1:A:150:TYR:HB3	8:A:460:HOH:O	2.21	0.41
2:M:595:LEU:HD13	2:M:639:GLN:OE1	2.20	0.41
1:K:158:ILE:HD11	8:K:4141:HOH:O	2.20	0.41
2:C:115:LEU:CD2	2:C:373:VAL:HG11	2.50	0.41
3:D:637:LEU:HD11	3:D:642:CYS:N	2.35	0.41
3:N:868:TYR:HB2	3:N:873:LEU:HD13	2.01	0.41
3:N:1058:ARG:NH1	3:N:1058:ARG:HG3	2.30	0.41
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.47	0.41
5:P:371:LEU:O	5:P:375:LEU:HB3	2.21	0.41
2:M:964:LYS:O	2:M:968:LEU:HG	2.20	0.41
3:D:820:GLU:HA	3:D:825:ALA:O	2.20	0.41
3:N:603:LEU:HA	3:N:606:ILE:HG12	2.02	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:1299:PHE:N	3:D:1299:PHE:CD2	2.88	0.41
3:N:1304:LYS:HB3	8:N:9093:HOH:O	2.20	0.41
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.56	0.41
3:N:68:PHE:HA	3:N:71:LYS:NZ	2.34	0.41
1:B:20:TYR:HD1	8:B:319:HOH:O	2.03	0.41
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.50	0.41
2:M:737:LEU:HD22	2:M:742:VAL:O	2.20	0.41
3:N:827:ILE:HG23	3:N:837:GLY:HA3	2.02	0.41
3:D:961:LYS:HG2	3:D:962:GLN:N	2.35	0.41
3:N:1283:ILE:N	3:N:1315:ASP:OD1	2.53	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:94:PRO:HB3	8:O:4372:HOH:O	2.20	0.41
3:N:223:LEU:N	3:N:365:ASP:O	2.51	0.41
2:M:1056:LYS:O	3:N:624:ASP:HB2	2.21	0.41
3:N:1482:ARG:HB2	3:N:1483:PHE:CD1	2.56	0.41
2:C:437:ARG:NH2	2:C:469:THR:HG22	2.36	0.41
3:N:30:GLU:N	8:N:9867:HOH:O	2.52	0.41
3:D:521:PRO:C	3:D:525:ARG:HH11	2.24	0.41
3:N:421:LEU:O	3:N:421:LEU:HD23	2.20	0.41
5:P:156:VAL:HG23	5:P:157:GLU:N	2.36	0.41
4:O:54:LEU:HA	4:O:58:PRO:CG	2.51	0.41
2:M:861:LEU:HD21	2:M:925:TYR:HE2	1.85	0.41
3:D:211:VAL:HG22	3:D:393:ILE:HG23	2.02	0.41
2:M:768:THR:HB	2:M:771:GLU:CB	2.49	0.41
3:N:974:ILE:HG13	3:N:974:ILE:H	1.75	0.41
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.21	0.41
5:P:370:LYS:HD2	5:P:370:LYS:C	2.40	0.41
2:C:569:VAL:HG23	2:C:635:THR:HG22	2.02	0.41
2:C:837:ASP:O	2:C:848:VAL:HG13	2.19	0.41
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.36	0.41
1:A:63:HIS:HA	8:A:326:HOH:O	2.19	0.41
2:M:19:THR:HG22	2:M:19:THR:O	2.20	0.41
2:C:643:VAL:HG12	2:C:644:VAL:O	2.21	0.41
2:C:378:LEU:HG	2:C:382:ILE:HD12	2.03	0.41
2:M:371:LYS:HB2	8:M:1183:HOH:O	2.19	0.41
3:D:156:GLU:HG3	8:D:9239:HOH:O	2.18	0.41
1:L:81:ASN:ND2	1:L:128:HIS:O	2.53	0.41
3:D:1487:VAL:CG1	3:D:1488:ASP:N	2.84	0.41
2:M:874:LEU:O	3:N:1029:ARG:HD2	2.20	0.41
3:N:783:ARG:HH21	3:N:1029:ARG:HG3	1.82	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
2:C:1005:MET:O	2:C:1005:MET:HG3	2.20	0.41
5:F:153:PRO:CG	5:F:154:LYS:H	2.33	0.41
3:D:890:VAL:HG13	3:D:926:LYS:CD	2.50	0.41
1:K:64:GLU:OE2	1:K:76:VAL:HA	2.20	0.41
1:A:227:ASN:HB2	8:A:473:HOH:O	2.18	0.41
2:C:620:LEU:N	2:C:620:LEU:HD13	2.36	0.41
3:N:1076:GLY:O	3:N:1079:LYS:HG3	2.20	0.41
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.19	0.41
3:N:659:LYS:O	3:N:663:GLU:HG3	2.21	0.41
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.41
3:N:10:ILE:HG13	3:N:1434:TRP:CE2	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:404:GLU:HB3	3:N:414:ARG:CZ	2.50	0.41
4:E:29:GLN:CB	4:E:33:HIS:NE2	2.83	0.41
3:D:191:LEU:HD11	8:D:9536:HOH:O	2.19	0.41
2:M:821:GLU:HG2	2:M:822:VAL:N	2.35	0.41
2:M:620:LEU:HG	8:M:1346:HOH:O	2.20	0.41
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.35	0.41
2:C:9:ILE:HD11	2:C:537:LYS:NZ	2.35	0.41
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.51	0.41
1:A:26:GLU:HB2	1:A:194:LYS:HA	2.02	0.41
2:C:679:PHE:CZ	2:C:859:PRO:HD3	2.55	0.41
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.84	0.41
5:P:256:ARG:NE	5:P:260:ILE:HD12	2.35	0.41
3:D:1171:VAL:O	3:D:1175:ILE:HG13	2.21	0.41
3:N:875:THR:HG22	3:N:879:ARG:HB2	2.03	0.41
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.55	0.41
2:M:832:LYS:HD2	8:M:1460:HOH:O	2.21	0.41
2:C:267:TYR:N	2:C:267:TYR:CD2	2.88	0.41
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.55	0.41
2:C:69:LEU:HD12	2:C:97:ARG:HB3	2.02	0.41
5:P:392:VAL:HG12	5:P:396:ARG:HB2	2.02	0.41
2:C:451:LEU:H	2:C:451:LEU:HD12	1.86	0.41
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.51	0.41
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.33	0.41
3:N:770:LEU:HD12	3:N:775:GLY:O	2.21	0.41
2:C:198:ARG:CZ	2:C:228:ALA:O	2.68	0.41
2:C:571:LEU:C	2:C:573:ARG:H	2.22	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:M:1024:LYS:HG3	8:M:1569:HOH:O	2.21	0.41
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.52	0.41
2:C:925:TYR:C	2:C:925:TYR:CD1	2.94	0.41
3:N:592:THR:HA	8:N:9104:HOH:O	2.20	0.41
2:C:658:GLY:N	2:C:661:SER:OG	2.54	0.41
2:C:224:GLU:OE1	2:C:226:VAL:HG12	2.20	0.41
5:F:324:GLU:HA	8:F:663:HOH:O	2.19	0.41
2:C:425:PHE:O	2:C:429:ASP:OD2	2.39	0.41
2:C:335:THR:HG23	2:C:461:VAL:HG11	2.03	0.41
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.86	0.41
3:N:42:ASP:O	3:N:49:ILE:HD12	2.21	0.41
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.50	0.41
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.50	0.41
3:D:786:ILE:HG22	3:D:1026:SER:HB2	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:262:VAL:O	5:P:265:VAL:HB	2.21	0.41
3:D:13:ALA:O	3:D:511:TRP:HB3	2.21	0.41
3:N:565:ILE:HD12	3:N:565:ILE:N	2.20	0.41
2:C:163:ILE:HG13	2:C:171:TRP:CH2	2.55	0.41
3:N:171:LEU:HD11	3:N:388:HIS:CB	2.50	0.41
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.78	0.41
1:A:29:GLU:HB3	1:A:30:ARG:H	1.70	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
2:C:557:ARG:CZ	2:C:879:ARG:HG2	2.50	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:817:GLU:HB2	3:D:839:LEU:HD13	2.01	0.41
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.21	0.41
2:M:205:GLU:OE1	2:M:206:THR:N	2.53	0.41
4:E:46:PRO:HD3	8:E:180:HOH:O	2.20	0.41
2:C:697:ARG:O	2:C:699:PHE:N	2.53	0.41
2:C:299:LYS:HD2	8:C:1273:HOH:O	2.20	0.41
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.56	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:M:601:GLY:HA3	2:M:615:TYR:HA	2.01	0.41
3:N:169:TYR:HA	3:N:392:SER:CB	2.50	0.41
3:N:786:ILE:HD12	3:N:1028:ALA:N	2.35	0.41
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.21	0.41
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.55	0.41
2:C:525:SER:O	2:C:529:VAL:HG23	2.19	0.41
3:N:151:GLN:HB2	3:N:151:GLN:HE21	1.77	0.41
5:F:244:ARG:NH1	5:F:244:ARG:HG3	2.35	0.41
8:M:1645:HOH:O	3:N:940:THR:HG23	2.21	0.41
3:D:1423:GLY:HA2	8:D:9248:HOH:O	2.19	0.41
3:D:1063:GLU:HG3	8:D:9502: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
2:M:327:HIS:O	2:M:330:ASN:HB2	2.20	0.41
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.55	0.41
2:M:1054:THR:HB	2:M:1055:LEU:H	1.57	0.41
2:C:365:ASP:O	2:C:367:LEU:N	2.54	0.41
2:C:332:ARG:CB	2:C:332:ARG:HH11	2.15	0.41
2:C:207:LEU:HD13	2:C:221:LEU:HD13	2.03	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.50	0.41
4:O:31:LEU:HD23	4:O:35:PHE:CD1	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:394:ARG:HA	5:P:397:ILE:CD1	2.37	0.41
3:N:131:LYS:HZ3	3:N:568:ARG:HB2	1.86	0.41
3:D:1274:ILE:CD1	3:D:1334:GLN:HB3	2.50	0.41
2:M:139:GLN:HE21	2:M:334:ARG:NH1	2.03	0.41
3:D:397:LYS:HE2	3:D:399:ARG:NE	2.23	0.41
2:M:383:ARG:NH2	8:M:1405:HOH:O	2.54	0.41
5:F:133:ALA:O	5:F:137:GLY:O	2.38	0.41
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.39	0.41
2:C:710:ILE:HG12	2:C:758:ARG:HE	1.86	0.41
3:D:1262:LEU:HD23	3:D:1352:ILE:HA	2.02	0.41
2:M:549:PHE:HE2	2:M:887:GLU:N	2.18	0.41
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.52	0.41
2:M:305:PRO:HG3	2:M:308:ARG:CZ	2.51	0.41
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.50	0.41
1:A:178:ALA:HB3	1:A:198:ARG:HD3	2.03	0.41
1:L:100:LEU:HD12	1:L:115:LEU:HD11	2.03	0.41
3:N:1485:GLN:HG2	3:N:1485:GLN:H	1.69	0.41
1:K:97:VAL:HG12	1:K:99:LEU:HD12	2.01	0.41
1:L:95:GLN:N	1:L:95:GLN:HE21	2.12	0.41
2:C:162:ILE:CB	2:C:172:ILE:HD13	2.49	0.41
2:C:865:THR:HA	2:C:866:PRO:HD3	1.87	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
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.36	0.41
2:M:473:ARG:HE	2:M:531:PHE:HE1	1.67	0.41
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.35	0.41
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.85	0.41
1:K:109:VAL:O	1:K:129:ILE:HG12	2.21	0.41
3:N:1422:MET:CE	3:N:1426:LYS:HG3	2.50	0.41
3:D:86:ARG:HG3	3:D:86:ARG:O	2.20	0.41
5:F:329:TYR:HE1	8:F:541:HOH:O	2.02	0.41
3:N:500:ARG:HH22	3:N:1388:ARG:HD3	1.85	0.41
5:F:113:ILE:O	5:F:116:LEU:HB2	2.21	0.41
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.50	0.41
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.36	0.41
2:M:671:ASN:N	2:M:671:ASN:ND2	2.69	0.41
2:M:983:ILE:O	2:M:984:GLU:C	2.59	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.74	0.41
2:C:460:ARG:HD2	2:C:485:TYR:CD2	2.56	0.41
2:C:30:LEU:HB3	2:C:44:ILE:CD1	2.44	0.41
3:D:8:VAL:O	3:D:1434:TRP:HH2	2.04	0.41
3:D:842:VAL:C	8:D:9557:HOH:O	2.59	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:105:GLY:HA2	8:L:3583:HOH:O	2.19	0.41
3:N:783:ARG:CZ	3:N:783:ARG:HB3	2.50	0.41
3:N:1310:ARG:H	3:N:1310:ARG:HG2	1.61	0.41
2:M:612:VAL:HG22	2:M:622:GLU:HG3	2.03	0.41
1:L:51:THR:HG22	1:L:89:PHE:CZ	2.56	0.41
1:K:197:LEU:N	1:K:197:LEU:HD23	2.33	0.41
5:P:142:ARG:H	5:P:142:ARG:HG2	1.63	0.41
5:F:421:PHE:C	5:F:423:ASP:N	2.72	0.41
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.21	0.41
3:D:1467:ILE:HD12	3:D:1467:ILE:H	1.86	0.41
3:D:639:LEU:HD22	3:D:766:ALA:CA	2.50	0.41
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.55	0.41
1:B:9:PRO:HB3	1:B:25:LEU:HG	2.03	0.41
5:P:303:ARG:NH2	8:P:3667:HOH:O	2.52	0.41
1:K:85:LEU:HB2	1:K:127:LEU:HD21	2.01	0.41
3:D:1136:LYS:HE3	3:D:1139:ASP:OD2	2.21	0.41
2:M:86:LYS:HG3	2:M:813:VAL:HG12	2.03	0.41
3:D:587:ARG:HG2	8:D:9367:HOH:O	2.21	0.41
2:C:952:LEU:HB3	2:C:966:LEU:HD11	2.02	0.41
2:M:425:PHE:HZ	3:N:1079:LYS:HB2	1.86	0.41
3:D:893:GLU:O	3:D:896:ALA:HB3	2.21	0.41
2:C:123:GLU:HA	8:C:1818:HOH:O	2.21	0.41
2:M:1013:TYR:HB2	5:P:335:ASP:OD2	2.21	0.41
2:C:592:LEU:HA	2:C:592:LEU:HD23	1.91	0.41
2:C:25:SER:OG	2:C:337:GLY:N	2.50	0.41
5:F:192:LEU:O	5:F:192:LEU:HD23	2.21	0.41
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.20	0.41
3:D:907:GLU:N	3:D:910:SER:OG	2.53	0.41
3:D:143:ASN:ND2	3:D:145:VAL:HG12	2.18	0.41
5:F:292:ALA:HB1	5:F:299:TRP:O	2.21	0.41
2:C:860:HIS:N	8:C:1448:HOH:O	2.42	0.41
5:P:140:ARG:O	5:P:144:ILE:HG13	2.20	0.41
2:M:253:ALA:O	2:M:256:TYR:HB2	2.21	0.41
2:M:910:LYS:NZ	8:M:1254:HOH:O	2.51	0.41
3:N:820:GLU:HB2	3:N:836:VAL:HG11	2.01	0.41
3:N:704:ARG:HD3	3:N:738:ALA:HB2	2.03	0.41
2:C:873:PRO:HG2	3:D:947:ILE:O	2.20	0.41
2:M:575:GLN:HA	2:M:662:GLU:CD	2.41	0.41
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.21	0.41
1:B:72:LYS:HB3	1:B:131:THR:OG1	2.21	0.41
3:N:206:ARG:O	3:N:206:ARG:HD3	2.19	0.41
3:D:1472:ILE:HG22	3:D:1474:ALA:N	2.35	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:372:ARG:HA	8:P:4564:HOH:O	2.20	0.41
2:C:1109:VAL:CG2	3:D:3:LYS:HG2	2.49	0.41
3:N:960:LYS:O	3:N:964:LEU:HD12	2.20	0.41
2:M:137:VAL:HG22	2:M:391:LEU:O	2.20	0.41
3:N:36:THR:O	3:N:38:LYS:N	2.51	0.41
2:M:964:LYS:HD3	8:M:1484:HOH:O	2.20	0.41
5:P:421:PHE:C	5:P:423:ASP:N	2.73	0.41
1:L:51:THR:HG23	8:L:4444:HOH:O	2.20	0.41
2:M:899:GLN:HG3	2:M:901:TYR:OH	2.21	0.41
4:O:5:GLY:HA2	8:O:3467:HOH:O	2.20	0.41
3:D:965:GLU:HA	3:D:968:ASP:OD2	2.21	0.41
3:N:826:PRO:HD2	3:N:829:VAL:HG13	2.03	0.41
3:D:729:HIS:ND1	3:D:730:PRO:N	2.68	0.41
3:D:794:GLN:HB3	3:D:794:GLN:HE21	1.50	0.41
2:C:34:VAL:HA	2:C:35:PRO:HD3	1.96	0.41
3:D:761:ILE:HD13	4:E:20:THR:HA	2.02	0.41
2:M:87:ASP:HA	8:M:1593:HOH:O	2.20	0.41
5:F:95:THR:HG22	5:F:96:LEU:HD23	2.03	0.41
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.97	0.41
2:C:416:GLY:HA3	8:C:1572:HOH:O	2.21	0.41
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.89	0.41
3:N:1068:LEU:O	3:N:1069:GLU:C	2.59	0.41
2:C:366:SER:O	2:C:371:LYS:HE3	2.20	0.41
2:M:1087:VAL:HG23	3:N:524:LEU:HD21	2.03	0.41
3:N:1168:MET:HE3	3:N:1171:VAL:HB	2.02	0.41
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.19	0.41
3:D:569:ASN:O	3:D:573:MET:SD	2.78	0.41
5:F:84:TYR:O	5:F:88:ILE:HG13	2.20	0.41
2:M:134:ARG:HE	2:M:393:GLN:C	2.23	0.41
2:M:769:PRO:HB2	3:N:65:ARG:NH1	2.36	0.41
3:N:443:VAL:HG12	3:N:445:ARG:HD2	2.02	0.41
3:N:212:ARG:HD3	3:N:445:ARG:NH1	2.24	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.03	0.41
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.50	0.41
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.86	0.41
5:P:261:PRO:HA	8:P:3364:HOH:O	2.20	0.41
2:M:144:PRO:HB2	2:M:267:TYR:HE1	1.86	0.41
2:M:975:TYR:CD1	2:M:975:TYR:N	2.88	0.41
2:M:682:TYR:HB3	2:M:689:VAL:HG22	2.02	0.41
3:D:667:ALA:HB2	3:D:676:MET:CE	2.38	0.41
2:M:772:ARG:HG3	2:M:773:LEU:N	2.36	0.41
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.67	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:367:MET:SD	5:P:367:MET:N	2.94	0.41
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.50	0.41
2:C:895:TYR:HD1	2:C:991:GLN:NE2	2.16	0.41
5:F:109:GLY:O	5:F:113:ILE:HG13	2.21	0.41
3:N:701:LEU:C	3:N:702:LEU:HD12	2.41	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
2:C:881:ASN:ND2	8:C:1494:HOH:O	2.41	0.41
3:D:1352:ILE:HG21	3:D:1368:ILE:CG2	2.48	0.41
3:D:1353:GLN:OE1	3:D:1368:ILE:HD11	2.21	0.41
3:D:1365:ASP:O	3:D:1368:ILE:HG13	2.21	0.41
3:N:948:THR:HG22	3:N:949:ILE:N	2.27	0.41
1:A:79:ILE:O	1:A:83:LYS:HG3	2.20	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:827:ILE:HB	3:D:828:LYS:HD3	2.01	0.41
3:N:1380:GLU:HB3	3:N:1418:LYS:HB2	2.02	0.41
3:D:470:LEU:HD22	3:D:499:VAL:HG13	2.01	0.41
3:N:891:GLU:N	8:N:9462:HOH:O	2.54	0.41
3:D:65:ARG:CG	3:D:66:GLN:H	2.24	0.41
3:N:1223:ILE:O	3:N:1224:VAL:C	2.60	0.41
2:M:446:GLY:O	2:M:447:ALA:C	2.58	0.41
3:D:1300:SER:HB3	8:D:9222:HOH:O	2.20	0.41
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.21	0.41
2:M:833:LEU:CD1	2:M:837:ASP:HB2	2.51	0.41
2:C:166:PRO:HD3	2:C:265:ARG:NE	2.33	0.41
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	2.03	0.41
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.56	0.41
3:D:999:THR:O	3:D:1003:VAL:HG13	2.21	0.41
3:N:112:ILE:O	3:N:116:LEU:HB2	2.21	0.41
1:K:100:LEU:HD12	8:K:3405:HOH:O	2.20	0.41
2:C:1101:THR:OG1	2:C:1109:VAL:HG12	2.21	0.41
3:D:710:ARG:NE	8:D:9123:HOH:O	2.54	0.41
1:K:101:LEU:HG	1:K:113:ASP:C	2.40	0.41
2:C:325:ILE:HA	8:C:1441:HOH:O	2.21	0.41
3:N:33:ASN:O	3:N:36:THR:O	2.39	0.41
2:M:340:MET:SD	2:M:344:PHE:HB2	2.61	0.41
2:M:1109:VAL:CG1	3:N:5:VAL:HG22	2.51	0.41
3:N:243:ALA:HB3	8:N:9487:HOH:O	2.20	0.41
2:M:353:ARG:HB2	2:M:353:ARG:HE	1.66	0.41
2:M:807:ARG:HB3	8:M:1400:HOH:O	2.21	0.41
5:F:352:GLU:O	5:F:356:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1097:LEU:HD22	2:M:1097:LEU:N	2.35	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
3:D:631:ILE:HG21	3:D:745:MET:CG	2.51	0.41
8:B:347:HOH:O	3:D:688:TRP:HB3	2.19	0.41
2:C:919:ALA:HA	8:C:1456:HOH:O	2.19	0.41
3:N:774:SER:HB3	3:N:1362:LYS:O	2.21	0.41
3:N:1330:ILE:HD13	3:N:1347:TYR:OH	2.21	0.41
3:D:762:GLN:HE21	4:E:20:THR:CB	2.33	0.41
2:M:1118:LYS:HA	3:N:23:TYR:OH	2.21	0.41
1:K:132:LEU:HD12	1:K:132:LEU:N	2.36	0.41
2:M:556:ASN:O	2:M:559:LEU:HB3	2.21	0.41
2:M:593:ALA:HB2	8:M:1744:HOH:O	2.20	0.41
4:E:70:THR:HG21	4:E:72:ARG:NH2	2.36	0.41
5:F:96:LEU:HB2	5:F:97:GLU:OE2	2.21	0.41
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.21	0.41
3:N:881:LEU:O	3:N:881:LEU:HD12	2.21	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.93	0.41
3:D:463:GLN:O	3:D:467:GLU:HG3	2.21	0.41
3:D:1110:ALA:O	3:D:1111:ASP:C	2.60	0.41
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.20	0.41
3:N:110:SER:OG	3:N:113:GLY:N	2.51	0.41
2:M:116:GLY:N	8:M:1773:HOH:O	2.54	0.41
3:D:114:THR:HG21	3:D:498:VAL:HG11	2.01	0.41
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.20	0.41
3:D:411:THR:HG23	8:D:9458:HOH:O	2.20	0.41
2:M:261:ILE:HG22	2:M:262:ALA:N	2.36	0.41
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.45	0.41
2:C:328:LEU:H	2:C:433:THR:HG21	1.86	0.41
5:F:192:LEU:O	5:F:196:VAL:HG23	2.21	0.41
2:C:308:ARG:HH11	2:C:308:ARG:HG2	1.85	0.41
2:C:474:VAL:HG23	2:C:478:VAL:O	2.21	0.41
4:O:49:GLN:HA	4:O:51:LEU:O	2.21	0.41
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.51	0.41
3:D:393:ILE:N	3:D:393:ILE:HD12	2.32	0.41
3:D:135:LEU:HD11	3:D:139:GLY:HA3	2.02	0.41
2:C:1092:LEU:HD22	2:C:1099:VAL:CG2	2.51	0.41
3:N:1301:LYS:HD2	3:N:1301:LYS:HA	1.89	0.41
3:D:1272:ALA:CB	3:D:1326:THR:HB	2.51	0.41
3:D:804:LEU:N	8:D:9497:HOH:O	2.53	0.41
2:M:755:LEU:HD11	2:M:792:VAL:HG22	2.03	0.41
2:C:885:ILE:HD12	3:D:949:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1208:ASP:HB3	8:D:2063:HOH:O	2.21	0.41
2:C:313:LEU:HB2	2:C:321:GLU:HG3	2.03	0.41
2:M:401:LEU:HD21	2:M:565:GLN:HE21	1.86	0.41
2:C:137:VAL:O	2:C:391:LEU:HD11	2.21	0.41
5:F:160:ASP:O	5:F:163:LEU:HB2	2.22	0.41
2:C:41:ASN:N	2:C:41:ASN:ND2	2.57	0.41
2:M:304:LEU:HG	2:M:305:PRO:N	2.36	0.41
1:K:150:TYR:HA	1:K:169:ALA:O	2.21	0.41
3:D:1342:GLU:HA	3:D:1346:ARG:NH2	2.36	0.41
3:D:1480:PHE:HD1	3:D:1480:PHE:O	2.02	0.41
3:N:1173:LEU:HA	8:N:9311:HOH:O	2.21	0.41
2:C:759:THR:HB	2:C:785:VAL:CG2	2.50	0.41
1:K:100:LEU:O	1:K:115:LEU:HG	2.21	0.41
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.98	0.41
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.86	0.41
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.20	0.41
2:C:1037:VAL:O	2:C:1041:GLU:HG3	2.20	0.41
2:M:525:SER:O	2:M:529:VAL:HG23	2.21	0.41
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.51	0.41
3:D:120:ALA:HA	8:D:9188:HOH:O	2.20	0.41
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.51	0.41
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.21	0.41
2:M:592:LEU:HA	2:M:592:LEU:HD23	1.85	0.41
1:L:150:TYR:HA	1:L:169:ALA:O	2.21	0.41
3:N:501:ALA:HA	3:N:504:ASP:HB2	2.03	0.41
3:D:1133:ARG:HG2	3:D:1134:LEU:N	2.35	0.41
1:A:95:GLN:CG	1:A:146:ARG:HH22	2.19	0.40
2:C:124:ASP:OD1	2:C:126:SER:N	2.48	0.40
3:N:1426:LYS:NZ	3:N:1430:SER:OG	2.54	0.40
2:M:1115:LEU:CD1	2:M:1115:LEU:N	2.78	0.40
2:C:1018:GLN:HE21	2:C:1060:ILE:CD1	2.34	0.40
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.18	0.40
3:N:122:GLU:OE1	3:N:126:VAL:HG23	2.21	0.40
3:N:558:LEU:HB2	8:N:9625:HOH:O	2.21	0.40
3:D:1330:ILE:HD12	3:D:1347:TYR:HE1	1.86	0.40
5:F:272:SER:O	5:F:276:ARG:HG3	2.21	0.40
2:M:415:PRO:HB2	2:M:418:LEU:CD1	2.52	0.40
3:D:613:ARG:HA	3:D:613:ARG:HD2	1.83	0.40
2:M:753:ASP:O	2:M:792:VAL:HG23	2.20	0.40
3:D:1068:LEU:O	3:D:1068:LEU:HD23	2.21	0.40
5:F:115:LYS:HG3	5:F:173:TYR:CE2	2.56	0.40
2:M:575:GLN:HG2	2:M:662:GLU:OE2	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:988:ARG:O	3:D:992:ILE:HG13	2.20	0.40
2:M:299:LYS:HG3	8:M:1137:HOH:O	2.21	0.40
3:N:1209:LEU:C	3:N:1211:MET:N	2.75	0.40
2:C:897:LEU:HD21	2:C:920:GLN:HB3	2.02	0.40
1:B:55:SER:OG	1:B:158:ILE:HB	2.21	0.40
3:N:866:VAL:CG1	3:N:867:ARG:N	2.84	0.40
2:M:510:ALA:CB	8:M:1203:HOH:O	2.67	0.40
2:C:722:ILE:HD12	2:C:805:ARG:NH2	2.36	0.40
1:L:152:PRO:HD2	1:L:155:LYS:CD	2.47	0.40
2:C:13:ILE:HG13	2:C:458:TYR:HE2	1.86	0.40
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.87	0.40
1:L:145:ASP:O	1:L:171:PHE:HE1	2.05	0.40
3:D:1047:LYS:HE3	3:D:1051:GLU:HB2	2.03	0.40
2:M:1043:TYR:HA	3:N:710:ARG:NH1	2.35	0.40
2:M:133:ASP:OD2	2:M:133:ASP:N	2.54	0.40
3:D:900:ILE:O	3:D:900:ILE:HD12	2.21	0.40
2:M:419:THR:HA	2:M:420:ARG:NH1	2.35	0.40
1:B:106:PRO:HG3	1:B:133:GLU:O	2.22	0.40
3:N:650:LEU:CD1	3:N:691:LEU:HD22	2.51	0.40
5:F:339:PRO:HB3	5:F:343:ASP:HB2	2.02	0.40
3:D:936:TYR:HD1	8:D:9501:HOH:O	2.03	0.40
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.85	0.40
2:M:920:GLN:HG3	8:M:1705:HOH:O	2.21	0.40
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.40
3:N:1480:PHE:O	4:O:18:ARG:NH2	2.55	0.40
2:C:367:LEU:CA	2:C:371:LYS:HB2	2.52	0.40
3:D:592:THR:H	3:D:600:LEU:HD21	1.86	0.40
2:C:707:ARG:O	2:C:707:ARG:HG2	2.20	0.40
2:M:1049:LEU:HG	2:M:1053:LEU:CD1	2.51	0.40
3:N:432:TYR:HA	3:N:448:GLU:O	2.22	0.40
8:M:1148:HOH:O	5:P:276:ARG:HD3	2.19	0.40
3:D:118:LEU:CB	3:D:123:LEU:HD22	2.38	0.40
2:M:250:ARG:HG2	2:M:253:ALA:CB	2.46	0.40
2:M:904:PRO:HG3	8:M:1508:HOH:O	2.21	0.40
3:N:1280:VAL:HG13	3:N:1316:GLY:O	2.21	0.40
1:L:180:GLN:HB2	1:L:198:ARG:NH2	2.22	0.40
3:D:613:ARG:HG3	8:D:9002:HOH:O	2.21	0.40
2:C:536:PRO:HD2	2:C:537:LYS:HD2	2.03	0.40
5:P:361:LEU:HD13	5:P:366:ALA:HB1	2.03	0.40
2:C:668:LEU:O	2:C:993:PHE:CZ	2.74	0.40
5:F:124:PRO:O	5:F:128:ARG:HB2	2.21	0.40
2:C:987:ILE:N	2:C:987:ILE:HD12	2.36	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:971:LYS:HB3	2:C:988:VAL:N	2.36	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
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.44	0.40
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.84	0.40
3:D:637:LEU:HD21	3:D:642:CYS:CA	2.47	0.40
2:M:602:GLU:HG2	2:M:603:VAL:H	1.86	0.40
5:F:278:LEU:HB2	5:F:286:PRO:HG2	2.02	0.40
1:L:91:ASN:O	1:L:94:LEU:HD12	2.20	0.40
3:D:1047:LYS:HE3	3:D:1051:GLU:O	2.22	0.40
3:N:488:ARG:HH22	3:N:491:LYS:HZ1	1.70	0.40
1:K:59:GLU:HG3	1:K:139:ASN:O	2.21	0.40
2:M:455:LEU:O	2:M:541:SER:HB2	2.21	0.40
5:P:220:LEU:HB2	5:P:243:ILE:HD11	2.03	0.40
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.57	0.40
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.20	0.40
1:L:101:LEU:HG	1:L:113:ASP:O	2.21	0.40
3:N:156:GLU:O	3:N:159:ARG:HB3	2.21	0.40
1:L:211:LEU:O	1:L:214:ALA:HB3	2.21	0.40
1:K:51:THR:HA	1:K:145:ASP:O	2.20	0.40
3:N:138:LYS:HB2	3:N:138:LYS:HE3	1.87	0.40
2:M:1031:ARG:HD3	8:M:1668:HOH:O	2.21	0.40
1:B:39:PRO:O	1:B:43:ILE:HG12	2.21	0.40
3:N:85:VAL:HG12	3:N:89:ARG:CZ	2.51	0.40
3:D:27:GLU:O	3:D:28:LYS:HD2	2.21	0.40
3:D:455:ARG:HH22	5:F:140:ARG:HD3	1.86	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
3:N:951:ILE:HD12	3:N:1062:ARG:NE	2.37	0.40
3:N:608:SER:O	3:N:615:ARG:NH1	2.54	0.40
3:D:105:VAL:HG21	3:D:128:TYR:HE2	1.86	0.40
3:D:884:ARG:O	3:D:888:GLU:N	2.53	0.40
1:K:67:THR:OG1	2:M:627:ARG:NH2	2.53	0.40
3:N:875:THR:CG2	3:N:879:ARG:HE	2.33	0.40
3:D:1293:PHE:HD2	8:D:9222:HOH:O	2.03	0.40
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.51	0.40
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.28	0.40
1:B:218:LEU:O	1:B:222:LEU:HG	2.21	0.40
3:N:861:GLN:H	3:N:861:GLN:CD	2.25	0.40
3:N:868:TYR:HB3	8:N:9527:HOH:O	2.20	0.40
3:N:461:ILE:O	3:N:465:LEU:HB2	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:100:LEU:HB2	1:L:115:LEU:CD2	2.49	0.40
3:N:396:VAL:CG1	3:N:447:VAL:HA	2.52	0.40
5:P:109:GLY:O	5:P:112:ALA:HB3	2.21	0.40
3:D:1320:GLU:HG2	3:D:1339:LYS:NZ	2.36	0.40
3:D:150:ARG:HG2	3:D:150:ARG:O	2.20	0.40
3:D:1167:SER:N	3:D:1170:ASP:OD2	2.48	0.40
3:D:1314:LYS:HZ1	3:D:1317:ASP:CB	2.34	0.40
5:F:312:GLN:NE2	8:F:455:HOH:O	2.48	0.40
2:M:167:LYS:HD2	2:M:168:ARG:NH1	2.35	0.40
2:C:440:PRO:HG2	2:C:441:VAL:HG23	2.02	0.40
1:K:127:LEU:HD12	1:K:127:LEU:C	2.42	0.40
3:D:1497:GLU:OE1	3:D:1500:LYS:HD2	2.21	0.40
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.57	0.40
3:N:1266:ARG:NH2	8:N:9590:HOH:O	2.54	0.40
2:M:621:VAL:HG13	8:M:1199:HOH:O	2.20	0.40
4:O:59:ASN:HB3	4:O:62:THR:OG1	2.22	0.40
5:P:249:ARG:NH2	8:P:2663:HOH:O	2.52	0.40
2:C:1001:VAL:HG23	8:C:1823:HOH:O	2.21	0.40
3:D:646:LYS:HD3	8:D:2059:HOH:O	2.22	0.40
2:C:75:GLU:HA	2:C:76:PRO:HD3	1.89	0.40
2:C:367:LEU:HA	2:C:371:LYS:HB2	2.02	0.40
2:C:329:GLY:HA3	8:C:1467:HOH:O	2.21	0.40
5:F:359:SER:C	5:F:361:LEU:H	2.23	0.40
2:C:150:PRO:HB2	8:C:1325:HOH:O	2.21	0.40
3:D:500:ARG:HD3	3:D:500:ARG:HA	1.86	0.40
3:N:474:GLU:OE1	3:N:500:ARG:NE	2.54	0.40
2:C:730:SER:N	8:C:1699:HOH:O	2.54	0.40
3:D:191:LEU:HB2	3:D:211:VAL:CG2	2.51	0.40
1:B:180:GLN:HG3	1:B:196:THR:OG1	2.21	0.40
2:M:908:GLY:C	2:M:910:LYS:HZ3	2.24	0.40
2:M:614:ARG:HG2	8:M:1443:HOH:O	2.20	0.40
3:N:970:LYS:O	3:N:974:ILE:HG13	2.21	0.40
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.51	0.40
2:M:666:LEU:HD12	2:M:667:ALA:N	2.35	0.40
3:N:951:ILE:HD12	3:N:1062:ARG:HE	1.85	0.40
2:M:507:ARG:NH1	8:M:1728:HOH:O	2.53	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
4:E:57:ASP:N	4:E:58:PRO:HD3	2.37	0.40
1:B:54:THR:CG2	1:B:158:ILE:HG13	2.50	0.40
2:M:478:VAL:HG13	2:M:506:ASN:ND2	2.36	0.40
3:N:1103:HIS:CG	3:N:1104:GLU:N	2.90	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:225:GLU:OE1	5:F:226:LYS:HG2	2.21	0.40
1:B:123:MET:O	1:B:125:PRO:HD3	2.21	0.40
2:C:432:ARG:NE	2:C:519:GLY:HA3	2.37	0.40
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.21	0.40
3:N:99:ALA:HB1	3:N:575:GLN:CD	2.42	0.40
3:D:639:LEU:CD1	3:D:640:HIS:H	2.35	0.40
5:P:401:GLU:O	5:P:405:LEU:HD13	2.21	0.40
2:C:251:ASP:C	2:C:252:LYS:HD2	2.42	0.40
2:M:496:ILE:HD12	2:M:496:ILE:N	2.36	0.40
3:N:774:SER:C	3:N:776:GLU:N	2.75	0.40
5:F:325:LYS:HB2	8:F:519:HOH:O	2.22	0.40
2:M:724:ARG:O	2:M:734:LEU:HD11	2.22	0.40
2:M:331:ARG:HG3	8:M:1502:HOH:O	2.22	0.40
3:N:159:ARG:NH1	3:N:159:ARG:HB2	2.36	0.40
3:D:53:ILE:O	3:D:53:ILE:HG12	2.22	0.40
2:C:871:LEU:HA	2:C:871:LEU:HD23	1.79	0.40
3:D:755:ALA:HA	3:D:758:GLU:OE2	2.21	0.40
1:L:44:LEU:O	1:L:174:VAL:HG21	2.20	0.40
3:D:216:VAL:HG11	8:D:9324:HOH:O	2.22	0.40
2:M:1008:ARG:NH2	2:M:1020:PRO:HB3	2.37	0.40
3:N:1422:MET:HE1	3:N:1426:LYS:HG3	2.02	0.40
3:D:570:GLU:OE2	3:D:573:MET:HE2	2.22	0.40
1:B:150:TYR:HA	1:B:169:ALA:O	2.21	0.40
3:D:101:HIS:CE1	3:D:582:LEU:HD22	2.57	0.40
1:K:26:GLU:HB2	1:K:27:PRO:HA	2.04	0.40
3:D:135:LEU:HD21	3:D:138:LYS:C	2.42	0.40
5:P:315:VAL:HA	8:P:4638:HOH:O	2.21	0.40
3:D:602:SER:O	3:D:606:ILE:HG12	2.22	0.40
3:N:14:SER:O	3:N:17:LYS:N	2.54	0.40
1:A:111:ALA:HB3	1:A:124:ASN:O	2.21	0.40
2:C:693:GLU:OE1	2:C:696:LYS:HG3	2.22	0.40
2:M:211:LEU:HD21	2:M:311:PHE:HE1	1.87	0.40
1:B:61:VAL:HG11	1:B:75:VAL:HG21	2.03	0.40
3:N:789:LEU:HA	3:N:789:LEU:HD23	1.84	0.40
1:B:117:VAL:HG11	8:B:346:HOH:O	2.21	0.40
3:N:960:LYS:HG2	3:N:964:LEU:HD12	2.04	0.40
2:M:513:VAL:HG12	8:M:1272:HOH:O	2.21	0.40
5:F:421:PHE:C	5:F:423:ASP:H	2.25	0.40
3:D:1320:GLU:HG3	8:D:9376:HOH:O	2.20	0.40
2:C:585:GLU:HG2	2:C:665:PHE:HD2	1.87	0.40
3:N:1102:THR:O	3:N:1102:THR:HG22	2.21	0.40
1:K:64:GLU:OE2	1:K:76:VAL:HG22	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:57:TYR:CD2	1:K:161:ARG:NH1	2.90	0.40
3:D:417:PRO:HB2	8:D:9616:HOH:O	2.21	0.40
2:C:966:LEU:HD12	2:C:966:LEU:HA	1.96	0.40
2:M:480:THR:HG22	2:M:481:ASP:H	1.86	0.40
5:P:348:SER:N	8:P:4815:HOH:O	2.53	0.40
3:D:1161:GLU:HG2	3:D:1161:GLU:H	1.67	0.40
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	202 (89%)	21 (9%)	4 (2%)	13	39
1	B	227/315 (72%)	202 (89%)	21 (9%)	4 (2%)	13	39
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	13	39
1	L	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	13	39
2	C	1117/1119 (100%)	917 (82%)	150 (13%)	50 (4%)	4	12
2	M	1117/1119 (100%)	907 (81%)	159 (14%)	51 (5%)	4	11
3	D	1388/1524 (91%)	1123 (81%)	191 (14%)	74 (5%)	3	9
3	N	1388/1524 (91%)	1110 (80%)	195 (14%)	83 (6%)	2	6
4	E	93/99 (94%)	74 (80%)	16 (17%)	3 (3%)	6	20
4	O	93/99 (94%)	75 (81%)	15 (16%)	3 (3%)	6	20
5	F	341/423 (81%)	283 (83%)	42 (12%)	16 (5%)	4	11
5	P	341/423 (81%)	285 (84%)	40 (12%)	16 (5%)	4	11
All	All	6786/7590 (89%)	5582 (82%)	892 (13%)	312 (5%)	4	11

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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	2
1	B	202/273 (74%)	163 (81%)	39 (19%)	2	6
1	K	202/273 (74%)	152 (75%)	50 (25%)	1	2
1	L	202/273 (74%)	158 (78%)	44 (22%)	1	4
2	C	941/941 (100%)	734 (78%)	207 (22%)	1	4
2	M	941/941 (100%)	730 (78%)	211 (22%)	1	4
3	D	1123/1279 (88%)	846 (75%)	277 (25%)	1	2
3	N	1123/1279 (88%)	866 (77%)	257 (23%)	1	3
4	E	83/87 (95%)	58 (70%)	25 (30%)	0	1
4	O	83/87 (95%)	64 (77%)	19 (23%)	1	3
5	F	295/370 (80%)	228 (77%)	67 (23%)	1	3
5	P	295/370 (80%)	249 (84%)	46 (16%)	4	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	5692/6446 (88%)	4395 (77%)	1297 (23%)	1 3

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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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
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

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Mol	Chain	Res	Type
2	C	991	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	66	GLN
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

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Mol	Chain	Res	Type
5	F	337	HIS
5	F	399	GLN
5	F	402	ASN
1	K	16	GLN
1	K	63	HIS
1	K	81	ASN
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

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Mol	Chain	Res	Type
2	M	860	HIS
2	M	872	ASN
2	M	881	ASN
2	M	889	HIS
2	M	920	GLN
2	M	969	GLN
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

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Mol	Chain	Res	Type
3	N	1441	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
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 chains 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.

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, 95th 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 ²)	Q<0.9
1	A	229/315 (72%)	-0.30	0 100 100	38, 65, 92, 117	0
1	B	229/315 (72%)	-0.18	11 (4%) 29 30	53, 95, 115, 121	0
1	K	229/315 (72%)	-0.29	0 100 100	41, 66, 93, 122	0
1	L	229/315 (72%)	-0.31	7 (3%) 47 47	52, 94, 114, 127	0
2	C	1119/1119 (100%)	-0.27	12 (1%) 77 78	23, 81, 110, 119	0
2	M	1119/1119 (100%)	-0.31	7 (0%) 86 88	27, 79, 109, 122	0
3	D	1392/1524 (91%)	-0.24	22 (1%) 68 69	17, 68, 113, 130	0
3	N	1392/1524 (91%)	-0.27	18 (1%) 74 75	27, 69, 110, 138	0
4	E	95/99 (95%)	-0.27	0 100 100	47, 85, 115, 133	0
4	O	95/99 (95%)	-0.42	1 (1%) 77 78	40, 76, 97, 111	0
5	F	345/423 (81%)	-0.33	4 (1%) 75 76	46, 84, 112, 131	0
5	P	345/423 (81%)	-0.32	7 (2%) 62 63	54, 87, 112, 125	0
All	All	6818/7590 (89%)	-0.28	89 (1%) 74 75	17, 77, 111, 138	0

All (89) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	130	ALA	5.6
3	N	1243	THR	5.1
2	C	307	LEU	5.0
3	D	1240	THR	4.9
3	N	1248	GLY	4.8
3	D	1243	THR	4.8
5	F	145	PRO	4.8
1	L	6	LEU	4.4
3	D	1244	GLY	4.1
2	C	92	ALA	3.9
3	N	1249	ALA	3.8

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Mol	Chain	Res	Type	RSRZ
5	P	365	GLU	3.7
3	N	1242	HIS	3.7
3	N	802	ALA	3.7
1	L	109	VAL	3.6
1	B	109	VAL	3.5
4	O	2	ALA	3.4
5	F	144	ILE	3.4
1	L	1	MET	3.3
2	C	372	LEU	3.2
1	B	118	ALA	3.2
2	M	372	LEU	3.1
2	M	306	THR	3.1
1	B	5	LYS	3.1
3	N	533	GLY	3.1
3	D	128	TYR	3.0
2	C	152	PRO	3.0
2	M	307	LEU	2.9
1	B	6	LEU	2.9
5	P	369	LEU	2.9
2	M	101	ILE	2.9
2	M	281	LEU	2.9
3	D	439	LEU	2.9
3	N	179	VAL	2.9
3	N	1246	VAL	2.9
2	C	819	VAL	2.8
3	N	1240	THR	2.8
2	C	311	PHE	2.8
5	P	378	GLY	2.8
5	P	145	PRO	2.8
5	P	357	ALA	2.7
3	N	1398	TRP	2.7
2	C	281	LEU	2.7
3	N	381	ALA	2.7
2	C	153	ALA	2.7
3	D	238	PRO	2.6
1	B	61	VAL	2.6
3	N	165	LYS	2.5
3	N	394	LEU	2.5
1	B	120	VAL	2.5
2	M	359	MET	2.5
5	F	93	LEU	2.5
3	N	205	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	82	LEU	2.4
3	D	446	VAL	2.4
3	D	127	LEU	2.4
2	C	479	VAL	2.4
3	D	177	ALA	2.3
5	F	386	VAL	2.3
3	N	425	GLY	2.3
3	N	242	LEU	2.3
3	D	1245	GLY	2.2
1	B	70	GLY	2.2
5	P	385	GLU	2.2
3	D	1305	LEU	2.2
3	D	505	SER	2.2
3	N	1238	MET	2.2
3	D	228	ALA	2.2
5	P	139	ALA	2.2
2	C	38	LYS	2.2
2	M	105	THR	2.2
1	L	71	VAL	2.2
1	L	87	VAL	2.2
3	D	407	VAL	2.2
1	B	58	ILE	2.2
1	B	129	ILE	2.2
3	D	1238	MET	2.2
3	D	216	VAL	2.1
3	D	444	VAL	2.1
2	C	180	GLY	2.1
1	L	129	ILE	2.1
2	C	813	VAL	2.1
3	D	244	GLU	2.1
3	D	412	GLY	2.1
3	D	803	GLY	2.0
3	N	410	SER	2.0
1	L	122	ILE	2.0
3	D	1408	ILE	2.0
3	D	239	GLY	2.0

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

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

6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th 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	RSR	LLDF	B-factors(Å ²)	Q<0.9
6	ZN	D	7112	1/1	0.15	0.64	75,75,75,75	0
6	ZN	N	7059	1/1	0.11	-0.81	100,100,100,100	0
7	MG	N	9002	1/1	0.14	-0.81	64,64,64,64	0
7	MG	D	9001	1/1	0.15	-0.85	67,67,67,67	0
6	ZN	N	7113	1/1	0.10	-1.10	87,87,87,87	0
6	ZN	D	7058	1/1	0.07	-1.76	109,109,109,109	0

6.5 Other polymers

There are no such residues in this entry.