



Full wwPDB EM Validation Report ⓘ

Mar 30, 2026 – 02:50 AM UTC

PDB ID : 8Y6Q / pdb_00008y6q
EMDB ID : EMD-38995
Title : Structure of the Dark/Dronc complex
Authors : Tian, L.; Li, Y.; Shi, Y.
Deposited on : 2024-02-03
Resolution : 7.00 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

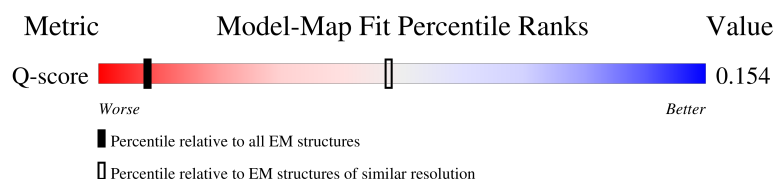
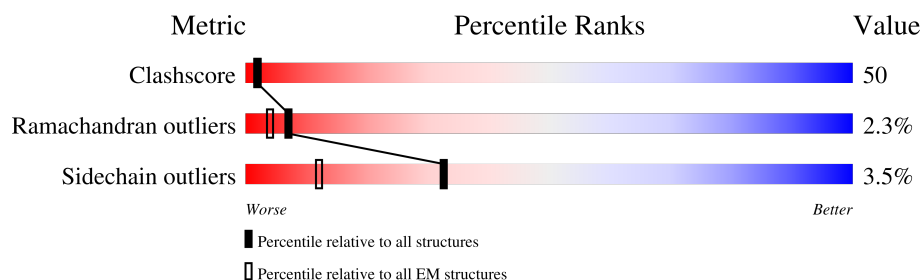
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.00 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	483 (6.50 - 7.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	H	1237	
1	I	1237	
1	J	1237	
1	K	1237	

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Mol	Chain	Length	Quality of chain
1	L	1237	
1	M	1237	
1	O	1237	
1	Q	1237	
2	A	102	
2	B	102	
2	C	102	
2	D	102	
2	E	102	
2	F	102	
2	G	102	
2	N	102	

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 75726 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Apaf-1 related killer DARK.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	H	1068	Total	C	N	O	S	0	0
			8621	5529	1452	1593	47		
1	J	1074	Total	C	N	O	S	0	0
			8672	5562	1460	1603	47		
1	L	1072	Total	C	N	O	S	0	0
			8656	5553	1458	1598	47		
1	M	1066	Total	C	N	O	S	0	0
			8607	5522	1447	1591	47		
1	O	1064	Total	C	N	O	S	0	0
			8592	5511	1446	1588	47		
1	Q	1066	Total	C	N	O	S	0	0
			8608	5520	1450	1591	47		
1	I	1072	Total	C	N	O	S	0	0
			8658	5556	1457	1598	47		
1	K	1064	Total	C	N	O	S	0	0
			8592	5513	1445	1587	47		

- Molecule 2 is a protein called Caspase Dronc.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	N	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	A	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	B	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	C	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	D	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	E	102	Total	C	N	O	S	0	0
			840	522	160	152	6		
2	F	102	Total	C	N	O	S	0	0
			840	522	160	152	6		

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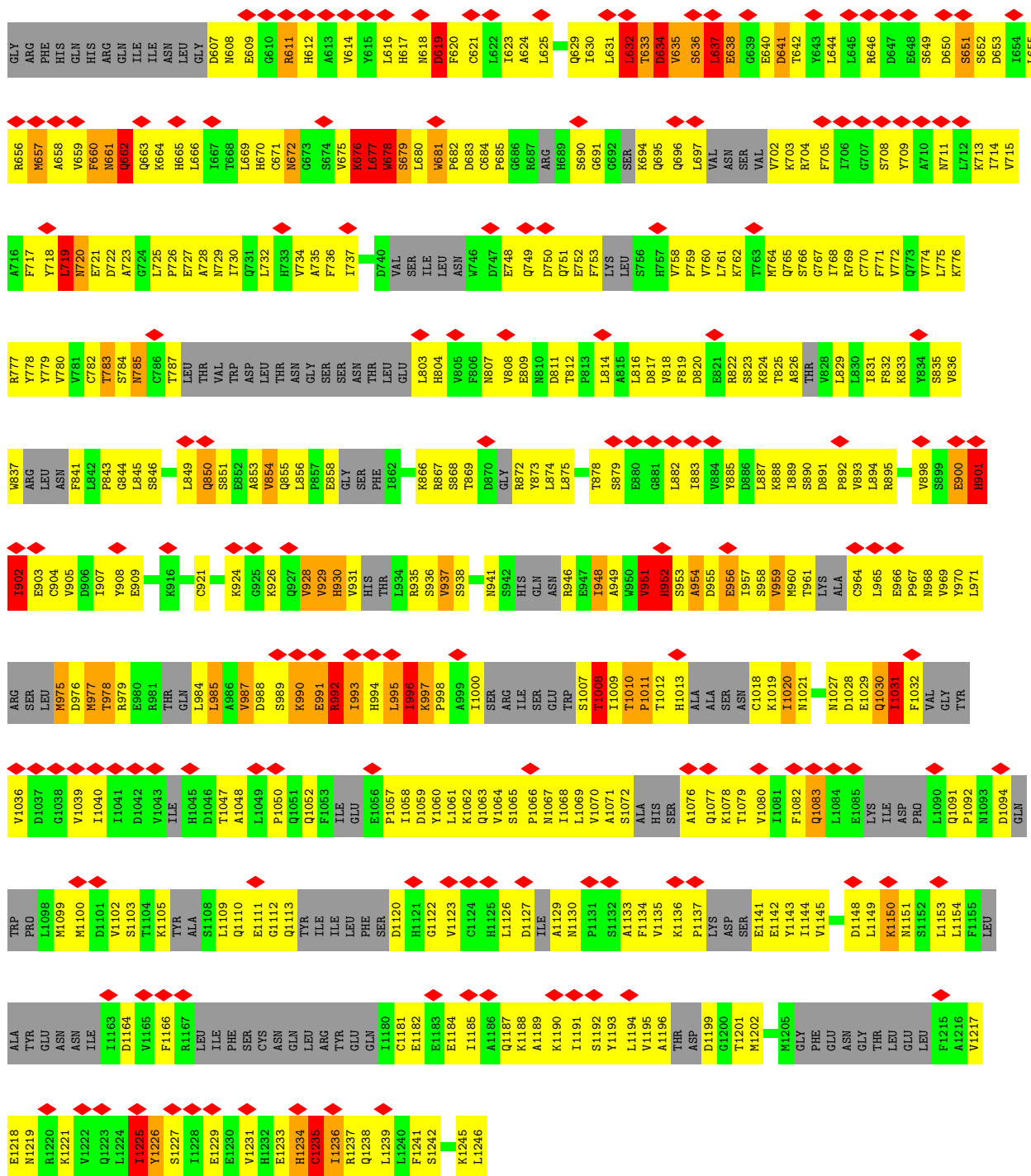
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	G	102	840	522	160	152	6	0	0

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: Apaf-1 related killer DARK

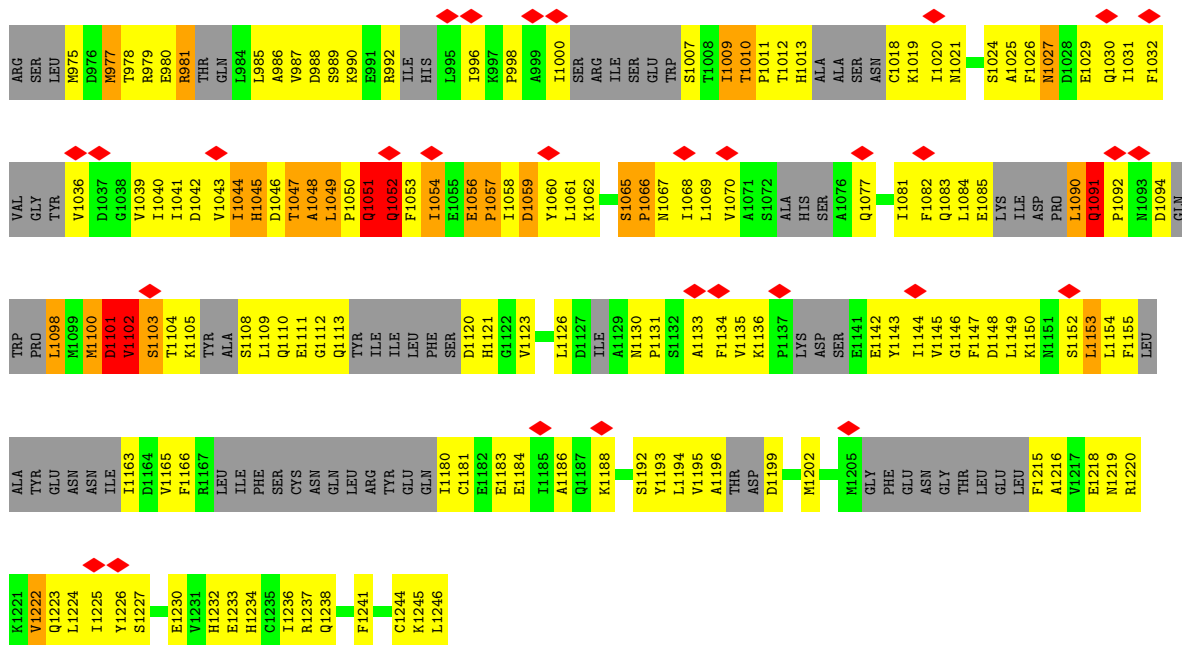




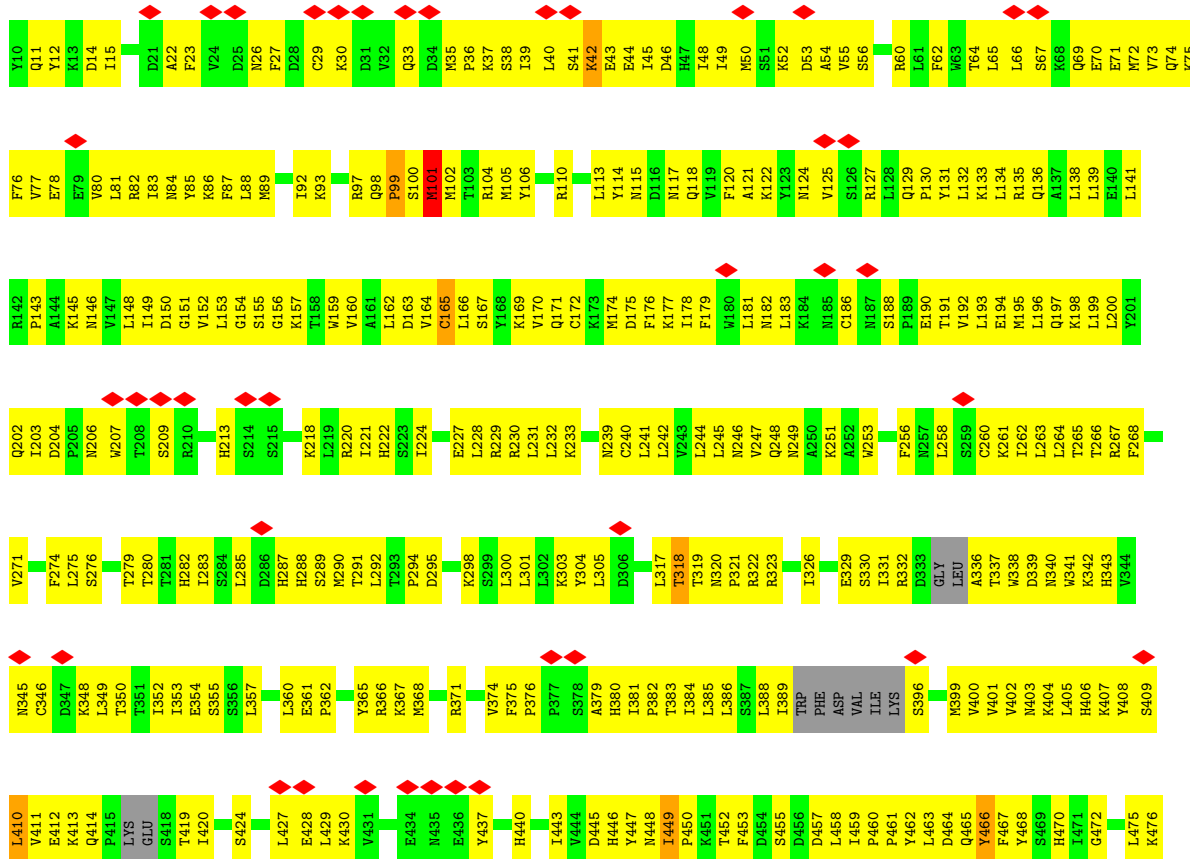
• Molecule 1: Apaf-1 related killer DARK

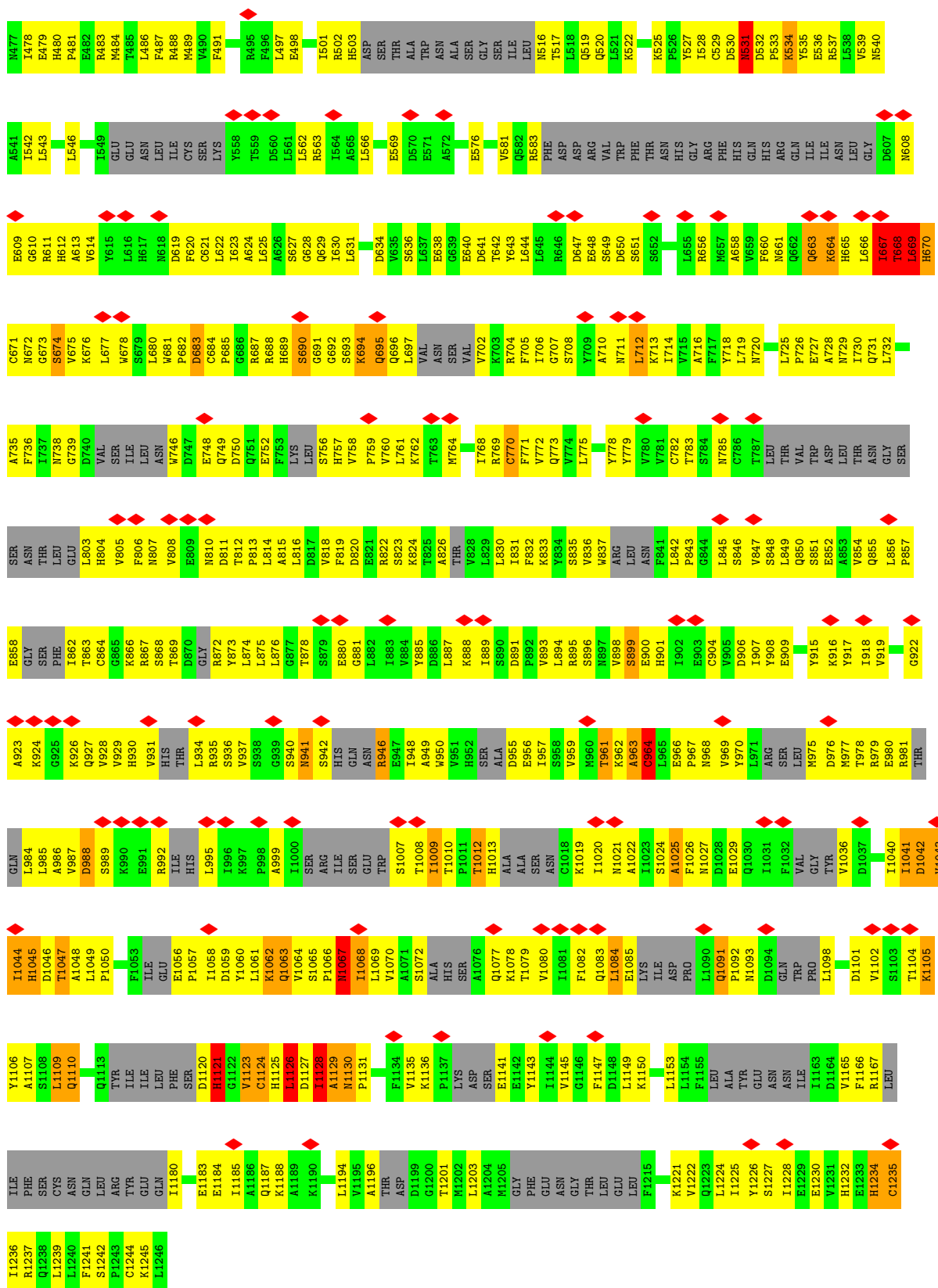


E909	L845	N785	G724	K664	G61N	I528	V401	V438	T266	L200	L138	V77
L910	S846	C786	L725	H665	ILE	C529	V402	D339	R267	Y201	L139	E76
F911	V847	T787	F726	L666	ASN	D530	N403	N340	R268	Q202	E140	E79
P913	S848	T787	E727	I667	LEU	N531	K404	N341	R269	I203	L141	V80
V914	L849	THR	A728	T668	GLY	D532	L405	N345	Q270	D204	R142	R82
Y915	K850	VAL	N729	L669	D607	P533	H406	C346	V271	I204	P143	I83
K916	S851	TRP	I730	H670	M608	K534	K407	D347	T272	I205	A144	N84
E917	S852	ASP	G731	C671	G611	E535	V408	N348	T208	T208	K145	Y85
A853	E853	LEU	L732	N672	H612	R537	S409	K348	S209	Y209	N146	Y85
V854	K854	THR	H733	G673	A613	L475	L410	L349	R210	R210	L148	K86
K855	V675	ASN	A735	V675	G614	K476	V411	T350	S211	S211	L147	F87
L856	K676	GLY	L677	K676	G615	A477	E412	T351	D212	D212	L148	L88
E857	L677	SER	F736	L677	L616	E478	Q414	I352	H213	H213	L148	M89
E858	L678	THR	F737	L678	L617	E479	P415	E354	S214	S214	L147	S90
GLY	S679	ASN	N738	S679	H617	E480	GLU	S355	S215	S215	I149	P91
SER	THR	LEU	G739	S679	L618	E481	S418	S356	K218	K218	V152	I92
THR	LEU	GLU	G740	H681	N618	L620	T419	L357	L219	L219	L153	K93
GLU	LEU	P682	V741	L682	D619	L621	T420	L358	L220	L220	G154	K94
L803	D683	D683	S742	F620	F620	L622	S421	L359	H221	H221	S155	T94
H804	V805	V805	I743	C621	C621	L623	I422	L360	H222	H222	G156	K95
V806	G865	G865	L744	L624	L624	L625	P423	L361	I221	I221	K157	E96
R806	K866	K866	L745	A624	A624	L626	Q423	L362	V158	V158	T158	Q96
S868	R867	R867	V746	R688	R688	L627	L424	L363	W159	W159	K158	R97
T869	S868	S868	V746	R688	R688	L628	S424	L364	V160	V160	G159	Q98
R870	K866	K866	L747	S686	S686	L629	I425	L365	L161	L161	G160	P99
GLY	R872	R872	E748	R688	R688	L630	Y426	L366	L162	L162	S100	S100
R873	R873	R873	Q749	S690	S690	L631	L427	L367	L163	L163	M101	M101
L874	L874	L874	D750	G691	G691	L632	E428	L368	V164	V164	C165	R104
L875	L875	L875	F751	G692	G692	L633	L429	L369	L166	L166	M105	M105
L876	L876	L876	F752	SER	SER	L634	K430	L370	S167	S167	Y106	Y106
L814	L814	L814	F753	K694	K694	L635	V431	L371	L168	L168	I107	I107
L815	L815	L815	L695	Q695	Q695	L636	K432	L372	E108	E108	Q109	Q109
L816	L816	L816	L696	Q696	Q696	L637	K433	L373	Q110	Q110	R110	R110
D817	L817	L817	L697	L697	L697	L638	K434	L374	D111	D111	D111	D111
V818	V818	V818	H757	VAL	VAL	L639	E434	L375	K172	K172	K172	K172
F819	F819	F819	V758	ASN	ASN	L640	N435	L376	P236	P236	M174	M174
D820	D820	D820	P759	SER	SER	L641	E436	L377	Y237	Y237	L113	L113
E821	E821	E821	V760	VAL	VAL	L642	N437	L378	N239	N239	F176	F176
R822	R822	R822	L761	VAL	VAL	L643	A438	L379	C240	C240	D116	D116
S823	S823	S823	K762	K703	K703	L644	L439	A379	L241	L241	N117	N117
K824	K824	K824	T763	R704	R704	L645	H440	H380	L242	L242	I178	I178
T825	T825	T825	M764	F705	F705	L646	R441	I381	V243	V243	Q118	Q118
A826	A826	A826	Q765	T706	T706	L647	S442	P382	L244	L244	V119	V119
G827	G827	G827	S766	I706	I706	L648	T443	T383	L245	L245	F120	F120
K828	K828	K828	T767	S708	S708	L649	V444	L384	N246	N246	A121	A121
L829	L829	L829	L768	Y709	Y709	L650	D445	L385	K182	K182	K122	K122
L830	L830	L830	C770	A710	A710	L651	D446	L386	L183	L183	Y123	Y123
I831	I831	I831	F771	M711	M711	L652	H446	L387	K184	K184	N124	N124
F832	F832	F832	V772	L712	L712	L653	I449	L388	L324	L324	V125	V125
K833	K833	K833	L773	K713	K713	L654	P450	L389	S325	S325	C186	C186
S835	S835	S835	I774	L714	L714	L655	T451	T389	L326	L326	N187	N187
V836	V836	V836	V775	THR	THR	L656	K451	PHE	I327	I327	S188	S188
W837	W837	W837	R777	ASN	ASN	L657	T452	ASP	V253	V253	L128	L128
ARG	ARG	ARG	L778	HIS	HIS	L658	F453	VAL	N254	N254	Q129	Q129
LEU	LEU	LEU	F779	GLY	GLY	L659	D456	ILE	A255	A255	P130	P130
ASN	ASN	ASN	Y779	ARG	ARG	L660	D457	LYS	F256	F256	Y131	Y131
L841	L841	L841	V780	PHE	PHE	L661	D458	GLY	N257	N257	L132	L132
F842	F842	F842	W781	THR	THR	L662	L459	ASP	L258	L258	K133	K133
L843	L843	L843	L782	GLN	GLN	L663	Y462	ASP	S259	S259	L134	L134
T844	T844	T844	E721	HIS	HIS	L664	L463	GLY	C260	C260	Q135	Q135
P843	P843	P843	D722	ARG	ARG	L665	D464	LEU	K261	K261	R136	R136
G844	G844	G844	Q663	ARG	ARG	L666	L465	V400	I262	I262	Q136	Q136
												A137

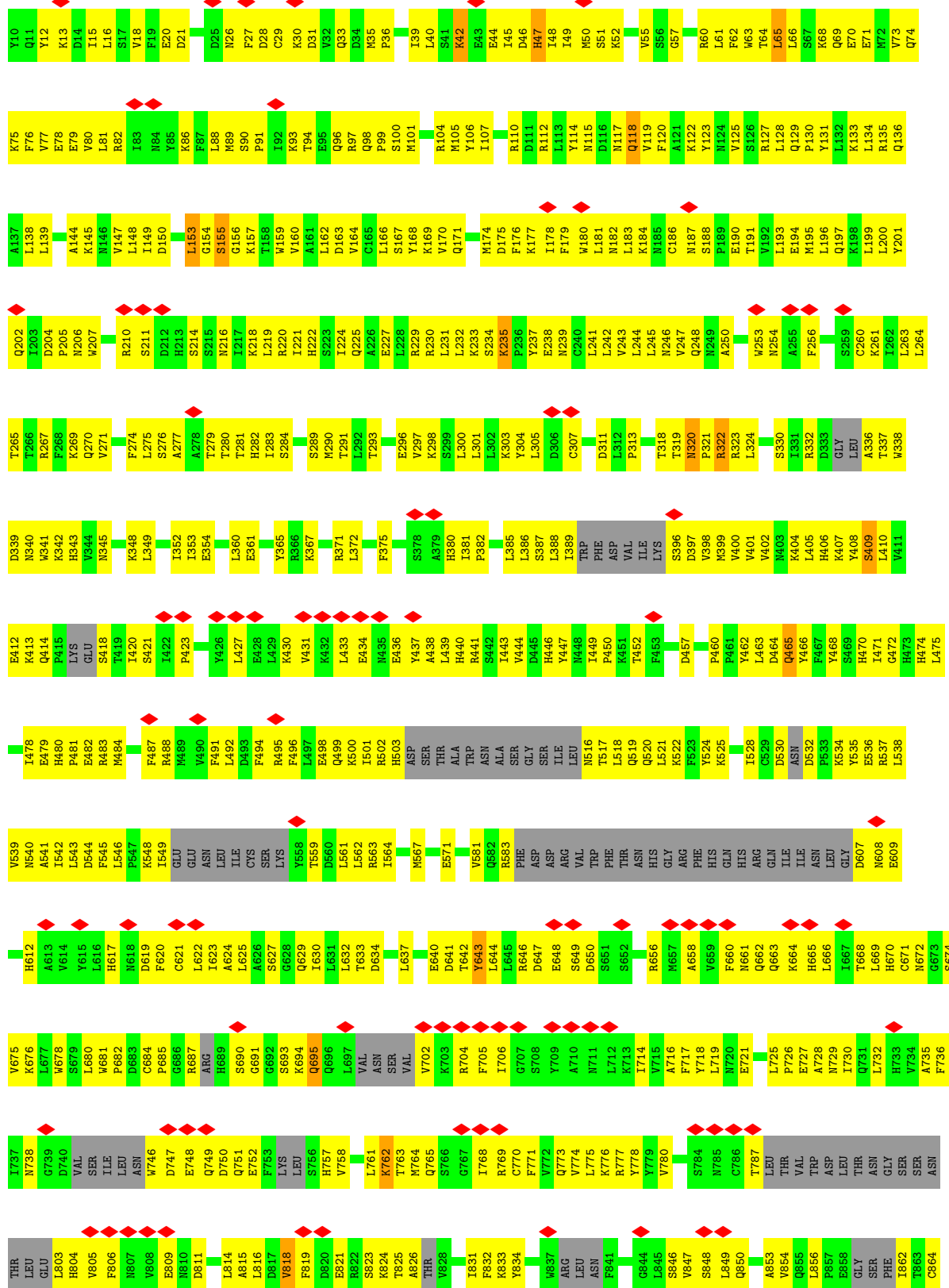


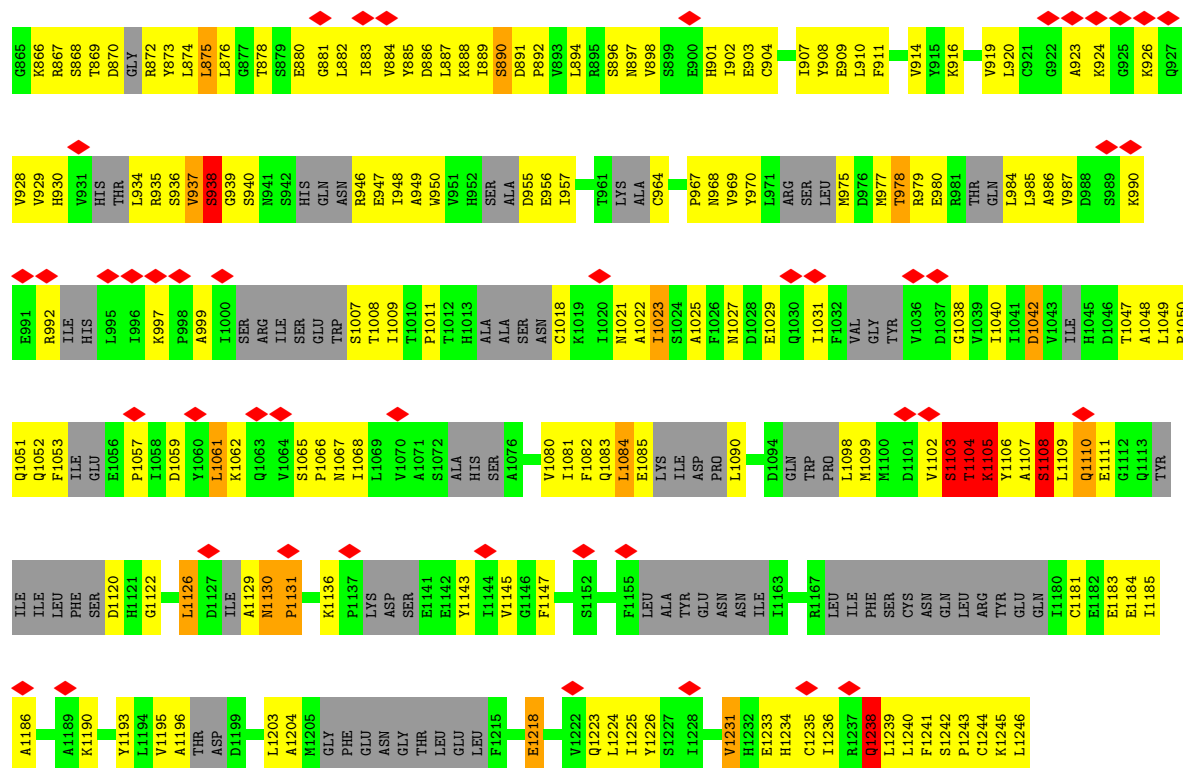
- Molecule 1: Apaf-1 related killer DARK



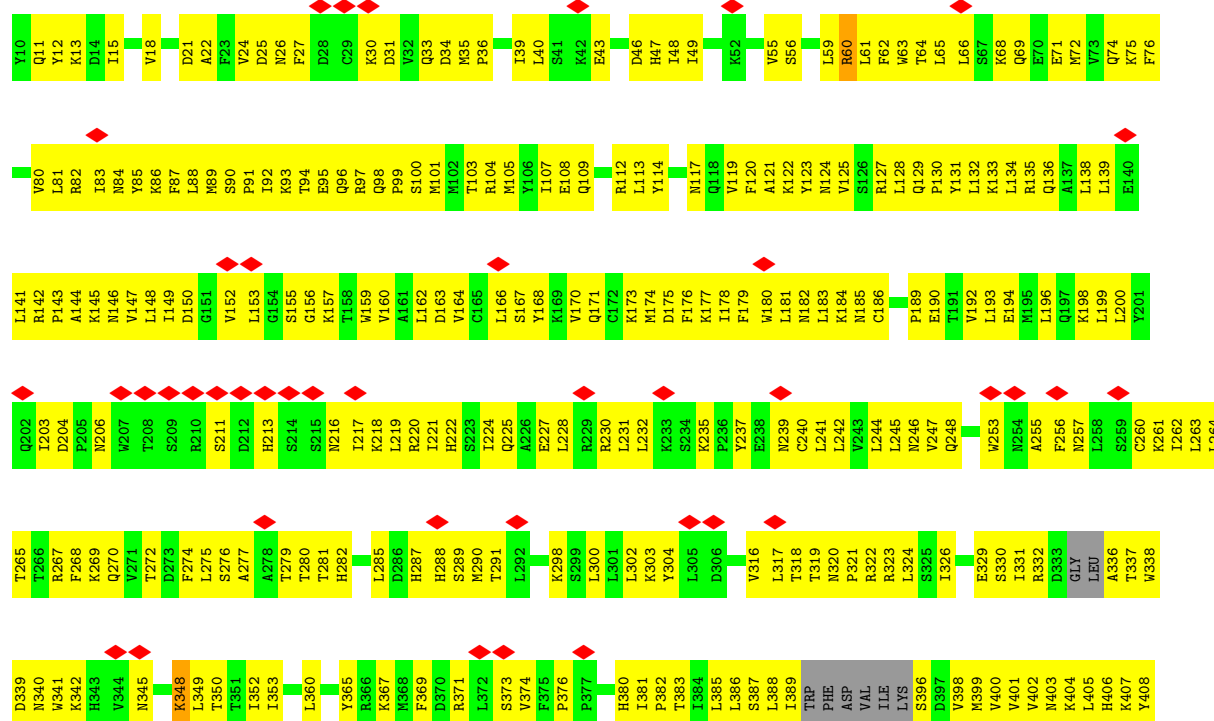


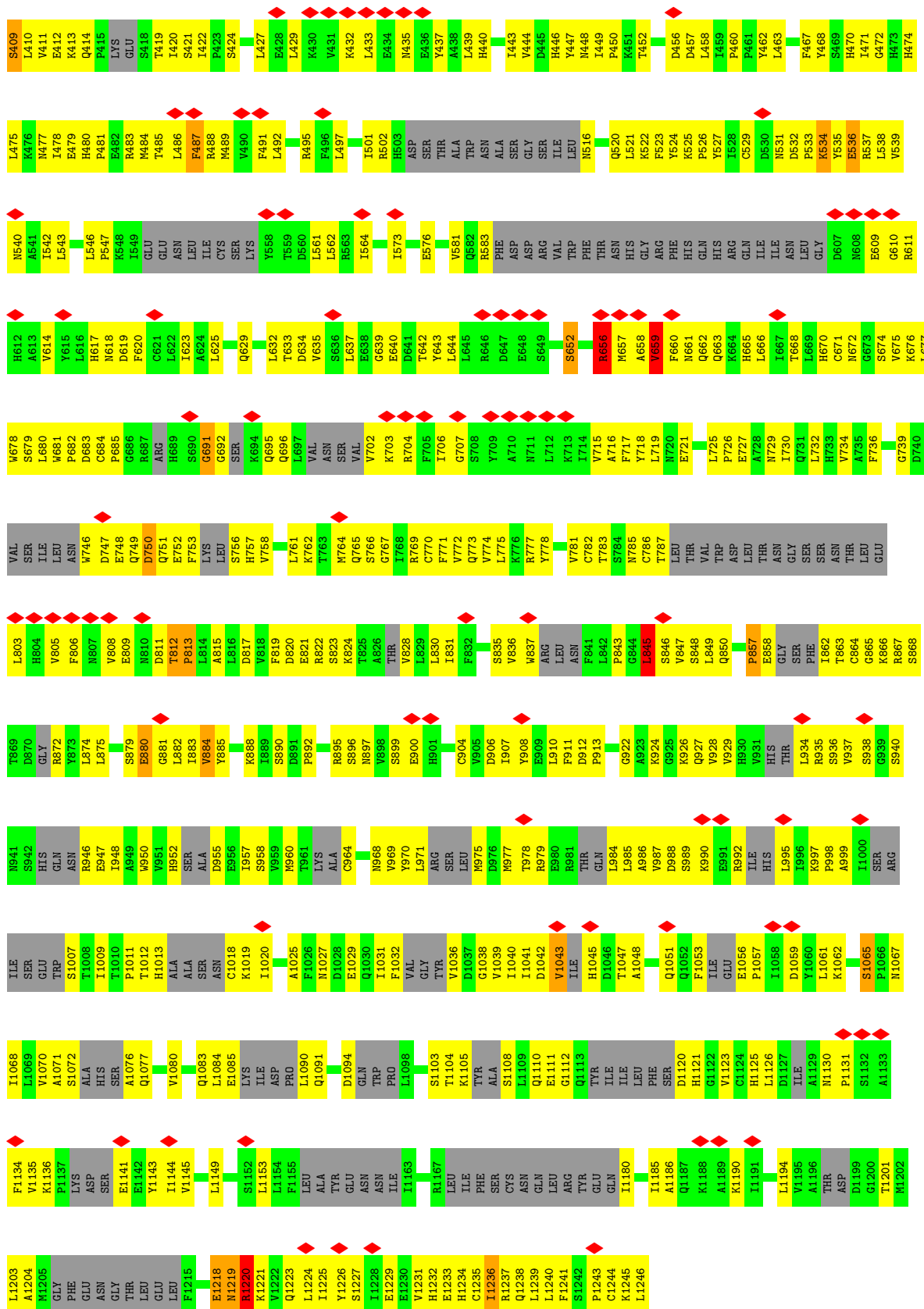
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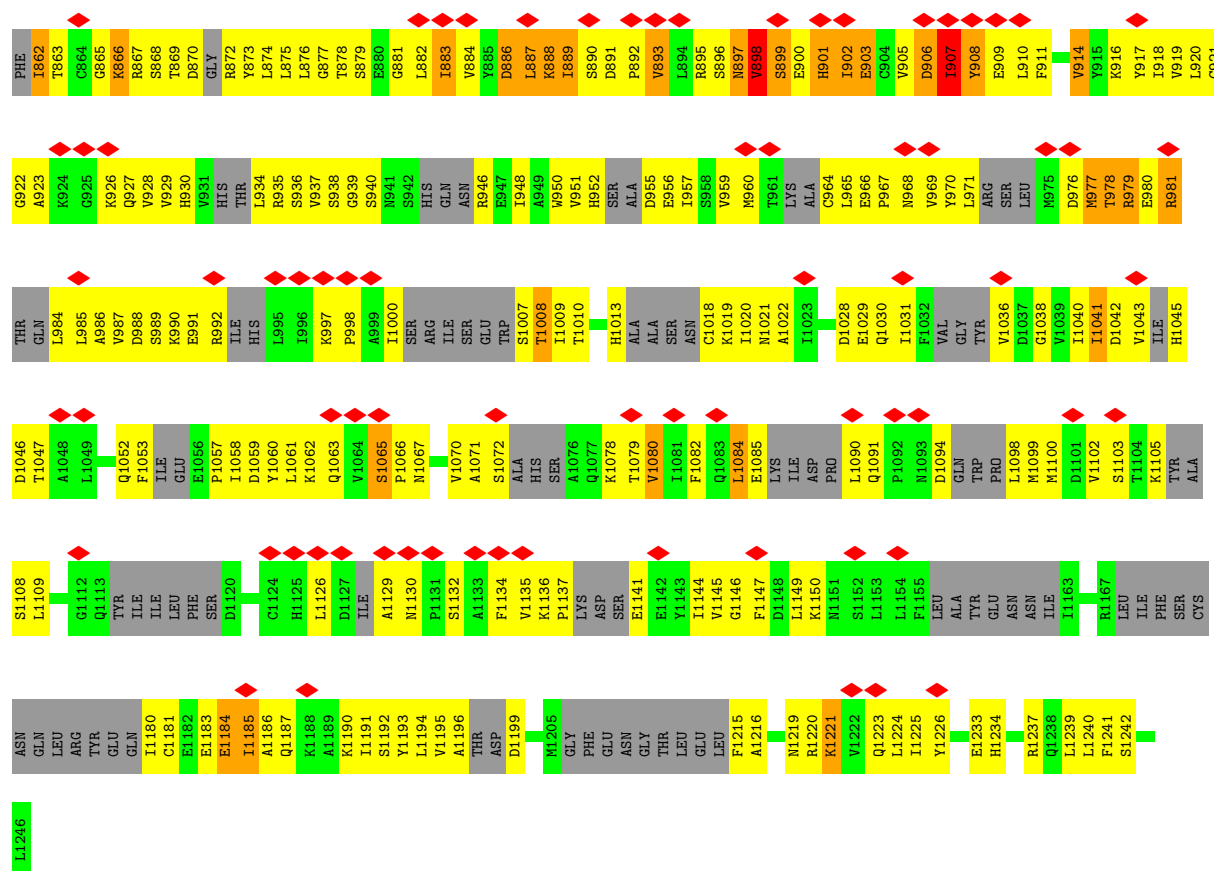
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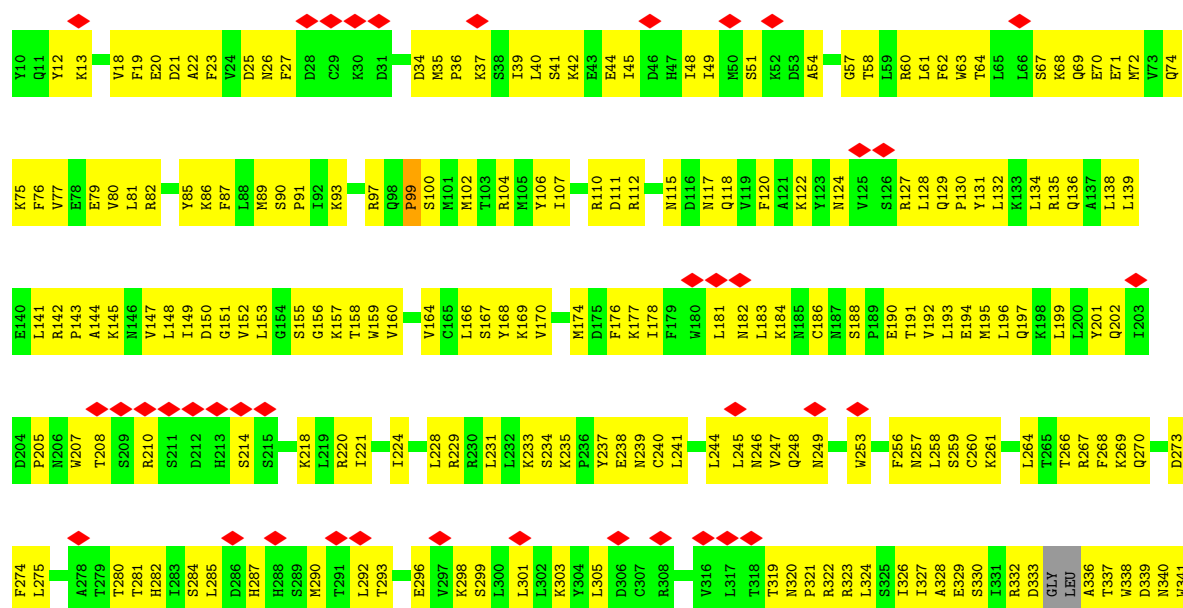


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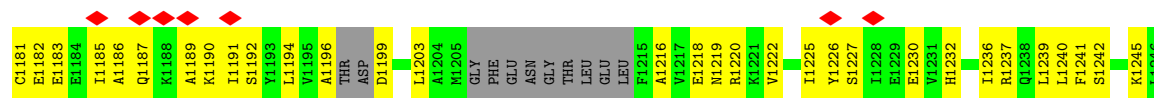




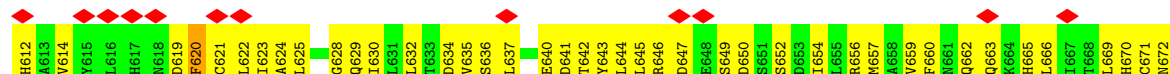
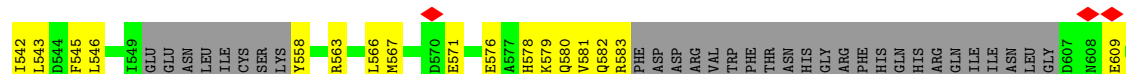
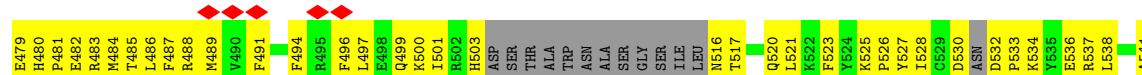
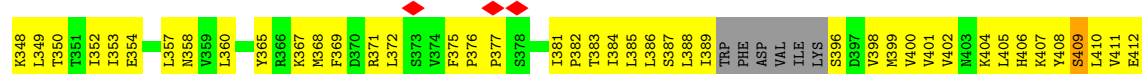
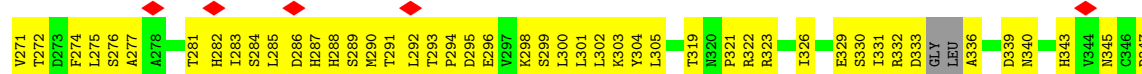
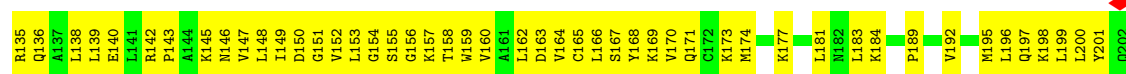
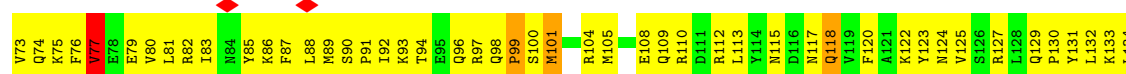
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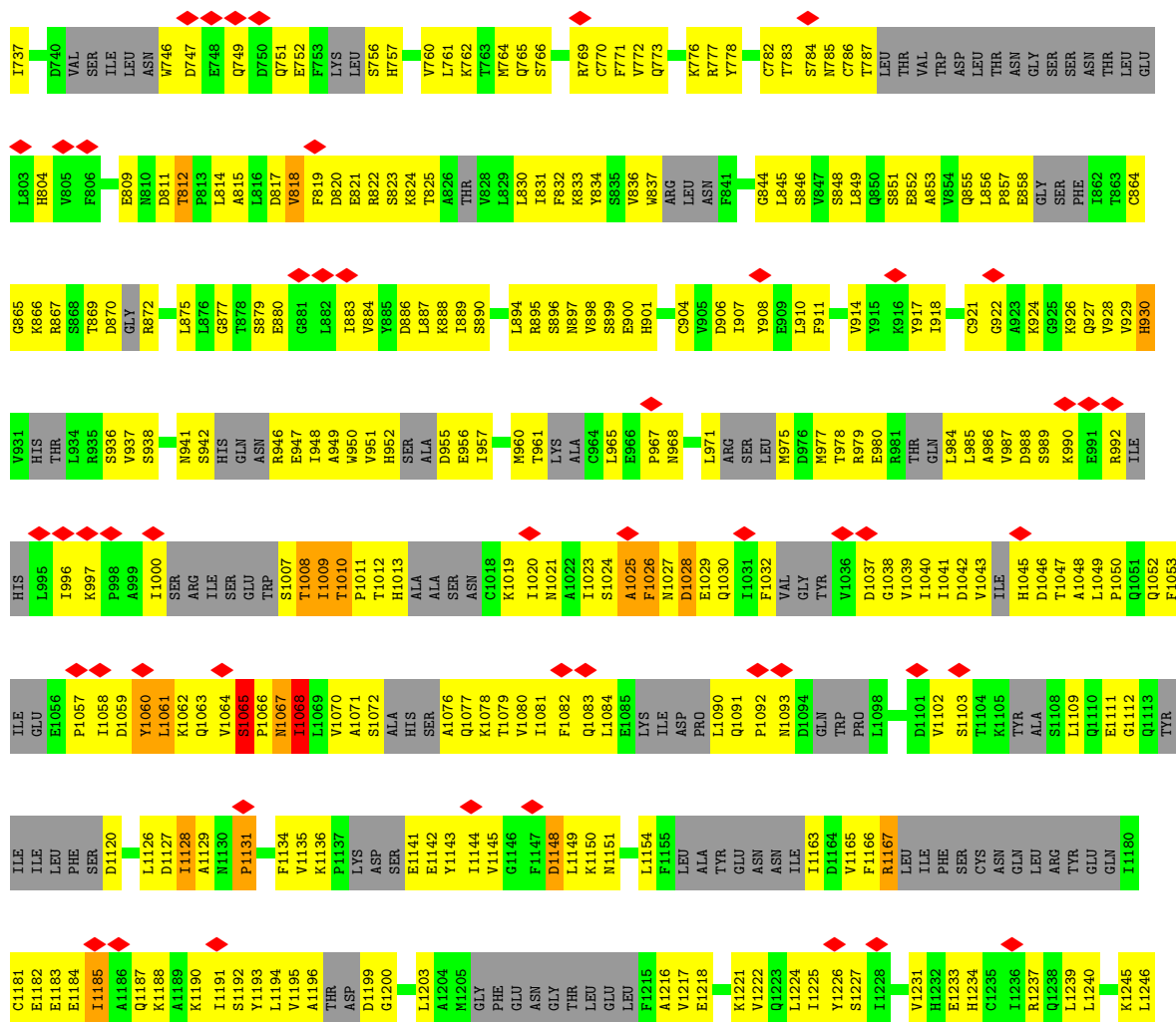


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I1058	D1059	L1060	L1061	K1062	Q1063	V1064	S1065	N1067	I1068	L1069	V1070	A1071	S1072	ALA	HIS	SER	A1076	Q1077	K1078	F1082	Q1083	L1084	E1085	LYS	ILE	ASP	PRO	L1090	Q1091	F1092	N1093	D1094	GLN	TRP	PRO	L1098	M1099	M1100	D1101	V1102	S1103	K1105	Y1106	A1107	S1108	L1109	E1110	E1111	G1112	Q1113	TYR	ILE	ILE	LEU	PHE	SER			
V929	H930	H931	HIS	THR	L934	R935	S936	V937	S938	G939	S940	N941	HIS	GLN	ASN	R946	P1011	E947	V950	V951	H952	SER	ALA	D955	T961	LYS	ALA	C964	E966	P967	N968	V969	Y970	L971	ARG	SER	LEU	N975	D976	K977	T978	E980	R981	THR	L984	L985	A986	L1049	P1050	Q1051	Q1052	F1053	ILE	E991	R992	L993	V928		
H994	L995	I996	K997	P998	A999	I1000	SER	ARG	ILE	SER	GLU	TRP	S1007	T1008	I1009	P1011	T1012	H1013	ALA	ALA	ASN	C1018	K1019	I1020	N1021	A1022	A1025	E1029	Q1030	I1031	F1032	VAL	GLY	TYR	V1036	D1037	V1039	I1040	I1041	D1042	V1043	ILE	H1045	D1046	L1049	P1050	Q1051	Q1052	F1053	ILE	E991	R992	L993	V928					
I1058	D1059	L1060	L1061	K1062	Q1063	V1064	S1065	N1067	I1068	L1069	V1070	A1071	S1072	ALA	HIS	SER	A1076	Q1077	K1078	F1082	Q1083	L1084	E1085	LYS	ILE	ASP	PRO	L1090	Q1091	F1092	N1093	D1094	GLN	TRP	PRO	L1098	M1099	M1100	D1101	V1102	S1103	K1105	Y1106	A1107	S1108	L1109	E1110	E1111	G1112	Q1113	TYR	ILE	ILE	LEU	PHE	SER			
D1120	D1121	G1122	G1123	C1124	H1125	L1126	D1127	I1128	A1129	N1130	P1131	S1132	A1133	F1134	V1135	K1136	F1137	LYS	ASP	SER	E1141	E1142	E1143	I1144	V1145	G1146	F1147	D1148	L1149	K1150	L1153	L1154	F1155	LEU	ALA	TYR	GLU	ASN	ASN	ILE	T1163	D1164	V1165	F1166	F1167	LEU	ILE	ILE	PHE	SER	CYS	ASN	GLN	LEU	ARG	TYR	GLU	GLN	I1180
A735	F736	I737	S740	K741	G742	L743	V744	SER	ILE	LEU	ASN	W746	E748	D749	Q750	D751	E752	F753	K754	L755	S756	H757	P759	W760	L761	K762	T763	W764	Q765	S766	G767	L768	R769	C770	F771	W772	Q773	V774	L775	K776	R777	Y778	W780	V781	C782	L783	S784	LEU	THR	VAL	TRP	ASP	LEU	THR					
ASN	GLY	SER	ASN	THR	LEU	GLU	L803	H804	W805	F806	H807	W808	E809	N810	D811	T812	F813	L814	L815	S816	D817	W818	F819	D820	E821	R822	S823	K824	T825	A826	THR	W828	L829	L830	I831	F832	K833	S834	W835	W836	W837	ARG	LEU	ASN	L842	P843	L844	S845	W847	S848	L849	S850	S851	E852	A853	W854			
O855	L856	P857	E858	GLY	SER	PHE	L862	K866	R867	S868	T869	D870	GLY	R872	Y873	L874	L875	L876	G877	T878	S879	E880	G881	L882	I883	D886	L887	K888	L889	S890	W898	S899	E900	H901	I902	E903	D906	L907	Y908	D912	Y915	K916	V919	L920	C921	A923	K924	G925	K926	Q927	V928								
V929	H930	H931	HIS	THR	L934	R935	S936	V937	S938	G939	S940	N941	HIS	GLN	ASN	R946	P1011	E947	V950	V951	H952	SER	ALA	D955	T961	LYS	ALA	C964	E966	P967	N968	V969	Y970	L971	ARG	SER	LEU	N975	D976	K977	T978	E980	R981	THR	L984	L985	A986	L1049	P1050	Q1051	Q1052	F1053	ILE	E991	R992	L993	V928		
H994	L995	I996	K997	P998	A999	I1000	SER	ARG	ILE	SER	GLU	TRP	S1007	T1008	I1009	P1011	T1012	H1013	ALA	ALA	ASN	C1018	K1019	I1020	N1021	A1022	A1025	E1029	Q1030	I1031	F1032	VAL	GLY	TYR	V1036	D1037	V1039	I1040	I1041	D1042	V1043	ILE	H1045	D1046	L1049	P1050	Q1051	Q1052	F1053	ILE	E991	R992	L993	V928					
I1058	D1059	L1060	L1061	K1062	Q1063	V1064	S1065	N1067	I1068	L1069	V1070	A1071	S1072	ALA	HIS	SER	A1076	Q1077	K1078	F1082	Q1083	L1084	E1085	LYS	ILE	ASP	PRO	L1090	Q1091	F1092	N1093	D1094	GLN	TRP	PRO	L1098	M1099	M1100	D1101	V1102	S1103	K1105	Y1106	A1107	S1108	L1109	E1110	E1111	G1112	Q1113	TYR	ILE	ILE	LEU	PHE	SER			
D1120	D1121	G1122	G1123	C1124	H1125	L1126	D1127	I1128	A1129	N1130	P1131	S1132	A1133	F1134	V1135	K1136	F1137	LYS	ASP	SER	E1141	E1142	E1143	I1144	V1145	G1146	F1147	D1148	L1149	K1150	L1153	L1154	F1155	LEU	ALA	TYR	GLU	ASN	ASN	ILE	T1163	D1164	V1165	F1166	F1167	LEU	ILE	ILE	PHE	SER	CYS	ASN	GLN	LEU	ARG	TYR	GLU	GLN	I1180
H406	K407	Y408	S409	L410	V411	E412	K413	K414	M415	GLU	L418	E419	H420	T421	I422	P423	S424	I425	Y426	L427	E428	L429	K430	V431	K432	L433	E434	M435	E436	Y437	H440	R441	S442	T443	V444	D445	ARG	SER	GLY	TRP	PHE	ILE	I449	P450	K451	T452	F453	S454	D455	D457	V398	M399	V400	V401	V402	K403	K404	L405	
Y468	S469	H470	I471	G472	H473	H474	L475	K476	M477	L478	E479	H480	P481	E482	R483	M484	L485	L486	F487	R488	M489	V490	F491	R495	L496	E498	Q499	K500	I501	R502	H503	ASP	SER	THR	ALA	TRP	ASN	ALA	SER	GLY	SER	ILE	LEU	N516	Q519	L521	K522	F523	Y524	K525	P526	Y527	I528	C529	D530				
N531	D532	P533	K534	E535	E536	R537	L538	V539	L542	L543	I549	GLU	GLU	ASN	LEU	ILE	CYS	SER	LYS	Y558	T559	D560	L561	L562	I573	E576	K579	Q580	V581	Q582	PHE	ASP	ASP	ASN	ARG	VAL	TRP	PHE	THR	ASN	HIS	GLY	ARG	PHE	GLN	HIS	GLN	ARG	GLN	ILE	ILE	ASN	LEU	GLY					
D607	N608	E609	G610	R611	V614	Y615	L616	H617	N618	D619	F620	C621	L622	I623	A624	L625	A626	Q629	I630	L631	L632	T633	D634	E638	G639	K640	D641	T642	Y643	L644	R645	R646	D647	E648	S649	S651	S652	D653	I654	L655	R656	A658	V659	F660	Q663	K664	H665	L666	I667	T668	L669	H670	C671						
N672	G673	S674	G675	K676	L677	W678	S679	L680	W681	P682	D683	G684	P685	G686	R687	G691	G692	S693	K694	Q695	Q696	L697	VAL	ASN	SER	VAL	V702	K703	R704	F705	S708	Y709	A710	N711	L712	K713	I714	V715	A716	F717	Y718	L719	N720	E721	D722	L725	P726	E727	N729	I730	Q731	L732	H733	V734					
A735	F736	I737	S740	K741	G742	L743	V744	SER	ILE	LEU	ASN	W746	E748	D749	Q750	D751	E752	F753	K754	L755	S756	H757	P759	W760	L761	K762	T763	W764	Q765	S766	G767	L768	R769	C770	F771	W772	Q773	V774	L775	K776	R777	Y778	W780	V781	C782	L783	S784	LEU	THR	VAL	TRP	ASP	LEU	THR					
ASN	GLY	SER	ASN	THR	LEU	GLU	L803	H804	W805	F806	H807	W808	E809	N810	D811	T812	F813	L814	L815	S816	D817	W818	F819	D820	E821	R822	S823	K824	T825	A826	THR	W828	L829	L830	I831	F832	K833	S834	W835	W836	W837	ARG	LEU	ASN	L842	P843	L844	S845	W847	S848	L849	S850	S851	E852	A853	W854			
O855	L856	P857	E858	GLY	SER	PHE	L862	K866	R867	S868	T869	D870	GLY	R872	Y873	L874	L875	L876	G877	T878	S879	E880	G881	L882	I883	D886	L887	K888	L889	S890	W898	S899	E900	H901	I902	E903	D906	L907	Y908	D912	Y915	K916	V919	L920	C921	A923	K924	G925	K926	Q927	V928								
V929	H930	H931	HIS	THR	L934	R935	S936	V937	S938	G939	S940	N941	HIS	GLN	ASN	R946	P1011	E947	V950	V951	H952	SER	ALA	D955	T961	LYS	ALA	C964	E966	P967	N968	V969	Y970	L971	ARG	SER	LEU	N975	D976	K977	T978	E980	R981	THR	L984	L985	A986	L1049	P1050	Q1051	Q1052	F1053	ILE	E991	R992	L993	V928		
H994	L995	I996	K997	P998	A999	I1000	SER	ARG	ILE	SER	GLU	TRP	S1007	T1008	I1009	P1011	T1012	H1013	ALA	ALA	ASN	C1018	K1019	I1020	N1021	A1022	A1025	E1029	Q1030	I1031	F1032	VAL	GLY	TYR	V1036	D1037	V1039	I1040	I1041	D1042	V1043	ILE	H1045	D1046	L1049	P1050	Q1051	Q1052	F1053	ILE	E991	R992	L993	V928					
I1058	D1059	L1060	L1061	K1062	Q1063	V1064	S1065	N1067	I1068	L1069	V1070	A1071	S1072	ALA	HIS	SER	A1076	Q1077	K1078	F1082	Q1083	L1084	E1085	LYS	ILE	ASP	PRO	L1090	Q1091	F1092	N1093	D1094	GLN	TRP	PRO	L1098	M1099	M1100	D1101	V1102	S1103	K1105	Y1106	A1107	S1108	L1109	E1110	E1111	G1112	Q1113	TYR	ILE	ILE	LEU	PHE	SER			
D1120	D1121	G1122	G1123	C1124	H1125	L1126	D1127	I1128	A1129	N1130	P1131	S1132	A1133	F1134	V1135	K1136	F1137	LYS	ASP	SER	E1141	E1142	E1143	I1144	V1145	G1146	F1147	D1148	L1149	K1150	L1153	L1154	F1155	LEU	ALA	TYR	GLU	ASN	ASN	ILE	T1163	D1164	V1165	F1166	F1167	LEU	ILE	ILE	PHE	SER	CYS	ASN	GLN	LEU	ARG	TYR	GLU	GLN	I1180

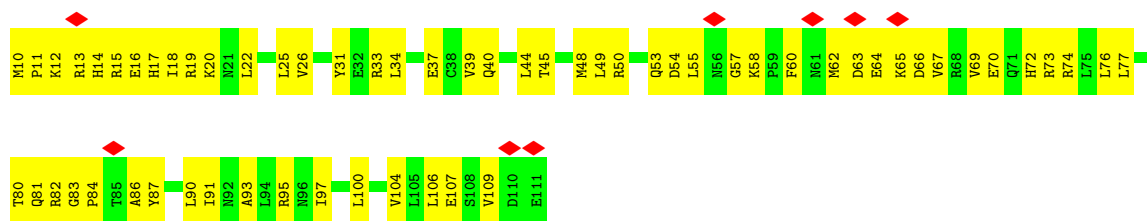
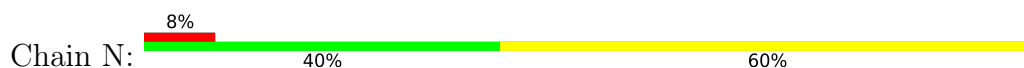


● Molecule 1: Apaf-1 related killer DARK

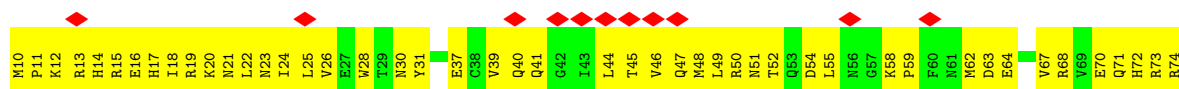


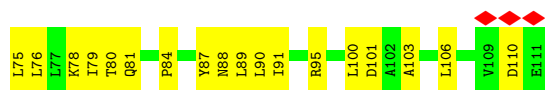


• Molecule 2: Caspase Dronc

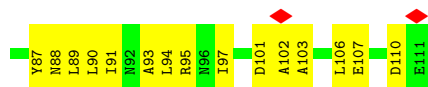
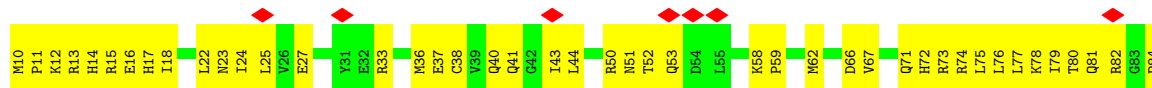
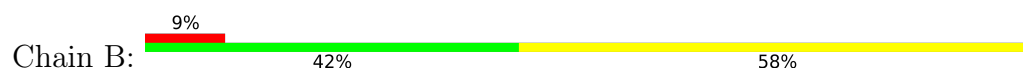


• Molecule 2: Caspase Dronc

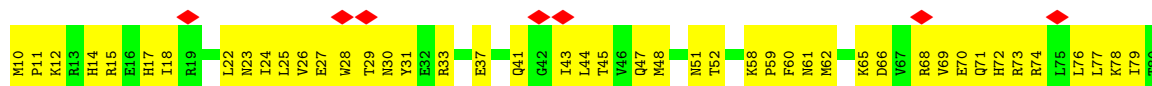




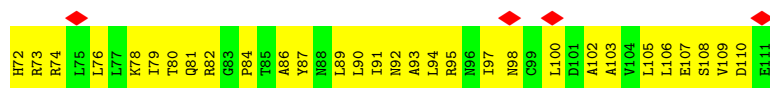
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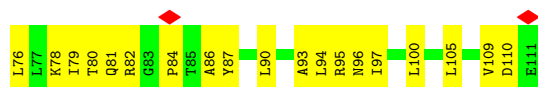
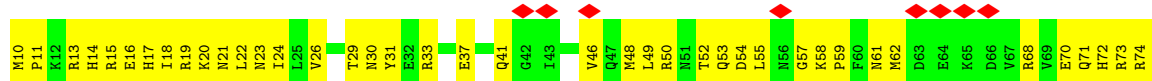
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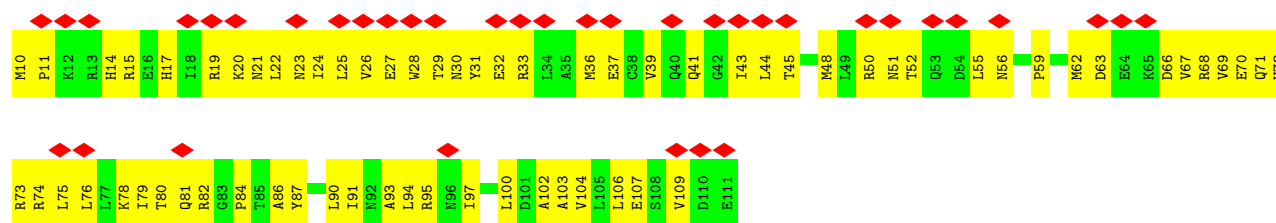
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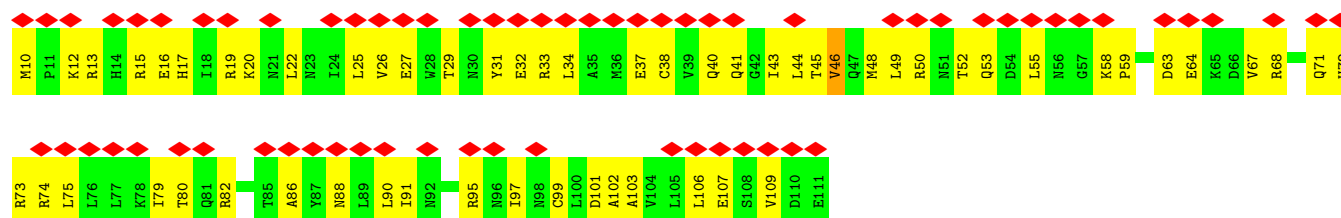
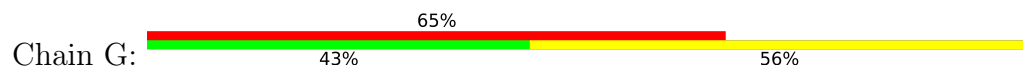
• Molecule 2: Caspase Dronc



• Molecule 2: Caspase Dronc



• Molecule 2: Caspase Dronc



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	2710	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.530	Depositor
Minimum map value	-0.233	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.038	Depositor
Recommended contour level	0.18	Depositor
Map size (Å)	426.80002, 426.80002, 426.80002	wwPDB
Map dimensions	440, 440, 440	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.97, 0.97, 0.97	Depositor

5 Model quality

5.1 Standard geometry

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	H	0.34	2/8768 (0.0%)	0.72	35/11830 (0.3%)
1	I	0.27	0/8809	0.66	21/11890 (0.2%)
1	J	0.35	3/8821 (0.0%)	0.78	34/11907 (0.3%)
1	K	0.31	2/8736 (0.0%)	0.61	13/11783 (0.1%)
1	L	0.29	0/8807	0.70	18/11888 (0.2%)
1	M	0.27	2/8753 (0.0%)	0.57	16/11808 (0.1%)
1	O	0.25	2/8736 (0.0%)	0.54	9/11783 (0.1%)
1	Q	0.31	1/8754 (0.0%)	0.75	42/11810 (0.4%)
2	A	0.25	0/850	0.47	0/1146
2	B	0.16	0/850	0.37	0/1146
2	C	0.16	0/850	0.35	0/1146
2	D	0.19	0/850	0.44	0/1146
2	E	0.18	0/850	0.49	0/1146
2	F	0.15	0/850	0.40	0/1146
2	G	0.20	0/850	0.49	0/1146
2	N	0.17	0/850	0.38	0/1146
All	All	0.29	12/76984 (0.0%)	0.65	188/103867 (0.2%)

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	661	ASN	C-N	15.61	1.55	1.33
1	K	77	VAL	C-O	-7.55	1.15	1.24
1	J	536	GLU	CA-C	-6.55	1.44	1.52
1	M	1103	SER	N-CA	6.38	1.54	1.46
1	Q	616	LEU	CA-C	6.26	1.56	1.52
1	O	659	VAL	N-CA	5.90	1.53	1.46
1	K	1026	PHE	C-O	-5.72	1.16	1.24
1	O	536	GLU	CA-C	-5.67	1.45	1.52
1	J	1056	GLU	N-CA	-5.43	1.43	1.46
1	J	674	SER	N-CA	5.36	1.52	1.45
1	M	1130	ASN	CA-C	-5.23	1.46	1.52
1	H	1235	CYS	C-N	5.01	1.40	1.33

All (188) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	1123	VAL	N-CA-C	14.89	123.38	111.62
1	I	773	GLN	N-CA-C	-12.37	97.83	111.07
1	M	1107	ALA	N-CA-C	-11.27	98.92	112.89
1	Q	807	ASN	N-CA-C	11.05	117.84	108.78
1	J	977	MET	N-CA-C	10.93	124.18	108.00
1	Q	614	VAL	N-CA-C	10.65	121.53	108.53
1	J	532	ASP	N-CA-C	9.99	121.86	109.57
1	L	529	CYS	N-CA-C	9.98	123.09	111.11
1	K	1025	ALA	N-CA-C	-9.69	100.79	111.36
1	J	813	PRO	CA-C-N	-9.53	109.86	123.00
1	J	813	PRO	C-N-CA	-9.53	109.86	123.00
1	K	1028	ASP	N-CA-C	9.32	120.55	108.24
1	L	683	ASP	N-CA-C	9.19	124.37	109.40
1	Q	616	LEU	N-CA-C	8.84	123.07	108.48
1	H	1011	PRO	N-CA-C	8.47	124.53	111.15
1	H	951	VAL	CB-CA-C	-8.46	103.78	111.74
1	I	1108	SER	N-CA-C	8.44	121.68	110.88
1	H	678	TRP	N-CA-C	-8.33	102.13	111.71
1	O	659	VAL	CA-C-N	-8.13	111.96	122.77
1	O	659	VAL	C-N-CA	-8.13	111.96	122.77
1	K	1127	ASP	N-CA-C	-8.11	103.90	113.88
1	J	829	LEU	N-CA-C	8.05	122.27	110.59
1	Q	899	SER	N-CA-C	7.91	123.58	107.69
1	H	532	ASP	CA-C-N	-7.64	111.84	119.56
1	H	532	ASP	C-N-CA	-7.64	111.84	119.56
1	J	1054	ILE	N-CA-C	7.63	117.74	110.42
1	L	466	TYR	N-CA-C	7.49	121.34	111.75
1	L	1123	VAL	CB-CA-C	-7.48	104.39	111.05
1	J	779	TYR	N-CA-C	7.47	121.93	108.48
1	L	1126	LEU	N-CA-C	-7.34	101.63	110.44
1	K	100	SER	N-CA-C	7.33	119.78	110.33
1	K	1148	ASP	N-CA-CB	7.26	119.59	110.45
1	K	703	LYS	N-CA-C	7.24	122.17	113.12
1	L	667	ILE	N-CA-C	7.09	124.09	109.34
1	Q	851	SER	N-CA-C	7.02	117.86	108.38
1	L	531	ASN	N-CA-C	7.02	117.14	107.73
1	J	1049	LEU	CA-C-N	6.98	126.96	119.28
1	J	1049	LEU	C-N-CA	6.98	126.96	119.28
1	Q	898	VAL	CA-C-N	6.92	133.58	123.13
1	Q	898	VAL	C-N-CA	6.92	133.58	123.13
1	H	952	HIS	CA-C-N	-6.91	111.14	122.54
1	H	952	HIS	C-N-CA	-6.91	111.14	122.54

Continued on next page...

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	530	ASP	N-CA-C	6.85	120.86	107.98
1	Q	635	VAL	N-CA-C	6.85	119.47	112.90
1	M	762	LYS	N-CA-C	6.70	120.37	110.46
1	O	659	VAL	N-CA-C	6.61	118.67	109.55
1	H	1225	ILE	N-CA-CB	6.59	122.11	111.23
1	L	668	THR	N-CA-C	6.59	120.24	112.72
1	M	1238	GLN	CA-C-O	-6.57	113.53	120.63
1	Q	905	VAL	N-CA-C	6.57	123.00	109.34
1	H	637	LEU	N-CA-C	6.56	120.59	111.74
1	K	1065	SER	N-CA-C	6.56	124.31	109.81
1	I	694	LYS	N-CA-C	6.55	121.90	113.18
1	Q	622	LEU	N-CA-C	6.54	117.10	108.07
1	Q	856	LEU	CA-C-N	6.47	127.93	119.84
1	Q	856	LEU	C-N-CA	6.47	127.93	119.84
1	I	761	LEU	N-CA-C	6.43	116.55	108.45
1	M	938	SER	N-CA-C	6.39	119.21	109.62
1	I	757	HIS	N-CA-C	6.35	124.33	110.80
1	Q	617	HIS	CB-CA-C	-6.35	103.56	111.43
1	K	1129	ALA	N-CA-C	6.34	117.49	108.74
1	O	1220	ARG	N-CA-C	6.32	124.25	110.80
1	H	954	ALA	N-CA-C	6.28	117.88	107.20
1	H	902	ILE	N-CA-C	6.28	122.39	109.34
1	I	778	TYR	N-CA-C	6.25	120.69	112.13
1	L	1235	CYS	N-CA-C	6.18	123.96	110.80
1	Q	618	ASN	N-CA-C	6.16	123.92	110.80
1	Q	807	ASN	CA-C-O	6.15	121.51	117.94
1	Q	907	ILE	N-CA-C	6.11	116.92	108.12
1	O	408	TYR	CA-C-N	6.10	133.19	121.54
1	O	408	TYR	C-N-CA	6.10	133.19	121.54
1	Q	617	HIS	N-CA-C	6.10	117.57	107.20
1	I	149	ILE	O-C-N	-6.08	115.24	122.66
1	J	1091	GLN	CB-CA-C	-6.08	101.98	110.13
1	H	952	HIS	CA-C-O	-6.08	114.17	121.34
1	Q	662	GLN	N-CA-C	6.06	118.28	109.07
1	I	526	PRO	CA-C-N	6.03	131.71	122.24
1	I	526	PRO	C-N-CA	6.03	131.71	122.24
1	J	741	VAL	N-CA-C	6.02	121.85	109.34
1	H	719	LEU	N-CA-C	5.99	117.96	108.79
1	J	768	ILE	N-CA-C	5.95	118.91	113.20
1	I	1065	SER	N-CA-C	5.90	122.86	109.81
1	H	408	TYR	CA-C-N	5.90	132.81	121.54
1	H	408	TYR	C-N-CA	5.90	132.81	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	714	ILE	N-CA-C	-5.89	106.67	111.91
1	H	676	LYS	N-CA-C	5.88	123.32	110.80
1	J	806	PHE	N-CA-CB	5.87	118.47	110.38
1	I	408	TYR	CA-C-N	5.86	132.74	121.54
1	I	408	TYR	C-N-CA	5.86	132.74	121.54
1	I	442	SER	N-CA-C	-5.82	104.57	111.03
1	J	1047	THR	N-CA-CB	5.81	118.97	110.25
1	Q	856	LEU	N-CA-C	5.80	118.69	109.64
1	Q	832	PHE	N-CA-C	5.79	120.73	113.43
1	O	60	ARG	CB-CG-CD	5.78	124.59	111.30
1	L	1109	LEU	N-CA-C	5.78	117.81	108.34
1	J	674	SER	CA-C-O	-5.77	115.00	121.81
1	Q	638	GLU	N-CA-C	5.76	123.01	113.50
1	H	676	LYS	CA-C-N	-5.76	110.54	121.54
1	H	676	LYS	C-N-CA	-5.76	110.54	121.54
1	I	619	ASP	N-CA-C	5.75	123.06	110.80
1	H	995	LEU	N-CA-C	5.75	118.02	108.13
1	J	1103	SER	N-CA-C	5.72	122.98	110.80
1	I	619	ASP	CA-C-N	-5.70	113.45	121.72
1	I	619	ASP	C-N-CA	-5.70	113.45	121.72
1	M	47	HIS	N-CA-C	-5.69	104.98	111.07
1	Q	808	VAL	CB-CA-C	-5.66	104.12	111.88
1	J	807	ASN	N-CA-C	5.65	117.33	109.31
1	J	1051	GLN	N-CA-C	5.64	122.81	110.80
1	J	830	LEU	N-CA-C	5.63	120.28	112.45
1	Q	680	LEU	N-CA-C	5.63	118.23	110.35
1	O	1219	ASN	N-CA-C	5.62	117.58	108.41
1	H	901	HIS	N-CA-C	5.62	122.76	110.80
1	M	695	GLN	CA-C-N	-5.61	112.74	120.71
1	M	695	GLN	C-N-CA	-5.61	112.74	120.71
1	M	320	ASN	CA-C-N	5.59	126.83	119.84
1	M	320	ASN	C-N-CA	5.59	126.83	119.84
1	M	1238	GLN	CA-C-N	-5.55	110.94	121.54
1	M	1238	GLN	C-N-CA	-5.55	110.94	121.54
1	O	487	PHE	N-CA-CB	5.55	119.40	110.42
1	J	704	ARG	N-CA-C	5.54	119.45	111.02
1	Q	883	ILE	CA-C-N	5.53	131.93	121.97
1	Q	883	ILE	C-N-CA	5.53	131.93	121.97
1	J	977	MET	CB-CA-C	-5.53	108.60	116.34
1	Q	655	LEU	N-CA-C	-5.51	99.07	110.80
1	J	751	GLN	CA-C-N	5.48	132.00	121.54
1	J	751	GLN	C-N-CA	5.48	132.00	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	1052	GLN	N-CA-C	5.48	122.46	110.80
1	H	1083	GLN	N-CA-C	5.47	120.83	114.04
1	Q	724	GLY	CA-C-N	-5.44	115.46	123.30
1	Q	724	GLY	C-N-CA	-5.44	115.46	123.30
1	Q	683	ASP	N-CA-C	5.43	118.92	110.17
1	Q	292	LEU	CB-CA-C	-5.41	110.32	116.54
1	L	101	MET	N-CA-C	5.41	117.87	111.33
1	L	893	VAL	N-CA-C	-5.39	107.11	111.91
1	Q	624	ALA	N-CA-C	-5.39	101.88	109.96
1	I	992	ARG	N-CA-C	5.37	117.81	107.44
1	J	1010	THR	N-CA-C	5.37	117.37	109.42
1	M	937	VAL	N-CA-C	-5.37	101.80	108.89
1	H	850	GLN	N-CA-C	5.37	119.96	113.41
1	L	410	LEU	N-CA-C	5.37	120.74	114.62
1	H	661	ASN	O-C-N	5.36	129.72	122.59
1	H	651	SER	N-CA-C	5.36	117.41	108.99
1	I	449	ILE	CB-CA-C	-5.36	108.67	114.35
1	Q	906	ASP	CA-C-N	-5.34	115.57	122.99
1	Q	906	ASP	C-N-CA	-5.34	115.57	122.99
1	M	322	ARG	N-CA-C	5.33	116.78	110.97
1	M	1244	CYS	CB-CA-C	-5.30	110.02	117.23
1	K	620	PHE	N-CA-C	5.27	117.99	110.24
1	L	941	ASN	CB-CA-C	-5.27	109.52	115.79
1	K	77	VAL	CA-C-O	-5.26	115.60	121.17
1	H	937	VAL	N-CA-C	5.25	114.86	106.88
1	I	774	VAL	N-CA-C	5.25	120.98	113.16
1	H	661	ASN	CA-C-N	5.25	131.56	121.54
1	H	661	ASN	C-N-CA	5.25	131.56	121.54
1	L	963	ALA	N-CA-C	5.24	120.73	110.56
1	Q	1184	GLU	CA-C-N	5.24	131.40	121.97
1	Q	1184	GLU	C-N-CA	5.24	131.40	121.97
1	J	1101	ASP	N-CA-C	5.22	121.93	110.80
1	Q	977	MET	N-CA-C	5.22	121.92	110.80
1	H	1008	THR	N-CA-C	5.21	117.81	108.17
1	Q	614	VAL	CA-C-N	-5.20	114.13	122.08
1	Q	614	VAL	C-N-CA	-5.20	114.13	122.08
1	Q	660	PHE	N-CA-C	5.19	116.03	107.20
1	J	745	ASN	N-CA-C	5.18	115.07	108.24
1	M	643	TYR	O-C-N	-5.17	115.21	121.83
1	L	1121	HIS	N-CA-C	5.17	121.82	110.80
1	H	611	ARG	N-CA-C	5.17	119.48	112.04
1	J	1048	ALA	N-CA-C	5.17	117.70	109.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	619	ASP	N-CA-CB	5.16	119.20	110.49
1	J	1101	ASP	CA-C-N	5.14	131.23	121.97
1	J	1101	ASP	C-N-CA	5.14	131.23	121.97
1	K	449	ILE	CB-CA-C	-5.13	108.92	114.35
1	I	526	PRO	CA-C-O	-5.12	111.28	120.60
1	J	813	PRO	CA-C-O	-5.11	111.30	120.60
1	Q	806	PHE	CA-C-N	-5.11	117.52	123.04
1	Q	806	PHE	C-N-CA	-5.11	117.52	123.04
1	Q	616	LEU	O-C-N	5.10	126.34	120.58
1	H	219	LEU	N-CA-C	-5.09	105.43	111.69
1	H	662	GLN	N-CA-C	5.08	121.61	110.80
1	J	718	TYR	O-C-N	5.05	128.30	121.83
1	H	1235	CYS	CA-C-N	5.04	131.03	121.97
1	H	1235	CYS	C-N-CA	5.04	131.03	121.97
1	M	1023	ILE	N-CA-C	-5.03	106.75	111.48
1	J	718	TYR	CA-C-N	5.02	130.81	121.62
1	J	718	TYR	C-N-CA	5.02	130.81	121.62
1	L	988	ASP	N-CA-C	-5.02	107.11	113.43
1	K	1067	ASN	N-CA-C	5.01	121.48	110.80
1	K	1064	VAL	O-C-N	-5.01	116.31	122.57

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	H	8621	0	8600	1003	0
1	I	8658	0	8647	861	0
1	J	8672	0	8665	1191	0
1	K	8592	0	8575	777	0
1	L	8656	0	8648	915	0
1	M	8607	0	8584	740	0
1	O	8592	0	8570	742	0
1	Q	8608	0	8591	884	0
2	A	840	0	863	69	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	840	0	863	55	0
2	C	840	0	863	55	0
2	D	840	0	863	73	0
2	E	840	0	863	59	0
2	F	840	0	863	68	0
2	G	840	0	863	57	0
2	N	840	0	863	65	0
All	All	75726	0	75784	7534	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 50.

All (7534) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:977:MET:SD	1:I:989:SER:HB2	1.36	1.66
1:L:964:CYS:SG	1:L:980:GLU:HA	1.43	1.57
1:J:620:PHE:CE2	1:J:662:GLN:HB2	1.42	1.54
1:J:620:PHE:CE1	1:J:887:LEU:HD11	1.44	1.52
1:Q:866:LYS:CD	1:Q:876:LEU:HB2	1.38	1.52
1:H:617:HIS:HB2	1:H:635:VAL:CG2	1.39	1.52
1:J:675:VAL:CB	1:J:702:VAL:HG21	1.40	1.50
1:H:997:LYS:HB3	1:H:998:PRO:CD	1.27	1.48
1:Q:979:ARG:CG	1:Q:985:LEU:HD23	1.43	1.48
1:J:620:PHE:CD1	1:J:887:LEU:HD11	1.48	1.46
1:L:685:PRO:CG	1:L:689:HIS:HB2	1.42	1.46
1:Q:866:LYS:HD2	1:Q:876:LEU:CB	1.42	1.45
1:L:625:LEU:CD1	1:L:669:LEU:HD21	1.44	1.44
1:H:484:MET:HE2	1:H:535:TYR:CZ	1.54	1.41
1:J:675:VAL:HG11	1:J:702:VAL:CG1	1.49	1.41
1:Q:657:MET:HB2	1:Q:676:LYS:CD	1.49	1.41
1:J:814:LEU:CD2	1:J:823:SER:HB3	1.50	1.41
1:J:675:VAL:CG1	1:J:702:VAL:HG11	1.49	1.40
1:J:729:ASN:HB2	1:J:735:ALA:CA	1.50	1.40
1:O:656:ARG:CD	1:O:676:LYS:HE3	1.50	1.40
1:H:952:HIS:C	1:H:990:LYS:HE2	1.46	1.39
1:Q:825:THR:HG21	1:Q:829:LEU:C	1.48	1.39
1:H:660:PHE:CB	1:H:677:LEU:HB2	1.53	1.38
1:H:930:HIS:HE1	1:H:1227:SER:CA	1.37	1.37
1:J:679:SER:HB2	1:J:702:VAL:N	1.34	1.37
1:Q:622:LEU:HD13	1:Q:665:HIS:NE2	1.36	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:685:PRO:HG3	1:L:689:HIS:CB	1.53	1.37
1:L:783:THR:HG22	1:L:822:ARG:NH2	1.37	1.36
1:M:761:LEU:HD12	1:M:804:HIS:ND1	1.37	1.36
1:J:475:LEU:HD21	1:J:486:LEU:CB	1.56	1.36
1:H:952:HIS:CA	1:H:990:LYS:HE2	1.55	1.36
1:O:523:PHE:CD1	1:O:527:TYR:HE2	1.43	1.35
1:L:483:ARG:NH1	1:L:531:ASN:HB3	1.38	1.35
1:Q:680:LEU:CG	1:Q:696:GLN:HB2	1.55	1.35
1:L:1062:LYS:CD	1:L:1066:PRO:HA	1.56	1.34
1:H:704:ARG:HB3	1:H:718:TYR:CD1	1.60	1.34
1:L:1061:LEU:CD2	1:L:1091:GLN:HG2	1.59	1.33
1:J:714:ILE:CG2	1:J:730:ILE:HD12	1.59	1.32
1:J:1012:THR:HA	1:J:1053:PHE:CD2	1.66	1.31
1:O:637:LEU:HD11	1:O:658:ALA:N	1.45	1.31
1:L:940:SER:HA	1:L:946:ARG:CD	1.58	1.31
1:H:660:PHE:CD1	1:H:677:LEU:HG	1.63	1.31
1:O:845:LEU:HB2	1:O:858:GLU:C	1.54	1.31
1:H:930:HIS:CE1	1:H:1227:SER:HA	1.66	1.30
1:H:1000:ILE:HG13	1:H:1020:ILE:CD1	1.61	1.30
1:O:523:PHE:HD1	1:O:527:TYR:CE2	1.50	1.30
1:H:617:HIS:CB	1:H:635:VAL:HG21	1.61	1.29
1:H:936:SER:CA	1:H:951:VAL:HG11	1.63	1.28
1:Q:657:MET:CB	1:Q:676:LYS:HD2	1.62	1.28
1:H:660:PHE:CG	1:H:677:LEU:HG	1.69	1.28
1:I:534:LYS:HE2	1:I:537:ARG:NH2	1.46	1.27
1:I:405:LEU:CB	1:I:410:LEU:HD21	1.64	1.27
1:I:977:MET:SD	1:I:989:SER:CB	2.24	1.26
1:I:987:VAL:HG22	1:I:998:PRO:C	1.60	1.26
1:J:813:PRO:CG	1:J:824:LYS:HB2	1.64	1.26
1:L:1061:LEU:HA	1:L:1066:PRO:CB	1.66	1.25
1:H:611:ARG:NH2	1:H:630:ILE:HD12	1.51	1.25
1:J:475:LEU:CD2	1:J:486:LEU:HB3	1.67	1.25
1:O:471:ILE:HG23	1:O:487:PHE:CZ	1.73	1.24
1:J:729:ASN:CB	1:J:735:ALA:HA	1.69	1.23
1:Q:888:LYS:CB	1:Q:898:VAL:HG12	1.66	1.23
1:J:761:LEU:HD11	1:J:817:ASP:OD2	1.34	1.23
1:O:1219:ASN:HB2	1:O:1238:GLN:CD	1.63	1.22
1:J:620:PHE:CD2	1:J:662:GLN:HA	1.73	1.22
1:Q:657:MET:HB2	1:Q:676:LYS:CE	1.66	1.22
1:Q:807:ASN:ND2	1:Q:855:GLN:HE21	1.36	1.22
1:L:966:GLU:OE1	1:L:1009:ILE:HB	1.37	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:620:PHE:CD1	1:J:887:LEU:CD1	2.22	1.21
1:H:970:TYR:CE2	1:H:1011:PRO:HA	1.75	1.21
1:I:977:MET:HE2	1:I:1009:ILE:CG2	1.70	1.20
1:H:930:HIS:CE1	1:H:1227:SER:HB2	1.75	1.20
1:I:405:LEU:HB3	1:I:410:LEU:CD2	1.70	1.20
1:K:73:VAL:O	1:K:77:VAL:HG12	1.36	1.20
1:H:476:LYS:HE3	1:H:529:CYS:SG	1.81	1.20
1:K:60:ARG:O	1:K:64:THR:HG23	1.41	1.20
1:K:1049:LEU:HB2	1:K:1061:LEU:CD1	1.70	1.20
1:O:656:ARG:CD	1:O:676:LYS:CE	2.20	1.20
1:O:1219:ASN:HB2	1:O:1238:GLN:OE1	1.39	1.20
1:J:718:TYR:CE1	1:J:728:ALA:HB3	1.77	1.19
1:Q:621:CYS:SG	1:Q:898:VAL:HG13	1.82	1.19
1:H:1000:ILE:CG1	1:H:1020:ILE:HD11	1.70	1.19
1:H:630:ILE:HG22	1:H:632:LEU:CD2	1.72	1.19
1:J:675:VAL:CG1	1:J:702:VAL:HG21	1.73	1.19
1:J:813:PRO:O	1:J:823:SER:HA	1.40	1.19
1:H:936:SER:HA	1:H:951:VAL:CG1	1.71	1.18
1:O:475:LEU:HD12	1:O:487:PHE:CE1	1.75	1.18
1:K:1057:PRO:HA	1:K:1070:VAL:O	1.41	1.18
1:J:675:VAL:HG11	1:J:702:VAL:CB	1.73	1.18
1:J:697:LEU:HB3	1:J:722:ASP:OD2	1.43	1.18
1:Q:888:LYS:CD	1:Q:898:VAL:HG11	1.72	1.18
1:I:968:ASN:HB2	1:I:990:LYS:CG	1.73	1.18
1:H:936:SER:CB	1:H:953:SER:HB3	1.74	1.17
1:Q:664:LYS:CD	1:Q:681:TRP:HZ2	1.57	1.17
1:H:476:LYS:CE	1:H:529:CYS:SG	2.31	1.17
1:H:997:LYS:CB	1:H:998:PRO:CD	2.19	1.17
1:Q:979:ARG:CG	1:Q:985:LEU:CD2	2.20	1.17
1:J:751:GLN:O	1:J:759:PRO:HD3	1.43	1.17
1:O:481:PRO:HA	1:O:484:MET:HE1	1.24	1.17
1:H:989:SER:CB	1:H:994:HIS:HA	1.73	1.17
1:O:525:LYS:HG3	1:O:526:PRO:HD3	1.23	1.16
1:H:952:HIS:O	1:H:991:GLU:HB3	1.45	1.16
1:Q:887:LEU:HD12	1:Q:909:GLU:OE2	1.45	1.16
1:I:532:ASP:HB2	1:I:533:PRO:CD	1.71	1.16
1:H:930:HIS:CE1	1:H:1227:SER:CB	2.29	1.15
1:J:488:ARG:HG3	1:J:491:PHE:HB2	1.24	1.15
1:Q:888:LYS:HD3	1:Q:898:VAL:HG11	1.25	1.15
1:J:620:PHE:CE2	1:J:662:GLN:CB	2.29	1.15
1:L:483:ARG:HH12	1:L:531:ASN:CB	1.59	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:684:CYS:SG	1:I:691:GLY:HA3	1.87	1.15
1:H:952:HIS:HA	1:H:990:LYS:CE	1.77	1.14
1:J:1012:THR:HA	1:J:1053:PHE:CE2	1.82	1.14
1:L:1009:ILE:CD1	1:L:1020:ILE:HA	1.76	1.14
1:M:630:ILE:HG13	1:M:644:LEU:HD23	1.30	1.14
1:I:987:VAL:HG22	1:I:999:ALA:N	1.61	1.14
1:L:685:PRO:CG	1:L:689:HIS:H	1.60	1.14
1:J:813:PRO:HG3	1:J:824:LYS:CB	1.76	1.14
1:L:783:THR:HG22	1:L:822:ARG:CZ	1.77	1.14
1:Q:979:ARG:HG2	1:Q:985:LEU:HD23	1.26	1.14
1:H:854:VAL:CG1	1:H:868:SER:HA	1.76	1.13
1:L:1062:LYS:N	1:L:1066:PRO:HB3	1.64	1.13
1:M:1062:LYS:O	1:M:1105:LYS:HE2	1.44	1.13
1:L:1007:SER:HB2	1:L:1021:ASN:ND2	1.64	1.13
1:O:845:LEU:CB	1:O:858:GLU:C	2.20	1.13
1:K:1049:LEU:CB	1:K:1061:LEU:HD12	1.78	1.13
1:H:997:LYS:CB	1:H:998:PRO:HD3	1.79	1.13
1:H:660:PHE:HB2	1:H:677:LEU:CB	1.77	1.13
1:J:675:VAL:HB	1:J:702:VAL:HG21	1.20	1.13
1:K:1068:ILE:HG21	1:K:1080:VAL:HA	1.18	1.13
1:O:656:ARG:CG	1:O:676:LYS:HE3	1.79	1.12
1:L:940:SER:HB3	1:L:967:PRO:HB3	1.17	1.12
1:L:964:CYS:SG	1:L:980:GLU:CA	2.36	1.12
1:H:977:MET:CB	1:H:1009:ILE:HD12	1.78	1.12
1:H:997:LYS:HB3	1:H:998:PRO:HD2	1.16	1.12
1:I:525:LYS:HG3	1:I:526:PRO:HD3	1.30	1.12
1:J:814:LEU:HD23	1:J:823:SER:HB3	1.28	1.12
1:O:472:GLY:HA2	1:O:487:PHE:CZ	1.84	1.12
1:I:990:LYS:HD2	1:I:1011:PRO:HD3	1.30	1.12
1:L:666:LEU:HD22	1:L:707:GLY:HA3	1.17	1.11
1:L:1061:LEU:CA	1:L:1066:PRO:HB3	1.79	1.11
1:J:716:ALA:HB3	1:J:718:TYR:CE1	1.84	1.11
1:Q:769:ARG:HH22	1:Q:824:LYS:HB3	1.14	1.11
1:I:977:MET:HE2	1:I:1009:ILE:HG23	1.32	1.11
1:Q:680:LEU:CD1	1:Q:696:GLN:HB2	1.80	1.11
1:H:617:HIS:CB	1:H:635:VAL:CG2	2.25	1.11
1:Q:888:LYS:HB3	1:Q:898:VAL:CG1	1.79	1.11
1:M:1109:LEU:HB3	1:M:1130:ASN:HD22	1.03	1.10
1:M:1049:LEU:HD12	1:M:1061:LEU:HD22	1.26	1.10
1:Q:979:ARG:HG3	1:Q:985:LEU:HD23	1.18	1.10
1:I:977:MET:HB2	1:I:990:LYS:N	1.66	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:660:PHE:CD1	1:H:677:LEU:CG	2.34	1.10
1:H:719:LEU:HD23	1:H:751:GLN:HG3	1.31	1.10
1:J:743:ILE:HB	1:J:775:LEU:HD21	1.34	1.10
1:I:968:ASN:HB2	1:I:990:LYS:HG2	1.26	1.10
1:I:1083:GLN:HE22	1:I:1085:GLU:HB3	1.02	1.10
1:H:975:MET:HA	1:H:988:ASP:O	1.51	1.10
1:J:768:ILE:CG2	1:J:780:VAL:HG13	1.82	1.10
1:J:768:ILE:HG22	1:J:780:VAL:HA	1.10	1.10
1:H:484:MET:CE	1:H:535:TYR:CZ	2.34	1.09
1:H:975:MET:CE	1:H:996:ILE:HG21	1.82	1.09
1:J:813:PRO:CG	1:J:824:LYS:CB	2.30	1.09
1:L:449:ILE:HG23	1:L:450:PRO:HD3	1.16	1.09
1:K:1043:VAL:HB	1:K:1062:LYS:HG2	1.11	1.09
1:J:808:VAL:CG2	1:J:853:ALA:H	1.66	1.09
1:J:813:PRO:CD	1:J:824:LYS:H	1.65	1.09
1:L:625:LEU:HD12	1:L:669:LEU:HD21	1.27	1.09
1:O:483:ARG:HE	1:O:531:ASN:HB3	1.15	1.09
1:H:614:VAL:CG2	1:H:633:THR:HG22	1.83	1.09
1:L:663:GLN:HG3	1:L:674:SER:HA	1.19	1.09
1:M:1106:TYR:HE2	1:M:1109:LEU:HD12	1.15	1.09
1:O:659:VAL:HG23	1:O:677:LEU:HD12	1.13	1.09
1:I:90:SER:OG	1:I:91:PRO:HD3	1.49	1.09
1:H:617:HIS:CA	1:H:635:VAL:HG21	1.83	1.08
1:H:1185:ILE:HD13	1:H:1225:ILE:HA	1.30	1.08
1:J:768:ILE:HG21	1:J:780:VAL:HG13	1.32	1.08
1:H:630:ILE:HG22	1:H:632:LEU:HD23	1.24	1.08
1:Q:680:LEU:HG	1:Q:696:GLN:CB	1.83	1.08
1:H:1019:LYS:HB2	1:H:1029:GLU:HB3	1.28	1.08
1:K:929:VAL:HG11	1:K:971:LEU:HB3	1.34	1.08
1:H:975:MET:HG2	1:H:993:ILE:HG22	1.27	1.08
1:H:975:MET:HE3	1:H:996:ILE:HG21	1.24	1.08
1:L:940:SER:HA	1:L:946:ARG:HD2	1.12	1.08
1:M:61:LEU:O	1:M:65:LEU:HD23	1.53	1.08
1:J:706:ILE:O	1:J:716:ALA:HB1	1.50	1.08
1:J:813:PRO:HD2	1:J:824:LYS:H	0.95	1.08
1:L:940:SER:HB2	1:L:946:ARG:NH1	1.66	1.08
1:L:1061:LEU:HA	1:L:1066:PRO:HB3	1.23	1.08
1:L:1062:LYS:HD2	1:L:1066:PRO:CA	1.82	1.08
1:I:1084:LEU:CD1	1:I:1105:LYS:HB2	1.83	1.08
1:Q:664:LYS:HD3	1:Q:681:TRP:CZ2	1.89	1.07
1:J:620:PHE:CE1	1:J:887:LEU:CD1	2.35	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:761:LEU:HD12	1:M:804:HIS:CG	1.90	1.07
1:O:656:ARG:HD3	1:O:676:LYS:HE3	1.29	1.07
1:H:997:LYS:HB3	1:H:998:PRO:HD3	1.11	1.07
1:J:706:ILE:HD12	1:J:717:PHE:O	1.55	1.07
1:L:940:SER:CB	1:L:967:PRO:HB3	1.83	1.07
1:H:656:ARG:NH1	1:H:680:LEU:HD12	1.70	1.07
1:H:682:PRO:HA	1:H:694:LYS:HD3	1.34	1.07
1:L:449:ILE:CG2	1:L:450:PRO:HD3	1.83	1.07
1:Q:659:VAL:HG21	1:Q:678:TRP:CZ3	1.90	1.07
1:Q:888:LYS:HZ2	1:Q:888:LYS:HA	1.01	1.07
1:K:987:VAL:O	1:K:996:ILE:HA	1.54	1.07
1:H:954:ALA:N	1:H:990:LYS:HZ1	1.53	1.06
1:I:1018:CYS:O	1:I:1029:GLU:HA	1.54	1.06
1:H:704:ARG:CB	1:H:718:TYR:HD1	1.68	1.06
1:K:1131:PRO:HD2	1:K:1145:VAL:O	1.55	1.06
1:H:719:LEU:CD2	1:H:751:GLN:HG3	1.85	1.06
1:J:806:PHE:CE1	1:J:813:PRO:HB3	1.91	1.06
1:Q:657:MET:HB2	1:Q:676:LYS:HD2	1.08	1.06
1:H:952:HIS:HA	1:H:990:LYS:HE2	1.30	1.05
1:J:757:HIS:CE1	1:J:778:TYR:CE2	2.44	1.05
1:J:978:THR:HG21	1:J:986:ALA:HB3	1.29	1.05
1:L:940:SER:HB2	1:L:946:ARG:HH11	0.93	1.05
1:M:1109:LEU:HB3	1:M:1130:ASN:ND2	1.71	1.05
1:Q:620:PHE:CZ	1:Q:661:ASN:C	2.35	1.05
1:I:968:ASN:HB3	1:I:990:LYS:HE3	1.38	1.05
1:I:990:LYS:HD3	1:I:1011:PRO:CG	1.85	1.05
1:M:1049:LEU:HB2	1:M:1061:LEU:HB3	1.37	1.05
1:H:484:MET:HE1	1:H:535:TYR:CE1	1.92	1.05
1:H:854:VAL:HG13	1:H:868:SER:HA	1.36	1.05
1:H:930:HIS:NE2	1:H:1227:SER:HB2	1.71	1.05
1:J:714:ILE:HG21	1:J:730:ILE:HD12	1.07	1.05
1:L:625:LEU:CG	1:L:669:LEU:HD21	1.86	1.05
1:I:977:MET:HB2	1:I:990:LYS:H	0.91	1.05
1:H:719:LEU:HD23	1:H:751:GLN:CG	1.87	1.05
1:M:153:LEU:HD11	1:M:320:ASN:ND2	1.70	1.05
1:O:523:PHE:CD1	1:O:527:TYR:CE2	2.34	1.05
1:H:1009:ILE:HG21	1:H:1018:CYS:SG	1.97	1.04
1:J:675:VAL:CB	1:J:702:VAL:CG2	2.35	1.04
1:J:807:ASN:HB2	1:J:812:THR:HG23	1.31	1.04
1:Q:675:VAL:HG12	1:Q:681:TRP:CD1	1.92	1.04
1:K:1029:GLU:HB2	1:K:1038:GLY:O	1.56	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1066:PRO:HB3	1:K:1082:PHE:HA	1.05	1.04
1:J:781:VAL:HG13	1:J:822:ARG:NH1	1.70	1.04
1:J:808:VAL:HG21	1:J:853:ALA:H	1.19	1.04
1:J:814:LEU:HD21	1:J:823:SER:HB3	1.40	1.04
1:Q:621:CYS:HB3	1:Q:899:SER:C	1.82	1.04
1:Q:888:LYS:HB3	1:Q:898:VAL:HG12	1.08	1.04
1:L:757:HIS:HA	1:L:772:VAL:HG23	1.39	1.03
1:I:986:ALA:O	1:I:999:ALA:HB2	1.58	1.03
1:H:484:MET:CE	1:H:535:TYR:CE1	2.41	1.03
1:J:830:LEU:HD23	1:J:830:LEU:H	1.23	1.03
1:H:660:PHE:CB	1:H:676:LYS:HB2	1.87	1.03
1:J:675:VAL:HG11	1:J:702:VAL:CG2	1.88	1.03
1:J:704:ARG:HH11	1:J:749:GLN:HG3	1.20	1.03
1:J:965:LEU:HD23	1:J:981:ARG:CZ	1.88	1.02
1:L:1062:LYS:HD2	1:L:1066:PRO:HA	1.07	1.02
1:Q:640:GLU:H	1:Q:652:SER:HA	1.18	1.02
1:H:1009:ILE:CG2	1:H:1018:CYS:SG	2.48	1.02
1:L:940:SER:CA	1:L:946:ARG:HD2	1.90	1.02
1:O:481:PRO:HA	1:O:484:MET:CE	1.89	1.02
1:I:1084:LEU:HD13	1:I:1105:LYS:CB	1.89	1.02
1:I:1084:LEU:HD13	1:I:1105:LYS:HB2	1.04	1.02
1:H:614:VAL:HG21	1:H:633:THR:HG22	1.03	1.02
1:H:987:VAL:CG2	1:H:996:ILE:HG23	1.89	1.02
1:H:989:SER:HB2	1:H:994:HIS:HA	1.07	1.02
1:L:663:GLN:OE1	1:L:674:SER:HB3	1.59	1.02
1:L:1009:ILE:HD13	1:L:1020:ILE:HA	1.38	1.02
1:M:1106:TYR:CD2	1:M:1109:LEU:HA	1.95	1.02
1:H:977:MET:HB3	1:H:1009:ILE:HD12	1.42	1.02
1:L:625:LEU:CD1	1:L:669:LEU:CD2	2.36	1.02
1:I:1012:THR:HG22	1:I:1019:LYS:NZ	1.75	1.01
1:J:1056:GLU:HB2	1:J:1057:PRO:CD	1.89	1.01
1:H:660:PHE:CG	1:H:677:LEU:CG	2.42	1.01
1:J:675:VAL:CG2	1:J:702:VAL:HG21	1.90	1.01
1:J:757:HIS:CE1	1:J:778:TYR:CD2	2.49	1.01
1:L:683:ASP:O	1:L:691:GLY:HA2	1.58	1.01
1:L:756:SER:O	1:L:772:VAL:HB	1.61	1.01
1:H:658:ALA:CB	1:H:676:LYS:HE2	1.90	1.00
1:H:952:HIS:CA	1:H:990:LYS:CE	2.37	1.00
1:L:1061:LEU:HD22	1:L:1091:GLN:HG2	1.38	1.00
1:H:617:HIS:HB2	1:H:635:VAL:HG21	1.03	1.00
1:H:1019:LYS:CB	1:H:1029:GLU:CB	2.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:675:VAL:HB	1:J:702:VAL:CG2	1.91	1.00
1:H:531:ASN:HB3	1:H:536:GLU:OE2	1.60	1.00
1:L:757:HIS:CE1	1:L:771:PHE:HD1	1.78	1.00
1:M:937:VAL:O	1:M:948:ILE:HA	1.60	1.00
1:O:532:ASP:CG	1:O:533:PRO:HD2	1.87	1.00
1:I:1102:VAL:HG12	1:I:1109:LEU:HD23	1.43	1.00
1:H:616:LEU:HD23	1:H:635:VAL:HG13	1.43	1.00
1:J:1012:THR:CA	1:J:1053:PHE:CD2	2.43	1.00
1:H:614:VAL:HG21	1:H:633:THR:CG2	1.92	0.99
1:I:752:GLU:HB2	1:I:757:HIS:CB	1.90	0.99
1:I:979:ARG:NE	1:I:1020:ILE:HD11	1.76	0.99
1:H:987:VAL:HG21	1:H:996:ILE:CG2	1.93	0.99
1:J:182:ASN:HA	1:J:245:LEU:HB2	1.45	0.99
1:L:385:LEU:CD1	1:L:466:TYR:CE2	2.45	0.99
1:Q:849:LEU:HD21	1:Q:855:GLN:HA	1.44	0.99
1:L:940:SER:CB	1:L:946:ARG:HH11	1.75	0.99
1:Q:680:LEU:HG	1:Q:696:GLN:HB2	1.03	0.99
1:Q:849:LEU:CD2	1:Q:855:GLN:HA	1.93	0.99
1:J:716:ALA:CB	1:J:718:TYR:CE1	2.46	0.99
1:O:656:ARG:HD3	1:O:676:LYS:CE	1.87	0.99
1:L:685:PRO:CD	1:L:689:HIS:H	1.74	0.99
1:O:659:VAL:CG2	1:O:677:LEU:HD12	1.90	0.99
1:Q:659:VAL:HG21	1:Q:678:TRP:HZ3	1.25	0.98
1:J:813:PRO:HD2	1:J:824:LYS:N	1.77	0.98
1:L:683:ASP:HB3	1:L:693:SER:HB3	1.43	0.98
1:J:1056:GLU:CB	1:J:1057:PRO:HD3	1.88	0.98
1:H:630:ILE:CG2	1:H:632:LEU:CD2	2.41	0.98
1:J:729:ASN:N	1:J:735:ALA:CB	2.26	0.98
1:J:777:ARG:HH21	1:J:779:TYR:HA	1.25	0.98
1:J:1056:GLU:HB2	1:J:1057:PRO:HD3	0.99	0.98
1:L:685:PRO:HG2	1:L:689:HIS:H	1.25	0.98
1:J:675:VAL:HG11	1:J:702:VAL:HG11	0.99	0.98
1:Q:622:LEU:CD1	1:Q:665:HIS:NE2	2.25	0.98
1:I:449:ILE:HG23	1:I:450:PRO:HD3	1.44	0.98
1:J:714:ILE:HG21	1:J:730:ILE:CD1	1.93	0.98
1:H:658:ALA:HB3	1:H:676:LYS:HE2	1.01	0.98
1:H:1019:LYS:HB2	1:H:1029:GLU:CB	1.94	0.98
2:G:46:VAL:HG21	1:Q:80:VAL:O	1.64	0.98
1:O:659:VAL:HG23	1:O:677:LEU:CD1	1.93	0.97
1:Q:639:GLY:HA3	1:Q:653:ASP:N	1.78	0.97
1:Q:664:LYS:CD	1:Q:681:TRP:CZ2	2.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1018:CYS:N	1:I:1031:ILE:CG1	2.26	0.97
1:J:475:LEU:HD21	1:J:486:LEU:HB3	1.01	0.97
1:Q:849:LEU:HD21	1:Q:855:GLN:CA	1.94	0.97
1:I:534:LYS:HE2	1:I:537:ARG:HH21	1.29	0.97
1:K:449:ILE:HG23	1:K:450:PRO:HD3	1.43	0.97
1:L:757:HIS:HE1	1:L:771:PHE:HD1	1.06	0.97
1:I:977:MET:CB	1:I:990:LYS:H	1.78	0.97
1:I:987:VAL:HG22	1:I:998:PRO:CA	1.94	0.97
1:H:883:ILE:HD12	1:H:902:ILE:HB	1.43	0.97
1:J:761:LEU:HB3	1:J:804:HIS:CD2	1.99	0.97
1:L:1061:LEU:C	1:L:1066:PRO:HB3	1.90	0.97
1:H:928:VAL:HB	1:H:1234:HIS:CD2	2.00	0.96
1:J:729:ASN:H	1:J:735:ALA:HB2	1.30	0.96
1:K:449:ILE:CG2	1:K:450:PRO:HD3	1.94	0.96
1:M:153:LEU:HD11	1:M:320:ASN:HD21	1.25	0.96
1:Q:644:LEU:HD21	1:Q:897:ASN:HD21	1.25	0.96
1:L:940:SER:HA	1:L:946:ARG:HD3	1.46	0.96
1:O:174:MET:HE1	1:O:241:LEU:H	1.30	0.96
1:I:990:LYS:HD3	1:I:1011:PRO:HG3	1.45	0.96
1:H:1149:LEU:HA	1:H:1181:CYS:HB2	1.46	0.96
1:Q:657:MET:HB2	1:Q:676:LYS:HE2	1.45	0.96
1:L:783:THR:CG2	1:L:822:ARG:NH2	2.28	0.96
1:I:525:LYS:CG	1:I:526:PRO:HD3	1.94	0.96
1:H:621:CYS:HB3	1:H:900:GLU:CD	1.89	0.96
1:J:679:SER:CB	1:J:702:VAL:N	2.29	0.96
1:L:1062:LYS:HZ2	1:L:1062:LYS:HB3	1.24	0.96
1:O:656:ARG:HD2	1:O:676:LYS:CE	1.94	0.96
1:Q:825:THR:OG1	1:Q:830:LEU:HA	1.66	0.96
1:Q:888:LYS:CG	1:Q:898:VAL:CG1	2.44	0.96
1:L:385:LEU:HD13	1:L:466:TYR:CE2	2.01	0.96
1:M:1106:TYR:HD2	1:M:1109:LEU:HA	1.31	0.96
2:A:23:ASN:HA	2:A:26:VAL:HG12	1.48	0.96
1:Q:671:CYS:HB3	1:Q:683:ASP:OD2	1.64	0.96
1:H:930:HIS:HE1	1:H:1227:SER:HA	0.81	0.96
1:J:946:ARG:HB2	1:J:977:MET:SD	2.06	0.96
1:O:472:GLY:CA	1:O:487:PHE:CZ	2.49	0.95
1:I:532:ASP:HB2	1:I:533:PRO:HD2	1.45	0.95
1:I:1102:VAL:CG1	1:I:1109:LEU:HD23	1.95	0.95
1:H:941:ASN:ND2	1:H:960:MET:SD	2.39	0.95
1:J:808:VAL:HG23	1:J:853:ALA:HA	1.47	0.95
1:J:1052:GLN:HB3	1:J:1058:ILE:HG21	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1066:PRO:CB	1:K:1082:PHE:HA	1.95	0.95
1:H:952:HIS:C	1:H:990:LYS:CE	2.40	0.95
1:L:757:HIS:HA	1:L:772:VAL:CG2	1.97	0.95
1:Q:611:ARG:HG3	1:Q:647:ASP:OD1	1.64	0.95
1:Q:809:GLU:HG2	1:Q:811:ASP:HB2	1.47	0.95
1:J:768:ILE:HG22	1:J:780:VAL:CA	1.97	0.95
1:L:1092:PRO:HG2	1:L:1135:VAL:HG22	1.48	0.95
1:M:939:GLY:C	1:M:947:GLU:H	1.75	0.95
1:Q:664:LYS:HD3	1:Q:681:TRP:HZ2	1.24	0.95
1:J:718:TYR:CE1	1:J:728:ALA:CB	2.50	0.95
1:H:1019:LYS:CB	1:H:1029:GLU:HB3	1.97	0.95
1:J:761:LEU:CB	1:J:804:HIS:HD2	1.79	0.95
1:J:1019:LYS:HZ1	1:J:1053:PHE:HB2	1.32	0.94
1:H:660:PHE:CG	1:H:677:LEU:HB2	2.02	0.94
1:J:106:TYR:HD2	1:J:176:PHE:CE2	1.85	0.94
1:J:620:PHE:CD2	1:J:662:GLN:CA	2.50	0.94
1:M:1109:LEU:CB	1:M:1130:ASN:HD22	1.78	0.94
1:L:783:THR:HG22	1:L:822:ARG:HH21	1.28	0.94
1:L:978:THR:HG21	1:L:986:ALA:C	1.92	0.94
1:M:761:LEU:HB2	1:M:804:HIS:CD2	2.01	0.94
1:I:449:ILE:CG2	1:I:450:PRO:HD3	1.97	0.94
1:J:716:ALA:HB3	1:J:718:TYR:HE1	1.19	0.94
1:J:717:PHE:CE2	1:J:727:GLU:OE2	2.21	0.94
1:O:659:VAL:CG2	1:O:677:LEU:CD1	2.45	0.94
1:I:970:TYR:CZ	1:I:991:GLU:HG3	2.01	0.94
1:J:1083:GLN:HE22	1:J:1101:ASP:HB3	1.32	0.94
2:G:34:LEU:O	2:G:37:GLU:HG3	1.67	0.94
1:H:620:PHE:CE1	1:H:901:HIS:CE1	2.56	0.94
1:H:987:VAL:HG21	1:H:996:ILE:HG23	1.45	0.94
1:J:480:HIS:HB2	1:J:531:ASN:HB3	1.49	0.94
1:J:675:VAL:CG1	1:J:702:VAL:CG2	2.42	0.94
1:O:1068:ILE:HA	1:O:1080:VAL:HG11	1.50	0.94
1:I:752:GLU:HB2	1:I:757:HIS:HB2	1.50	0.94
1:I:970:TYR:CE1	1:I:991:GLU:HG3	2.03	0.94
1:J:1012:THR:HA	1:J:1053:PHE:HD2	1.32	0.94
1:J:752:GLU:OE2	1:J:806:PHE:CZ	2.21	0.94
1:J:814:LEU:CD2	1:J:823:SER:CB	2.45	0.94
1:Q:611:ARG:NH1	1:Q:630:ILE:HD13	1.83	0.94
1:Q:979:ARG:CD	1:Q:985:LEU:HD21	1.98	0.94
1:M:761:LEU:CD1	1:M:804:HIS:ND1	2.30	0.93
1:Q:620:PHE:CZ	1:Q:662:GLN:N	2.36	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:746:TRP:N	1:I:763:THR:HG1	1.66	0.93
1:H:611:ARG:HH22	1:H:630:ILE:HD12	1.14	0.93
1:J:757:HIS:NE2	1:J:778:TYR:CE2	2.35	0.93
1:M:62:PHE:HD1	1:M:65:LEU:HD21	1.32	0.93
1:H:970:TYR:CD2	1:H:1011:PRO:HA	2.03	0.93
1:J:761:LEU:HB3	1:J:804:HIS:HD2	1.33	0.93
1:Q:979:ARG:CD	1:Q:985:LEU:CD2	2.47	0.93
1:L:1007:SER:HB2	1:L:1021:ASN:HD21	1.19	0.93
1:M:61:LEU:C	1:M:65:LEU:HD23	1.93	0.93
1:M:1106:TYR:CB	1:M:1110:GLN:HE22	1.81	0.93
1:K:941:ASN:ND2	1:K:960:MET:SD	2.42	0.93
1:K:1049:LEU:HB2	1:K:1061:LEU:HD12	0.93	0.93
1:H:656:ARG:HH12	1:H:680:LEU:HD12	1.28	0.93
1:L:483:ARG:HH12	1:L:531:ASN:HB3	0.88	0.93
1:Q:825:THR:HG21	1:Q:829:LEU:O	1.68	0.93
1:I:1108:SER:H	1:I:1130:ASN:ND2	1.67	0.93
1:H:1019:LYS:CB	1:H:1029:GLU:HB2	2.00	0.92
1:H:658:ALA:HB3	1:H:676:LYS:CE	1.95	0.92
1:J:814:LEU:HD23	1:J:823:SER:CB	1.99	0.92
1:M:457:ASP:HB3	1:M:583:ARG:HE	1.34	0.92
1:L:685:PRO:CG	1:L:689:HIS:CB	2.28	0.92
1:J:743:ILE:HB	1:J:775:LEU:CD2	1.99	0.92
1:Q:664:LYS:CG	1:Q:681:TRP:CZ2	2.51	0.92
1:H:977:MET:SD	1:H:1009:ILE:HD13	2.09	0.92
1:Q:769:ARG:NH2	1:Q:824:LYS:HB3	1.84	0.92
1:J:620:PHE:HE2	1:J:662:GLN:HB2	1.32	0.92
1:J:101:MET:O	1:J:105:MET:HG3	1.70	0.92
1:J:813:PRO:HG2	1:J:824:LYS:N	1.85	0.92
1:H:660:PHE:CE1	1:H:677:LEU:HG	2.05	0.92
1:H:678:TRP:HA	1:H:678:TRP:CE3	2.05	0.92
1:H:929:VAL:HG13	1:H:931:VAL:HG22	1.52	0.92
1:J:106:TYR:CD2	1:J:176:PHE:HE2	1.88	0.92
1:L:1024:SER:HB3	1:L:1026:PHE:CE2	2.04	0.92
1:L:1061:LEU:HD21	1:L:1091:GLN:HG2	1.48	0.92
1:H:480:HIS:HB2	1:H:530:ASP:C	1.94	0.92
1:J:482:GLU:O	1:J:486:LEU:HB2	1.69	0.92
1:J:762:LYS:CG	1:J:764:MET:HE1	1.99	0.92
1:L:1061:LEU:HA	1:L:1066:PRO:HB2	1.49	0.92
1:O:637:LEU:CD1	1:O:658:ALA:H	1.81	0.92
1:I:1018:CYS:N	1:I:1031:ILE:HG12	1.85	0.92
1:H:1030:GLN:HA	1:H:1030:GLN:HE21	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:977:MET:HE2	1:I:1009:ILE:HG21	1.47	0.91
1:H:287:HIS:HB3	1:H:290:MET:HG2	1.52	0.91
1:H:660:PHE:CD1	1:H:677:LEU:CD1	2.53	0.91
1:Q:881:GLY:O	1:Q:887:LEU:HD11	1.69	0.91
1:L:685:PRO:CG	1:L:689:HIS:N	2.32	0.91
1:Q:888:LYS:HA	1:Q:888:LYS:NZ	1.84	0.91
1:I:1065:SER:O	1:I:1084:LEU:HD12	1.70	0.91
1:L:666:LEU:CD2	1:L:707:GLY:HA3	2.00	0.91
1:Q:825:THR:CG2	1:Q:829:LEU:C	2.43	0.91
1:H:1012:THR:HG21	1:H:1018:CYS:HA	1.49	0.91
1:J:806:PHE:HE1	1:J:813:PRO:HB3	1.24	0.91
1:M:1090:LEU:O	1:M:1103:SER:HA	1.70	0.91
1:K:1068:ILE:HD13	1:K:1080:VAL:HG22	1.53	0.91
1:J:48:ILE:HA	1:J:60:ARG:HH22	1.35	0.91
1:L:1062:LYS:H	1:L:1066:PRO:HB3	1.26	0.91
1:K:619:ASP:HB2	1:K:634:ASP:HA	1.50	0.91
1:H:154:GLY:O	1:H:322:ARG:HG3	1.71	0.91
1:Q:616:LEU:CB	1:Q:635:VAL:HB	2.00	0.91
1:I:534:LYS:CE	1:I:537:ARG:NH2	2.33	0.91
1:H:975:MET:HE3	1:H:996:ILE:CG2	2.01	0.90
1:L:757:HIS:HE1	1:L:771:PHE:CD1	1.88	0.90
1:H:936:SER:HB3	1:H:953:SER:HB3	1.50	0.90
1:L:978:THR:HG23	1:L:986:ALA:H	1.36	0.90
1:L:213:HIS:H	1:L:220:ARG:HD2	1.36	0.90
1:J:813:PRO:HG3	1:J:824:LYS:HB2	0.91	0.90
1:H:1052:GLN:NE2	1:H:1058:ILE:HG13	1.86	0.90
1:J:656:ARG:HH22	1:J:675:VAL:HA	1.34	0.90
1:L:625:LEU:HD11	1:L:669:LEU:HD21	1.50	0.90
1:H:854:VAL:HG12	1:H:867:ARG:O	1.72	0.90
1:O:472:GLY:N	1:O:487:PHE:HZ	1.70	0.90
1:J:806:PHE:CD1	1:J:813:PRO:HA	2.06	0.90
1:L:757:HIS:CE1	1:L:771:PHE:CD1	2.60	0.90
1:J:718:TYR:HE1	1:J:728:ALA:HB3	1.16	0.90
1:I:987:VAL:CG2	1:I:998:PRO:C	2.45	0.90
1:H:989:SER:HB2	1:H:994:HIS:CA	1.99	0.89
1:L:449:ILE:HG23	1:L:450:PRO:CD	2.02	0.89
1:J:106:TYR:HD2	1:J:176:PHE:HE2	1.15	0.89
1:L:927:GLN:O	1:L:937:VAL:HG13	1.71	0.89
1:I:1083:GLN:NE2	1:I:1085:GLU:HB3	1.86	0.89
1:J:1050:PRO:HB3	1:J:1061:LEU:H	1.35	0.89
1:L:923:ALA:HB2	1:L:941:ASN:O	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:927:GLN:HE22	1:L:929:VAL:HG13	1.36	0.89
1:K:679:SER:HG	1:K:702:VAL:N	1.68	0.89
1:L:1009:ILE:HD11	1:L:1020:ILE:HA	1.54	0.89
1:Q:888:LYS:CB	1:Q:898:VAL:CG1	2.43	0.89
1:J:743:ILE:HD13	1:J:775:LEU:HD13	1.53	0.89
1:J:1047:THR:HG22	1:J:1062:LYS:HB2	1.54	0.89
1:O:656:ARG:NH1	1:O:678:TRP:CE3	2.40	0.89
1:H:620:PHE:CE1	1:H:901:HIS:HE1	1.88	0.89
1:M:1106:TYR:CE2	1:M:1109:LEU:HD12	2.07	0.89
1:Q:622:LEU:HD13	1:Q:665:HIS:HE2	1.10	0.89
1:Q:825:THR:HG21	1:Q:830:LEU:N	1.87	0.89
1:J:761:LEU:CB	1:J:804:HIS:CD2	2.56	0.89
1:H:1000:ILE:HG13	1:H:1020:ILE:HD11	0.90	0.89
1:J:680:LEU:HD22	1:J:696:GLN:CB	2.02	0.89
1:J:174:MET:HE2	1:J:178:ILE:HG13	1.54	0.89
1:O:637:LEU:HD11	1:O:658:ALA:H	1.06	0.89
1:J:829:LEU:H	1:J:829:LEU:HD22	1.37	0.88
1:M:182:ASN:HA	1:M:245:LEU:HB2	1.53	0.88
1:J:675:VAL:HG11	1:J:702:VAL:HG21	1.52	0.88
1:H:614:VAL:CG2	1:H:633:THR:CG2	2.50	0.88
1:H:979:ARG:HB2	1:H:1007:SER:HA	1.53	0.88
1:O:637:LEU:CD1	1:O:658:ALA:N	2.35	0.88
2:B:10:MET:SD	2:B:15:ARG:NH1	2.47	0.88
2:G:10:MET:SD	2:G:15:ARG:NH1	2.46	0.88
1:I:964:CYS:HB3	1:I:979:ARG:HB2	1.56	0.88
1:I:1029:GLU:OE2	1:I:1031:ILE:CD1	2.21	0.88
1:H:952:HIS:O	1:H:991:GLU:CB	2.22	0.88
1:Q:939:GLY:HA2	1:Q:990:LYS:HZ1	1.39	0.88
1:Q:621:CYS:HB2	1:Q:899:SER:N	1.89	0.88
1:J:675:VAL:CG1	1:J:702:VAL:CG1	2.25	0.88
1:M:940:SER:N	1:M:947:GLU:H	1.72	0.88
1:J:620:PHE:CD2	1:J:662:GLN:HB2	2.09	0.88
1:L:1009:ILE:CD1	1:L:1020:ILE:HG12	2.03	0.88
1:M:498:GLU:HG3	1:M:520:GLN:HE21	1.39	0.88
1:O:1068:ILE:HB	1:O:1077:GLN:HG2	1.55	0.87
1:Q:833:LYS:HD3	1:Q:835:SER:HB3	1.55	0.87
1:L:685:PRO:HG2	1:L:689:HIS:N	1.89	0.87
1:O:523:PHE:O	1:O:527:TYR:HD2	1.54	0.87
1:H:216:ASN:HB3	1:H:219:LEU:HB2	1.57	0.87
1:H:977:MET:HB3	1:H:1009:ILE:CD1	2.03	0.87
1:H:1019:LYS:HB3	1:H:1029:GLU:HB2	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:757:HIS:HB3	1:L:770:CYS:O	1.75	0.87
1:O:880:GLU:OE2	1:O:907:ILE:HG21	1.75	0.87
1:Q:664:LYS:CG	1:Q:681:TRP:HZ2	1.87	0.87
1:H:476:LYS:NZ	1:H:529:CYS:SG	2.47	0.87
1:H:954:ALA:HB2	1:H:969:VAL:CG2	2.04	0.87
1:J:108:GLU:HG3	1:I:142:ARG:HH22	1.37	0.87
1:L:1061:LEU:CD2	1:L:1091:GLN:CG	2.49	0.87
1:L:1123:VAL:HG13	1:L:1125:HIS:ND1	1.88	0.87
1:L:1227:SER:HB2	1:L:1234:HIS:HE1	1.40	0.87
1:Q:616:LEU:HD12	1:Q:635:VAL:O	1.73	0.87
1:Q:807:ASN:ND2	1:Q:855:GLN:NE2	2.22	0.87
1:I:990:LYS:HD2	1:I:1011:PRO:CD	2.05	0.87
1:I:990:LYS:CB	1:I:1011:PRO:HG3	2.05	0.87
1:M:969:VAL:H	1:M:1011:PRO:HG3	1.39	0.87
1:O:525:LYS:CG	1:O:526:PRO:HD3	2.04	0.87
1:L:101:MET:O	1:L:105:MET:CE	2.23	0.87
1:Q:878:THR:HG21	1:Q:887:LEU:O	1.72	0.87
1:J:35:MET:HE2	1:J:40:LEU:H	1.40	0.86
1:J:487:PHE:HB3	1:J:489:MET:HE2	1.54	0.86
1:J:729:ASN:HB2	1:J:735:ALA:HA	0.90	0.86
1:J:808:VAL:HG23	1:J:853:ALA:CA	2.05	0.86
1:O:1219:ASN:CB	1:O:1238:GLN:CD	2.47	0.86
1:J:488:ARG:CD	1:J:491:PHE:HD2	1.89	0.86
1:L:446:HIS:O	1:L:450:PRO:HG2	1.75	0.86
1:O:345:ASN:OD1	1:O:348:LYS:HB3	1.74	0.86
1:I:1029:GLU:OE2	1:I:1031:ILE:HD12	1.74	0.86
1:H:660:PHE:HB3	1:H:676:LYS:HB2	1.57	0.86
1:H:531:ASN:HD22	1:H:535:TYR:HB2	1.39	0.86
1:H:660:PHE:CG	1:H:677:LEU:CB	2.59	0.86
1:Q:685:PRO:HG2	1:Q:689:HIS:N	1.90	0.86
1:J:106:TYR:HE2	1:J:171:GLN:HB3	1.40	0.86
1:L:950:TRP:HB2	1:L:955:ASP:HB2	1.55	0.86
1:Q:673:GLY:HA3	1:Q:682:PRO:O	1.75	0.86
1:Q:849:LEU:HD11	1:Q:854:VAL:O	1.73	0.86
1:K:1049:LEU:H	1:K:1061:LEU:HB3	1.39	0.86
1:J:620:PHE:CG	1:J:662:GLN:HA	2.10	0.86
1:J:926:LYS:HE2	1:J:1223:GLN:HE21	1.41	0.86
1:H:617:HIS:HB2	1:H:635:VAL:HG23	1.53	0.86
1:K:447:TYR:C	1:K:450:PRO:HD2	2.00	0.86
1:O:1007:SER:HB3	1:O:1047:THR:O	1.75	0.86
1:L:888:LYS:HG2	1:L:899:SER:HA	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:483:ARG:NH2	1:J:487:PHE:CD1	2.44	0.85
1:J:769:ARG:NH1	1:J:824:LYS:HD2	1.91	0.85
1:Q:618:ASN:HD22	1:Q:901:HIS:H	1.19	0.85
1:I:112:ARG:HH12	1:I:115:ASN:HD22	1.23	0.85
1:I:446:HIS:O	1:I:450:PRO:HG2	1.76	0.85
1:I:1012:THR:HG22	1:I:1019:LYS:HZ1	1.35	0.85
1:H:642:THR:HG22	1:H:649:SER:HA	1.57	0.85
1:H:930:HIS:CE1	1:H:1227:SER:CA	2.29	0.85
1:J:807:ASN:ND2	1:J:853:ALA:HB1	1.91	0.85
1:H:660:PHE:CA	1:H:676:LYS:HB2	2.06	0.85
1:H:769:ARG:HB2	1:H:778:TYR:HB2	1.56	0.85
1:L:681:TRP:CH2	1:L:705:PHE:HB3	2.11	0.85
1:Q:639:GLY:HA3	1:Q:653:ASP:H	1.39	0.85
1:L:1062:LYS:CD	1:L:1066:PRO:CA	2.47	0.85
1:J:475:LEU:HD21	1:J:486:LEU:CG	2.07	0.85
1:O:748:GLU:HB2	1:O:761:LEU:HB2	1.58	0.85
2:G:48:MET:HE1	2:G:82:ARG:HD2	1.58	0.85
1:I:1109:LEU:HD21	1:I:1133:ALA:HB2	1.58	0.85
1:H:633:THR:HB	1:H:638:GLU:HG3	1.59	0.85
1:J:139:LEU:HB3	1:J:169:LYS:HZ3	1.40	0.85
1:J:729:ASN:N	1:J:735:ALA:HB1	1.92	0.85
1:L:833:LYS:HD3	1:L:872:ARG:HB2	1.57	0.85
2:G:58:LYS:HZ1	1:Q:656:ARG:HG2	1.39	0.85
1:M:125:VAL:HG23	1:M:303:LYS:HD3	1.59	0.84
1:I:987:VAL:CG2	1:I:998:PRO:CA	2.55	0.84
1:K:1060:TYR:CE2	1:K:1070:VAL:HG21	2.12	0.84
1:H:630:ILE:CG2	1:H:632:LEU:HD23	2.05	0.84
1:H:930:HIS:HE1	1:H:1227:SER:CB	1.76	0.84
1:J:749:GLN:HB2	1:J:759:PRO:O	1.76	0.84
1:Q:746:TRP:HA	1:Q:762:LYS:HG2	1.59	0.84
1:I:142:ARG:HD3	1:I:144:ALA:H	1.42	0.84
1:K:174:MET:HE1	1:K:240:CYS:HA	1.56	0.84
1:J:761:LEU:CD1	1:J:817:ASP:OD2	2.23	0.84
1:J:762:LYS:HG3	1:J:764:MET:HE1	1.56	0.84
1:J:1026:PHE:CD2	1:J:1039:VAL:HG11	2.11	0.84
1:Q:1084:LEU:HD21	1:Q:1105:LYS:HD2	1.57	0.84
1:I:990:LYS:CD	1:I:1011:PRO:HD3	2.06	0.84
1:M:210:ARG:NH1	1:M:211:SER:OG	2.11	0.84
1:I:990:LYS:CD	1:I:1011:PRO:CD	2.55	0.84
1:H:660:PHE:CB	1:H:677:LEU:CB	2.47	0.84
1:H:1012:THR:CG2	1:H:1018:CYS:HA	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:723:ALA:N	1:J:744:LEU:HD12	1.92	0.84
1:H:965:LEU:HD13	1:H:979:ARG:O	1.77	0.84
2:C:83:GLY:HA2	1:K:87:PHE:HB2	1.59	0.84
1:K:1042:ASP:OD2	1:K:1060:TYR:CZ	2.31	0.84
1:H:484:MET:HE2	1:H:535:TYR:CE2	2.13	0.84
1:L:771:PHE:HE1	1:L:773:GLN:OE1	1.60	0.84
1:Q:1199:ASP:HB3	1:Q:1219:ASN:HB3	1.60	0.84
1:I:484:MET:HE1	1:I:531:ASN:HD21	1.41	0.84
1:I:938:SER:HB2	1:I:967:PRO:O	1.76	0.84
1:H:563:ARG:HH22	1:H:1245:LYS:HG3	1.43	0.84
1:O:522:LYS:O	1:O:526:PRO:CG	2.26	0.84
1:H:611:ARG:NH2	1:H:630:ILE:CD1	2.40	0.84
2:F:17:HIS:O	2:F:21:ASN:HB2	1.78	0.84
1:Q:644:LEU:CD2	1:Q:897:ASN:OD1	2.25	0.84
1:Q:705:PHE:HB3	1:Q:718:TYR:HA	1.59	0.84
1:I:752:GLU:HB2	1:I:757:HIS:HB3	1.60	0.84
1:J:706:ILE:CD1	1:J:717:PHE:O	2.24	0.84
1:J:716:ALA:O	1:J:718:TYR:CD1	2.31	0.84
1:M:62:PHE:CD1	1:M:65:LEU:HD21	2.12	0.84
1:J:475:LEU:CD2	1:J:486:LEU:CB	2.38	0.83
1:L:966:GLU:OE1	1:L:1009:ILE:CB	2.24	0.83
1:O:182:ASN:HA	1:O:245:LEU:HB2	1.58	0.83
1:H:660:PHE:HB2	1:H:677:LEU:HB2	0.84	0.83
1:O:475:LEU:HD12	1:O:487:PHE:HE1	1.42	0.83
1:K:971:LEU:HD21	1:K:1013:HIS:O	1.79	0.83
1:O:39:ILE:HG13	1:O:72:MET:HB3	1.58	0.83
1:O:609:GLU:HB2	1:O:908:TYR:HB3	1.60	0.83
1:J:781:VAL:HG13	1:J:822:ARG:HH12	1.43	0.83
1:L:86:LYS:HA	1:L:89:MET:HE1	1.59	0.83
1:L:483:ARG:NH1	1:L:531:ASN:CB	2.26	0.83
1:H:1052:GLN:HE22	1:H:1058:ILE:HG13	1.43	0.83
1:L:1022:ALA:O	1:L:1046:ASP:HB2	1.78	0.83
1:L:1067:ASN:HA	1:L:1105:LYS:HB2	1.58	0.83
1:O:481:PRO:CA	1:O:484:MET:HE1	2.06	0.83
1:J:704:ARG:HD3	1:J:706:ILE:CD1	2.08	0.83
1:J:722:ASP:C	1:J:744:LEU:HD12	2.04	0.83
1:L:362:PRO:HA	1:L:366:ARG:HD3	1.60	0.83
1:M:629:GLN:O	1:M:644:LEU:HD21	1.79	0.83
1:H:989:SER:CB	1:H:994:HIS:CA	2.57	0.83
1:J:781:VAL:CG1	1:J:822:ARG:NH1	2.42	0.83
1:L:531:ASN:OD1	1:L:536:GLU:HG2	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:657:MET:CB	1:Q:676:LYS:HE2	2.08	0.83
2:D:10:MET:SD	2:D:15:ARG:NH1	2.52	0.83
1:K:1136:LYS:HG2	1:K:1190:LYS:HG2	1.59	0.83
1:L:447:TYR:C	1:L:450:PRO:HD2	2.03	0.82
1:Q:616:LEU:HB2	1:Q:635:VAL:HB	1.61	0.82
1:Q:663:GLN:HG3	1:Q:674:SER:CB	2.09	0.82
1:Q:923:ALA:HA	1:Q:1240:LEU:HD22	1.59	0.82
1:I:532:ASP:HB2	1:I:533:PRO:HD3	1.59	0.82
1:I:1012:THR:CG2	1:I:1019:LYS:HZ1	1.90	0.82
1:K:621:CYS:HB2	1:K:900:GLU:OE2	1.79	0.82
1:K:783:THR:HG1	1:K:822:ARG:NH2	1.76	0.82
1:H:660:PHE:CD2	1:H:677:LEU:HG	2.13	0.82
1:J:532:ASP:OD1	1:J:535:TYR:HB2	1.78	0.82
1:M:133:LYS:NZ	1:M:290:MET:SD	2.51	0.82
1:Q:351:THR:O	1:Q:355:SER:HB3	1.79	0.82
1:Q:680:LEU:HD12	1:Q:696:GLN:OE1	1.78	0.82
1:J:1057:PRO:HD2	1:J:1058:ILE:HD12	1.61	0.82
1:Q:866:LYS:HE3	1:Q:879:SER:HB2	1.60	0.82
1:K:1043:VAL:HG12	1:K:1045:HIS:N	1.94	0.82
1:H:990:LYS:NZ	1:H:990:LYS:HB3	1.94	0.82
1:L:1062:LYS:HB3	1:L:1062:LYS:NZ	1.93	0.82
1:Q:628:GLY:CA	1:Q:644:LEU:HD12	2.09	0.82
1:H:616:LEU:HB3	1:H:635:VAL:HG11	1.60	0.82
1:H:977:MET:CB	1:H:1009:ILE:CD1	2.57	0.82
1:I:968:ASN:CB	1:I:990:LYS:CG	2.57	0.82
1:I:1085:GLU:HG2	1:I:1106:TYR:OH	1.80	0.82
1:I:968:ASN:HB2	1:I:990:LYS:HG3	1.57	0.82
1:H:785:ASN:HB2	1:H:836:VAL:CG2	2.10	0.82
1:J:813:PRO:CG	1:J:824:LYS:N	2.43	0.82
1:L:783:THR:CG2	1:L:822:ARG:HH21	1.91	0.82
1:K:656:ARG:HH21	1:K:676:LYS:HD3	1.43	0.82
1:H:952:HIS:CG	1:H:990:LYS:HD3	2.14	0.82
1:L:275:LEU:HD12	1:L:280:THR:HG21	1.59	0.82
1:L:661:ASN:HB2	1:L:675:VAL:HG12	1.62	0.82
1:L:1061:LEU:HD21	1:L:1091:GLN:HB2	1.62	0.82
1:Q:849:LEU:CG	1:Q:854:VAL:O	2.28	0.82
1:I:1012:THR:CG2	1:I:1019:LYS:NZ	2.41	0.82
1:I:1064:VAL:HG23	1:I:1105:LYS:HE2	1.61	0.82
1:J:663:GLN:HB3	1:J:674:SER:HB3	1.60	0.82
1:J:762:LYS:HG2	1:J:764:MET:SD	2.20	0.82
1:J:965:LEU:HD23	1:J:981:ARG:NH2	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1025:ALA:HB1	1:J:1042:ASP:HB2	1.61	0.82
1:O:857:PRO:HD2	1:O:866:LYS:HD3	1.62	0.82
1:I:968:ASN:CB	1:I:990:LYS:HG2	2.10	0.82
1:I:987:VAL:HG13	1:I:999:ALA:HA	1.62	0.82
1:K:93:LYS:HB2	1:K:97:ARG:HH22	1.45	0.82
1:J:704:ARG:NH1	1:J:749:GLN:HG3	1.95	0.81
1:I:1064:VAL:O	1:I:1105:LYS:HG2	1.79	0.81
1:J:1050:PRO:CB	1:J:1061:LEU:H	1.91	0.81
1:Q:979:ARG:NE	1:Q:985:LEU:CD2	2.43	0.81
1:H:929:VAL:CG1	1:H:931:VAL:HG22	2.09	0.81
1:H:979:ARG:CB	1:H:1007:SER:HA	2.09	0.81
1:J:761:LEU:HD22	1:J:804:HIS:CD2	2.15	0.81
1:J:1047:THR:CG2	1:J:1062:LYS:HB2	2.11	0.81
1:Q:704:ARG:O	1:Q:719:LEU:HD12	1.79	0.81
1:Q:978:THR:HG23	1:Q:986:ALA:HB3	1.62	0.81
1:I:350:THR:HG22	1:I:429:LEU:HD21	1.62	0.81
1:I:756:SER:HA	1:I:772:VAL:HG22	1.62	0.81
1:I:990:LYS:CD	1:I:1011:PRO:HG3	2.09	0.81
1:H:480:HIS:HB2	1:H:530:ASP:O	1.80	0.81
1:H:783:THR:HB	1:H:787:THR:OG1	1.80	0.81
1:M:221:ILE:HD12	1:M:224:ILE:HD11	1.61	0.81
1:Q:671:CYS:HA	1:Q:684:CYS:O	1.81	0.81
1:Q:1029:GLU:HB2	1:Q:1038:GLY:HA3	1.60	0.81
1:I:927:GLN:HG3	1:I:966:GLU:OE2	1.81	0.81
1:K:1043:VAL:HB	1:K:1062:LYS:CG	2.04	0.81
1:K:1067:ASN:HD21	1:K:1091:GLN:HE21	1.26	0.81
1:H:1109:LEU:HB2	1:H:1123:VAL:HB	1.61	0.81
1:J:345:ASN:OD1	1:J:348:LYS:HD2	1.78	0.81
1:J:781:VAL:CG1	1:J:822:ARG:HH11	1.94	0.81
1:J:808:VAL:CG2	1:J:853:ALA:N	2.43	0.81
1:Q:39:ILE:HA	1:Q:72:MET:HE2	1.62	0.81
1:J:687:ARG:NH1	1:J:687:ARG:HA	1.95	0.81
1:L:625:LEU:HG	1:L:669:LEU:HD21	1.61	0.81
1:M:1049:LEU:HB2	1:M:1061:LEU:CB	2.10	0.81
1:H:39:ILE:HG13	1:H:72:MET:HB2	1.62	0.81
1:L:1019:LYS:HZ3	1:L:1058:ILE:HD13	1.43	0.81
1:I:275:LEU:HD12	1:I:280:THR:HG21	1.60	0.81
1:L:681:TRP:CZ2	1:L:705:PHE:HB3	2.16	0.81
1:I:82:ARG:NH2	1:I:89:MET:SD	2.53	0.81
1:H:954:ALA:H	1:H:990:LYS:HZ1	1.27	0.81
1:J:656:ARG:HH22	1:J:675:VAL:CA	1.93	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:729:ASN:N	1:J:735:ALA:HB2	1.92	0.81
1:L:979:ARG:NH1	1:L:1020:ILE:HG23	1.96	0.81
1:H:704:ARG:C	1:H:718:TYR:HE1	1.89	0.81
1:J:629:GLN:NE2	1:J:641:ASP:HB3	1.95	0.81
1:L:685:PRO:HD2	1:L:689:HIS:H	1.44	0.81
1:M:850:GLN:HG2	1:M:892:PRO:HA	1.62	0.81
1:Q:978:THR:HG21	1:Q:989:SER:HB2	1.61	0.81
1:I:405:LEU:HB3	1:I:410:LEU:HD21	0.85	0.81
1:K:979:ARG:HH12	1:K:1007:SER:N	1.79	0.81
1:H:656:ARG:CZ	1:H:680:LEU:HD12	2.10	0.80
1:J:757:HIS:HE1	1:J:778:TYR:CD2	1.96	0.80
1:I:199:LEU:HD13	1:I:202:GLN:HE21	1.46	0.80
1:I:979:ARG:HE	1:I:1009:ILE:HD11	1.45	0.80
1:H:936:SER:HB2	1:H:953:SER:HB3	1.62	0.80
1:M:1061:LEU:HD11	1:M:1103:SER:OG	1.79	0.80
1:Q:888:LYS:HZ2	1:Q:888:LYS:CA	1.89	0.80
1:I:522:LYS:HA	1:I:525:LYS:HE2	1.60	0.80
1:I:1009:ILE:HG12	1:I:1020:ILE:HG13	1.63	0.80
1:K:1060:TYR:O	1:K:1067:ASN:HB2	1.81	0.80
2:E:29:THR:HG1	2:E:72:HIS:HE2	1.29	0.80
1:K:221:ILE:HD12	1:K:224:ILE:HD11	1.62	0.80
1:H:1010:THR:HB	1:H:1011:PRO:HD3	1.63	0.80
1:J:752:GLU:OE2	1:J:806:PHE:HZ	1.63	0.80
1:Q:824:LYS:NZ	1:Q:831:ILE:HD13	1.95	0.80
1:Q:979:ARG:HG2	1:Q:985:LEU:CD2	1.97	0.80
1:K:979:ARG:CZ	1:K:1020:ILE:HG23	2.12	0.80
1:H:987:VAL:CG2	1:H:996:ILE:CG2	2.55	0.80
1:J:813:PRO:CD	1:J:824:LYS:N	2.38	0.80
1:J:965:LEU:CD2	1:J:981:ARG:NH2	2.45	0.80
1:L:704:ARG:HH22	1:L:760:VAL:HG13	1.45	0.80
2:B:10:MET:HE3	2:B:84:PRO:HA	1.63	0.80
1:K:422:ILE:HB	1:K:427:LEU:HD12	1.63	0.80
1:K:1066:PRO:HB2	1:K:1081:ILE:O	1.80	0.80
1:H:480:HIS:CB	1:H:530:ASP:C	2.54	0.80
1:J:213:HIS:H	1:J:220:ARG:HD2	1.45	0.80
1:Q:888:LYS:CG	1:Q:898:VAL:HG11	2.08	0.80
1:L:783:THR:CG2	1:L:822:ARG:CZ	2.59	0.80
1:O:155:SER:H	1:O:157:LYS:HZ3	1.27	0.80
1:Q:685:PRO:HD2	1:Q:689:HIS:O	1.81	0.80
1:Q:1137:PRO:HD2	1:Q:1190:LYS:HG2	1.63	0.80
1:L:923:ALA:CB	1:L:941:ASN:O	2.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:276:SER:HA	1:O:122:LYS:HD2	1.63	0.80
2:G:12:LYS:HA	2:G:15:ARG:HD3	1.64	0.80
1:Q:12:TYR:HD1	1:Q:96:GLN:HG3	1.45	0.80
1:Q:377:PRO:HA	1:Q:427:LEU:HD22	1.64	0.80
1:Q:663:GLN:HG3	1:Q:674:SER:HB2	1.63	0.80
1:H:816:LEU:HD12	1:H:846:SER:HB3	1.62	0.80
1:H:1009:ILE:HG23	1:H:1018:CYS:SG	2.21	0.80
1:J:743:ILE:HG12	1:J:775:LEU:HD22	1.63	0.80
1:J:1052:GLN:O	1:J:1060:TYR:CZ	2.35	0.80
1:O:69:GLN:HE22	1:O:71:GLU:HB3	1.44	0.80
1:J:714:ILE:CG2	1:J:730:ILE:CD1	2.52	0.80
1:L:1008:THR:HG23	1:L:1050:PRO:HD2	1.64	0.80
1:L:1109:LEU:HB2	1:L:1130:ASN:OD1	1.82	0.80
1:O:285:LEU:HA	1:O:290:MET:HB3	1.64	0.80
1:O:845:LEU:HD21	1:O:862:ILE:HA	1.64	0.80
1:Q:644:LEU:HD21	1:Q:897:ASN:ND2	1.96	0.79
1:H:977:MET:SD	1:H:1009:ILE:CD1	2.70	0.79
1:L:625:LEU:HD12	1:L:669:LEU:CD2	2.07	0.79
1:L:923:ALA:HB2	1:L:942:SER:HA	1.62	0.79
1:L:1009:ILE:HD13	1:L:1020:ILE:CA	2.11	0.79
1:L:1068:ILE:HD13	1:L:1077:GLN:NE2	1.97	0.79
1:O:637:LEU:CD1	1:O:658:ALA:O	2.30	0.79
1:Q:657:MET:CB	1:Q:676:LYS:CD	2.35	0.79
1:H:678:TRP:HA	1:H:678:TRP:HE3	1.43	0.79
1:H:719:LEU:HD23	1:H:751:GLN:CD	2.07	0.79
1:J:679:SER:HA	1:J:702:VAL:HG22	1.64	0.79
1:J:978:THR:HG21	1:J:986:ALA:CB	2.10	0.79
1:L:641:ASP:HB2	1:L:650:ASP:HB2	1.63	0.79
1:L:663:GLN:HG3	1:L:674:SER:CA	2.09	0.79
1:L:1062:LYS:H	1:L:1066:PRO:CB	1.93	0.79
1:M:145:LYS:HE3	1:M:280:THR:HA	1.65	0.79
1:O:1219:ASN:CB	1:O:1238:GLN:NE2	2.45	0.79
2:C:45:THR:H	2:C:48:MET:HB3	1.46	0.79
1:Q:611:ARG:CG	1:Q:647:ASP:OD1	2.30	0.79
1:Q:620:PHE:HZ	1:Q:661:ASN:C	1.87	0.79
1:Q:630:ILE:HD11	1:Q:644:LEU:HG	1.63	0.79
1:I:143:PRO:HA	1:I:261:LYS:HG3	1.62	0.79
1:I:989:SER:HA	1:I:993:ILE:HG21	1.63	0.79
1:H:82:ARG:HE	1:H:89:MET:HE1	1.47	0.79
1:H:704:ARG:CB	1:H:718:TYR:CD1	2.52	0.79
1:J:499:GLN:HE22	1:J:516:ASN:HB3	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:729:ASN:HB2	1:J:735:ALA:C	2.06	0.79
1:O:471:ILE:HG23	1:O:487:PHE:CE2	2.17	0.79
1:I:990:LYS:CD	1:I:1011:PRO:CG	2.60	0.79
1:L:1061:LEU:HD21	1:L:1091:GLN:CG	2.12	0.79
1:M:919:VAL:HG13	1:M:920:LEU:HG	1.63	0.79
1:J:1067:ASN:HD22	1:J:1102:VAL:CG2	1.95	0.79
1:M:979:ARG:NH1	1:M:980:GLU:O	2.16	0.79
1:I:534:LYS:NZ	1:I:538:LEU:HD12	1.96	0.79
1:I:684:CYS:SG	1:I:691:GLY:CA	2.68	0.79
1:H:961:THR:OG1	1:H:964:CYS:SG	2.41	0.79
1:H:928:VAL:HG13	1:H:937:VAL:HG22	1.64	0.79
1:J:848:SER:HA	1:J:855:GLN:HG2	1.65	0.79
1:M:463:LEU:HD21	1:M:465:GLN:HE21	1.48	0.79
1:M:1049:LEU:HD12	1:M:1061:LEU:CD2	2.10	0.79
1:O:269:LYS:HE3	1:O:409:SER:HA	1.65	0.79
1:Q:621:CYS:SG	1:Q:898:VAL:CG1	2.69	0.79
1:Q:740:ASP:HB3	1:Q:775:LEU:HD13	1.65	0.79
1:I:532:ASP:O	1:I:536:GLU:HB3	1.82	0.79
1:H:532:ASP:OD1	1:H:535:TYR:HB2	1.82	0.79
1:J:1052:GLN:HB3	1:J:1058:ILE:CG2	2.13	0.79
1:L:445:ASP:O	1:L:449:ILE:HG22	1.82	0.79
1:L:1062:LYS:N	1:L:1066:PRO:CB	2.45	0.79
1:I:1183:GLU:HB2	1:I:1196:ALA:HB3	1.63	0.79
1:K:446:HIS:O	1:K:450:PRO:HG2	1.82	0.79
1:L:182:ASN:HA	1:L:245:LEU:HB2	1.65	0.78
1:L:941:ASN:HD22	1:L:963:ALA:HB1	1.47	0.78
1:I:532:ASP:CB	1:I:533:PRO:CD	2.55	0.78
1:I:728:ALA:HB2	1:I:735:ALA:HA	1.65	0.78
1:J:488:ARG:NE	1:J:491:PHE:HD2	1.82	0.78
1:J:824:LYS:HD3	1:J:830:LEU:HA	1.63	0.78
1:L:672:ASN:OD1	1:L:684:CYS:SG	2.41	0.78
1:O:471:ILE:C	1:O:487:PHE:HZ	1.90	0.78
1:H:883:ILE:CD1	1:H:902:ILE:HB	2.13	0.78
1:J:660:PHE:CE1	1:J:676:LYS:HE3	2.18	0.78
1:J:715:VAL:HG13	1:J:727:GLU:HB3	1.66	0.78
1:Q:684:CYS:HB2	1:Q:685:PRO:HD2	1.64	0.78
1:H:719:LEU:CD2	1:H:751:GLN:CG	2.54	0.78
1:J:1047:THR:CG2	1:J:1062:LYS:CB	2.61	0.78
1:O:533:PRO:O	1:O:537:ARG:HG3	1.83	0.78
1:Q:888:LYS:CG	1:Q:898:VAL:HG12	2.09	0.78
1:M:250:ALA:H	1:M:270:GLN:HE22	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:939:GLY:HA2	1:M:946:ARG:HA	1.66	0.78
1:Q:622:LEU:HD13	1:Q:665:HIS:CD2	2.19	0.78
1:I:484:MET:HE1	1:I:531:ASN:ND2	1.98	0.78
1:J:743:ILE:HD13	1:J:775:LEU:CD1	2.13	0.78
1:J:1143:TYR:HB3	1:J:1184:GLU:HG2	1.66	0.78
1:M:52:LYS:HD2	1:M:60:ARG:HD2	1.66	0.78
1:I:609:GLU:HB2	1:I:908:TYR:HB2	1.66	0.78
1:K:929:VAL:HG11	1:K:971:LEU:CB	2.12	0.78
1:J:768:ILE:CG2	1:J:780:VAL:HA	2.04	0.78
1:O:824:LYS:HE2	1:O:831:ILE:HG12	1.66	0.78
1:I:987:VAL:HG22	1:I:998:PRO:HA	1.65	0.78
1:K:1060:TYR:O	1:K:1067:ASN:CB	2.32	0.78
1:J:707:GLY:HA2	1:J:716:ALA:CB	2.13	0.77
1:J:725:LEU:HD12	1:J:742:SER:O	1.84	0.77
1:O:656:ARG:CB	1:O:676:LYS:HE3	2.14	0.77
1:Q:680:LEU:CD1	1:Q:696:GLN:CB	2.59	0.77
2:G:46:VAL:CG2	1:Q:80:VAL:O	2.33	0.77
1:J:276:SER:HA	1:K:122:LYS:HD3	1.67	0.77
1:J:389:ILE:HA	1:J:441:ARG:HH12	1.48	0.77
1:Q:630:ILE:CD1	1:Q:644:LEU:HG	2.14	0.77
1:Q:849:LEU:CD1	1:Q:854:VAL:O	2.31	0.77
1:J:744:LEU:O	1:J:744:LEU:HD13	1.85	0.77
1:L:664:LYS:NZ	1:L:664:LYS:HB3	1.99	0.77
1:O:12:TYR:HE1	1:O:97:ARG:HH22	1.31	0.77
1:O:717:PHE:HA	1:O:727:GLU:HG3	1.67	0.77
1:I:718:TYR:HB2	1:I:726:PRO:HG2	1.66	0.77
1:H:132:LEU:O	1:H:135:ARG:HG2	1.85	0.77
1:J:813:PRO:HG2	1:J:824:LYS:CB	2.15	0.77
1:J:1049:LEU:N	1:J:1050:PRO:HD3	2.00	0.77
1:L:683:ASP:CB	1:L:693:SER:HB3	2.13	0.77
1:M:979:ARG:HB2	1:M:1009:ILE:HD11	1.65	0.77
1:I:990:LYS:HB2	1:I:1011:PRO:HG3	1.67	0.77
1:I:979:ARG:CZ	1:I:1020:ILE:HD11	2.14	0.77
1:H:938:SER:HB3	1:H:954:ALA:HB1	1.67	0.77
1:J:768:ILE:CG2	1:J:780:VAL:CG1	2.62	0.77
1:Q:657:MET:CA	1:Q:676:LYS:HD2	2.14	0.77
1:Q:970:TYR:CD1	1:Q:976:ASP:OD1	2.38	0.77
1:I:684:CYS:HG	1:I:691:GLY:HA3	1.50	0.77
2:D:10:MET:HE3	2:D:84:PRO:HA	1.66	0.77
1:Q:664:LYS:HG2	1:Q:681:TRP:CZ2	2.19	0.77
1:H:854:VAL:HG11	1:H:868:SER:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:680:LEU:HD22	1:J:696:GLN:HB2	1.67	0.77
1:J:752:GLU:OE2	1:J:806:PHE:CE2	2.38	0.77
1:J:935:ARG:HH22	1:J:1232:HIS:HB2	1.49	0.77
1:J:1012:THR:CB	1:J:1053:PHE:CD2	2.67	0.77
1:L:856:LEU:HD21	1:L:888:LYS:HB2	1.67	0.77
2:N:10:MET:HB3	2:N:84:PRO:HA	1.67	0.77
1:Q:664:LYS:HE3	1:Q:664:LYS:O	1.85	0.77
1:I:534:LYS:O	1:I:537:ARG:HG3	1.84	0.77
1:I:1232:HIS:HA	1:I:1245:LYS:HE3	1.67	0.77
1:H:76:PHE:HA	1:H:80:VAL:HB	1.67	0.77
1:J:1026:PHE:HD2	1:J:1039:VAL:HG11	1.49	0.77
1:Q:867:ARG:HA	1:Q:874:LEU:HA	1.67	0.77
1:K:1049:LEU:O	1:K:1061:LEU:HB2	1.85	0.77
1:H:977:MET:HB2	1:H:1009:ILE:HD12	1.66	0.76
1:I:1064:VAL:O	1:I:1105:LYS:CG	2.32	0.76
1:H:1007:SER:HB3	1:H:1021:ASN:O	1.85	0.76
1:L:866:LYS:HG3	1:L:875:LEU:HB2	1.68	0.76
1:I:93:LYS:HB2	1:I:97:ARG:HH12	1.49	0.76
1:L:101:MET:HE2	1:L:101:MET:N	2.01	0.76
1:M:483:ARG:HG3	1:M:487:PHE:CE2	2.20	0.76
1:Q:657:MET:O	1:Q:676:LYS:HD2	1.86	0.76
1:I:754:LYS:CB	1:I:757:HIS:HD2	1.99	0.76
1:I:1108:SER:N	1:I:1130:ASN:ND2	2.34	0.76
1:H:660:PHE:CD1	1:H:677:LEU:HD12	2.21	0.76
1:L:651:SER:HB2	1:L:688:ARG:HD2	1.66	0.76
1:L:685:PRO:CD	1:L:689:HIS:N	2.47	0.76
1:H:531:ASN:HD22	1:H:535:TYR:CB	1.98	0.76
1:J:1024:SER:HA	1:J:1046:ASP:H	1.50	0.76
1:L:1091:GLN:HG3	1:L:1105:LYS:HA	1.66	0.76
1:H:531:ASN:ND2	1:H:535:TYR:CB	2.49	0.76
1:H:990:LYS:HB3	1:H:990:LYS:HZ2	1.49	0.76
1:L:815:ALA:HB3	1:L:822:ARG:HB2	1.68	0.76
1:Q:620:PHE:CE1	1:Q:661:ASN:C	2.64	0.76
1:I:457:ASP:HB3	1:I:583:ARG:HE	1.51	0.76
1:I:987:VAL:CG2	1:I:998:PRO:HA	2.14	0.76
1:K:558:TYR:HE2	1:K:581:VAL:HG23	1.47	0.76
1:H:785:ASN:ND2	1:H:836:VAL:HG21	2.01	0.76
1:J:1052:GLN:O	1:J:1060:TYR:CE1	2.38	0.76
1:I:357:LEU:HG	1:I:430:LYS:HE2	1.67	0.76
1:I:977:MET:SD	1:I:989:SER:CA	2.73	0.76
1:J:525:LYS:N	1:J:526:PRO:HD2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:48:ILE:HA	1:L:60:ARG:HD2	1.68	0.76
1:H:377:PRO:HA	1:H:427:LEU:HD22	1.67	0.76
1:H:630:ILE:HG22	1:H:632:LEU:HD21	1.68	0.76
1:J:26:ASN:HB2	2:D:81:GLN:HG2	1.68	0.76
1:M:940:SER:H	1:M:946:ARG:HA	1.51	0.76
1:Q:704:ARG:HB3	1:Q:704:ARG:NH1	2.00	0.76
1:I:1019:LYS:HD3	1:I:1052:GLN:HE21	1.50	0.76
1:K:16:LEU:HD23	1:K:65:LEU:CD2	2.15	0.76
1:L:978:THR:HG21	1:L:987:VAL:N	2.01	0.76
1:O:845:LEU:HB3	1:O:858:GLU:C	2.11	0.76
1:Q:623:ILE:HD13	1:Q:623:ILE:O	1.85	0.76
1:Q:888:LYS:CD	1:Q:898:VAL:CG1	2.58	0.76
1:I:768:ILE:HG12	1:I:777:ARG:HB3	1.66	0.76
1:H:979:ARG:HB2	1:H:1007:SER:CA	2.15	0.75
1:J:625:LEU:H	1:J:669:LEU:HD11	1.50	0.75
1:M:762:LYS:HZ2	1:M:768:ILE:HB	1.50	0.75
1:I:929:VAL:HB	1:I:936:SER:HB2	1.65	0.75
1:J:883:ILE:HD12	1:J:903:GLU:HG3	1.65	0.75
1:L:195:MET:SD	1:L:198:LYS:NZ	2.59	0.75
1:H:285:LEU:HD13	1:H:290:MET:HB3	1.66	0.75
1:H:1187:GLN:HB2	1:H:1191:ILE:HG12	1.68	0.75
1:M:247:VAL:HG21	1:M:264:LEU:HD12	1.66	0.75
1:Q:809:GLU:N	1:Q:809:GLU:OE2	2.19	0.75
1:J:250:ALA:H	1:J:270:GLN:HE22	1.33	0.75
1:J:722:ASP:O	1:J:744:LEU:HG	1.87	0.75
1:L:39:ILE:HG13	1:L:72:MET:HB2	1.68	0.75
1:J:688:ARG:HH11	1:J:688:ARG:HB2	1.51	0.75
1:L:1234:HIS:HD2	1:L:1241:PHE:CE1	2.03	0.75
1:Q:616:LEU:HD12	1:Q:635:VAL:HG12	1.68	0.75
1:K:769:ARG:O	1:K:778:TYR:N	2.20	0.75
1:J:803:LEU:N	1:J:803:LEU:HD23	2.02	0.75
1:L:625:LEU:HD11	1:L:667:ILE:O	1.86	0.75
1:J:488:ARG:HD2	1:J:491:PHE:HD2	1.50	0.75
1:O:105:MET:O	1:O:109:GLN:NE2	2.20	0.75
1:O:812:THR:HA	1:O:824:LYS:HB3	1.67	0.75
2:A:10:MET:SD	2:A:14:HIS:ND1	2.59	0.75
1:K:950:TRP:HB2	1:K:955:ASP:HB2	1.67	0.75
1:J:1026:PHE:HB3	1:J:1039:VAL:HG13	1.68	0.75
1:O:729:ASN:HB3	1:O:732:LEU:HB3	1.67	0.75
2:N:45:THR:H	2:N:48:MET:HB2	1.51	0.75
1:K:642:THR:HG22	1:K:649:SER:HA	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:476:LYS:HD2	1:J:527:TYR:HD1	1.51	0.75
1:L:862:ILE:HG23	1:L:864:CYS:H	1.51	0.75
1:M:250:ALA:O	1:M:254:ASN:ND2	2.20	0.75
1:Q:620:PHE:HE2	1:Q:674:SER:HG	1.30	0.75
1:L:930:HIS:HE1	1:L:1234:HIS:HE2	1.34	0.74
1:H:44:GLU:O	1:H:48:ILE:HG13	1.87	0.74
1:J:688:ARG:HB2	1:J:688:ARG:NH1	2.01	0.74
1:L:946:ARG:HH12	1:L:967:PRO:HA	1.52	0.74
1:L:959:VAL:HG12	1:L:961:THR:HG22	1.67	0.74
2:E:48:MET:SD	2:E:78:LYS:NZ	2.60	0.74
1:Q:389:ILE:HA	1:Q:441:ARG:HH12	1.51	0.74
1:Q:637:LEU:CD1	1:Q:658:ALA:H	2.00	0.74
1:Q:708:SER:HB2	1:Q:715:VAL:HB	1.67	0.74
1:I:445:ASP:O	1:I:449:ILE:HG22	1.86	0.74
1:I:968:ASN:HD21	1:I:1009:ILE:CG2	2.00	0.74
1:J:524:TYR:C	1:J:526:PRO:HD2	2.12	0.74
1:J:979:ARG:HB2	1:J:1009:ILE:CD1	2.16	0.74
1:L:643:TYR:HB2	1:L:647:ASP:H	1.52	0.74
1:L:702:VAL:HG12	1:L:720:ASN:HA	1.69	0.74
1:L:1027:ASN:OD1	1:L:1047:THR:HG21	1.86	0.74
1:Q:350:THR:HA	1:Q:353:ILE:HG22	1.68	0.74
1:Q:866:LYS:CG	1:Q:876:LEU:HB2	2.15	0.74
1:I:658:ALA:HB1	1:I:677:LEU:HB2	1.70	0.74
1:I:977:MET:CE	1:I:1009:ILE:HG23	2.15	0.74
1:H:954:ALA:HB2	1:H:969:VAL:HG21	1.67	0.74
1:J:484:MET:HE2	1:J:484:MET:HA	1.68	0.74
1:J:622:LEU:HD11	1:J:663:GLN:O	1.87	0.74
1:J:803:LEU:CD2	1:J:845:LEU:HA	2.17	0.74
1:Q:680:LEU:HD11	1:Q:696:GLN:HB2	1.70	0.74
1:H:989:SER:HB3	1:H:994:HIS:C	2.11	0.74
1:Q:679:SER:HG	1:Q:702:VAL:N	1.84	0.74
1:I:401:VAL:HA	1:I:404:LYS:HE3	1.69	0.74
1:H:617:HIS:O	1:H:635:VAL:HB	1.87	0.74
1:H:664:LYS:HG2	1:H:718:TYR:OH	1.87	0.74
1:J:808:VAL:HG23	1:J:853:ALA:N	2.01	0.74
1:L:1009:ILE:CD1	1:L:1020:ILE:CA	2.63	0.74
1:I:717:PHE:HA	1:I:727:GLU:HG3	1.69	0.74
1:I:770:CYS:SG	1:I:776:LYS:O	2.45	0.74
1:J:174:MET:HE1	1:J:241:LEU:H	1.50	0.74
1:Q:620:PHE:CE1	1:Q:661:ASN:O	2.40	0.74
1:Q:810:ASN:ND2	1:Q:810:ASN:O	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:463:LEU:HD22	1:K:466:TYR:H	1.50	0.74
1:H:154:GLY:O	1:H:322:ARG:CG	2.36	0.74
1:M:1110:GLN:CG	1:M:1122:GLY:HA2	2.18	0.74
2:C:81:GLN:NE2	1:K:25:ASP:O	2.20	0.74
1:Q:153:LEU:HB2	1:Q:267:ARG:HE	1.52	0.74
1:Q:978:THR:HG22	1:Q:988:ASP:O	1.88	0.74
1:L:326:ILE:HD13	1:L:349:LEU:HB3	1.70	0.74
1:L:1062:LYS:CG	1:L:1066:PRO:HA	2.18	0.74
1:M:475:LEU:HD23	1:M:478:ILE:HD11	1.70	0.74
2:D:37:GLU:OE2	2:D:41:GLN:NE2	2.21	0.74
1:J:483:ARG:NH2	1:J:487:PHE:CG	2.56	0.74
1:J:806:PHE:CE1	1:J:813:PRO:CB	2.70	0.74
1:L:783:THR:CG2	1:L:822:ARG:NE	2.51	0.74
1:M:16:LEU:CD1	1:M:65:LEU:HD11	2.17	0.74
1:O:867:ARG:HG2	1:O:874:LEU:HA	1.70	0.74
1:O:155:SER:HA	1:O:321:PRO:HD2	1.70	0.73
1:O:475:LEU:HD12	1:O:487:PHE:CD1	2.22	0.73
1:O:532:ASP:CG	1:O:533:PRO:CD	2.61	0.73
1:Q:457:ASP:HB3	1:Q:583:ARG:HE	1.53	0.73
1:H:946:ARG:NH2	1:H:964:CYS:SG	2.61	0.73
1:J:671:CYS:HA	1:J:685:PRO:HA	1.70	0.73
1:L:1043:VAL:HG12	1:L:1044:ILE:HG13	1.69	0.73
1:M:890:SER:H	1:M:898:VAL:HG12	1.53	0.73
1:Q:12:TYR:OH	1:Q:77:VAL:HB	1.88	0.73
1:Q:611:ARG:HH12	1:Q:630:ILE:HD13	1.50	0.73
1:I:946:ARG:HG3	1:I:961:THR:HA	1.69	0.73
1:K:785:ASN:ND2	1:K:820:ASP:OD2	2.21	0.73
1:J:155:SER:HB3	1:J:157:LYS:HZ1	1.53	0.73
1:J:479:GLU:HB3	1:J:482:GLU:OE1	1.88	0.73
1:M:824:LYS:HE2	1:M:831:ILE:HG12	1.69	0.73
1:O:216:ASN:HB2	1:O:219:LEU:HB2	1.69	0.73
1:Q:300:LEU:HD22	1:Q:324:LEU:HG	1.69	0.73
1:Q:1147:PHE:O	1:Q:1180:ILE:N	2.21	0.73
1:H:657:MET:N	1:H:657:MET:SD	2.60	0.73
1:H:952:HIS:O	1:H:990:LYS:HE2	1.89	0.73
1:H:952:HIS:HA	1:H:990:LYS:HE3	1.67	0.73
1:J:669:LEU:O	1:J:686:GLY:HA3	1.88	0.73
1:J:675:VAL:HG12	1:J:702:VAL:HG11	1.69	0.73
1:L:669:LEU:HD23	1:L:669:LEU:N	2.00	0.73
1:L:1149:LEU:HB2	1:L:1180:ILE:HA	1.71	0.73
2:B:13:ARG:HH12	2:B:110:ASP:HA	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:173:LYS:O	1:Q:239:ASN:ND2	2.21	0.73
1:Q:568:ALA:HB3	1:Q:573:ILE:HD11	1.69	0.73
1:K:979:ARG:NH1	1:K:1007:SER:N	2.35	0.73
1:K:1149:LEU:HA	1:K:1181:CYS:H	1.52	0.73
1:H:954:ALA:N	1:H:990:LYS:NZ	2.35	0.73
1:J:707:GLY:HA2	1:J:716:ALA:HB2	1.69	0.73
1:J:729:ASN:HB2	1:J:735:ALA:CB	2.17	0.73
1:J:830:LEU:HD23	1:J:830:LEU:N	2.02	0.73
1:J:857:PRO:HD2	1:J:866:LYS:HA	1.70	0.73
1:M:382:PRO:HD2	1:M:385:LEU:HD12	1.70	0.73
1:O:219:LEU:O	1:O:220:ARG:NH1	2.21	0.73
1:Q:193:LEU:HG	1:Q:197:GLN:HE22	1.52	0.73
1:I:623:ILE:HG12	1:I:630:ILE:HG12	1.71	0.73
1:J:480:HIS:N	1:J:481:PRO:HD2	2.02	0.73
1:M:627:SER:C	1:M:644:LEU:HD12	2.14	0.73
1:O:771:PHE:HD2	1:O:774:VAL:HB	1.53	0.73
2:B:79:ILE:HG21	2:B:90:LEU:HD21	1.71	0.73
1:Q:624:ALA:HB2	1:Q:629:GLN:HB2	1.71	0.73
1:I:950:TRP:HB2	1:I:955:ASP:HB2	1.70	0.73
1:H:1070:VAL:HA	1:H:1077:GLN:HA	1.70	0.73
1:J:760:VAL:CG2	1:J:769:ARG:H	2.02	0.73
1:M:718:TYR:HB2	1:M:726:PRO:HD2	1.69	0.73
2:N:18:ILE:HD13	2:N:80:THR:HB	1.70	0.73
1:Q:621:CYS:HB2	1:Q:899:SER:H	1.50	0.73
1:Q:888:LYS:HD3	1:Q:898:VAL:CG1	2.13	0.73
1:H:1000:ILE:CA	1:H:1020:ILE:HD11	2.19	0.73
1:H:1052:GLN:OE1	1:H:1058:ILE:HG12	1.87	0.73
1:J:1026:PHE:HB3	1:J:1039:VAL:CG1	2.19	0.73
1:L:1062:LYS:HD3	1:L:1066:PRO:HA	1.67	0.73
1:M:231:LEU:O	1:M:231:LEU:HD23	1.89	0.73
1:O:11:GLN:OE1	1:O:13:LYS:NZ	2.21	0.73
1:Q:644:LEU:CD2	1:Q:897:ASN:HD21	2.01	0.73
1:I:1083:GLN:HE22	1:I:1085:GLU:CB	1.93	0.73
1:Q:659:VAL:CG2	1:Q:678:TRP:HZ3	2.00	0.73
1:I:1018:CYS:N	1:I:1031:ILE:HD11	2.04	0.73
1:H:480:HIS:HB3	1:H:530:ASP:HB2	1.69	0.73
1:J:979:ARG:CG	1:J:1009:ILE:HD13	2.17	0.73
2:G:88:ASN:O	2:G:91:ILE:HB	1.88	0.73
1:Q:866:LYS:HD2	1:Q:876:LEU:CG	2.18	0.73
1:Q:979:ARG:HG3	1:Q:985:LEU:CD2	2.01	0.73
1:H:637:LEU:HG	1:H:676:LYS:HE3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1031:ILE:HB	1:H:1036:VAL:HB	1.70	0.72
1:J:825:THR:HG21	1:J:829:LEU:HD23	1.71	0.72
1:M:270:GLN:N	1:M:407:LYS:O	2.23	0.72
1:O:522:LYS:O	1:O:526:PRO:HG3	1.89	0.72
1:O:525:LYS:HG3	1:O:526:PRO:CD	2.14	0.72
1:I:449:ILE:HG23	1:I:450:PRO:CD	2.19	0.72
1:I:534:LYS:HZ3	1:I:538:LEU:HD12	1.54	0.72
1:K:488:ARG:HA	1:K:491:PHE:HD2	1.54	0.72
1:H:997:LYS:CG	1:H:998:PRO:HD3	2.18	0.72
1:J:749:GLN:CB	1:J:759:PRO:O	2.37	0.72
1:I:848:SER:HB2	1:I:856:LEU:HD11	1.71	0.72
1:I:929:VAL:HG21	1:I:970:TYR:O	1.88	0.72
1:H:671:CYS:HA	1:H:685:PRO:HA	1.71	0.72
1:H:968:ASN:HB2	1:H:977:MET:HB2	1.70	0.72
1:H:1237:ARG:HB3	1:H:1242:SER:HB2	1.70	0.72
1:J:675:VAL:HG21	1:J:702:VAL:HG21	1.70	0.72
1:J:697:LEU:CB	1:J:722:ASP:OD2	2.30	0.72
1:J:728:ALA:C	1:J:735:ALA:HB1	2.13	0.72
1:J:1085:GLU:O	1:J:1105:LYS:NZ	2.21	0.72
1:O:637:LEU:HD11	1:O:658:ALA:O	1.90	0.72
1:O:1053:PHE:HB3	1:O:1057:PRO:HB2	1.71	0.72
1:O:1110:GLN:HB3	1:O:1144:ILE:HD11	1.69	0.72
1:Q:964:CYS:HB3	1:Q:981:ARG:HH22	1.54	0.72
1:I:995:LEU:C	1:I:995:LEU:HD13	2.14	0.72
1:K:446:HIS:O	1:K:450:PRO:CG	2.37	0.72
1:H:785:ASN:ND2	1:H:819:PHE:HD2	1.87	0.72
1:J:79:GLU:HA	1:J:82:ARG:HB3	1.70	0.72
1:J:719:LEU:HD13	1:J:725:LEU:HD23	1.70	0.72
1:L:685:PRO:HD2	1:L:689:HIS:N	2.05	0.72
1:M:229:ARG:HA	1:M:232:LEU:CD2	2.20	0.72
1:M:630:ILE:CG1	1:M:644:LEU:HD23	2.15	0.72
1:Q:813:PRO:HD2	1:Q:824:LYS:O	1.90	0.72
1:I:532:ASP:O	1:I:536:GLU:CB	2.37	0.72
1:H:822:ARG:HD3	1:H:824:LYS:HE3	1.72	0.72
1:H:967:PRO:HA	1:H:977:MET:O	1.89	0.72
1:H:1000:ILE:HG13	1:H:1020:ILE:CG1	2.19	0.72
1:J:532:ASP:OD1	1:J:535:TYR:CD2	2.42	0.72
1:J:992:ARG:NH1	1:J:992:ARG:O	2.22	0.72
1:L:771:PHE:O	1:L:775:LEU:N	2.20	0.72
1:Q:877:GLY:HA3	1:Q:916:LYS:HD3	1.71	0.72
1:K:675:VAL:HB	1:K:681:TRP:CE2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:21:ASP:OD1	1:J:22:ALA:N	2.23	0.72
1:J:666:LEU:CD2	1:J:730:ILE:HD11	2.20	0.72
1:M:289:SER:OG	1:M:290:MET:SD	2.47	0.72
1:O:752:GLU:HG2	1:O:753:PHE:H	1.54	0.72
1:Q:213:HIS:HB2	1:Q:219:LEU:HD22	1.72	0.72
1:Q:1221:LYS:HG2	1:Q:1224:LEU:HD21	1.72	0.72
1:I:63:TRP:HZ3	1:I:128:LEU:HG	1.55	0.72
1:I:484:MET:CE	1:I:531:ASN:OD1	2.37	0.72
1:I:702:VAL:HA	1:I:720:ASN:HA	1.71	0.72
1:K:124:ASN:O	1:K:303:LYS:NZ	2.23	0.72
1:K:1136:LYS:H	1:K:1142:GLU:HA	1.55	0.72
1:H:518:LEU:HD12	1:H:646:ARG:HH21	1.55	0.72
1:J:965:LEU:HD12	1:J:966:GLU:HB2	1.71	0.72
2:G:58:LYS:HZ1	1:Q:656:ARG:CG	2.02	0.72
1:I:1062:LYS:H	1:I:1066:PRO:HD2	1.54	0.72
1:J:867:ARG:HG2	1:J:874:LEU:HA	1.70	0.72
1:L:1109:LEU:C	1:L:1109:LEU:HD13	2.15	0.72
1:O:483:ARG:NE	1:O:531:ASN:HB3	2.00	0.72
1:O:1237:ARG:HH21	1:O:1241:PHE:HD2	1.36	0.72
1:K:246:ASN:O	1:K:248:GLN:NE2	2.23	0.72
1:H:531:ASN:CB	1:H:536:GLU:OE2	2.36	0.72
1:H:532:ASP:OD2	1:H:535:TYR:HD2	1.72	0.72
1:H:660:PHE:HB3	1:H:676:LYS:C	2.15	0.72
1:J:687:ARG:HA	1:J:687:ARG:HH11	1.52	0.72
1:L:625:LEU:HG	1:L:669:LEU:CD2	2.19	0.72
1:O:43:GLU:O	1:O:47:HIS:N	2.23	0.72
1:I:446:HIS:O	1:I:450:PRO:CG	2.37	0.72
1:H:611:ARG:HH22	1:H:630:ILE:CD1	1.99	0.71
1:H:640:GLU:HB3	1:H:651:SER:O	1.90	0.71
1:J:1067:ASN:HD22	1:J:1102:VAL:HG22	1.55	0.71
1:O:489:MET:O	1:O:495:ARG:NH2	2.23	0.71
1:O:1218:GLU:HB2	1:O:1237:ARG:HD2	1.71	0.71
1:O:1219:ASN:HB2	1:O:1238:GLN:NE2	2.04	0.71
1:I:516:ASN:O	1:I:519:GLN:NE2	2.22	0.71
1:H:970:TYR:HE2	1:H:1011:PRO:HA	1.48	0.71
1:L:44:GLU:HG2	1:L:64:THR:HG21	1.72	0.71
1:L:1234:HIS:HD2	1:L:1241:PHE:HE1	1.38	0.71
1:M:641:ASP:O	1:M:650:ASP:N	2.21	0.71
1:O:246:ASN:O	1:O:248:GLN:NE2	2.23	0.71
1:O:803:LEU:HD22	1:O:846:SER:HB3	1.70	0.71
1:I:988:ASP:OD1	1:I:1031:ILE:HG23	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:320:ASN:HB2	1:J:323:ARG:HG2	1.71	0.71
1:O:817:ASP:N	1:O:836:VAL:O	2.21	0.71
1:Q:403:ASN:OD1	1:Q:407:LYS:NZ	2.23	0.71
1:Q:622:LEU:CD1	1:Q:665:HIS:CD2	2.73	0.71
1:Q:704:ARG:O	1:Q:719:LEU:HB2	1.91	0.71
1:H:1048:ALA:HB2	1:H:1063:GLN:HE21	1.56	0.71
1:J:620:PHE:HE1	1:J:887:LEU:HD11	1.47	0.71
1:L:1008:THR:H	1:L:1021:ASN:HD21	1.36	0.71
1:O:1234:HIS:HA	1:O:1243:PRO:HG2	1.73	0.71
1:Q:83:ILE:HG13	1:Q:84:ASN:H	1.55	0.71
1:Q:472:GLY:HA2	1:Q:487:PHE:CE1	2.25	0.71
1:Q:630:ILE:HD11	1:Q:644:LEU:CG	2.20	0.71
1:Q:850:GLN:NE2	1:Q:850:GLN:O	2.23	0.71
1:I:360:LEU:HD13	1:I:365:TYR:HB2	1.73	0.71
1:I:995:LEU:O	1:I:995:LEU:HD22	1.91	0.71
1:K:665:HIS:ND1	1:K:666:LEU:O	2.23	0.71
1:H:676:LYS:H	1:H:676:LYS:HD2	1.56	0.71
1:H:683:ASP:H	1:H:694:LYS:HE2	1.55	0.71
1:H:849:LEU:HD22	1:H:890:SER:HB3	1.73	0.71
1:J:629:GLN:CD	1:J:641:ASP:HB3	2.16	0.71
1:M:1106:TYR:CE2	1:M:1109:LEU:HA	2.26	0.71
1:O:86:LYS:HA	1:O:89:MET:HE1	1.71	0.71
1:Q:182:ASN:HA	1:Q:245:LEU:HB2	1.72	0.71
1:Q:611:ARG:HH12	1:Q:630:ILE:CD1	2.02	0.71
1:K:1183:GLU:HB2	1:K:1196:ALA:HB3	1.71	0.71
1:H:1070:VAL:HG22	1:H:1077:GLN:HG2	1.73	0.71
1:L:38:SER:OG	1:L:75:LYS:NZ	2.22	0.71
1:L:665:HIS:CE1	1:L:670:HIS:N	2.58	0.71
2:D:87:TYR:HA	2:D:90:LEU:HG	1.72	0.71
1:I:157:LYS:HE3	1:I:285:LEU:HD12	1.71	0.71
1:K:269:LYS:HE3	1:K:409:SER:HA	1.73	0.71
1:J:246:ASN:H	1:J:265:THR:HG23	1.55	0.71
1:J:525:LYS:HA	1:J:528:ILE:HG12	1.71	0.71
1:J:743:ILE:CB	1:J:775:LEU:CD2	2.67	0.71
1:M:1062:LYS:O	1:M:1105:LYS:CE	2.32	0.71
1:O:472:GLY:N	1:O:487:PHE:CZ	2.54	0.71
1:Q:673:GLY:HA3	1:Q:683:ASP:HA	1.72	0.71
1:H:1012:THR:HG21	1:H:1018:CYS:CA	2.21	0.71
1:J:52:LYS:HD2	1:J:53:ASP:HB2	1.73	0.71
1:J:680:LEU:HD22	1:J:696:GLN:HB3	1.71	0.71
1:J:1027:ASN:HB2	1:J:1040:ILE:HB	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1061:LEU:HD21	1:L:1091:GLN:CB	2.20	0.71
1:M:880:GLU:OE2	1:M:916:LYS:NZ	2.23	0.71
1:O:475:LEU:CD1	1:O:487:PHE:CE1	2.67	0.71
1:Q:488:ARG:HG3	1:Q:491:PHE:HD2	1.56	0.71
1:Q:703:LYS:HE2	1:Q:749:GLN:HG3	1.71	0.71
1:I:713:LYS:HB3	1:I:715:VAL:HG23	1.73	0.71
1:K:1060:TYR:HE2	1:K:1070:VAL:HG21	1.54	0.71
1:H:854:VAL:CG1	1:H:868:SER:CA	2.64	0.71
1:J:132:LEU:HA	1:J:135:ARG:NH1	2.06	0.71
1:J:458:LEU:HD13	1:J:491:PHE:HB3	1.71	0.71
1:L:625:LEU:H	1:L:669:LEU:HD11	1.56	0.71
1:M:1145:VAL:HG23	1:M:1184:GLU:HG2	1.73	0.71
1:I:857:PRO:HA	1:I:867:ARG:H	1.56	0.71
1:L:52:LYS:NZ	1:L:53:ASP:OD1	2.24	0.71
1:L:113:LEU:HD23	1:L:166:LEU:HD23	1.73	0.71
1:M:1106:TYR:HB3	1:M:1110:GLN:HE22	1.54	0.71
1:O:674:SER:H	1:O:682:PRO:HD2	1.55	0.71
1:O:987:VAL:HG23	1:O:999:ALA:HB2	1.73	0.71
2:E:55:LEU:HD23	2:E:59:PRO:HG3	1.72	0.71
1:K:449:ILE:HG23	1:K:450:PRO:CD	2.18	0.71
1:J:768:ILE:HG22	1:J:780:VAL:CG1	2.21	0.70
1:L:674:SER:O	1:L:681:TRP:CD1	2.44	0.70
1:M:196:LEU:HD22	1:M:224:ILE:HD12	1.73	0.70
1:K:377:PRO:HA	1:K:427:LEU:HD22	1.73	0.70
1:H:326:ILE:HG21	1:H:349:LEU:HD21	1.74	0.70
1:J:71:GLU:O	1:J:75:LYS:NZ	2.20	0.70
1:J:357:LEU:O	1:J:366:ARG:NH1	2.23	0.70
1:J:808:VAL:HG23	1:J:853:ALA:H	1.51	0.70
1:L:483:ARG:HD3	1:L:530:ASP:O	1.91	0.70
1:M:935:ARG:HE	1:M:1234:HIS:CE1	2.08	0.70
1:M:1108:SER:OG	1:M:1129:ALA:HA	1.91	0.70
1:Q:628:GLY:C	1:Q:644:LEU:HD12	2.16	0.70
1:Q:675:VAL:HG12	1:Q:681:TRP:CG	2.26	0.70
1:K:576:GLU:O	1:K:580:GLN:NE2	2.24	0.70
1:K:928:VAL:HA	1:K:936:SER:HB2	1.72	0.70
1:H:640:GLU:HG2	1:H:652:SER:HA	1.73	0.70
1:J:1062:LYS:HD2	1:J:1066:PRO:HG2	1.72	0.70
1:O:611:ARG:NH1	1:O:614:VAL:O	2.23	0.70
1:Q:1136:LYS:HD3	1:Q:1190:LYS:HD3	1.72	0.70
1:I:833:LYS:HD3	1:I:872:ARG:HG3	1.73	0.70
1:K:345:ASN:HA	1:K:348:LYS:HE2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1029:GLU:HG2	1:H:1060:TYR:OH	1.90	0.70
1:J:867:ARG:HA	1:J:875:LEU:H	1.55	0.70
1:L:1009:ILE:HD12	1:L:1020:ILE:HG12	1.73	0.70
1:L:1067:ASN:HB3	1:L:1106:TYR:H	1.55	0.70
2:A:50:ARG:HH21	2:A:54:ASP:HB3	1.55	0.70
1:Q:979:ARG:NE	1:Q:985:LEU:HD21	2.05	0.70
1:Q:1052:GLN:HA	1:Q:1058:ILE:HA	1.72	0.70
1:I:81:LEU:HD22	1:I:89:MET:HG3	1.72	0.70
1:I:968:ASN:ND2	1:I:1009:ILE:CG2	2.55	0.70
1:K:20:GLU:HA	1:K:23:PHE:HD2	1.55	0.70
1:J:706:ILE:HG21	1:J:717:PHE:HB2	1.72	0.70
1:J:716:ALA:O	1:J:718:TYR:HD1	1.72	0.70
1:M:980:GLU:HB2	1:M:984:LEU:HB2	1.72	0.70
1:I:522:LYS:HE3	1:I:525:LYS:HZ1	1.54	0.70
1:H:401:VAL:HA	1:H:404:LYS:HE2	1.73	0.70
1:J:1045:HIS:H	1:J:1045:HIS:CD2	2.09	0.70
1:J:1047:THR:HG21	1:J:1062:LYS:HB3	1.72	0.70
1:J:1048:ALA:C	1:J:1050:PRO:HD3	2.16	0.70
1:L:132:LEU:O	1:L:136:GLN:NE2	2.24	0.70
1:I:746:TRP:N	1:I:763:THR:OG1	2.24	0.70
1:I:990:LYS:HD3	1:I:1011:PRO:CD	2.20	0.70
1:I:1018:CYS:N	1:I:1031:ILE:CD1	2.54	0.70
1:K:1043:VAL:CB	1:K:1062:LYS:HG2	2.06	0.70
1:J:732:LEU:HD12	1:J:736:PHE:HA	1.72	0.70
1:L:353:ILE:HD11	1:L:429:LEU:HD11	1.74	0.70
1:K:783:THR:OG1	1:K:822:ARG:NH2	2.23	0.70
1:K:1068:ILE:CD1	1:K:1080:VAL:HG22	2.21	0.70
1:H:936:SER:HA	1:H:951:VAL:HG11	0.79	0.70
1:H:1143:TYR:HB2	1:H:1194:LEU:HD12	1.73	0.70
1:H:1181:CYS:SG	1:H:1182:GLU:N	2.64	0.70
1:J:702:VAL:HG12	1:J:705:PHE:HE1	1.56	0.70
1:J:941:ASN:H	1:J:946:ARG:HG2	1.57	0.70
1:L:1227:SER:HB2	1:L:1234:HIS:CE1	2.26	0.70
1:O:317:LEU:HD22	1:O:341:TRP:HE1	1.56	0.70
1:Q:183:LEU:HD12	1:Q:247:VAL:HG22	1.74	0.70
1:I:525:LYS:HG3	1:I:526:PRO:CD	2.18	0.70
1:I:986:ALA:C	1:I:999:ALA:HB2	2.17	0.70
1:K:1027:ASN:HB2	1:K:1041:ILE:HG13	1.73	0.70
1:J:722:ASP:C	1:J:744:LEU:CD1	2.64	0.70
1:J:753:PHE:O	1:J:756:SER:N	2.24	0.70
1:L:946:ARG:NH1	1:L:967:PRO:HA	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:227:GLU:OE1	1:M:230:ARG:NH1	2.24	0.70
2:G:50:ARG:HH11	2:G:53:GLN:HB2	1.57	0.70
1:K:127:ARG:HG3	1:K:130:PRO:HD2	1.72	0.70
1:J:719:LEU:HD11	1:J:744:LEU:HB2	1.74	0.70
1:L:446:HIS:O	1:L:450:PRO:CG	2.39	0.70
1:L:625:LEU:H	1:L:669:LEU:CD1	2.04	0.70
1:M:939:GLY:HA2	1:M:946:ARG:CA	2.21	0.70
1:Q:824:LYS:HZ3	1:Q:831:ILE:HD13	1.54	0.70
1:I:329:GLU:O	1:I:333:ASP:N	2.25	0.70
1:H:182:ASN:HA	1:H:245:LEU:HB2	1.73	0.69
1:L:1234:HIS:CD2	1:L:1241:PHE:HE1	2.10	0.69
2:C:70:GLU:OE2	2:C:74:ARG:NH2	2.25	0.69
1:Q:888:LYS:HG3	1:Q:898:VAL:CG1	2.21	0.69
1:K:74:GLN:O	1:K:77:VAL:HG13	1.92	0.69
1:K:563:ARG:NH2	1:K:1245:LYS:O	2.23	0.69
1:K:1039:VAL:HG12	1:K:1041:ILE:HD12	1.73	0.69
1:H:521:LEU:HD23	1:H:646:ARG:HH22	1.57	0.69
1:L:1067:ASN:HA	1:L:1105:LYS:CB	2.22	0.69
1:M:987:VAL:HB	1:M:997:LYS:HB2	1.74	0.69
1:M:1083:GLN:HA	1:M:1083:GLN:HE21	1.56	0.69
1:O:704:ARG:HD2	1:O:749:GLN:H	1.56	0.69
1:O:970:TYR:HA	1:O:1011:PRO:HB3	1.74	0.69
1:Q:247:VAL:HB	1:Q:266:THR:HB	1.75	0.69
1:I:977:MET:SD	1:I:989:SER:HA	2.32	0.69
1:K:269:LYS:NZ	1:K:411:VAL:O	2.25	0.69
1:K:1068:ILE:HG21	1:K:1080:VAL:CA	2.10	0.69
1:H:725:LEU:HB3	1:H:751:GLN:HE21	1.55	0.69
1:H:751:GLN:H	1:H:758:VAL:HG13	1.56	0.69
1:H:955:ASP:O	1:H:990:LYS:HG3	1.91	0.69
1:J:21:ASP:O	1:J:25:ASP:N	2.25	0.69
1:J:228:LEU:HD23	1:J:231:LEU:HD21	1.74	0.69
1:J:813:PRO:HG2	1:J:824:LYS:CG	2.22	0.69
1:L:685:PRO:HG2	1:L:689:HIS:HB2	1.64	0.69
1:M:48:ILE:HG13	1:M:60:ARG:NH1	2.07	0.69
1:O:143:PRO:HA	1:O:261:LYS:HG3	1.72	0.69
1:O:227:GLU:OE1	1:O:230:ARG:NH2	2.25	0.69
1:Q:611:ARG:NH1	1:Q:630:ILE:CD1	2.54	0.69
1:I:768:ILE:CG1	1:I:777:ARG:HB3	2.21	0.69
1:I:1102:VAL:CG1	1:I:1109:LEU:CD2	2.70	0.69
1:K:183:LEU:O	1:K:248:GLN:NE2	2.25	0.69
1:H:656:ARG:HH12	1:H:680:LEU:CD1	2.01	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1185:ILE:CD1	1:H:1225:ILE:HA	2.16	0.69
1:J:768:ILE:HG22	1:J:780:VAL:HG13	1.70	0.69
1:L:663:GLN:CG	1:L:674:SER:HA	2.10	0.69
1:L:683:ASP:HB2	1:L:694:LYS:HE2	1.73	0.69
1:L:1061:LEU:HD22	1:L:1091:GLN:HE21	1.55	0.69
1:Q:616:LEU:HD12	1:Q:635:VAL:C	2.16	0.69
1:H:660:PHE:HB3	1:H:676:LYS:O	1.92	0.69
1:J:747:ASP:OD2	1:J:763:THR:HG23	1.93	0.69
1:J:946:ARG:HD2	1:J:977:MET:HB3	1.74	0.69
1:L:978:THR:CG2	1:L:986:ALA:H	2.05	0.69
1:M:360:LEU:HD12	1:M:365:TYR:HB3	1.74	0.69
1:O:534:LYS:HE2	1:O:538:LEU:HD13	1.75	0.69
2:D:19:ARG:NH1	2:D:80:THR:OG1	2.25	0.69
2:E:95:ARG:HH11	2:E:100:LEU:HD22	1.57	0.69
2:F:95:ARG:HH21	2:F:100:LEU:HG	1.56	0.69
1:Q:275:LEU:HD12	1:Q:280:THR:HG21	1.73	0.69
1:H:844:GLY:HA3	1:H:885:TYR:HB3	1.73	0.69
1:J:769:ARG:NH1	1:J:824:LYS:CD	2.55	0.69
1:J:952:HIS:NE2	1:J:1244:CYS:SG	2.66	0.69
1:J:1070:VAL:HG22	1:J:1077:GLN:HA	1.75	0.69
1:L:611:ARG:NH1	1:L:642:THR:OG1	2.26	0.69
1:M:154:GLY:CA	1:M:157:LYS:HZ3	2.05	0.69
1:M:1106:TYR:CB	1:M:1110:GLN:NE2	2.54	0.69
1:I:987:VAL:HA	1:I:999:ALA:HB2	1.75	0.69
1:K:1061:LEU:HD11	1:K:1090:LEU:HA	1.73	0.69
1:K:1154:LEU:O	1:K:1163:ILE:N	2.25	0.69
1:H:357:LEU:O	1:H:366:ARG:NH2	2.25	0.69
1:L:516:ASN:O	1:L:520:GLN:NE2	2.26	0.69
1:M:380:HIS:HB2	1:M:465:GLN:OE1	1.92	0.69
1:O:857:PRO:HG2	1:O:865:GLY:O	1.93	0.69
1:O:880:GLU:OE2	1:O:907:ILE:CG2	2.41	0.69
1:Q:227:GLU:OE1	1:Q:230:ARG:NH1	2.26	0.69
1:Q:675:VAL:HB	1:Q:681:TRP:HB2	1.74	0.69
1:Q:680:LEU:HD11	1:Q:696:GLN:CB	2.23	0.69
1:H:371:ARG:HH12	1:H:441:ARG:HH11	1.41	0.69
1:H:681:TRP:HA	1:H:681:TRP:CE3	2.27	0.69
1:H:1028:ASP:HB3	1:H:1039:VAL:HA	1.73	0.69
1:J:174:MET:HE1	1:J:241:LEU:HB2	1.73	0.69
1:J:484:MET:HE1	1:J:489:MET:HB2	1.75	0.69
1:J:488:ARG:CZ	1:J:491:PHE:CD2	2.74	0.69
1:J:1012:THR:OG1	1:J:1053:PHE:CD2	2.45	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1019:LYS:NZ	1:J:1053:PHE:HB2	2.06	0.69
1:L:152:VAL:O	1:L:157:LYS:NZ	2.23	0.69
1:L:769:ARG:HH21	1:L:779:TYR:HB2	1.58	0.69
1:L:927:GLN:HG3	1:L:968:ASN:HA	1.73	0.69
1:M:52:LYS:NZ	1:M:57:GLY:O	2.22	0.69
1:M:702:VAL:N	1:M:721:GLU:OE1	2.25	0.69
1:O:85:TYR:HA	2:N:82:ARG:HH12	1.57	0.69
1:O:656:ARG:HD3	1:O:676:LYS:HE2	1.73	0.69
1:O:1061:LEU:HD12	1:O:1091:GLN:HG3	1.73	0.69
1:Q:1136:LYS:HB2	1:Q:1141:GLU:HA	1.75	0.69
1:I:675:VAL:HG13	1:I:679:SER:HA	1.74	0.69
1:I:836:VAL:O	1:I:867:ARG:NH2	2.24	0.69
1:I:849:LEU:HD22	1:I:890:SER:HB3	1.73	0.69
1:I:999:ALA:HA	1:I:1030:GLN:HG2	1.74	0.69
1:I:1126:LEU:HD11	1:I:1144:ILE:HG21	1.75	0.69
1:K:150:ASP:N	1:K:283:ILE:O	2.23	0.69
1:K:965:LEU:HB2	1:K:979:ARG:HD2	1.74	0.69
1:H:349:LEU:HD23	1:H:352:ILE:HD11	1.73	0.69
1:J:674:SER:O	1:J:682:PRO:CD	2.41	0.69
1:J:1047:THR:HB	1:J:1062:LYS:HA	1.74	0.69
1:L:783:THR:HG21	1:L:822:ARG:HE	1.57	0.69
1:L:835:SER:HB3	1:L:872:ARG:HA	1.73	0.69
1:M:229:ARG:HA	1:M:232:LEU:HD23	1.75	0.69
1:M:536:GLU:HA	1:M:539:VAL:HG22	1.73	0.69
1:J:675:VAL:HG21	1:J:702:VAL:CG2	2.23	0.69
1:L:1027:ASN:HB2	1:L:1040:ILE:O	1.93	0.69
1:M:727:GLU:O	1:M:736:PHE:N	2.20	0.69
1:Q:621:CYS:SG	1:Q:900:GLU:HG2	2.33	0.69
1:Q:664:LYS:HE3	1:Q:664:LYS:C	2.17	0.69
1:I:443:ILE:HG12	1:I:477:ASN:OD1	1.93	0.69
1:K:503:HIS:HA	1:K:516:ASN:ND2	2.08	0.69
1:K:1111:GLU:O	1:K:1120:ASP:N	2.26	0.69
1:K:1131:PRO:CD	1:K:1145:VAL:O	2.38	0.69
1:H:924:LYS:HE3	1:H:1239:LEU:HB3	1.74	0.68
1:H:1010:THR:CB	1:H:1011:PRO:CD	2.71	0.68
1:J:118:GLN:O	1:J:122:LYS:NZ	2.24	0.68
1:J:803:LEU:HD22	1:J:845:LEU:HA	1.75	0.68
1:J:1012:THR:CA	1:J:1053:PHE:CE2	2.69	0.68
1:J:1101:ASP:HB2	1:J:1112:GLY:H	1.58	0.68
1:I:48:ILE:HG13	1:I:60:ARG:HH12	1.57	0.68
1:M:975:MET:SD	1:M:992:ARG:NH1	2.66	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:523:PHE:O	1:O:527:TYR:CD2	2.42	0.68
1:Q:447:TYR:HB2	1:Q:478:ILE:HD13	1.74	0.68
1:Q:866:LYS:HG3	1:Q:876:LEU:C	2.18	0.68
1:H:819:PHE:H	1:H:836:VAL:HG11	1.57	0.68
1:H:1000:ILE:CB	1:H:1020:ILE:HD11	2.22	0.68
1:J:813:PRO:CG	1:J:824:LYS:CG	2.71	0.68
1:L:218:LYS:O	1:L:222:HIS:ND1	2.26	0.68
1:L:748:GLU:OE1	1:L:804:HIS:N	2.27	0.68
1:L:783:THR:C	1:L:785:ASN:H	2.02	0.68
1:I:1064:VAL:HA	1:I:1105:LYS:NZ	2.07	0.68
1:K:623:ILE:HG23	1:K:644:LEU:HD21	1.75	0.68
1:H:997:LYS:CB	1:H:998:PRO:HD2	2.08	0.68
1:L:77:VAL:HG13	1:L:78:GLU:HG3	1.75	0.68
1:L:1061:LEU:HD22	1:L:1091:GLN:CG	2.20	0.68
1:M:625:LEU:H	1:M:669:LEU:HD11	1.57	0.68
1:I:57:GLY:O	1:I:60:ARG:NH1	2.27	0.68
1:I:1180:ILE:O	1:I:1220:ARG:NH2	2.26	0.68
1:K:456:ASP:OD1	1:K:457:ASP:N	2.26	0.68
1:K:534:LYS:HE2	1:K:537:ARG:HH21	1.58	0.68
1:K:637:LEU:HG	1:K:654:ILE:HD11	1.75	0.68
1:K:757:HIS:HA	1:K:772:VAL:HB	1.75	0.68
1:H:133:LYS:NZ	1:H:290:MET:SD	2.65	0.68
1:H:1083:GLN:OE1	1:H:1110:GLN:HB2	1.92	0.68
1:L:685:PRO:HG3	1:L:689:HIS:CA	2.22	0.68
1:M:1136:LYS:NZ	1:M:1193:TYR:OH	2.25	0.68
1:O:665:HIS:HA	1:O:672:ASN:HA	1.76	0.68
2:C:22:LEU:HD21	2:C:73:ARG:HG3	1.76	0.68
1:H:618:ASN:ND2	1:H:904:CYS:HA	2.09	0.68
1:H:748:GLU:HB3	1:H:804:HIS:HE2	1.57	0.68
1:H:990:LYS:HD2	1:H:990:LYS:C	2.19	0.68
1:L:940:SER:CA	1:L:946:ARG:CD	2.54	0.68
1:M:18:VAL:O	1:M:169:LYS:NZ	2.26	0.68
1:M:136:GLN:OE1	1:M:139:LEU:HD21	1.93	0.68
2:N:17:HIS:HE1	2:N:106:LEU:HA	1.58	0.68
2:G:37:GLU:HG2	2:G:97:ILE:HD11	1.74	0.68
1:Q:964:CYS:HB3	1:Q:981:ARG:NH2	2.09	0.68
1:Q:978:THR:CG2	1:Q:988:ASP:O	2.40	0.68
1:I:280:THR:OG1	1:I:282:HIS:NE2	2.27	0.68
1:K:576:GLU:HG3	1:K:580:GLN:HE22	1.58	0.68
1:K:1068:ILE:HD11	1:K:1077:GLN:HB3	1.76	0.68
1:H:713:LYS:HB3	1:H:715:VAL:HG23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:336:ALA:HB3	1:J:339:ASP:HB2	1.76	0.68
1:J:675:VAL:CG2	1:J:702:VAL:CG2	2.71	0.68
1:J:769:ARG:HH12	1:J:824:LYS:CD	2.07	0.68
1:L:685:PRO:CG	1:L:689:HIS:CA	2.70	0.68
1:L:696:GLN:OE1	1:L:696:GLN:N	2.25	0.68
1:M:761:LEU:CD1	1:M:815:ALA:HA	2.23	0.68
2:G:95:ARG:NH2	2:G:107:GLU:OE2	2.26	0.68
1:Q:969:VAL:HB	1:Q:977:MET:HG3	1.75	0.68
1:K:82:ARG:HD3	1:K:89:MET:HE2	1.73	0.68
1:K:727:GLU:O	1:K:736:PHE:N	2.27	0.68
1:K:946:ARG:NH1	1:K:961:THR:OG1	2.26	0.68
1:H:220:ARG:O	1:H:224:ILE:HD12	1.93	0.68
1:J:381:ILE:N	1:J:420:ILE:O	2.25	0.68
1:J:660:PHE:CE1	1:J:676:LYS:CE	2.77	0.68
1:L:280:THR:OG1	1:L:282:HIS:NE2	2.25	0.68
1:M:496:PHE:HA	1:M:499:GLN:HE21	1.57	0.68
1:Q:1019:LYS:HD2	1:Q:1058:ILE:HD13	1.73	0.68
1:I:703:LYS:NZ	1:I:746:TRP:O	2.20	0.68
1:K:752:GLU:N	1:K:757:HIS:O	2.26	0.68
1:J:353:ILE:HD11	1:J:426:TYR:HA	1.75	0.68
1:L:101:MET:O	1:L:105:MET:SD	2.51	0.68
1:L:132:LEU:HD12	1:L:135:ARG:HH22	1.59	0.68
1:L:1062:LYS:HD2	1:L:1062:LYS:H	1.58	0.68
1:M:44:GLU:OE1	1:M:60:ARG:NH1	2.27	0.68
1:Q:681:TRP:CD2	1:Q:705:PHE:CE1	2.81	0.68
1:K:23:PHE:O	1:K:27:PHE:N	2.27	0.68
1:H:625:LEU:H	1:H:669:LEU:HD11	1.59	0.68
1:H:727:GLU:O	1:H:736:PHE:N	2.26	0.68
1:H:841:PHE:HE1	1:H:843:PRO:HB3	1.59	0.68
1:J:704:ARG:HD3	1:J:706:ILE:HD12	1.75	0.68
1:M:624:ALA:HB3	1:M:629:GLN:H	1.58	0.68
2:F:91:ILE:HG12	2:F:106:LEU:HD23	1.75	0.68
1:H:683:ASP:H	1:H:694:LYS:CE	2.07	0.67
1:H:954:ALA:HA	1:H:976:ASP:OD2	1.94	0.67
1:J:349:LEU:HD23	1:J:352:ILE:HD11	1.76	0.67
1:J:714:ILE:HG23	1:J:730:ILE:HD12	1.67	0.67
1:L:178:ILE:HA	1:L:241:LEU:HB3	1.75	0.67
1:O:822:ARG:NH2	1:O:846:SER:OG	2.20	0.67
1:O:1108:SER:HA	1:O:1130:ASN:HD22	1.59	0.67
1:I:686:GLY:O	1:I:687:ARG:N	2.26	0.67
1:I:752:GLU:CD	1:I:757:HIS:HB3	2.18	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:968:ASN:CB	1:I:990:LYS:HE3	2.21	0.67
1:K:52:LYS:HD2	1:K:53:ASP:N	2.08	0.67
1:H:617:HIS:C	1:H:635:VAL:HG21	2.18	0.67
1:H:1000:ILE:HA	1:H:1020:ILE:HD11	1.76	0.67
1:J:152:VAL:O	1:J:157:LYS:NZ	2.26	0.67
1:J:329:GLU:OE2	1:J:332:ARG:NH1	2.27	0.67
1:J:979:ARG:CB	1:J:1009:ILE:CD1	2.72	0.67
1:L:934:LEU:HB2	1:L:950:TRP:HE3	1.60	0.67
1:L:1110:GLN:HA	1:L:1110:GLN:NE2	2.08	0.67
1:M:193:LEU:O	1:M:197:GLN:NE2	2.27	0.67
1:O:338:TRP:HA	1:O:341:TRP:HB3	1.77	0.67
1:O:815:ALA:HA	1:O:822:ARG:HD2	1.75	0.67
2:B:23:ASN:OD1	2:B:24:ILE:N	2.26	0.67
1:Q:216:ASN:HB3	1:Q:218:LYS:HG3	1.75	0.67
1:Q:657:MET:CB	1:Q:676:LYS:CE	2.56	0.67
1:Q:878:THR:HG23	1:Q:889:ILE:HB	1.77	0.67
1:K:16:LEU:HD23	1:K:65:LEU:HD21	1.76	0.67
1:K:538:LEU:HG	1:K:571:GLU:HG2	1.76	0.67
1:H:854:VAL:HG13	1:H:868:SER:CA	2.21	0.67
1:H:1019:LYS:HA	1:H:1029:GLU:HA	1.76	0.67
1:J:140:GLU:OE2	1:J:142:ARG:NH2	2.27	0.67
1:J:476:LYS:HD2	1:J:527:TYR:CD1	2.28	0.67
1:J:1100:MET:SD	1:J:1111:GLU:OE1	2.53	0.67
1:L:385:LEU:CD1	1:L:466:TYR:CD2	2.78	0.67
1:L:941:ASN:ND2	1:L:963:ALA:HB1	2.09	0.67
1:L:970:TYR:HB2	1:L:975:MET:HB3	1.76	0.67
1:M:761:LEU:CD1	1:M:804:HIS:CG	2.74	0.67
1:M:1106:TYR:HB2	1:M:1110:GLN:HE22	1.59	0.67
1:K:968:ASN:HD22	1:K:1010:THR:HB	1.58	0.67
1:H:23:PHE:HD1	1:H:27:PHE:CD1	2.13	0.67
1:H:447:TYR:HB2	1:H:478:ILE:HD13	1.77	0.67
1:H:785:ASN:HB2	1:H:836:VAL:HG22	1.76	0.67
1:J:488:ARG:HD2	1:J:491:PHE:CD2	2.29	0.67
1:J:1083:GLN:NE2	1:J:1101:ASP:HB3	2.07	0.67
1:L:227:GLU:OE2	1:L:230:ARG:NH2	2.27	0.67
1:M:246:ASN:H	1:M:265:THR:HG23	1.59	0.67
1:Q:548:LYS:O	1:Q:607:ASP:N	2.26	0.67
1:Q:618:ASN:ND2	1:Q:901:HIS:H	1.91	0.67
1:Q:630:ILE:HG21	1:Q:632:LEU:HD22	1.76	0.67
1:Q:702:VAL:HG12	1:Q:705:PHE:HE2	1.58	0.67
1:K:227:GLU:OE1	1:K:230:ARG:NH2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:849:LEU:HD11	1:H:866:LYS:HD2	1.77	0.67
1:H:989:SER:HB3	1:H:994:HIS:HA	1.73	0.67
1:J:345:ASN:HA	1:J:348:LYS:HG2	1.77	0.67
1:J:476:LYS:CD	1:J:527:TYR:HD1	2.06	0.67
1:J:807:ASN:HB2	1:J:812:THR:CG2	2.19	0.67
1:J:992:ARG:HH21	1:J:996:ILE:HA	1.59	0.67
1:M:1084:LEU:HD23	1:M:1106:TYR:HB3	1.75	0.67
1:O:817:ASP:HB3	1:O:836:VAL:HG13	1.77	0.67
1:Q:12:TYR:CD1	1:Q:96:GLN:HG3	2.29	0.67
1:Q:680:LEU:CG	1:Q:696:GLN:CB	2.51	0.67
1:Q:849:LEU:HG	1:Q:854:VAL:O	1.95	0.67
1:K:36:PRO:O	1:K:39:ILE:N	2.24	0.67
1:H:1185:ILE:HD13	1:H:1225:ILE:CA	2.18	0.67
1:J:345:ASN:HA	1:J:348:LYS:CG	2.23	0.67
1:J:734:VAL:HG13	1:J:737:ILE:H	1.60	0.67
1:L:1024:SER:HB3	1:L:1026:PHE:CD2	2.30	0.67
1:L:1149:LEU:HD12	1:L:1180:ILE:N	2.10	0.67
1:M:229:ARG:O	1:M:232:LEU:HG	1.95	0.67
1:M:562:LEU:HD22	1:M:581:VAL:HB	1.77	0.67
1:Q:632:LEU:HD11	1:Q:906:ASP:OD2	1.94	0.67
1:Q:849:LEU:HD21	1:Q:854:VAL:C	2.20	0.67
1:Q:946:ARG:HD3	1:Q:990:LYS:HD2	1.75	0.67
1:I:76:PHE:HA	1:I:80:VAL:HB	1.76	0.67
1:I:676:LYS:HE2	1:I:678:TRP:HB2	1.75	0.67
1:K:101:MET:O	1:K:105:MET:HG2	1.95	0.67
1:L:531:ASN:OD1	1:L:536:GLU:CG	2.41	0.67
1:M:48:ILE:HG12	1:M:52:LYS:CD	2.25	0.67
1:M:746:TRP:HA	1:M:762:LYS:HG2	1.77	0.67
1:M:824:LYS:HG2	1:M:831:ILE:HA	1.75	0.67
1:Q:664:LYS:HD3	1:Q:681:TRP:CH2	2.29	0.67
1:Q:849:LEU:HD23	1:Q:855:GLN:HA	1.76	0.67
1:H:1218:GLU:HG2	1:H:1219:ASN:H	1.58	0.67
1:M:1106:TYR:HE2	1:M:1109:LEU:CD1	2.03	0.67
1:M:1110:GLN:HG3	1:M:1122:GLY:HA2	1.77	0.67
2:N:55:LEU:HD12	2:N:57:GLY:H	1.60	0.67
1:I:866:LYS:NZ	1:I:878:THR:OG1	2.28	0.67
1:H:381:ILE:N	1:H:420:ILE:O	2.28	0.67
1:H:617:HIS:N	1:H:635:VAL:HG21	2.10	0.67
1:H:1071:ALA:N	1:H:1076:ALA:O	2.26	0.67
1:H:1190:LYS:HG3	1:H:1193:TYR:H	1.59	0.67
1:J:631:LEU:HD11	1:J:663:GLN:NE2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:483:ARG:HH12	1:L:531:ASN:CG	2.03	0.67
1:M:619:ASP:HB2	1:M:634:ASP:HA	1.77	0.67
1:M:762:LYS:HB2	1:M:764:MET:SD	2.34	0.67
1:Q:10:TYR:O	1:Q:96:GLN:NE2	2.28	0.67
1:Q:1091:GLN:HG2	1:Q:1103:SER:HA	1.76	0.67
1:I:768:ILE:CD1	1:I:777:ARG:HB3	2.25	0.67
1:K:815:ALA:HB3	1:K:822:ARG:HB2	1.77	0.67
1:H:969:VAL:HA	1:H:992:ARG:HH21	1.60	0.67
1:J:743:ILE:CG1	1:J:775:LEU:HD22	2.25	0.67
1:M:148:LEU:HD22	1:M:282:HIS:HD2	1.60	0.67
1:O:766:SER:HB3	1:O:785:ASN:HA	1.77	0.67
1:Q:870:ASP:O	1:Q:872:ARG:N	2.27	0.67
1:I:188:SER:HB3	1:I:191:THR:HG23	1.77	0.67
1:I:781:VAL:HG21	1:I:822:ARG:HH12	1.58	0.67
1:I:868:SER:O	1:I:872:ARG:N	2.28	0.67
1:I:1018:CYS:O	1:I:1029:GLU:CA	2.39	0.67
1:J:620:PHE:CD2	1:J:662:GLN:CB	2.67	0.66
2:N:10:MET:SD	2:N:15:ARG:NH1	2.68	0.66
1:I:410:LEU:HD12	1:I:410:LEU:C	2.20	0.66
1:H:124:ASN:ND2	1:H:163:ASP:OD1	2.29	0.66
1:L:769:ARG:NH2	1:L:779:TYR:HB2	2.10	0.66
1:L:771:PHE:CE1	1:L:773:GLN:OE1	2.47	0.66
1:O:25:ASP:O	2:N:81:GLN:NE2	2.28	0.66
2:B:14:HIS:HB3	2:B:87:TYR:HE2	1.59	0.66
1:I:447:TYR:C	1:I:450:PRO:HD2	2.20	0.66
1:H:676:LYS:HD2	1:H:676:LYS:N	2.11	0.66
1:H:704:ARG:HG2	1:H:718:TYR:HA	1.76	0.66
1:J:1244:CYS:SG	1:J:1245:LYS:N	2.63	0.66
1:L:563:ARG:NH1	1:L:1244:CYS:O	2.28	0.66
2:D:59:PRO:HB3	2:D:62:MET:HB3	1.77	0.66
1:H:69:GLN:HG3	1:H:72:MET:HE1	1.77	0.66
1:H:466:TYR:O	1:H:470:HIS:ND1	2.28	0.66
1:H:617:HIS:C	1:H:635:VAL:CG2	2.69	0.66
1:H:682:PRO:HB3	1:H:694:LYS:HZ2	1.60	0.66
1:J:183:LEU:HD11	1:J:244:LEU:HD12	1.76	0.66
1:J:336:ALA:N	1:J:340:ASN:OD1	2.29	0.66
1:J:360:LEU:HD12	1:J:365:TYR:HB3	1.77	0.66
1:J:1120:ASP:OD1	1:J:1121:HIS:ND1	2.27	0.66
1:O:174:MET:HE1	1:O:241:LEU:N	2.08	0.66
1:O:729:ASN:OD1	1:O:730:ILE:N	2.28	0.66
1:K:105:MET:O	1:K:109:GLN:NE2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:145:LYS:HZ1	1:K:281:THR:H	1.43	0.66
1:K:200:LEU:HD21	1:K:207:TRP:HB2	1.77	0.66
1:H:480:HIS:HA	1:H:530:ASP:OD2	1.95	0.66
1:H:1000:ILE:HA	1:H:1020:ILE:CD1	2.25	0.66
1:J:761:LEU:HA	1:J:766:SER:O	1.94	0.66
1:J:930:HIS:ND1	1:J:971:LEU:O	2.29	0.66
1:J:1083:GLN:OE1	1:J:1103:SER:HB3	1.96	0.66
1:L:178:ILE:HG23	1:L:241:LEU:HD23	1.78	0.66
1:L:483:ARG:HH11	1:L:531:ASN:HB3	1.53	0.66
1:L:752:GLU:HG3	1:L:757:HIS:H	1.60	0.66
1:L:977:MET:HG2	1:L:1009:ILE:CG2	2.24	0.66
1:L:1040:ILE:HG21	1:L:1072:SER:HB2	1.76	0.66
1:L:1069:LEU:HB2	1:L:1079:THR:OG1	1.96	0.66
2:F:90:LEU:HD22	2:F:106:LEU:HD22	1.78	0.66
1:Q:495:ARG:HH22	1:Q:549:ILE:HG23	1.60	0.66
1:Q:1020:ILE:HB	1:Q:1028:ASP:HB2	1.77	0.66
1:K:752:GLU:O	1:K:756:SER:N	2.29	0.66
1:J:320:ASN:OD1	1:J:425:ILE:HG21	1.96	0.66
1:J:396:SER:HB2	1:J:399:MET:HE3	1.77	0.66
1:L:868:SER:N	1:L:873:TYR:O	2.21	0.66
1:L:1123:VAL:HG13	1:L:1125:HIS:CE1	2.30	0.66
1:M:136:GLN:O	1:M:139:LEU:HG	1.95	0.66
1:M:204:ASP:OD1	1:M:206:ASN:ND2	2.28	0.66
1:M:319:THR:H	1:M:323:ARG:NH2	1.94	0.66
1:M:939:GLY:C	1:M:947:GLU:N	2.52	0.66
1:O:883:ILE:O	1:O:885:TYR:N	2.26	0.66
2:G:22:LEU:HD21	2:G:73:ARG:HG3	1.76	0.66
1:Q:72:MET:HE1	1:Q:75:LYS:HD3	1.78	0.66
1:Q:127:ARG:HD2	1:Q:160:VAL:HG22	1.78	0.66
1:J:761:LEU:HD22	1:J:804:HIS:HD2	1.58	0.66
1:O:703:LYS:HD2	1:O:747:ASP:HA	1.77	0.66
1:O:1218:GLU:HG2	1:O:1237:ARG:HG3	1.78	0.66
1:Q:621:CYS:CB	1:Q:899:SER:C	2.63	0.66
1:Q:644:LEU:HD22	1:Q:897:ASN:OD1	1.94	0.66
1:Q:681:TRP:HZ3	1:Q:718:TYR:CE1	2.13	0.66
1:K:1221:LYS:HD3	1:K:1224:LEU:HD11	1.77	0.66
1:J:702:VAL:HG12	1:J:705:PHE:CE1	2.31	0.66
1:J:756:SER:O	1:J:772:VAL:HB	1.95	0.66
1:J:829:LEU:HD22	1:J:829:LEU:N	2.08	0.66
1:M:658:ALA:N	1:M:678:TRP:HH2	1.92	0.66
1:M:682:PRO:HA	1:M:693:SER:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:360:LEU:HD13	1:O:365:TYR:HB2	1.77	0.66
2:B:50:ARG:NH2	2:B:53:GLN:OE1	2.29	0.66
1:Q:72:MET:HG3	1:Q:76:PHE:CE2	2.31	0.66
1:Q:1019:LYS:HE3	1:Q:1058:ILE:HG21	1.76	0.66
1:I:406:HIS:ND1	1:I:411:VAL:O	2.26	0.66
1:K:1027:ASN:CB	1:K:1041:ILE:HG13	2.26	0.66
1:H:148:LEU:HD11	1:H:150:ASP:HB3	1.78	0.66
1:L:1024:SER:CB	1:L:1026:PHE:CE2	2.79	0.66
1:Q:273:ASP:O	1:I:122:LYS:NZ	2.29	0.66
1:I:1029:GLU:OE2	1:I:1031:ILE:HD11	1.96	0.66
1:I:1053:PHE:HA	1:I:1058:ILE:HG12	1.77	0.66
1:K:16:LEU:CD2	1:K:65:LEU:HD22	2.26	0.66
1:H:666:LEU:HD12	1:H:670:HIS:HB3	1.78	0.66
1:J:620:PHE:CD1	1:J:887:LEU:HD12	2.28	0.66
1:J:643:TYR:H	1:J:647:ASP:HA	1.61	0.66
1:J:734:VAL:HG22	1:J:737:ILE:HA	1.78	0.66
1:J:1111:GLU:O	1:J:1120:ASP:N	2.29	0.66
1:M:886:ASP:HB2	1:M:901:HIS:HA	1.78	0.66
1:O:1136:LYS:HE3	1:O:1141:GLU:HB3	1.77	0.66
2:C:26:VAL:HA	2:C:72:HIS:HD2	1.61	0.66
1:K:822:ARG:NH1	1:K:834:TYR:OH	2.29	0.66
1:H:126:SER:HA	1:H:131:TYR:HE2	1.61	0.65
1:M:82:ARG:HD3	1:M:89:MET:HE1	1.78	0.65
1:M:642:THR:HG22	1:M:649:SER:HA	1.78	0.65
1:M:746:TRP:N	1:M:762:LYS:HB3	2.11	0.65
1:O:637:LEU:HD13	1:O:658:ALA:O	1.96	0.65
1:O:987:VAL:O	1:O:992:ARG:NH1	2.29	0.65
2:A:95:ARG:HH21	2:A:100:LEU:HA	1.60	0.65
2:B:43:ILE:O	2:B:82:ARG:NH1	2.29	0.65
1:Q:616:LEU:HB3	1:Q:635:VAL:HB	1.76	0.65
1:K:1136:LYS:HE2	1:K:1143:TYR:HE1	1.61	0.65
1:K:1231:VAL:O	1:K:1245:LYS:NZ	2.27	0.65
1:J:536:GLU:OE1	1:J:536:GLU:HA	1.96	0.65
1:J:1083:GLN:HE22	1:J:1101:ASP:CB	2.09	0.65
1:L:823:SER:O	1:L:832:PHE:N	2.22	0.65
1:M:271:VAL:HA	1:M:274:PHE:HE1	1.61	0.65
1:O:488:ARG:HA	1:O:491:PHE:HD2	1.61	0.65
1:Q:807:ASN:HD22	1:Q:855:GLN:HE21	1.38	0.65
1:K:621:CYS:SG	1:K:632:LEU:HD23	2.35	0.65
1:J:476:LYS:CD	1:J:527:TYR:CD1	2.78	0.65
1:L:850:GLN:NE2	1:L:891:ASP:O	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1042:ASP:O	1:L:1045:HIS:HD2	1.80	0.65
1:M:260:CYS:SG	1:M:261:LYS:N	2.66	0.65
1:M:770:CYS:HA	1:M:777:ARG:HA	1.78	0.65
1:O:1143:TYR:HD1	1:O:1153:LEU:HD22	1.60	0.65
1:K:117:ASN:HB2	1:K:120:PHE:HB3	1.78	0.65
1:J:757:HIS:HE1	1:J:778:TYR:CG	2.15	0.65
1:L:85:TYR:HB3	1:L:88:LEU:HD13	1.77	0.65
1:M:908:TYR:O	1:M:916:LYS:NZ	2.28	0.65
1:O:659:VAL:HB	1:O:677:LEU:HG	1.79	0.65
1:O:659:VAL:HG21	1:O:677:LEU:HD11	1.78	0.65
2:A:45:THR:H	2:A:48:MET:HB2	1.61	0.65
1:Q:516:ASN:O	1:Q:519:GLN:NE2	2.28	0.65
1:I:127:ARG:HG3	1:I:130:PRO:HD2	1.78	0.65
1:I:1102:VAL:HG11	1:I:1109:LEU:CD2	2.26	0.65
1:K:48:ILE:HG12	1:K:61:LEU:HD23	1.76	0.65
1:K:57:GLY:O	1:K:61:LEU:HG	1.97	0.65
1:K:127:ARG:HD3	1:K:292:LEU:HD13	1.78	0.65
1:K:447:TYR:O	1:K:450:PRO:HD2	1.97	0.65
1:K:483:ARG:NH1	1:K:528:ILE:O	2.30	0.65
1:H:143:PRO:HA	1:H:261:LYS:HB3	1.77	0.65
1:H:929:VAL:HG12	1:H:936:SER:OG	1.96	0.65
1:H:970:TYR:CD2	1:H:1011:PRO:CA	2.78	0.65
1:J:825:THR:H	1:J:832:PHE:HB2	1.60	0.65
1:L:824:LYS:HE2	1:L:831:ILE:HG12	1.79	0.65
1:M:48:ILE:HG12	1:M:52:LYS:HD3	1.77	0.65
1:M:768:ILE:HG12	1:M:780:VAL:HG12	1.79	0.65
1:O:472:GLY:CA	1:O:487:PHE:HZ	1.99	0.65
1:K:168:TYR:HB3	1:K:169:LYS:NZ	2.12	0.65
1:K:898:VAL:HB	1:K:908:TYR:HD1	1.61	0.65
1:H:484:MET:CE	1:H:490:VAL:HG21	2.27	0.65
1:H:979:ARG:HG3	1:H:1007:SER:OG	1.96	0.65
1:J:56:SER:HB3	1:J:128:LEU:HD21	1.77	0.65
1:J:985:LEU:HG	1:J:987:VAL:H	1.60	0.65
1:L:685:PRO:HG3	1:L:689:HIS:HB2	0.70	0.65
1:M:920:LEU:HB3	1:M:1241:PHE:HA	1.78	0.65
1:O:1041:ILE:HG22	1:O:1043:VAL:HG12	1.79	0.65
1:O:1227:SER:N	1:O:1232:HIS:O	2.30	0.65
1:I:270:GLN:HB3	1:I:407:LYS:HG3	1.79	0.65
1:I:769:ARG:NH2	1:I:825:THR:O	2.30	0.65
1:H:82:ARG:NE	1:H:89:MET:HE1	2.10	0.65
1:H:965:LEU:CD1	1:H:979:ARG:O	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1030:GLN:HE21	1:H:1030:GLN:CA	2.08	0.65
1:J:672:ASN:O	1:J:684:CYS:N	2.30	0.65
1:O:184:LYS:NZ	1:O:185:ASN:OD1	2.29	0.65
1:O:440:HIS:HA	1:O:443:ILE:HG22	1.78	0.65
2:D:43:ILE:HG22	2:D:44:LEU:HD12	1.79	0.65
1:Q:153:LEU:HB3	1:Q:267:ARG:HB3	1.79	0.65
1:I:660:PHE:CE1	1:I:676:LYS:HG2	2.31	0.65
1:K:1019:LYS:HE3	1:K:1058:ILE:HD12	1.77	0.65
1:H:683:ASP:H	1:H:694:LYS:HZ3	1.45	0.65
1:H:951:VAL:HG13	1:H:953:SER:H	1.61	0.65
1:J:725:LEU:CD1	1:J:742:SER:O	2.45	0.65
1:J:761:LEU:CD2	1:J:804:HIS:HD2	2.09	0.65
1:L:124:ASN:O	1:L:303:LYS:NZ	2.30	0.65
1:L:143:PRO:HA	1:L:261:LYS:HG3	1.77	0.65
1:L:1153:LEU:HB2	1:L:1165:VAL:HG12	1.79	0.65
1:Q:193:LEU:O	1:Q:197:GLN:NE2	2.29	0.65
1:Q:616:LEU:HG	1:Q:636:SER:OG	1.97	0.65
1:I:177:LYS:HD2	1:I:240:CYS:HB3	1.78	0.65
1:I:463:LEU:HD22	1:I:466:TYR:H	1.61	0.65
1:J:51:SER:HB3	1:J:60:ARG:HH21	1.61	0.65
1:J:488:ARG:NE	1:J:491:PHE:CD2	2.63	0.65
1:J:768:ILE:HA	1:J:779:TYR:O	1.96	0.65
1:M:761:LEU:HD12	1:M:804:HIS:CE1	2.26	0.65
1:I:181:LEU:HD11	1:I:199:LEU:HD21	1.79	0.65
1:I:405:LEU:CG	1:I:410:LEU:HD21	2.27	0.65
1:I:1135:VAL:HA	1:I:1142:GLU:HA	1.77	0.65
1:K:1042:ASP:OD2	1:K:1060:TYR:CE2	2.50	0.65
1:K:1237:ARG:HG3	1:K:1239:LEU:H	1.62	0.65
1:H:1067:ASN:OD1	1:H:1091:GLN:NE2	2.27	0.65
1:J:729:ASN:H	1:J:735:ALA:CB	1.95	0.65
1:L:1009:ILE:CD1	1:L:1020:ILE:CG1	2.74	0.65
2:D:87:TYR:O	2:D:91:ILE:N	2.30	0.65
1:Q:753:PHE:CZ	1:Q:810:ASN:ND2	2.65	0.65
1:Q:862:ILE:HG21	1:Q:886:ASP:HA	1.78	0.65
1:H:936:SER:CB	1:H:951:VAL:HG11	2.27	0.64
1:J:803:LEU:HD22	1:J:845:LEU:CA	2.27	0.64
1:L:681:TRP:CH2	1:L:705:PHE:CB	2.80	0.64
1:M:977:MET:HA	1:M:987:VAL:HA	1.79	0.64
1:O:443:ILE:HG13	1:O:478:ILE:HG23	1.78	0.64
1:O:659:VAL:CG2	1:O:677:LEU:HD11	2.27	0.64
1:Q:369:PHE:HZ	1:Q:426:TYR:HB3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:751:GLN:HA	1:I:758:VAL:HG22	1.79	0.64
1:K:660:PHE:HA	1:K:676:LYS:HG2	1.78	0.64
1:O:204:ASP:OD1	1:O:206:ASN:ND2	2.27	0.64
1:Q:622:LEU:HD12	1:Q:663:GLN:NE2	2.11	0.64
1:Q:637:LEU:HD11	1:Q:658:ALA:H	1.61	0.64
1:H:183:LEU:HD12	1:H:247:VAL:HA	1.77	0.64
1:L:204:ASP:OD1	1:L:206:ASN:ND2	2.26	0.64
1:L:757:HIS:ND1	1:L:771:PHE:HA	2.11	0.64
1:M:1083:GLN:HA	1:M:1083:GLN:NE2	2.11	0.64
1:O:656:ARG:HD2	1:O:676:LYS:NZ	2.11	0.64
1:Q:728:ALA:HB2	1:Q:735:ALA:HA	1.77	0.64
1:Q:927:GLN:HB2	1:Q:968:ASN:HB2	1.80	0.64
1:Q:1226:TYR:HA	1:Q:1233:GLU:HA	1.79	0.64
1:I:642:THR:HG22	1:I:649:SER:HA	1.78	0.64
1:K:865:GLY:HA2	1:K:877:GLY:HA2	1.80	0.64
1:H:665:HIS:ND1	1:H:672:ASN:HB3	2.13	0.64
1:H:954:ALA:HB2	1:H:969:VAL:HG23	1.77	0.64
1:J:769:ARG:CZ	1:J:824:LYS:HD2	2.27	0.64
1:J:910:LEU:O	1:J:914:VAL:HG23	1.97	0.64
1:O:958:SER:HB2	1:O:960:MET:HE3	1.78	0.64
2:A:15:ARG:NH1	2:A:80:THR:O	2.31	0.64
2:D:48:MET:HE2	2:D:78:LYS:HG3	1.78	0.64
2:E:52:THR:O	2:E:74:ARG:NH1	2.30	0.64
1:Q:305:LEU:HD13	1:Q:332:ARG:HB2	1.78	0.64
1:I:484:MET:HE1	1:I:531:ASN:OD1	1.98	0.64
1:I:643:TYR:HD2	1:I:646:ARG:H	1.43	0.64
1:I:1064:VAL:HG21	1:I:1084:LEU:O	1.98	0.64
1:K:1020:ILE:HB	1:K:1028:ASP:OD1	1.97	0.64
1:H:333:ASP:HB3	1:O:403:ASN:HD21	1.61	0.64
1:H:484:MET:HE2	1:H:535:TYR:OH	1.96	0.64
1:J:101:MET:HA	1:J:104:ARG:HB2	1.79	0.64
1:J:1051:GLN:C	1:J:1060:TYR:HE1	2.05	0.64
1:L:82:ARG:HH21	1:L:93:LYS:HE2	1.61	0.64
1:L:537:ARG:HA	1:L:540:ASN:HD21	1.62	0.64
1:L:695:GLN:CD	1:L:695:GLN:H	2.06	0.64
1:M:620:PHE:HA	1:M:887:LEU:HD12	1.80	0.64
1:O:769:ARG:HB3	1:O:778:TYR:HB2	1.80	0.64
1:I:142:ARG:HB3	1:I:145:LYS:HB2	1.80	0.64
1:I:1109:LEU:HD21	1:I:1133:ALA:CB	2.26	0.64
1:K:133:LYS:HE3	1:K:283:ILE:HD12	1.80	0.64
1:K:287:HIS:HB3	1:K:290:MET:HG2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:728:ALA:HB2	1:H:735:ALA:HA	1.80	0.64
1:H:811:ASP:O	1:H:826:ALA:N	2.26	0.64
1:H:989:SER:CB	1:H:994:HIS:O	2.45	0.64
1:J:640:GLU:HG2	1:J:652:SER:HB2	1.80	0.64
1:J:979:ARG:HG2	1:J:1009:ILE:CD1	2.28	0.64
1:L:41:SER:O	1:L:43:GLU:N	2.30	0.64
1:M:16:LEU:HD13	1:M:65:LEU:HD11	1.80	0.64
1:O:72:MET:HA	1:O:75:LYS:HE2	1.78	0.64
2:F:15:ARG:NH1	2:F:80:THR:O	2.31	0.64
2:G:49:LEU:HD12	1:Q:32:VAL:HA	1.80	0.64
1:Q:525:LYS:HG2	1:Q:543:LEU:HD11	1.79	0.64
1:I:676:LYS:HD2	1:I:678:TRP:HD1	1.63	0.64
1:I:989:SER:CA	1:I:993:ILE:HG21	2.27	0.64
1:K:456:ASP:O	1:K:583:ARG:NH1	2.31	0.64
1:H:977:MET:HE3	1:H:1018:CYS:SG	2.37	0.64
1:J:82:ARG:O	1:J:82:ARG:NE	2.29	0.64
1:J:622:LEU:HD12	1:J:663:GLN:HG2	1.80	0.64
1:L:1126:LEU:O	1:L:1126:LEU:HD13	1.97	0.64
1:M:154:GLY:N	1:M:157:LYS:HZ3	1.95	0.64
1:M:620:PHE:CD2	1:M:887:LEU:HD11	2.33	0.64
1:M:719:LEU:HA	1:M:725:LEU:HD22	1.80	0.64
1:O:822:ARG:HA	1:O:835:SER:HA	1.77	0.64
2:B:71:GLN:O	2:B:74:ARG:HB2	1.97	0.64
1:I:443:ILE:CG1	1:I:477:ASN:OD1	2.46	0.64
1:I:1070:VAL:HA	1:I:1077:GLN:HA	1.79	0.64
1:K:56:SER:OG	1:K:60:ARG:NH2	2.30	0.64
1:K:879:SER:HB3	1:K:918:ILE:HD11	1.78	0.64
1:L:246:ASN:O	1:L:248:GLN:NE2	2.31	0.64
1:L:665:HIS:HE1	1:L:670:HIS:C	2.06	0.64
1:M:1061:LEU:CD1	1:M:1103:SER:OG	2.46	0.64
1:O:480:HIS:CB	1:O:483:ARG:HH22	2.11	0.64
1:O:896:SER:HA	1:O:910:LEU:HA	1.80	0.64
1:Q:631:LEU:HD12	1:Q:665:HIS:CE1	2.32	0.64
1:I:988:ASP:OD1	1:I:1031:ILE:HA	1.96	0.64
1:K:445:ASP:O	1:K:449:ILE:HG22	1.97	0.64
1:K:706:ILE:HD11	1:K:751:GLN:HB2	1.80	0.64
1:H:989:SER:HB3	1:H:994:HIS:O	1.96	0.64
1:J:641:ASP:O	1:J:649:SER:HB3	1.98	0.64
1:J:656:ARG:CZ	1:J:676:LYS:HG2	2.28	0.64
1:L:1061:LEU:CA	1:L:1066:PRO:CB	2.50	0.64
1:M:483:ARG:HH21	1:M:528:ILE:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:816:LEU:HD11	1:Q:846:SER:HB2	1.80	0.64
1:K:483:ARG:HG2	1:K:484:MET:HE2	1.78	0.64
1:H:617:HIS:HB2	1:H:635:VAL:HG22	1.66	0.64
1:H:1010:THR:CB	1:H:1011:PRO:HD3	2.27	0.64
1:J:813:PRO:CG	1:J:824:LYS:H	2.08	0.64
1:J:880:GLU:OE2	1:J:909:GLU:HB2	1.98	0.64
1:L:688:ARG:NH1	1:L:688:ARG:HB2	2.13	0.64
1:M:769:ARG:O	1:M:778:TYR:N	2.28	0.64
2:F:95:ARG:HH22	2:F:103:ALA:HB3	1.63	0.64
1:Q:854:VAL:HG13	1:Q:868:SER:HA	1.79	0.64
1:I:183:LEU:O	1:I:248:GLN:NE2	2.31	0.64
1:I:1019:LYS:HZ3	1:I:1052:GLN:HG3	1.61	0.64
1:K:463:LEU:HD23	1:K:465:GLN:H	1.63	0.64
1:K:825:THR:OG1	1:K:830:LEU:N	2.28	0.64
1:K:1052:GLN:O	1:K:1093:ASN:ND2	2.31	0.64
1:H:966:GLU:O	1:H:978:THR:HG22	1.97	0.63
1:M:746:TRP:N	1:M:763:THR:HG1	1.96	0.63
1:O:1134:PHE:HB3	1:O:1143:TYR:HB2	1.79	0.63
1:Q:488:ARG:HB2	1:Q:494:PHE:HB2	1.79	0.63
1:Q:857:PRO:CG	1:Q:865:GLY:O	2.46	0.63
1:I:488:ARG:HG3	1:I:491:PHE:HD2	1.62	0.63
1:H:99:PRO:O	1:H:104:ARG:NE	2.31	0.63
1:H:891:ASP:HB3	1:H:892:PRO:HD2	1.80	0.63
1:L:22:ALA:O	1:L:26:ASN:ND2	2.31	0.63
1:L:946:ARG:HH12	1:L:966:GLU:C	2.05	0.63
1:L:966:GLU:OE1	1:L:977:MET:HG2	1.98	0.63
1:M:850:GLN:NE2	1:M:891:ASP:O	2.31	0.63
1:M:968:ASN:HD21	1:M:1009:ILE:HG21	1.63	0.63
1:O:1219:ASN:HB3	1:O:1238:GLN:NE2	2.11	0.63
2:D:29:THR:OG1	2:D:72:HIS:NE2	2.31	0.63
1:Q:680:LEU:HG	1:Q:696:GLN:CA	2.29	0.63
1:K:13:LYS:NZ	1:K:68:LYS:O	2.30	0.63
1:K:625:LEU:H	1:K:669:LEU:HD11	1.63	0.63
1:K:968:ASN:HB3	1:K:1010:THR:CB	2.28	0.63
1:L:181:LEU:HB3	1:L:244:LEU:HD13	1.80	0.63
1:L:760:VAL:N	1:L:768:ILE:O	2.32	0.63
1:M:502:ARG:NH2	1:M:503:HIS:O	2.31	0.63
1:Q:12:TYR:OH	1:Q:77:VAL:CB	2.45	0.63
1:I:12:TYR:N	1:I:70:GLU:OE2	2.28	0.63
1:I:787:THR:HB	1:I:816:LEU:HB3	1.80	0.63
1:H:1136:LYS:HD3	1:H:1141:GLU:HB2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:35:MET:CE	1:J:39:ILE:H	2.10	0.63
1:J:35:MET:HE1	1:J:39:ILE:H	1.62	0.63
1:J:968:ASN:ND2	1:J:988:ASP:O	2.30	0.63
1:J:1146:GLY:H	1:J:1150:LYS:HG2	1.64	0.63
1:L:181:LEU:HD12	1:L:199:LEU:HD21	1.79	0.63
1:L:685:PRO:HG2	1:L:689:HIS:CB	2.26	0.63
1:O:304:TYR:HB3	1:O:332:ARG:HH22	1.64	0.63
1:K:1067:ASN:ND2	1:K:1091:GLN:HB2	2.14	0.63
1:H:975:MET:N	1:H:992:ARG:HB3	2.14	0.63
1:J:1054:ILE:HD13	1:J:1058:ILE:O	1.98	0.63
1:L:674:SER:HB2	1:L:682:PRO:HD2	1.81	0.63
1:L:805:VAL:HG11	1:L:848:SER:H	1.64	0.63
1:L:966:GLU:OE1	1:L:977:MET:CG	2.47	0.63
1:M:633:THR:HB	1:M:660:PHE:HD2	1.62	0.63
1:O:665:HIS:ND1	1:O:666:LEU:O	2.31	0.63
1:O:1104:THR:HB	1:O:1130:ASN:HB3	1.80	0.63
2:B:12:LYS:HA	2:B:15:ARG:HD3	1.80	0.63
1:Q:659:VAL:CG2	1:Q:678:TRP:CZ3	2.74	0.63
1:Q:1018:CYS:N	1:Q:1030:GLN:O	2.31	0.63
1:K:706:ILE:HG13	1:K:717:PHE:HB2	1.80	0.63
1:K:929:VAL:HG11	1:K:971:LEU:CD2	2.28	0.63
1:K:1187:GLN:HB3	1:K:1193:TYR:HA	1.79	0.63
1:H:89:MET:C	1:H:93:LYS:HZ2	2.07	0.63
1:H:704:ARG:HB3	1:H:718:TYR:HD1	0.72	0.63
1:J:716:ALA:HB1	1:J:718:TYR:CE1	2.32	0.63
1:J:1012:THR:CA	1:J:1053:PHE:HD2	1.96	0.63
1:J:1091:GLN:HG3	1:J:1094:ASP:C	2.23	0.63
1:J:1091:GLN:O	1:J:1091:GLN:HG2	1.97	0.63
1:L:625:LEU:HD11	1:L:669:LEU:CD2	2.16	0.63
1:O:401:VAL:O	1:O:405:LEU:HG	1.99	0.63
1:O:656:ARG:HD2	1:O:676:LYS:HZ1	1.64	0.63
2:E:55:LEU:HD12	2:E:74:ARG:HD3	1.79	0.63
1:K:910:LEU:O	1:K:914:VAL:HG23	1.98	0.63
1:K:1149:LEU:HD21	1:K:1167:ARG:NH2	2.13	0.63
1:H:785:ASN:HD22	1:H:836:VAL:HG21	1.64	0.63
1:H:987:VAL:HG21	1:H:996:ILE:HG21	1.78	0.63
1:L:165:CYS:O	1:L:171:GLN:NE2	2.32	0.63
1:M:61:LEU:O	1:M:65:LEU:CD2	2.41	0.63
1:M:193:LEU:HG	1:M:197:GLN:HE22	1.63	0.63
1:M:868:SER:O	1:M:872:ARG:N	2.32	0.63
1:O:15:ILE:HD12	1:O:95:GLU:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:611:ARG:NH1	1:O:904:CYS:O	2.28	0.63
1:I:246:ASN:O	1:I:248:GLN:NE2	2.32	0.63
1:I:633:THR:HG22	1:I:639:GLY:HA2	1.80	0.63
1:I:1199:ASP:N	1:I:1219:ASN:OD1	2.31	0.63
1:K:168:TYR:HB3	1:K:169:LYS:HZ3	1.63	0.63
1:K:692:GLY:O	1:K:694:LYS:N	2.31	0.63
1:H:235:LYS:HG3	1:H:236:PRO:HD3	1.81	0.63
1:H:977:MET:HA	1:H:987:VAL:HG12	1.81	0.63
1:J:39:ILE:HB	1:J:72:MET:HB3	1.81	0.63
1:J:127:ARG:HB2	1:J:130:PRO:HD2	1.81	0.63
1:L:141:LEU:O	1:L:261:LYS:NZ	2.32	0.63
1:L:609:GLU:HB2	1:L:908:TYR:HB3	1.80	0.63
1:L:688:ARG:HG3	1:L:688:ARG:O	1.96	0.63
1:O:174:MET:O	1:O:177:LYS:NZ	2.30	0.63
1:O:349:LEU:HD23	1:O:352:ILE:HD11	1.79	0.63
1:O:483:ARG:O	1:O:489:MET:HE2	1.98	0.63
1:Q:622:LEU:HD13	1:Q:665:HIS:CE1	2.25	0.63
1:Q:703:LYS:O	1:Q:705:PHE:CD2	2.52	0.63
1:I:970:TYR:CZ	1:I:991:GLU:CG	2.80	0.63
1:K:173:LYS:O	1:K:239:ASN:ND2	2.32	0.63
1:K:387:SER:HA	1:K:398:VAL:HG21	1.81	0.63
1:H:926:LYS:HE3	1:H:937:VAL:HG11	1.81	0.63
1:H:930:HIS:NE2	1:H:1227:SER:CB	2.47	0.63
1:J:106:TYR:CE2	1:J:171:GLN:HB3	2.30	0.63
1:J:149:ILE:HG22	1:J:283:ILE:HB	1.81	0.63
1:O:857:PRO:HD2	1:O:866:LYS:HA	1.81	0.63
1:O:895:ARG:HA	1:O:911:PHE:HB3	1.80	0.63
1:Q:979:ARG:HD3	1:Q:985:LEU:HD21	1.76	0.63
1:H:719:LEU:HB3	1:H:726:PRO:HD2	1.79	0.62
1:H:1019:LYS:HA	1:H:1029:GLU:CB	2.29	0.62
1:J:182:ASN:HB2	1:J:184:LYS:HD3	1.79	0.62
1:J:453:PHE:HB3	1:J:462:TYR:HE1	1.62	0.62
1:J:761:LEU:CG	1:J:804:HIS:HD2	2.12	0.62
1:L:99:PRO:O	1:L:104:ARG:NE	2.32	0.62
1:M:81:LEU:HD22	1:M:89:MET:HB3	1.80	0.62
1:O:656:ARG:CD	1:O:676:LYS:HE2	2.27	0.62
1:I:671:CYS:HA	1:I:684:CYS:O	1.98	0.62
1:H:190:GLU:O	1:H:194:GLU:HG2	1.99	0.62
1:J:200:LEU:O	1:J:204:ASP:N	2.27	0.62
1:J:752:GLU:HG2	1:J:757:HIS:HB3	1.80	0.62
1:L:447:TYR:O	1:L:450:PRO:HD2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:382:PRO:HG3	1:M:463:LEU:HD13	1.79	0.62
1:O:26:ASN:OD1	1:O:27:PHE:N	2.31	0.62
1:O:471:ILE:CG2	1:O:487:PHE:CZ	2.67	0.62
2:A:10:MET:HE3	2:A:15:ARG:NH1	2.14	0.62
2:E:33:ARG:HG3	2:E:97:ILE:HD12	1.80	0.62
1:Q:916:LYS:HE2	1:Q:920:LEU:HD12	1.80	0.62
1:I:376:PRO:HG2	1:I:470:HIS:CD2	2.33	0.62
1:K:127:ARG:NH2	1:K:289:SER:O	2.32	0.62
1:J:525:LYS:N	1:J:526:PRO:CD	2.62	0.62
1:J:562:LEU:HD22	1:J:581:VAL:HB	1.79	0.62
1:J:760:VAL:CG2	1:J:769:ARG:N	2.62	0.62
1:L:213:HIS:N	1:L:220:ARG:HD2	2.12	0.62
1:M:1106:TYR:HD2	1:M:1109:LEU:CA	2.08	0.62
1:O:543:LEU:HA	1:O:546:LEU:HD12	1.81	0.62
1:Q:900:GLU:HG3	1:Q:900:GLU:O	1.99	0.62
1:I:40:LEU:HD21	1:I:45:ILE:HD12	1.82	0.62
1:I:968:ASN:HD22	1:I:990:LYS:HG3	1.63	0.62
1:H:656:ARG:NH2	1:H:680:LEU:HD12	2.13	0.62
1:H:683:ASP:O	1:H:691:GLY:HA2	1.99	0.62
1:H:975:MET:HE2	1:H:996:ILE:HG21	1.79	0.62
1:J:946:ARG:HH11	1:J:977:MET:HA	1.64	0.62
1:J:1098:LEU:N	1:J:1098:LEU:HD22	2.13	0.62
1:L:846:SER:HA	1:L:857:PRO:HA	1.81	0.62
1:M:617:HIS:ND1	1:M:902:ILE:O	2.33	0.62
1:Q:55:VAL:HG11	1:Q:135:ARG:HH21	1.64	0.62
1:Q:340:ASN:O	1:Q:345:ASN:ND2	2.31	0.62
1:Q:663:GLN:CG	1:Q:674:SER:HB2	2.29	0.62
1:K:244:LEU:HB2	1:K:264:LEU:HG	1.80	0.62
1:K:804:HIS:HA	1:K:814:LEU:HB3	1.81	0.62
1:K:818:VAL:HG12	1:K:819:PHE:HD1	1.64	0.62
1:K:1191:ILE:HG22	1:K:1192:SER:H	1.65	0.62
1:L:1068:ILE:CD1	1:L:1077:GLN:NE2	2.63	0.62
1:M:935:ARG:HE	1:M:1234:HIS:HE1	1.45	0.62
1:O:203:ILE:HG21	1:O:231:LEU:HD13	1.80	0.62
1:Q:684:CYS:HB2	1:Q:685:PRO:CD	2.29	0.62
1:K:115:ASN:O	1:K:118:GLN:NE2	2.32	0.62
1:K:156:GLY:HA2	1:K:159:TRP:CD1	2.34	0.62
1:K:1060:TYR:CD2	1:K:1070:VAL:HG21	2.35	0.62
1:H:468:TYR:CE2	1:H:501:ILE:HD13	2.35	0.62
1:H:483:ARG:HD2	1:H:530:ASP:OD1	1.99	0.62
1:H:954:ALA:CA	1:H:990:LYS:HZ1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:975:MET:N	1:H:992:ARG:CB	2.63	0.62
1:J:807:ASN:CG	1:J:853:ALA:HB1	2.24	0.62
1:L:127:ARG:HD3	1:L:292:LEU:HG	1.81	0.62
1:L:338:TRP:HA	1:L:341:TRP:HB3	1.81	0.62
1:L:671:CYS:HA	1:L:684:CYS:O	1.98	0.62
1:O:103:THR:O	1:O:107:ILE:HG12	2.00	0.62
1:O:280:THR:OG1	1:O:282:HIS:NE2	2.29	0.62
1:O:1218:GLU:HB2	1:O:1237:ARG:CD	2.29	0.62
1:Q:638:GLU:O	1:Q:652:SER:C	2.43	0.62
1:J:377:PRO:HA	1:J:427:LEU:HD22	1.80	0.62
1:M:127:ARG:NH2	1:M:291:THR:O	2.25	0.62
1:M:167:SER:O	1:M:171:GLN:NE2	2.33	0.62
1:O:1218:GLU:HG2	1:O:1239:LEU:H	1.64	0.62
1:I:483:ARG:HG3	1:I:487:PHE:CE2	2.34	0.62
1:I:484:MET:HE1	1:I:531:ASN:CG	2.24	0.62
1:I:719:LEU:HD22	1:I:749:GLN:HB2	1.81	0.62
1:H:956:GLU:HA	1:H:990:LYS:HG3	1.80	0.62
1:J:760:VAL:HG23	1:J:769:ARG:H	1.62	0.62
1:J:762:LYS:CG	1:J:764:MET:CE	2.75	0.62
1:J:950:TRP:HB2	1:J:955:ASP:HB2	1.82	0.62
1:L:964:CYS:SG	1:L:980:GLU:CG	2.88	0.62
1:L:1066:PRO:HD2	1:L:1106:TYR:O	1.99	0.62
2:E:70:GLU:HA	2:E:73:ARG:HG2	1.80	0.62
1:I:752:GLU:CB	1:I:757:HIS:HB3	2.28	0.62
1:K:69:GLN:HE22	1:K:71:GLU:HB3	1.64	0.62
1:K:140:GLU:OE2	1:K:142:ARG:NH2	2.32	0.62
1:K:968:ASN:HB3	1:K:1010:THR:OG1	2.00	0.62
1:H:470:HIS:HB3	1:H:474:HIS:CE1	2.35	0.62
1:H:704:ARG:C	1:H:718:TYR:CE1	2.75	0.62
1:H:1231:VAL:HB	1:H:1246:LEU:HD22	1.81	0.62
1:J:523:PHE:O	1:J:526:PRO:HG2	1.99	0.62
1:J:1047:THR:CG2	1:J:1062:LYS:HB3	2.27	0.62
1:L:487:PHE:HB2	1:L:489:MET:HE1	1.82	0.62
1:L:948:ILE:HB	1:L:957:ILE:HG13	1.82	0.62
1:O:659:VAL:HG21	1:O:677:LEU:CD1	2.30	0.62
1:O:672:ASN:ND2	1:O:684:CYS:O	2.29	0.62
2:N:95:ARG:HD3	2:N:100:LEU:HD22	1.82	0.62
2:D:54:ASP:O	2:D:74:ARG:NH1	2.33	0.62
2:E:31:TYR:HB3	2:E:68:ARG:HH21	1.64	0.62
1:Q:12:TYR:HE2	1:Q:73:VAL:HG12	1.65	0.62
1:Q:23:PHE:HA	1:Q:27:PHE:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:849:LEU:HD11	1:Q:854:VAL:HB	1.82	0.62
1:I:451:LYS:HZ1	1:I:486:LEU:HD21	1.65	0.62
1:H:620:PHE:CD1	1:H:901:HIS:CE1	2.88	0.62
1:H:1066:PRO:HB3	1:H:1082:PHE:HA	1.82	0.62
1:J:170:VAL:O	1:J:174:MET:N	2.30	0.62
1:J:803:LEU:HD13	1:J:843:PRO:HB2	1.81	0.62
1:J:895:ARG:O	1:J:911:PHE:N	2.28	0.62
1:J:1194:LEU:HB3	1:J:1202:MET:SD	2.40	0.62
1:L:664:LYS:HB3	1:L:664:LYS:HZ2	1.63	0.62
1:L:681:TRP:HH2	1:L:705:PHE:HB3	1.62	0.62
1:L:836:VAL:O	1:L:867:ARG:NH2	2.32	0.62
1:M:300:LEU:O	1:M:303:LYS:HG2	2.00	0.62
1:M:319:THR:H	1:M:323:ARG:HH21	1.47	0.62
1:M:449:ILE:HG23	1:M:450:PRO:HD3	1.82	0.62
2:F:70:GLU:HA	2:F:73:ARG:HB2	1.82	0.62
1:Q:637:LEU:HB3	1:Q:654:ILE:HD12	1.80	0.62
1:Q:849:LEU:CD2	1:Q:855:GLN:CA	2.67	0.62
1:K:319:THR:H	1:K:323:ARG:NH1	1.98	0.62
1:H:989:SER:CB	1:H:994:HIS:C	2.73	0.61
1:J:1084:LEU:HD13	1:J:1105:LYS:HB3	1.81	0.61
1:M:923:ALA:HB3	1:M:926:LYS:HE2	1.82	0.61
2:F:52:THR:O	2:F:74:ARG:NE	2.25	0.61
1:Q:376:PRO:HG2	1:Q:470:HIS:ND1	2.15	0.61
1:Q:635:VAL:O	1:Q:635:VAL:HG12	2.00	0.61
1:Q:679:SER:HB2	1:Q:696:GLN:HE22	1.65	0.61
1:I:371:ARG:HB3	1:I:389:ILE:HG12	1.80	0.61
1:I:532:ASP:CB	1:I:533:PRO:HD3	2.24	0.61
1:K:260:CYS:HB3	1:K:262:ILE:HG23	1.82	0.61
1:K:771:PHE:N	1:K:776:LYS:O	2.31	0.61
1:H:946:ARG:NE	1:H:964:CYS:SG	2.73	0.61
1:J:1019:LYS:NZ	1:J:1053:PHE:CB	2.63	0.61
1:M:884:VAL:HB	1:M:902:ILE:HD12	1.80	0.61
1:O:149:ILE:HG13	1:O:265:THR:HA	1.82	0.61
1:O:561:LEU:HD12	1:O:564:ILE:HD11	1.82	0.61
1:O:1218:GLU:OE1	1:O:1237:ARG:NE	2.34	0.61
1:O:1232:HIS:ND1	1:O:1245:LYS:O	2.33	0.61
2:C:33:ARG:HG3	2:C:97:ILE:HD12	1.82	0.61
1:Q:36:PRO:HG2	1:Q:39:ILE:HB	1.82	0.61
1:Q:127:ARG:HD3	1:Q:130:PRO:HG2	1.82	0.61
1:K:1233:GLU:O	1:K:1234:HIS:ND1	2.33	0.61
1:H:51:SER:O	1:H:53:ASP:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:179:PHE:HB2	1:J:242:LEU:HG	1.82	0.61
1:J:270:GLN:HA	1:J:407:LYS:HZ3	1.65	0.61
1:J:442:SER:O	1:J:446:HIS:ND1	2.20	0.61
1:J:499:GLN:HB2	1:J:520:GLN:HE22	1.65	0.61
1:J:806:PHE:CD1	1:J:813:PRO:CA	2.82	0.61
1:L:927:GLN:NE2	1:L:929:VAL:HG13	2.11	0.61
1:M:154:GLY:HA2	1:M:157:LYS:HE2	1.81	0.61
1:O:132:LEU:HG	1:O:136:GLN:HE22	1.65	0.61
1:O:676:LYS:NZ	1:O:680:LEU:HB2	2.15	0.61
1:O:879:SER:HB3	1:O:882:LEU:HD11	1.80	0.61
1:Q:35:MET:HE3	1:Q:39:ILE:HG23	1.81	0.61
1:I:45:ILE:O	1:I:48:ILE:HG22	1.99	0.61
1:I:727:GLU:O	1:I:736:PHE:N	2.33	0.61
1:K:376:PRO:HG2	1:K:470:HIS:HD2	1.65	0.61
1:K:929:VAL:CG1	1:K:971:LEU:CD2	2.78	0.61
1:K:1000:ILE:O	1:K:1030:GLN:NE2	2.33	0.61
1:H:975:MET:HE1	1:H:977:MET:HE2	1.82	0.61
1:J:734:VAL:HG22	1:J:734:VAL:O	2.00	0.61
1:J:743:ILE:CB	1:J:775:LEU:HD22	2.30	0.61
1:J:743:ILE:CD1	1:J:775:LEU:HD13	2.29	0.61
1:J:866:LYS:O	1:J:875:LEU:N	2.33	0.61
1:L:1149:LEU:HD12	1:L:1180:ILE:CA	2.31	0.61
1:M:656:ARG:HB2	1:M:676:LYS:NZ	2.15	0.61
2:A:39:VAL:HG21	2:A:49:LEU:HD23	1.81	0.61
1:Q:703:LYS:O	1:Q:705:PHE:CE2	2.53	0.61
1:K:1070:VAL:HG12	1:K:1072:SER:H	1.65	0.61
1:H:38:SER:OG	1:H:75:LYS:NZ	2.33	0.61
1:J:106:TYR:CD2	1:J:176:PHE:CE2	2.70	0.61
1:J:688:ARG:NH1	1:J:688:ARG:O	2.33	0.61
1:J:707:GLY:HA2	1:J:716:ALA:HB1	1.83	0.61
1:J:979:ARG:CB	1:J:1009:ILE:HD11	2.31	0.61
1:L:26:ASN:HB2	2:B:81:GLN:HG2	1.81	0.61
1:O:849:LEU:HD11	1:O:890:SER:HB3	1.81	0.61
2:C:29:THR:OG1	2:C:72:HIS:NE2	2.33	0.61
2:E:10:MET:HE2	2:E:15:ARG:HH22	1.66	0.61
1:Q:616:LEU:HD12	1:Q:635:VAL:CG1	2.29	0.61
1:Q:675:VAL:H	1:Q:681:TRP:HD1	1.48	0.61
1:I:157:LYS:HA	1:I:160:VAL:HG22	1.83	0.61
1:I:360:LEU:HD11	1:I:366:ARG:HB3	1.81	0.61
1:I:658:ALA:HB3	1:I:676:LYS:HB3	1.82	0.61
1:I:996:ILE:HD13	1:I:996:ILE:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:218:LYS:O	1:K:222:HIS:ND1	2.33	0.61
1:J:480:HIS:CG	1:J:481:PRO:HD3	2.36	0.61
1:J:813:PRO:CG	1:J:824:LYS:HG3	2.31	0.61
1:J:934:LEU:HB2	1:J:950:TRP:CE3	2.35	0.61
1:Q:618:ASN:HA	1:Q:634:ASP:OD1	2.01	0.61
1:Q:866:LYS:N	1:Q:876:LEU:O	2.33	0.61
1:I:22:ALA:O	1:I:26:ASN:ND2	2.34	0.61
1:K:16:LEU:CD2	1:K:65:LEU:CD2	2.78	0.61
1:J:74:GLN:HB2	1:J:75:LYS:HZ2	1.66	0.61
1:J:127:ARG:HD3	1:J:160:VAL:HG11	1.81	0.61
1:J:270:GLN:N	1:J:407:LYS:O	2.33	0.61
1:J:371:ARG:NH1	1:J:436:GLU:OE2	2.32	0.61
1:J:975:MET:HA	1:J:992:ARG:HB2	1.82	0.61
1:J:1108:SER:HA	1:J:1130:ASN:HD22	1.64	0.61
1:L:966:GLU:CD	1:L:1009:ILE:HB	2.23	0.61
1:L:1224:LEU:HD22	1:L:1235:CYS:HA	1.83	0.61
1:M:870:ASP:HA	1:M:872:ARG:HE	1.65	0.61
1:O:68:LYS:HB3	1:O:72:MET:HE3	1.83	0.61
1:O:868:SER:HB2	1:O:875:LEU:HD11	1.82	0.61
2:C:95:ARG:HD3	2:C:100:LEU:HD22	1.81	0.61
1:Q:849:LEU:HD21	1:Q:855:GLN:N	2.15	0.61
1:H:107:ILE:HG23	1:H:110:ARG:HH21	1.64	0.61
1:H:868:SER:HB2	1:H:875:LEU:HG	1.82	0.61
1:J:480:HIS:CB	1:J:531:ASN:HB3	2.28	0.61
1:J:727:GLU:O	1:J:735:ALA:HB1	2.01	0.61
1:L:157:LYS:HD2	1:L:267:ARG:HH11	1.66	0.61
1:L:978:THR:HG23	1:L:986:ALA:N	2.12	0.61
1:M:563:ARG:HH12	1:M:1245:LYS:HG3	1.65	0.61
1:O:670:HIS:O	1:O:685:PRO:HB3	2.01	0.61
1:O:1218:GLU:OE2	1:O:1239:LEU:HB2	1.99	0.61
2:C:12:LYS:HA	2:C:15:ARG:HD3	1.82	0.61
1:I:641:ASP:O	1:I:650:ASP:N	2.32	0.61
1:I:725:LEU:HD11	1:I:772:VAL:CG1	2.30	0.61
1:I:1012:THR:HA	1:I:1052:GLN:HG2	1.83	0.61
1:I:1149:LEU:HG	1:I:1180:ILE:N	2.15	0.61
1:H:697:LEU:HB2	1:H:720:ASN:OD1	2.00	0.61
1:L:385:LEU:HD11	1:L:466:TYR:CD2	2.36	0.61
1:L:488:ARG:HG3	1:L:491:PHE:HB2	1.82	0.61
1:M:345:ASN:HA	1:M:348:LYS:HE2	1.83	0.61
1:O:447:TYR:HB2	1:O:478:ILE:HD13	1.82	0.61
1:O:975:MET:HB2	1:O:990:LYS:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:320:ASN:HD21	1:Q:323:ARG:HD3	1.64	0.61
1:Q:756:SER:OG	1:Q:827:THR:HG21	2.01	0.61
1:I:93:LYS:HB2	1:I:97:ARG:NH1	2.14	0.61
1:H:660:PHE:H	1:H:676:LYS:HG2	1.65	0.61
1:J:81:LEU:HD23	1:J:89:MET:HB3	1.83	0.61
1:J:266:THR:HG23	1:J:271:VAL:HB	1.83	0.61
1:J:1012:THR:CB	1:J:1053:PHE:HD2	2.11	0.61
1:L:681:TRP:HH2	1:L:705:PHE:CB	2.14	0.61
1:L:1149:LEU:CB	1:L:1180:ILE:HA	2.31	0.61
1:L:1149:LEU:HD23	1:L:1149:LEU:O	2.00	0.61
1:M:483:ARG:NH2	1:M:536:GLU:OE1	2.33	0.61
1:O:125:VAL:O	1:O:127:ARG:NH1	2.33	0.61
1:O:132:LEU:HD12	1:O:135:ARG:HD3	1.83	0.61
2:B:18:ILE:HD13	2:B:80:THR:HB	1.82	0.61
1:Q:14:ASP:HB2	1:Q:107:ILE:HG12	1.83	0.61
1:Q:628:GLY:HA2	1:Q:644:LEU:HD12	1.83	0.61
1:Q:866:LYS:HG3	1:Q:876:LEU:O	2.01	0.61
1:I:117:ASN:OD1	1:I:120:PHE:N	2.30	0.61
1:I:387:SER:HA	1:I:398:VAL:HG11	1.83	0.61
1:I:758:VAL:O	1:I:758:VAL:HG12	2.01	0.61
1:I:1107:ALA:O	1:I:1124:CYS:HA	2.01	0.61
1:H:380:HIS:ND1	1:H:421:SER:OG	2.34	0.60
1:H:1030:GLN:HA	1:H:1030:GLN:NE2	2.14	0.60
1:L:125:VAL:HG21	1:L:300:LEU:HA	1.83	0.60
1:L:706:ILE:HD11	1:L:750:ASP:HA	1.81	0.60
1:L:977:MET:HG2	1:L:1009:ILE:HG22	1.82	0.60
1:O:367:LYS:O	1:O:371:ARG:HG2	2.00	0.60
1:O:471:ILE:CG2	1:O:487:PHE:CE2	2.84	0.60
1:Q:657:MET:C	1:Q:676:LYS:HD2	2.26	0.60
1:I:484:MET:HE3	1:I:531:ASN:OD1	2.01	0.60
1:I:979:ARG:NH1	1:I:1021:ASN:O	2.34	0.60
1:K:408:TYR:O	1:K:409:SER:OG	2.15	0.60
1:J:47:HIS:HA	1:J:50:MET:HG3	1.83	0.60
1:J:664:LYS:O	1:J:672:ASN:HB2	2.01	0.60
1:J:813:PRO:CG	1:J:824:LYS:CA	2.79	0.60
1:J:1012:THR:OG1	1:J:1053:PHE:CG	2.53	0.60
1:J:1012:THR:O	1:J:1053:PHE:CE2	2.54	0.60
1:J:1047:THR:HG21	1:J:1062:LYS:CB	2.28	0.60
1:M:52:LYS:HZ3	1:M:61:LEU:N	1.99	0.60
1:M:1108:SER:OG	1:M:1129:ALA:CA	2.49	0.60
1:O:31:ASP:O	1:O:33:GLN:NE2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:808:VAL:HG22	1:Q:808:VAL:O	1.99	0.60
1:K:112:ARG:HH22	1:K:115:ASN:HD22	1.49	0.60
1:K:621:CYS:SG	1:K:632:LEU:CD2	2.88	0.60
1:H:531:ASN:ND2	1:H:535:TYR:CD2	2.69	0.60
1:H:882:LEU:HB3	1:H:903:GLU:HG2	1.84	0.60
1:J:154:GLY:O	1:J:322:ARG:HG2	2.01	0.60
1:J:1184:GLU:HA	1:J:1195:VAL:HG22	1.84	0.60
1:M:74:GLN:OE1	1:M:74:GLN:N	2.33	0.60
1:M:229:ARG:O	1:M:233:LYS:NZ	2.34	0.60
1:M:470:HIS:HB3	1:M:474:HIS:CE1	2.36	0.60
1:M:1042:ASP:OD1	1:M:1068:ILE:HD13	2.02	0.60
1:M:1104:THR:O	1:M:1104:THR:OG1	2.14	0.60
1:O:36:PRO:HB2	1:O:39:ILE:HG22	1.83	0.60
1:O:1009:ILE:HG23	1:O:1020:ILE:HG12	1.82	0.60
2:A:64:GLU:HA	2:A:67:VAL:HB	1.83	0.60
1:Q:135:ARG:NH1	1:Q:136:GLN:HB3	2.15	0.60
1:Q:219:LEU:HA	1:Q:222:HIS:CD2	2.36	0.60
1:Q:475:LEU:HD23	1:Q:478:ILE:HD11	1.83	0.60
1:I:141:LEU:O	1:I:261:LYS:NZ	2.34	0.60
1:I:934:LEU:HD22	1:I:952:HIS:HB2	1.84	0.60
1:K:442:SER:O	1:K:446:HIS:ND1	2.34	0.60
1:H:868:SER:N	1:H:873:TYR:O	2.33	0.60
1:J:1058:ILE:O	1:J:1058:ILE:HG22	2.00	0.60
1:J:1222:VAL:HG23	1:J:1223:GLN:H	1.66	0.60
1:L:808:VAL:HG22	1:L:850:GLN:O	2.02	0.60
1:O:247:VAL:HG21	1:O:264:LEU:HD12	1.82	0.60
1:O:1218:GLU:CG	1:O:1237:ARG:HG3	2.31	0.60
1:O:1220:ARG:H	1:O:1220:ARG:HD2	1.66	0.60
1:Q:828:VAL:HG12	1:Q:829:LEU:HD12	1.83	0.60
1:I:620:PHE:N	1:I:634:ASP:OD2	2.29	0.60
1:K:260:CYS:SG	1:K:261:LYS:N	2.73	0.60
1:H:126:SER:HA	1:H:131:TYR:CE2	2.37	0.60
1:H:968:ASN:O	1:H:976:ASP:HA	2.01	0.60
1:J:771:PHE:N	1:J:776:LYS:O	2.26	0.60
1:J:803:LEU:HA	1:J:846:SER:CB	2.32	0.60
1:L:183:LEU:O	1:L:248:GLN:NE2	2.34	0.60
1:L:1123:VAL:CG1	1:L:1125:HIS:ND1	2.62	0.60
1:M:154:GLY:O	1:M:322:ARG:NE	2.35	0.60
1:I:326:ILE:HD13	1:I:349:LEU:HB3	1.84	0.60
1:K:948:ILE:HB	1:K:957:ILE:HB	1.81	0.60
1:H:371:ARG:HH22	1:H:441:ARG:HD3	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:532:ASP:OD1	1:J:535:TYR:HD2	1.84	0.60
1:J:620:PHE:HD1	1:J:887:LEU:HD11	1.53	0.60
1:L:629:GLN:HA	1:L:643:TYR:HA	1.84	0.60
1:O:275:LEU:HD12	1:O:280:THR:HG21	1.83	0.60
1:Q:644:LEU:CD2	1:Q:897:ASN:ND2	2.61	0.60
1:Q:849:LEU:HD22	1:Q:856:LEU:HG	1.84	0.60
1:K:849:LEU:HD21	1:K:856:LEU:HG	1.82	0.60
1:H:476:LYS:NZ	1:H:530:ASP:OD1	2.33	0.60
1:H:630:ILE:CG2	1:H:632:LEU:HD21	2.29	0.60
1:J:616:LEU:O	1:J:617:HIS:ND1	2.34	0.60
1:J:1154:LEU:HD21	1:J:1166:PHE:HZ	1.65	0.60
1:M:148:LEU:HG	1:M:264:LEU:HD21	1.84	0.60
1:M:1062:LYS:HB2	1:M:1066:PRO:HD2	1.84	0.60
1:Q:368:MET:HE1	1:Q:389:ILE:HG23	1.84	0.60
1:I:150:ASP:O	1:I:157:LYS:HD3	2.01	0.60
1:I:970:TYR:CE2	1:I:991:GLU:HG3	2.36	0.60
1:K:298:LYS:HA	1:K:301:LEU:HG	1.83	0.60
1:H:484:MET:HE1	1:H:490:VAL:CG2	2.32	0.60
1:H:630:ILE:HD11	1:H:644:LEU:HD23	1.83	0.60
1:J:979:ARG:CG	1:J:1009:ILE:CD1	2.79	0.60
1:J:1180:ILE:O	1:J:1220:ARG:NH2	2.35	0.60
1:L:683:ASP:H	1:L:692:GLY:H	1.49	0.60
1:O:109:GLN:HG2	1:O:176:PHE:HB3	1.84	0.60
1:O:656:ARG:NH1	1:O:678:TRP:CZ3	2.57	0.60
2:D:18:ILE:HG21	2:D:80:THR:HB	1.83	0.60
2:F:17:HIS:CE1	2:F:106:LEU:HD12	2.37	0.60
1:Q:1185:ILE:O	1:Q:1193:TYR:HA	2.02	0.60
1:K:543:LEU:HA	1:K:546:LEU:HD12	1.83	0.60
1:K:683:ASP:O	1:K:692:GLY:N	2.28	0.60
1:H:294:PRO:HA	1:H:297:VAL:HG22	1.84	0.60
1:H:305:LEU:HD11	1:H:331:ILE:HG22	1.84	0.60
1:H:928:VAL:HB	1:H:1234:HIS:NE2	2.16	0.60
1:J:486:LEU:C	1:J:488:ARG:H	2.10	0.60
1:L:424:SER:O	1:L:427:LEU:N	2.34	0.60
1:M:1226:TYR:HD1	1:M:1233:GLU:HG2	1.67	0.60
1:I:704:ARG:NH1	1:I:750:ASP:OD2	2.35	0.60
1:I:1108:SER:N	1:I:1130:ASN:HD21	2.00	0.60
1:H:480:HIS:CB	1:H:530:ASP:O	2.47	0.60
1:J:138:LEU:O	1:J:173:LYS:NZ	2.31	0.60
1:J:762:LYS:CB	1:J:764:MET:HE1	2.31	0.60
1:J:814:LEU:HB2	1:J:855:GLN:HE22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:757:HIS:ND1	1:L:772:VAL:N	2.50	0.60
1:L:930:HIS:HE1	1:L:1234:HIS:NE2	1.99	0.60
1:M:803:LEU:HB2	1:M:816:LEU:HB2	1.84	0.60
1:M:1234:HIS:CE1	1:M:1246:LEU:HD21	2.37	0.60
1:O:129:GLN:HG2	1:O:133:LYS:HZ3	1.65	0.60
1:O:153:LEU:HB2	1:O:267:ARG:HE	1.67	0.60
1:O:320:ASN:OD1	1:O:323:ARG:NE	2.30	0.60
1:Q:673:GLY:O	1:Q:681:TRP:NE1	2.35	0.60
1:I:924:LYS:HB3	1:I:1222:VAL:HG11	1.84	0.60
1:H:681:TRP:HA	1:H:681:TRP:HE3	1.65	0.59
1:H:732:LEU:HG	1:H:734:VAL:H	1.66	0.59
1:H:820:ASP:H	1:H:836:VAL:HG11	1.67	0.59
1:H:1010:THR:OG1	1:H:1011:PRO:HD2	2.01	0.59
1:J:757:HIS:CE1	1:J:778:TYR:CZ	2.90	0.59
1:L:964:CYS:SG	1:L:980:GLU:HG3	2.41	0.59
1:M:16:LEU:HD11	1:M:65:LEU:HD11	1.82	0.59
1:M:866:LYS:HZ3	1:M:876:LEU:HB2	1.66	0.59
1:O:633:THR:HB	1:O:660:PHE:HD2	1.66	0.59
1:Q:630:ILE:HD11	1:Q:644:LEU:CD2	2.31	0.59
1:Q:685:PRO:HB2	1:Q:688:ARG:HB2	1.84	0.59
1:I:336:ALA:N	1:I:340:ASN:OD1	2.35	0.59
1:I:620:PHE:CD2	1:I:887:LEU:HD11	2.36	0.59
1:I:768:ILE:HD11	1:I:777:ARG:HB3	1.83	0.59
1:I:946:ARG:NH2	1:I:964:CYS:SG	2.75	0.59
1:K:716:ALA:O	1:K:727:GLU:HA	2.02	0.59
1:H:532:ASP:OD1	1:H:535:TYR:CB	2.50	0.59
1:H:714:ILE:HG22	1:H:730:ILE:HD12	1.84	0.59
1:H:902:ILE:O	1:H:902:ILE:HG22	2.02	0.59
1:H:1019:LYS:CA	1:H:1029:GLU:CB	2.79	0.59
1:J:484:MET:SD	1:J:490:VAL:HG23	2.42	0.59
1:J:876:LEU:HD13	1:J:914:VAL:HG12	1.84	0.59
1:J:926:LYS:HB2	1:J:1236:ILE:HD12	1.84	0.59
1:L:708:SER:H	1:L:716:ALA:HA	1.67	0.59
1:M:627:SER:C	1:M:644:LEU:CD1	2.75	0.59
1:O:706:ILE:HD13	1:O:750:ASP:HB2	1.83	0.59
2:G:79:ILE:HA	2:G:82:ARG:NH2	2.18	0.59
1:Q:849:LEU:HD21	1:Q:854:VAL:O	2.02	0.59
1:Q:980:GLU:HB2	1:Q:984:LEU:N	2.17	0.59
1:I:186:CYS:HB2	1:I:195:MET:HE1	1.83	0.59
1:I:901:HIS:HB2	1:I:903:GLU:HG3	1.85	0.59
1:K:151:GLY:HA3	1:K:285:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1068:ILE:CG2	1:K:1080:VAL:HA	2.13	0.59
1:J:685:PRO:HD3	1:J:690:SER:O	2.02	0.59
1:L:72:MET:N	1:L:72:MET:SD	2.72	0.59
1:L:1066:PRO:O	1:L:1068:ILE:N	2.35	0.59
1:M:156:GLY:HA2	1:M:159:TRP:CD1	2.37	0.59
1:M:919:VAL:HG22	1:M:1243:PRO:HG2	1.84	0.59
1:O:242:LEU:HB2	1:O:262:ILE:HG22	1.83	0.59
1:Q:926:LYS:HG2	1:Q:939:GLY:HA3	1.84	0.59
1:I:336:ALA:HB3	1:I:339:ASP:HB3	1.84	0.59
1:I:704:ARG:HH12	1:I:804:HIS:HB2	1.67	0.59
1:K:16:LEU:HD23	1:K:65:LEU:HD22	1.85	0.59
1:K:72:MET:O	1:K:72:MET:HE3	2.02	0.59
1:K:101:MET:HE2	1:K:101:MET:HA	1.85	0.59
1:K:483:ARG:HD3	1:K:530:ASP:C	2.27	0.59
1:K:1136:LYS:HE2	1:K:1143:TYR:CE1	2.37	0.59
1:H:977:MET:CG	1:H:1009:ILE:CD1	2.80	0.59
1:J:317:LEU:HD21	1:J:327:ILE:HD12	1.84	0.59
1:J:979:ARG:HG3	1:J:979:ARG:O	2.02	0.59
1:L:888:LYS:HE2	1:L:899:SER:HB3	1.83	0.59
1:L:1024:SER:CB	1:L:1026:PHE:CD2	2.85	0.59
1:M:934:LEU:HB3	1:M:950:TRP:HB3	1.85	0.59
1:O:1065:SER:HB2	1:O:1083:GLN:H	1.68	0.59
2:E:58:LYS:HG3	2:E:62:MET:HE1	1.83	0.59
1:Q:533:PRO:HA	1:Q:536:GLU:HB2	1.85	0.59
1:Q:781:VAL:HG11	1:Q:824:LYS:HE3	1.83	0.59
1:Q:878:THR:HG23	1:Q:889:ILE:CG2	2.31	0.59
1:Q:882:LEU:HD23	1:Q:919:VAL:HG21	1.85	0.59
1:K:1060:TYR:HD2	1:K:1070:VAL:HG23	1.68	0.59
1:H:975:MET:HG2	1:H:993:ILE:CG2	2.17	0.59
1:J:125:VAL:HG21	1:J:300:LEU:HA	1.84	0.59
1:J:760:VAL:HG11	1:J:762:LYS:HE2	1.83	0.59
1:L:750:ASP:HB3	1:L:806:PHE:CZ	2.36	0.59
1:L:1064:VAL:HG13	1:L:1085:GLU:HA	1.84	0.59
1:M:1090:LEU:O	1:M:1103:SER:CA	2.48	0.59
1:Q:803:LEU:HB2	1:Q:816:LEU:HD12	1.84	0.59
1:Q:1080:VAL:HG22	1:Q:1082:PHE:H	1.68	0.59
1:K:425:ILE:HD12	1:K:429:LEU:HD22	1.84	0.59
1:H:12:TYR:N	1:H:70:GLU:OE2	2.31	0.59
1:H:110:ARG:HG3	1:H:166:LEU:HD12	1.84	0.59
1:H:683:ASP:H	1:H:694:LYS:NZ	2.00	0.59
1:H:761:LEU:HD12	1:H:804:HIS:CG	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:822:ARG:HD2	1:H:837:TRP:CD2	2.38	0.59
1:H:935:ARG:HH21	1:H:937:VAL:HG21	1.67	0.59
1:H:955:ASP:HB3	1:H:959:VAL:HG21	1.84	0.59
1:J:11:GLN:HG3	1:J:14:ASP:H	1.67	0.59
1:M:20:GLU:HB3	1:M:62:PHE:CE2	2.38	0.59
1:O:336:ALA:N	1:O:340:ASN:OD1	2.35	0.59
1:O:382:PRO:HD2	1:O:385:LEU:HD12	1.84	0.59
2:A:10:MET:HG2	2:A:11:PRO:HD2	1.84	0.59
1:Q:988:ASP:HB3	1:Q:992:ARG:HD2	1.84	0.59
1:I:354:GLU:OE2	1:I:358:ASN:ND2	2.35	0.59
1:I:405:LEU:HB3	1:I:410:LEU:CG	2.33	0.59
1:K:21:ASP:OD1	1:K:22:ALA:N	2.36	0.59
1:K:856:LEU:HD13	1:K:888:LYS:HB3	1.84	0.59
1:K:929:VAL:O	1:K:929:VAL:HG12	2.03	0.59
1:H:680:LEU:HD22	1:H:696:GLN:HB3	1.85	0.59
1:J:475:LEU:HD21	1:J:486:LEU:HG	1.84	0.59
1:J:489:MET:HE1	1:J:530:ASP:OD2	2.02	0.59
1:L:101:MET:O	1:L:105:MET:HE1	2.00	0.59
1:L:725:LEU:HB2	1:L:739:GLY:H	1.68	0.59
1:L:752:GLU:O	1:L:756:SER:N	2.35	0.59
1:M:186:CYS:SG	1:M:195:MET:HE1	2.43	0.59
2:E:70:GLU:OE1	2:E:73:ARG:NE	2.24	0.59
2:G:46:VAL:HG11	1:Q:80:VAL:HG12	1.85	0.59
1:Q:624:ALA:HB3	1:Q:629:GLN:H	1.67	0.59
1:I:684:CYS:CB	1:I:691:GLY:HA3	2.31	0.59
1:I:815:ALA:O	1:I:822:ARG:N	2.36	0.59
1:I:1218:GLU:HB2	1:I:1237:ARG:HD3	1.83	0.59
1:H:59:LEU:HB3	1:H:63:TRP:CZ2	2.38	0.59
1:H:682:PRO:CA	1:H:694:LYS:HD3	2.22	0.59
1:H:1019:LYS:HA	1:H:1029:GLU:CA	2.33	0.59
1:J:666:LEU:HD21	1:J:730:ILE:HD11	1.84	0.59
1:J:674:SER:O	1:J:682:PRO:CG	2.50	0.59
1:J:769:ARG:HH12	1:J:824:LYS:HD3	1.68	0.59
1:L:707:GLY:HA2	1:L:716:ALA:HB1	1.85	0.59
1:L:941:ASN:H	1:L:946:ARG:HB3	1.68	0.59
2:A:95:ARG:NH2	2:A:103:ALA:HB3	2.17	0.59
1:K:851:SER:OG	1:K:894:LEU:HD12	2.02	0.59
1:K:852:GLU:CD	1:K:853:ALA:H	2.11	0.59
1:H:656:ARG:NH1	1:H:680:LEU:CD1	2.58	0.59
1:J:142:ARG:HB2	1:J:145:LYS:HB2	1.85	0.59
1:J:488:ARG:NH1	1:J:491:PHE:CE2	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:171:GLN:HB3	1:L:176:PHE:CD1	2.38	0.59
1:L:218:LYS:O	1:L:221:ILE:HG22	2.03	0.59
1:L:665:HIS:NE2	1:L:669:LEU:HA	2.18	0.59
1:M:656:ARG:HD2	1:M:678:TRP:CE3	2.38	0.59
1:M:1223:GLN:O	1:M:1235:CYS:HA	2.03	0.59
1:O:492:LEU:HD13	1:O:573:ILE:HD11	1.85	0.59
1:O:1007:SER:HB2	1:O:1048:ALA:O	2.03	0.59
1:O:1233:GLU:H	1:O:1245:LYS:HG3	1.68	0.59
2:A:17:HIS:HE1	2:A:106:LEU:HA	1.68	0.59
2:A:52:THR:HG22	2:A:75:LEU:HD22	1.84	0.59
2:B:13:ARG:NH1	2:B:110:ASP:OD1	2.35	0.59
2:D:22:LEU:HD13	2:D:76:LEU:HD22	1.84	0.59
1:Q:450:PRO:HA	1:Q:453:PHE:HB2	1.84	0.59
1:Q:680:LEU:HD23	1:Q:695:GLN:O	2.02	0.59
1:I:803:LEU:HD13	1:I:816:LEU:HD12	1.84	0.59
1:K:48:ILE:HA	1:K:60:ARG:HD2	1.83	0.59
1:K:174:MET:HE2	1:K:177:LYS:O	2.03	0.59
1:K:449:ILE:HG22	1:K:450:PRO:HD3	1.82	0.59
1:J:704:ARG:HD3	1:J:706:ILE:HD11	1.83	0.59
1:L:179:PHE:HB2	1:L:242:LEU:HD13	1.84	0.59
1:L:681:TRP:HB3	1:L:694:LYS:HD2	1.85	0.59
1:L:1067:ASN:CA	1:L:1105:LYS:HB2	2.29	0.59
1:M:920:LEU:HD23	1:M:1243:PRO:HD2	1.85	0.59
1:O:633:THR:HB	1:O:660:PHE:CD2	2.38	0.59
2:D:13:ARG:NH2	2:D:110:ASP:OD1	2.36	0.59
2:D:64:GLU:HA	2:D:67:VAL:HB	1.85	0.59
2:F:82:ARG:HB3	2:F:86:ALA:HB2	1.85	0.59
1:Q:644:LEU:CD2	1:Q:897:ASN:CG	2.76	0.59
1:Q:970:TYR:HB3	1:Q:976:ASP:OD1	2.03	0.59
1:I:823:SER:O	1:I:832:PHE:N	2.36	0.59
1:I:946:ARG:HH11	1:I:978:THR:HG22	1.68	0.59
1:K:99:PRO:O	1:K:104:ARG:NH2	2.36	0.59
1:K:880:GLU:HB3	1:K:907:ILE:HB	1.84	0.59
1:K:1151:ASN:CB	1:K:1166:PHE:CZ	2.85	0.59
1:H:297:VAL:HG11	1:H:318:THR:HG23	1.83	0.58
1:J:781:VAL:O	1:J:781:VAL:HG12	2.01	0.58
1:L:502:ARG:NH1	1:L:503:HIS:O	2.36	0.58
1:L:811:ASP:O	1:L:826:ALA:N	2.24	0.58
1:M:28:ASP:OD2	1:M:31:ASP:CB	2.51	0.58
1:M:765:GLN:NE2	1:M:787:THR:O	2.36	0.58
1:M:771:PHE:N	1:M:776:LYS:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:117:ASN:OD1	1:O:120:PHE:N	2.36	0.58
1:O:360:LEU:HB2	1:O:365:TYR:HD2	1.68	0.58
2:N:26:VAL:HG23	2:N:72:HIS:HB3	1.84	0.58
2:N:86:ALA:O	2:N:90:LEU:N	2.29	0.58
2:E:22:LEU:HD21	2:E:73:ARG:HB2	1.85	0.58
1:Q:1070:VAL:HG22	1:Q:1072:SER:H	1.66	0.58
1:Q:1196:ALA:HB1	1:Q:1221:LYS:HE2	1.83	0.58
1:I:666:LEU:HD12	1:I:670:HIS:HB2	1.85	0.58
1:I:754:LYS:HB3	1:I:757:HIS:HD2	1.68	0.58
1:K:516:ASN:ND2	1:K:612:HIS:HE1	2.00	0.58
1:K:719:LEU:HD13	1:K:749:GLN:HB2	1.84	0.58
1:K:930:HIS:CE1	1:K:1227:SER:HA	2.38	0.58
1:J:117:ASN:OD1	1:J:120:PHE:N	2.36	0.58
1:J:194:GLU:OE1	1:J:194:GLU:N	2.37	0.58
1:J:762:LYS:HB2	1:J:764:MET:HE1	1.85	0.58
1:J:813:PRO:HG3	1:J:824:LYS:CG	2.33	0.58
1:J:986:ALA:HA	1:J:998:PRO:HA	1.85	0.58
1:J:1192:SER:HB2	1:J:1202:MET:HE3	1.85	0.58
1:L:852:GLU:O	1:L:869:THR:OG1	2.21	0.58
1:L:1128:ILE:HD12	1:L:1129:ALA:H	1.68	0.58
1:M:86:LYS:HA	1:M:89:MET:HE3	1.83	0.58
1:M:94:THR:O	1:M:98:GLN:HG2	2.03	0.58
1:O:457:ASP:HB3	1:O:583:ARG:NE	2.17	0.58
2:D:17:HIS:HB2	2:D:109:VAL:HG21	1.84	0.58
1:Q:966:GLU:OE1	1:Q:1007:SER:O	2.20	0.58
1:I:99:PRO:O	1:I:104:ARG:NE	2.36	0.58
1:I:130:PRO:HG3	1:I:290:MET:HA	1.85	0.58
1:I:406:HIS:HB2	1:I:411:VAL:HG13	1.85	0.58
1:K:135:ARG:NH2	1:K:136:GLN:OE1	2.36	0.58
1:K:855:GLN:HE22	1:K:869:THR:HG23	1.68	0.58
1:K:1013:HIS:ND1	1:K:1052:GLN:HG2	2.17	0.58
1:K:1060:TYR:CD2	1:K:1070:VAL:CG2	2.85	0.58
1:H:93:LYS:HD3	1:H:97:ARG:HH22	1.67	0.58
1:H:1145:VAL:HG22	1:H:1151:ASN:HB3	1.84	0.58
1:J:674:SER:O	1:J:682:PRO:HD3	2.03	0.58
1:L:276:SER:OG	1:M:118:GLN:O	2.20	0.58
1:M:269:LYS:HD2	1:M:406:HIS:O	2.02	0.58
1:M:275:LEU:O	1:O:122:LYS:NZ	2.28	0.58
1:M:361:GLU:O	1:M:365:TYR:HB2	2.03	0.58
1:M:769:ARG:NH2	1:M:825:THR:O	2.36	0.58
1:M:967:PRO:HA	1:M:978:THR:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:90:LEU:HD22	2:A:106:LEU:HD22	1.84	0.58
2:C:52:THR:HG23	2:C:78:LYS:HZ1	1.68	0.58
2:D:95:ARG:NH2	2:D:107:GLU:OE1	2.37	0.58
1:I:835:SER:HB2	1:I:867:ARG:HH11	1.68	0.58
1:I:1084:LEU:HD21	1:I:1108:SER:OG	2.03	0.58
1:I:1199:ASP:HA	1:I:1216:ALA:HB3	1.85	0.58
1:K:382:PRO:HG3	1:K:463:LEU:HD13	1.85	0.58
1:J:719:LEU:HD12	1:J:720:ASN:H	1.67	0.58
1:J:757:HIS:NE2	1:J:778:TYR:CZ	2.71	0.58
1:L:177:LYS:HG3	1:L:240:CYS:HA	1.84	0.58
1:L:385:LEU:HD11	1:L:466:TYR:CE2	2.35	0.58
1:L:1048:ALA:HB2	1:L:1063:GLN:HG3	1.84	0.58
1:L:1084:LEU:O	1:L:1107:ALA:CB	2.50	0.58
1:M:154:GLY:H	1:M:157:LYS:NZ	2.01	0.58
1:O:108:GLU:O	1:O:112:ARG:HG2	2.03	0.58
1:O:475:LEU:CD1	1:O:487:PHE:HE1	2.14	0.58
1:O:625:LEU:HA	1:O:892:PRO:HG2	1.85	0.58
2:N:22:LEU:HG	2:N:76:LEU:HD22	1.84	0.58
2:B:87:TYR:O	2:B:90:LEU:HB2	2.03	0.58
1:Q:813:PRO:O	1:Q:824:LYS:N	2.35	0.58
1:H:521:LEU:HD13	1:H:546:LEU:HD23	1.85	0.58
1:H:929:VAL:CG1	1:H:936:SER:OG	2.51	0.58
1:H:995:LEU:HD13	1:H:995:LEU:C	2.29	0.58
1:J:94:THR:HG22	1:J:98:GLN:HG2	1.84	0.58
1:J:457:ASP:HB3	1:J:583:ARG:HE	1.68	0.58
1:J:480:HIS:HB2	1:J:531:ASN:HD22	1.68	0.58
1:J:1019:LYS:HE3	1:J:1053:PHE:HB3	1.86	0.58
1:L:64:THR:O	1:L:67:SER:OG	2.20	0.58
1:L:783:THR:HG21	1:L:822:ARG:NE	2.18	0.58
1:M:244:LEU:H	1:M:264:LEU:HA	1.67	0.58
1:M:1106:TYR:CG	1:M:1110:GLN:NE2	2.72	0.58
1:O:129:GLN:NE2	1:O:290:MET:SD	2.72	0.58
1:O:480:HIS:HB2	1:O:483:ARG:HH22	1.68	0.58
1:O:988:ASP:HA	1:O:992:ARG:HD2	1.84	0.58
2:B:33:ARG:HG3	2:B:97:ILE:HD12	1.85	0.58
1:Q:862:ILE:HD12	1:Q:862:ILE:O	2.03	0.58
1:I:214:SER:HA	1:I:220:ARG:HH12	1.68	0.58
1:H:833:LYS:HZ2	1:H:869:THR:HG22	1.68	0.58
1:H:882:LEU:HD13	1:H:903:GLU:HG2	1.86	0.58
1:J:830:LEU:H	1:J:830:LEU:CD2	2.02	0.58
1:J:901:HIS:HB2	1:J:903:GLU:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1059:ASP:HB2	1:J:1067:ASN:HB2	1.84	0.58
1:L:200:LEU:HD21	1:L:207:TRP:HB2	1.84	0.58
1:L:336:ALA:N	1:L:340:ASN:OD1	2.36	0.58
1:L:1047:THR:O	1:L:1047:THR:HG23	2.04	0.58
1:M:924:LYS:HD2	1:M:1238:GLN:HA	1.84	0.58
1:O:535:TYR:O	1:O:539:VAL:HG22	2.04	0.58
1:O:1071:ALA:HB3	1:O:1076:ALA:HB3	1.85	0.58
2:N:33:ARG:HG3	2:N:97:ILE:HD12	1.86	0.58
1:Q:746:TRP:HE3	1:Q:760:VAL:HG11	1.69	0.58
1:I:74:GLN:HA	1:I:77:VAL:HG22	1.85	0.58
1:I:924:LYS:HA	1:I:1236:ILE:HG21	1.85	0.58
1:K:153:LEU:HB2	1:K:267:ARG:CZ	2.33	0.58
1:K:284:SER:OG	1:K:286:ASP:OD1	2.21	0.58
1:J:498:GLU:HG3	1:J:520:GLN:HE21	1.68	0.58
1:L:628:GLY:H	1:L:644:LEU:HD12	1.67	0.58
1:L:1150:LYS:HB3	1:L:1166:PHE:CE1	2.39	0.58
1:M:178:ILE:HA	1:M:241:LEU:HB3	1.84	0.58
1:O:532:ASP:OD1	1:O:533:PRO:CD	2.52	0.58
1:O:534:LYS:O	1:O:538:LEU:HB2	2.04	0.58
1:I:69:GLN:HG3	1:I:72:MET:HB2	1.85	0.58
1:I:337:THR:O	1:I:341:TRP:HB2	2.03	0.58
1:I:411:VAL:HG23	1:I:422:ILE:HD13	1.85	0.58
1:K:968:ASN:HB3	1:K:1010:THR:HB	1.84	0.58
1:H:631:LEU:HG	1:H:665:HIS:CE1	2.38	0.58
1:J:149:ILE:HG13	1:J:265:THR:HA	1.84	0.58
1:J:642:THR:HB	1:J:647:ASP:HA	1.86	0.58
1:J:806:PHE:HD1	1:J:813:PRO:HA	1.67	0.58
1:J:978:THR:CG2	1:J:986:ALA:HB3	2.20	0.58
1:L:151:GLY:HA3	1:L:285:LEU:HB2	1.83	0.58
1:L:156:GLY:HA2	1:L:159:TRP:CD1	2.39	0.58
1:L:249:ASN:HD21	1:L:251:LYS:HE3	1.69	0.58
1:L:611:ARG:HH12	1:L:630:ILE:HB	1.68	0.58
1:L:687:ARG:O	1:L:687:ARG:HG2	2.03	0.58
1:O:120:PHE:HZ	1:O:163:ASP:HB2	1.68	0.58
1:O:475:LEU:HB2	1:O:487:PHE:HE1	1.69	0.58
1:O:640:GLU:OE1	1:O:642:THR:HG23	2.04	0.58
1:O:986:ALA:HA	1:O:998:PRO:HA	1.85	0.58
2:D:94:LEU:O	2:D:98:ASN:N	2.37	0.58
1:Q:646:ARG:HB3	1:Q:648:GLU:HG3	1.85	0.58
1:I:938:SER:C	1:I:967:PRO:HG2	2.29	0.58
1:I:1029:GLU:HB3	1:I:1038:GLY:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:484:MET:HE3	1:H:490:VAL:HG21	1.86	0.58
1:H:672:ASN:HD21	1:H:684:CYS:HB2	1.69	0.58
1:H:680:LEU:HD13	1:H:696:GLN:HG3	1.86	0.58
1:H:879:SER:HB2	1:H:888:LYS:HE2	1.86	0.58
1:H:1134:PHE:CD2	1:H:1184:GLU:HG3	2.39	0.58
1:H:1150:LYS:HG2	1:H:1166:PHE:CZ	2.38	0.58
1:J:497:LEU:O	1:J:501:ILE:HB	2.04	0.58
1:J:946:ARG:HD2	1:J:977:MET:CB	2.33	0.58
1:J:979:ARG:HB2	1:J:1009:ILE:HD13	1.86	0.58
1:J:1050:PRO:O	1:J:1091:GLN:NE2	2.36	0.58
1:L:247:VAL:HG21	1:L:264:LEU:HD23	1.85	0.58
1:L:463:LEU:H	1:L:467:PHE:HB2	1.68	0.58
1:L:760:VAL:O	1:L:768:ILE:N	2.37	0.58
1:M:371:ARG:HB3	1:M:389:ILE:HG12	1.84	0.58
1:M:746:TRP:N	1:M:763:THR:H	2.01	0.58
1:O:93:LYS:HA	1:O:96:GLN:HE22	1.69	0.58
1:O:124:ASN:O	1:O:303:LYS:NZ	2.37	0.58
1:Q:663:GLN:CB	1:Q:674:SER:HB2	2.33	0.58
1:I:82:ARG:O	1:I:86:LYS:NZ	2.22	0.58
1:I:458:LEU:HD13	1:I:491:PHE:HB3	1.86	0.58
1:I:888:LYS:HA	1:I:898:VAL:O	2.03	0.58
1:I:941:ASN:HD21	1:I:947:GLU:HG3	1.69	0.58
1:H:365:TYR:HE1	1:H:404:LYS:HE3	1.68	0.58
1:H:619:ASP:O	1:H:901:HIS:CD2	2.56	0.58
1:H:850:GLN:HB3	1:H:892:PRO:HA	1.86	0.58
1:L:414:GLN:HE21	1:L:419:THR:HG23	1.68	0.58
1:O:457:ASP:HB3	1:O:583:ARG:HE	1.69	0.58
1:O:1056:GLU:OE1	1:O:1072:SER:OG	2.22	0.58
2:B:91:ILE:O	2:B:95:ARG:HD3	2.04	0.58
2:E:82:ARG:HH22	1:I:86:LYS:HE2	1.69	0.58
1:Q:144:ALA:O	1:I:112:ARG:NH2	2.36	0.58
1:I:720:ASN:HD21	1:I:722:ASP:HB2	1.69	0.58
1:I:761:LEU:HD11	1:I:815:ALA:HB1	1.85	0.58
1:I:1102:VAL:HG11	1:I:1109:LEU:HD23	1.81	0.58
1:K:219:LEU:HD23	1:K:220:ARG:HH11	1.68	0.58
1:K:1049:LEU:CA	1:K:1061:LEU:HD12	2.33	0.58
1:H:672:ASN:ND2	1:H:684:CYS:HB2	2.19	0.57
1:L:658:ALA:HB1	1:L:677:LEU:HG	1.86	0.57
1:L:880:GLU:OE2	1:L:901:HIS:NE2	2.33	0.57
1:O:823:SER:H	1:O:835:SER:HB2	1.69	0.57
2:N:95:ARG:HH11	2:N:100:LEU:HD22	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:809:GLU:C	1:Q:811:ASP:H	2.10	0.57
1:Q:837:TRP:HH2	1:Q:841:PHE:HB2	1.69	0.57
1:I:716:ALA:O	1:I:727:GLU:HA	2.04	0.57
1:K:125:VAL:HG23	1:K:300:LEU:HD13	1.86	0.57
1:H:785:ASN:CB	1:H:836:VAL:CG2	2.82	0.57
1:H:985:LEU:HD21	1:H:1007:SER:N	2.19	0.57
1:J:39:ILE:HG13	1:J:40:LEU:HD23	1.86	0.57
1:J:479:GLU:HG3	1:J:481:PRO:HD2	1.87	0.57
1:J:679:SER:HA	1:J:702:VAL:CG2	2.32	0.57
1:J:1233:GLU:O	1:J:1234:HIS:ND1	2.37	0.57
1:L:87:PHE:HB2	1:L:88:LEU:HD12	1.86	0.57
1:L:154:GLY:O	1:L:322:ARG:HG2	2.03	0.57
1:L:155:SER:H	1:L:157:LYS:NZ	2.02	0.57
1:L:867:ARG:HE	1:L:874:LEU:HG	1.68	0.57
1:O:218:LYS:HA	1:O:221:ILE:HG22	1.86	0.57
1:O:350:THR:HA	1:O:353:ILE:HG12	1.87	0.57
1:O:485:THR:O	1:O:488:ARG:NH1	2.36	0.57
1:O:867:ARG:HA	1:O:875:LEU:H	1.69	0.57
2:A:91:ILE:HG23	2:A:103:ALA:HB1	1.85	0.57
1:Q:382:PRO:HG3	1:Q:463:LEU:HD22	1.86	0.57
1:Q:616:LEU:CD1	1:Q:635:VAL:HG12	2.33	0.57
1:I:247:VAL:HG21	1:I:264:LEU:HD12	1.86	0.57
1:I:868:SER:N	1:I:873:TYR:O	2.37	0.57
1:H:200:LEU:HD11	1:H:207:TRP:CD2	2.40	0.57
1:H:371:ARG:NH1	1:H:441:ARG:HH11	2.00	0.57
1:H:539:VAL:HA	1:H:542:ILE:HG12	1.87	0.57
1:H:1226:TYR:CE1	1:H:1233:GLU:HA	2.39	0.57
1:L:43:GLU:O	1:L:46:ASP:HB2	2.04	0.57
1:L:761:LEU:HD23	1:L:804:HIS:CE1	2.38	0.57
1:O:637:LEU:HD11	1:O:658:ALA:CA	2.33	0.57
1:Q:405:LEU:HD11	1:Q:410:LEU:HD22	1.86	0.57
1:Q:1065:SER:HA	1:Q:1084:LEU:HD22	1.85	0.57
1:I:115:ASN:OD1	1:I:118:GLN:NE2	2.37	0.57
1:K:1066:PRO:CB	1:K:1081:ILE:O	2.50	0.57
1:L:39:ILE:HD11	1:L:76:PHE:HB2	1.86	0.57
1:L:918:ILE:HG22	1:L:919:VAL:H	1.69	0.57
1:O:148:LEU:HG	1:O:264:LEU:HD21	1.85	0.57
1:Q:230:ARG:HE	1:I:201:TYR:HE1	1.50	0.57
1:Q:663:GLN:HG3	1:Q:674:SER:HB3	1.86	0.57
1:Q:887:LEU:HD12	1:Q:909:GLU:CD	2.27	0.57
1:H:660:PHE:C	1:H:676:LYS:HB2	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:706:ILE:O	1:J:706:ILE:HG22	2.04	0.57
1:J:1084:LEU:HB3	1:J:1105:LYS:HD2	1.87	0.57
1:L:155:SER:H	1:L:157:LYS:HZ2	1.51	0.57
1:M:405:LEU:HD11	1:M:410:LEU:HD22	1.85	0.57
1:M:518:LEU:HD12	1:M:521:LEU:HD23	1.87	0.57
1:M:646:ARG:HH12	1:M:648:GLU:HG3	1.69	0.57
1:M:1196:ALA:HB3	1:M:1224:LEU:HD22	1.85	0.57
1:O:762:LYS:HB3	1:O:764:MET:SD	2.44	0.57
1:I:1129:ALA:HB1	1:I:1147:PHE:H	1.70	0.57
1:H:268:PHE:HB3	1:H:408:TYR:O	2.03	0.57
1:H:532:ASP:O	1:H:536:GLU:HG2	2.03	0.57
1:H:748:GLU:HB3	1:H:804:HIS:NE2	2.19	0.57
1:H:762:LYS:HD2	1:H:764:MET:HE2	1.85	0.57
1:H:1201:THR:O	1:H:1202:MET:HE2	2.04	0.57
1:J:379:ALA:HB1	1:J:470:HIS:CE1	2.39	0.57
1:J:765:GLN:O	1:J:783:THR:N	2.36	0.57
1:J:1113:GLN:NE2	1:J:1120:ASP:OD2	2.23	0.57
1:L:889:ILE:H	1:L:898:VAL:HB	1.69	0.57
1:O:969:VAL:HG12	1:O:971:LEU:H	1.69	0.57
1:K:89:MET:HA	1:K:92:ILE:HD12	1.86	0.57
1:K:1027:ASN:HD21	1:K:1047:THR:HG21	1.68	0.57
1:J:476:LYS:HD3	1:J:527:TYR:CD1	2.39	0.57
1:J:814:LEU:HD23	1:J:823:SER:CA	2.34	0.57
1:J:968:ASN:HD21	1:J:1009:ILE:HD12	1.69	0.57
1:L:966:GLU:HB2	1:L:979:ARG:HB3	1.87	0.57
1:M:234:SER:HB2	1:M:237:TYR:HD2	1.68	0.57
1:M:1108:SER:OG	1:M:1126:LEU:HG	2.05	0.57
1:O:48:ILE:HG12	1:O:60:ARG:HB3	1.85	0.57
1:O:1149:LEU:HD21	1:O:1220:ARG:CZ	2.35	0.57
1:Q:35:MET:HE1	1:Q:40:LEU:HB3	1.87	0.57
1:Q:878:THR:HA	1:Q:889:ILE:HG21	1.84	0.57
1:I:183:LEU:HD12	1:I:247:VAL:HG22	1.87	0.57
1:I:946:ARG:HD3	1:I:967:PRO:HB3	1.87	0.57
1:I:1064:VAL:HA	1:I:1105:LYS:HZ3	1.70	0.57
1:K:770:CYS:HA	1:K:777:ARG:HA	1.85	0.57
1:K:1151:ASN:HB2	1:K:1166:PHE:CZ	2.39	0.57
1:H:367:LYS:O	1:H:371:ARG:HG2	2.05	0.57
1:H:387:SER:HA	1:H:398:VAL:HG21	1.85	0.57
1:H:785:ASN:CB	1:H:836:VAL:HG21	2.34	0.57
1:J:723:ALA:CA	1:J:744:LEU:HD12	2.35	0.57
1:J:1148:ASP:H	1:J:1150:LYS:HD2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:30:LYS:HZ2	1:L:49:ILE:HA	1.69	0.57
1:M:136:GLN:HA	1:M:139:LEU:CD2	2.35	0.57
1:M:620:PHE:CE2	1:M:662:GLN:HG3	2.40	0.57
1:M:919:VAL:HG22	1:M:920:LEU:H	1.69	0.57
1:O:90:SER:HA	1:O:93:LYS:HG2	1.87	0.57
1:Q:139:LEU:HD12	1:Q:140:GLU:HG2	1.84	0.57
1:Q:1053:PHE:HB2	1:Q:1059:ASP:HB2	1.86	0.57
1:I:260:CYS:SG	1:I:261:LYS:N	2.78	0.57
1:I:522:LYS:HE3	1:I:525:LYS:NZ	2.19	0.57
1:I:970:TYR:CD1	1:I:991:GLU:HG3	2.39	0.57
1:K:525:LYS:HG3	1:K:526:PRO:HD3	1.87	0.57
1:K:766:SER:HA	1:K:786:CYS:O	2.04	0.57
1:H:1007:SER:CB	1:H:1021:ASN:O	2.51	0.57
1:H:1135:VAL:HA	1:H:1142:GLU:HG2	1.85	0.57
1:J:99:PRO:O	1:J:104:ARG:NE	2.38	0.57
1:J:105:MET:O	1:J:109:GLN:NE2	2.21	0.57
1:J:635:VAL:HA	1:J:659:VAL:HG13	1.87	0.57
1:J:920:LEU:HB3	1:J:1241:PHE:CD2	2.39	0.57
1:L:663:GLN:CG	1:L:673:GLY:O	2.53	0.57
1:L:934:LEU:HB2	1:L:950:TRP:CE3	2.40	0.57
1:M:26:ASN:HB2	2:A:81:GLN:HE21	1.69	0.57
1:M:30:LYS:HE3	1:M:48:ILE:O	2.04	0.57
1:M:149:ILE:HG22	1:M:283:ILE:HB	1.86	0.57
1:M:660:PHE:HA	1:M:676:LYS:HG2	1.87	0.57
1:M:940:SER:H	1:M:946:ARG:CA	2.17	0.57
1:O:463:LEU:H	1:O:467:PHE:HB2	1.70	0.57
2:C:70:GLU:HG2	2:C:73:ARG:HD2	1.86	0.57
2:D:55:LEU:HA	2:D:74:ARG:HH12	1.70	0.57
1:Q:851:SER:HB2	1:Q:852:GLU:HG3	1.86	0.57
1:Q:948:ILE:HD11	1:Q:957:ILE:HD12	1.87	0.57
1:Q:1022:ALA:O	1:Q:1047:THR:OG1	2.22	0.57
1:Q:1061:LEU:HD21	1:Q:1091:GLN:HB2	1.87	0.57
1:Q:1216:ALA:HB1	1:Q:1237:ARG:CZ	2.35	0.57
1:I:922:GLY:HA3	1:I:940:SER:O	2.04	0.57
1:I:1090:LEU:O	1:I:1104:THR:OG1	2.21	0.57
1:K:155:SER:HB3	1:K:157:LYS:HG3	1.87	0.57
1:K:414:GLN:HE21	1:K:419:THR:HG23	1.70	0.57
1:K:977:MET:SD	1:K:987:VAL:HG22	2.45	0.57
1:H:220:ARG:O	1:H:224:ILE:CD1	2.52	0.57
1:H:365:TYR:HB3	1:H:405:LEU:HD21	1.87	0.57
1:H:1217:VAL:HG21	1:H:1241:PHE:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:29:CYS:O	1:L:33:GLN:NE2	2.31	0.57
1:L:1042:ASP:O	1:L:1045:HIS:CD2	2.58	0.57
1:M:40:LEU:HD21	1:M:45:ILE:HB	1.87	0.57
1:M:97:ARG:NH1	1:M:97:ARG:O	2.37	0.57
1:M:148:LEU:HD22	1:M:282:HIS:CD2	2.39	0.57
2:C:59:PRO:HA	2:C:62:MET:HE2	1.86	0.57
2:D:24:ILE:O	2:D:27:GLU:HG2	2.04	0.57
2:F:17:HIS:HE1	2:F:106:LEU:HA	1.70	0.57
1:Q:300:LEU:HD21	1:Q:325:SER:HA	1.86	0.57
1:Q:524:TYR:HB3	1:Q:543:LEU:HD12	1.86	0.57
1:Q:547:PRO:O	1:Q:608:ASN:O	2.22	0.57
1:Q:951:VAL:HG21	1:Q:1234:HIS:HE1	1.70	0.57
1:Q:1041:ILE:HG22	1:Q:1043:VAL:HG13	1.86	0.57
1:Q:1070:VAL:HA	1:Q:1078:LYS:HB2	1.86	0.57
1:I:13:LYS:NZ	1:I:68:LYS:O	2.37	0.57
1:I:399:MET:HA	1:I:402:VAL:HG22	1.87	0.57
1:I:534:LYS:NZ	1:I:538:LEU:CD1	2.67	0.57
1:K:64:THR:O	1:K:68:LYS:NZ	2.38	0.57
1:K:81:LEU:HD22	1:K:89:MET:HB3	1.87	0.57
1:H:152:VAL:O	1:H:157:LYS:NZ	2.38	0.56
1:J:424:SER:O	1:J:428:GLU:OE1	2.23	0.56
1:J:463:LEU:H	1:J:467:PHE:HB2	1.69	0.56
1:J:679:SER:CA	1:J:702:VAL:HG22	2.33	0.56
1:J:725:LEU:HG	1:J:743:ILE:O	2.05	0.56
1:L:131:TYR:HD1	1:L:164:VAL:HG22	1.70	0.56
1:M:182:ASN:HB2	1:M:184:LYS:HD3	1.87	0.56
1:M:761:LEU:CB	1:M:804:HIS:CD2	2.83	0.56
1:O:300:LEU:HD23	1:O:324:LEU:HD23	1.87	0.56
1:O:868:SER:O	1:O:872:ARG:N	2.38	0.56
1:O:1065:SER:O	1:O:1083:GLN:NE2	2.38	0.56
1:O:1223:GLN:O	1:O:1223:GLN:HG2	2.03	0.56
2:G:38:CYS:HA	2:G:41:GLN:HB2	1.87	0.56
1:Q:266:THR:HG21	1:Q:271:VAL:HB	1.87	0.56
1:Q:331:ILE:O	1:Q:336:ALA:N	2.38	0.56
1:Q:806:PHE:HB3	1:Q:810:ASN:HA	1.85	0.56
1:I:488:ARG:HG3	1:I:491:PHE:CD2	2.39	0.56
1:I:876:LEU:HD21	1:I:915:TYR:HA	1.86	0.56
1:I:987:VAL:H	1:I:993:ILE:HG13	1.69	0.56
1:K:183:LEU:HD21	1:K:244:LEU:HD12	1.86	0.56
1:H:721:GLU:O	1:H:723:ALA:N	2.37	0.56
1:J:1057:PRO:HD3	1:J:1098:LEU:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1109:LEU:HD23	1:J:1123:VAL:HG21	1.86	0.56
1:L:749:GLN:HG2	1:L:758:VAL:HG21	1.87	0.56
2:N:58:LYS:O	2:N:60:PHE:N	2.33	0.56
2:A:23:ASN:OD1	2:A:24:ILE:HD12	2.04	0.56
1:Q:44:GLU:HA	1:Q:47:HIS:CD2	2.41	0.56
1:I:522:LYS:O	1:I:526:PRO:CG	2.53	0.56
1:K:1049:LEU:N	1:K:1061:LEU:HD13	2.20	0.56
1:H:36:PRO:O	1:H:39:ILE:HG22	2.05	0.56
1:H:213:HIS:H	1:H:220:ARG:HD3	1.70	0.56
1:H:345:ASN:HA	1:H:348:LYS:HG2	1.86	0.56
1:H:1233:GLU:H	1:H:1246:LEU:C	2.12	0.56
1:J:232:LEU:HD11	1:J:260:CYS:HB2	1.88	0.56
1:J:845:LEU:HG	1:J:858:GLU:HG3	1.87	0.56
1:J:1019:LYS:HZ1	1:J:1053:PHE:CB	2.11	0.56
1:J:1053:PHE:O	1:J:1058:ILE:HB	2.05	0.56
1:J:1102:VAL:O	1:J:1111:GLU:HG2	2.06	0.56
1:J:1136:LYS:HE2	1:J:1193:TYR:HE1	1.70	0.56
1:J:1227:SER:N	1:J:1232:HIS:O	2.37	0.56
1:L:374:VAL:HB	1:L:446:HIS:HE1	1.70	0.56
1:L:457:ASP:HB3	1:L:583:ARG:NE	2.19	0.56
1:L:940:SER:CB	1:L:967:PRO:CB	2.73	0.56
1:L:970:TYR:N	1:L:975:MET:O	2.36	0.56
1:L:1008:THR:CG2	1:L:1050:PRO:HD2	2.34	0.56
1:L:1068:ILE:HD13	1:L:1077:GLN:CD	2.30	0.56
1:M:130:PRO:O	1:M:134:LEU:HG	2.04	0.56
1:O:145:LYS:HE3	1:O:279:THR:C	2.29	0.56
1:O:521:LEU:O	1:O:525:LYS:HG2	2.05	0.56
1:O:702:VAL:HG21	2:N:60:PHE:CZ	2.40	0.56
1:O:1136:LYS:HB3	1:O:1190:LYS:NZ	2.21	0.56
1:O:1143:TYR:HE2	1:O:1186:ALA:HB2	1.69	0.56
2:C:10:MET:HB3	2:C:84:PRO:HB3	1.87	0.56
2:G:37:GLU:HG2	2:G:97:ILE:CD1	2.36	0.56
1:Q:399:MET:HA	1:Q:402:VAL:HG22	1.87	0.56
1:I:470:HIS:O	1:I:474:HIS:ND1	2.39	0.56
1:I:824:LYS:HG2	1:I:831:ILE:HG23	1.87	0.56
1:I:1064:VAL:O	1:I:1105:LYS:HG3	2.05	0.56
1:K:154:GLY:O	1:K:322:ARG:HG2	2.05	0.56
1:K:761:LEU:HD22	1:K:804:HIS:CE1	2.41	0.56
1:K:880:GLU:OE1	1:K:899:SER:OG	2.23	0.56
1:K:895:ARG:O	1:K:911:PHE:N	2.33	0.56
1:H:660:PHE:CB	1:H:676:LYS:C	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:704:ARG:HG3	1:H:705:PHE:H	1.70	0.56
1:J:927:GLN:HB3	1:J:969:VAL:HG12	1.87	0.56
1:L:1065:SER:HA	1:L:1106:TYR:O	2.06	0.56
1:L:1131:PRO:HB3	1:L:1147:PHE:HE1	1.71	0.56
1:M:13:LYS:HB2	1:M:66:LEU:HD13	1.87	0.56
1:M:522:LYS:HD3	1:M:525:LYS:HZ1	1.70	0.56
1:M:732:LEU:HD22	1:M:736:PHE:HZ	1.69	0.56
1:M:1065:SER:OG	1:M:1084:LEU:O	2.23	0.56
1:O:82:ARG:HE	1:O:89:MET:HE3	1.70	0.56
1:O:190:GLU:O	1:O:194:GLU:HG2	2.04	0.56
1:O:447:TYR:C	1:O:450:PRO:HD2	2.31	0.56
1:O:536:GLU:O	1:O:540:ASN:OD1	2.22	0.56
2:B:12:LYS:HD2	2:B:15:ARG:HB2	1.87	0.56
2:D:26:VAL:HG23	2:D:72:HIS:HB3	1.87	0.56
2:F:25:LEU:HG	2:F:102:ALA:HB1	1.86	0.56
1:Q:727:GLU:O	1:Q:736:PHE:N	2.36	0.56
1:Q:857:PRO:HG2	1:Q:865:GLY:O	2.06	0.56
1:K:117:ASN:OD1	1:K:118:GLN:N	2.38	0.56
1:K:146:ASN:OD1	1:K:262:ILE:N	2.37	0.56
1:K:167:SER:O	1:K:171:GLN:HG3	2.06	0.56
1:K:674:SER:O	1:K:681:TRP:HA	2.05	0.56
1:K:1007:SER:N	1:K:1021:ASN:O	2.39	0.56
1:K:1049:LEU:CB	1:K:1061:LEU:CD1	2.58	0.56
1:H:124:ASN:O	1:H:303:LYS:NZ	2.36	0.56
1:H:660:PHE:HD1	1:H:677:LEU:HD12	1.69	0.56
1:H:752:GLU:N	1:H:758:VAL:HG22	2.20	0.56
1:J:666:LEU:HD22	1:J:730:ILE:HD11	1.86	0.56
1:J:946:ARG:NH1	1:J:977:MET:HA	2.21	0.56
1:L:213:HIS:HB2	1:L:220:ARG:HH11	1.71	0.56
1:L:704:ARG:CZ	1:L:749:GLN:HB2	2.36	0.56
1:L:976:ASP:H	1:L:989:SER:HB3	1.70	0.56
1:L:1149:LEU:HD12	1:L:1180:ILE:HA	1.87	0.56
1:L:1185:ILE:HD11	1:L:1226:TYR:CZ	2.41	0.56
1:M:406:HIS:ND1	1:M:412:GLU:HA	2.21	0.56
1:M:443:ILE:HG13	1:M:478:ILE:HG23	1.86	0.56
1:M:1049:LEU:CD1	1:M:1061:LEU:HD22	2.19	0.56
1:O:69:GLN:NE2	1:O:72:MET:HG3	2.21	0.56
1:O:751:GLN:HA	1:O:758:VAL:HG22	1.85	0.56
2:F:10:MET:HB3	2:F:14:HIS:HB2	1.87	0.56
1:Q:291:THR:O	1:Q:291:THR:HG22	2.06	0.56
1:Q:475:LEU:HD22	1:Q:482:GLU:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:718:TYR:CB	1:I:726:PRO:HG2	2.35	0.56
1:I:1135:VAL:HG22	1:I:1142:GLU:HG2	1.87	0.56
1:H:609:GLU:O	1:H:907:ILE:HA	2.06	0.56
1:H:822:ARG:HD2	1:H:837:TRP:CE2	2.41	0.56
1:J:803:LEU:HD22	1:J:845:LEU:C	2.30	0.56
1:M:483:ARG:NH1	1:M:484:MET:SD	2.78	0.56
1:M:728:ALA:HA	1:M:736:PHE:CD1	2.40	0.56
1:O:471:ILE:HG23	1:O:487:PHE:HZ	1.56	0.56
1:O:480:HIS:HB2	1:O:483:ARG:NH2	2.20	0.56
1:O:623:ILE:HG23	1:O:644:LEU:HD21	1.87	0.56
2:F:70:GLU:HG3	2:F:73:ARG:HD3	1.88	0.56
1:Q:442:SER:O	1:Q:446:HIS:ND1	2.38	0.56
1:Q:769:ARG:HB3	1:Q:779:TYR:HB2	1.86	0.56
1:I:48:ILE:HG13	1:I:60:ARG:NH1	2.20	0.56
1:K:218:LYS:O	1:K:221:ILE:HG22	2.06	0.56
1:H:155:SER:H	1:H:157:LYS:NZ	2.04	0.56
1:H:660:PHE:N	1:H:676:LYS:HB2	2.20	0.56
1:H:970:TYR:CE2	1:H:1011:PRO:CA	2.69	0.56
1:H:1112:GLY:HA2	1:H:1120:ASP:HB2	1.88	0.56
1:J:403:ASN:HB3	1:J:404:LYS:HZ2	1.70	0.56
1:L:976:ASP:N	1:L:989:SER:HB3	2.21	0.56
1:M:277:ALA:HA	1:M:282:HIS:HE1	1.71	0.56
1:M:345:ASN:HB3	1:M:349:LEU:HD23	1.88	0.56
1:O:76:PHE:HA	1:O:80:VAL:HB	1.88	0.56
1:O:85:TYR:HB3	1:O:88:LEU:HB2	1.88	0.56
1:O:629:GLN:HA	1:O:643:TYR:HA	1.86	0.56
2:B:22:LEU:HD12	2:B:76:LEU:HD22	1.87	0.56
1:Q:159:TRP:HE1	1:Q:322:ARG:HH12	1.54	0.56
1:Q:463:LEU:O	1:Q:467:PHE:HB2	2.06	0.56
1:Q:980:GLU:HB2	1:Q:984:LEU:HB2	1.87	0.56
1:I:525:LYS:CG	1:I:526:PRO:CD	2.79	0.56
1:I:946:ARG:NH1	1:I:978:THR:HG22	2.20	0.56
1:K:213:HIS:HB2	1:K:220:ARG:HD3	1.87	0.56
1:K:235:LYS:HA	1:K:238:GLU:HG2	1.88	0.56
1:K:1185:ILE:HG21	1:K:1226:TYR:CD1	2.41	0.56
1:H:767:GLY:H	1:H:837:TRP:CD1	2.24	0.56
1:H:979:ARG:HB2	1:H:1007:SER:N	2.20	0.56
1:J:1092:PRO:HB2	1:J:1135:VAL:HG23	1.87	0.56
1:L:336:ALA:HB3	1:L:339:ASP:HB2	1.86	0.56
1:M:163:ASP:HA	1:M:166:LEU:HD12	1.87	0.56
1:M:457:ASP:HB3	1:M:583:ARG:NE	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:538:LEU:HG	1:M:571:GLU:HG2	1.87	0.56
1:O:193:LEU:HD13	1:O:217:ILE:HG13	1.87	0.56
1:O:989:SER:HB2	1:O:992:ARG:HE	1.71	0.56
2:N:17:HIS:CD2	2:N:109:VAL:HB	2.41	0.56
2:F:48:MET:HA	2:F:51:ASN:ND2	2.20	0.56
1:Q:664:LYS:CE	1:Q:681:TRP:HZ2	2.16	0.56
1:I:968:ASN:ND2	1:I:1009:ILE:HG22	2.20	0.56
1:H:969:VAL:HG13	1:H:969:VAL:O	2.05	0.56
1:J:354:GLU:OE2	1:J:358:ASN:ND2	2.33	0.56
1:L:824:LYS:HG2	1:L:831:ILE:HA	1.88	0.56
1:M:15:ILE:HD13	1:M:96:GLN:HA	1.86	0.56
1:M:277:ALA:H	1:O:122:LYS:HE3	1.71	0.56
1:M:672:ASN:ND2	1:M:684:CYS:O	2.39	0.56
1:M:866:LYS:NZ	1:M:876:LEU:HB2	2.20	0.56
1:O:189:PRO:HA	1:O:192:VAL:HG22	1.88	0.56
1:O:532:ASP:OD1	1:O:533:PRO:HD2	2.05	0.56
2:A:88:ASN:OD1	2:A:89:LEU:N	2.38	0.56
1:Q:247:VAL:HG21	1:Q:264:LEU:HB2	1.88	0.56
1:Q:302:LEU:HA	1:Q:306:ASP:HA	1.88	0.56
1:Q:403:ASN:O	1:Q:407:LYS:HG2	2.06	0.56
1:I:18:VAL:O	1:I:169:LYS:NZ	2.39	0.56
1:I:345:ASN:HA	1:I:348:LYS:HE2	1.87	0.56
1:I:381:ILE:O	1:I:420:ILE:N	2.36	0.56
1:I:825:THR:N	1:I:830:LEU:O	2.32	0.56
1:I:845:LEU:HB2	1:I:886:ASP:O	2.06	0.56
1:K:52:LYS:HD2	1:K:53:ASP:H	1.70	0.56
1:K:145:LYS:NZ	1:K:281:THR:H	2.03	0.56
1:K:212:ASP:O	1:K:213:HIS:ND1	2.39	0.56
1:K:770:CYS:SG	1:K:777:ARG:NE	2.77	0.56
1:K:921:CYS:HA	1:K:1240:LEU:O	2.06	0.56
1:H:660:PHE:N	1:H:676:LYS:HG2	2.21	0.56
1:H:807:ASN:ND2	1:H:812:THR:OG1	2.39	0.56
1:J:146:ASN:HA	1:J:262:ILE:O	2.06	0.56
1:J:488:ARG:NH1	1:J:491:PHE:HE2	2.04	0.56
1:L:1061:LEU:HD22	1:L:1091:GLN:NE2	2.21	0.56
1:M:387:SER:HA	1:M:398:VAL:HG11	1.88	0.56
1:O:289:SER:OG	1:O:290:MET:SD	2.64	0.56
1:O:414:GLN:HE21	1:O:419:THR:HG23	1.71	0.56
1:O:662:GLN:NE2	1:O:703:LYS:O	2.39	0.56
1:Q:82:ARG:HB2	1:Q:89:MET:HE1	1.87	0.56
1:Q:849:LEU:HD11	1:Q:854:VAL:C	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:868:SER:N	1:Q:873:TYR:O	2.39	0.56
1:I:1012:THR:CG2	1:I:1019:LYS:HZ2	2.18	0.56
1:I:1126:LEU:HD11	1:I:1144:ILE:CG2	2.36	0.56
1:K:478:ILE:HG13	1:K:479:GLU:N	2.20	0.56
1:K:845:LEU:HB2	1:K:886:ASP:O	2.06	0.56
1:K:1134:PHE:O	1:K:1143:TYR:HB2	2.05	0.56
1:H:142:ARG:HG2	1:H:143:PRO:HD2	1.88	0.55
1:H:993:ILE:HD12	1:H:993:ILE:O	2.05	0.55
1:J:157:LYS:HA	1:J:160:VAL:HG22	1.88	0.55
1:L:122:LYS:HB2	1:K:276:SER:HB3	1.88	0.55
1:L:162:LEU:O	1:L:166:LEU:HG	2.06	0.55
1:L:382:PRO:HD2	1:L:385:LEU:HD12	1.87	0.55
1:L:868:SER:O	1:L:872:ARG:N	2.39	0.55
1:M:1011:PRO:O	1:M:1052:GLN:NE2	2.39	0.55
1:O:675:VAL:HG13	1:O:679:SER:HA	1.87	0.55
1:O:1227:SER:HB3	1:O:1232:HIS:HB2	1.88	0.55
2:A:12:LYS:NZ	2:A:16:GLU:OE1	2.24	0.55
2:E:41:GLN:NE2	2:E:96:ASN:OD1	2.37	0.55
1:Q:867:ARG:HG2	1:Q:874:LEU:HB2	1.88	0.55
1:I:665:HIS:HA	1:I:672:ASN:HA	1.87	0.55
1:K:785:ASN:ND2	1:K:822:ARG:HG2	2.20	0.55
1:K:1151:ASN:HB3	1:K:1166:PHE:CZ	2.41	0.55
1:H:23:PHE:HD1	1:H:27:PHE:CG	2.24	0.55
1:H:69:GLN:HE22	1:H:71:GLU:HB3	1.71	0.55
1:H:458:LEU:HD13	1:H:491:PHE:HB3	1.86	0.55
1:H:823:SER:O	1:H:832:PHE:N	2.29	0.55
1:J:199:LEU:HA	1:J:202:GLN:HG2	1.88	0.55
1:J:330:SER:OG	1:J:345:ASN:OD1	2.21	0.55
1:L:229:ARG:C	1:L:233:LYS:HZ2	2.15	0.55
1:L:385:LEU:HD13	1:L:466:TYR:CZ	2.41	0.55
1:L:946:ARG:NH1	1:L:966:GLU:O	2.37	0.55
1:L:1150:LYS:HB3	1:L:1166:PHE:HE1	1.71	0.55
1:M:183:LEU:HD12	1:M:247:VAL:HG22	1.87	0.55
1:M:305:LEU:HA	1:M:332:ARG:HD3	1.89	0.55
1:O:320:ASN:H	1:O:323:ARG:NE	2.05	0.55
1:O:1084:LEU:HG	1:O:1085:GLU:H	1.71	0.55
2:D:31:TYR:CZ	2:D:71:GLN:HB3	2.41	0.55
1:Q:854:VAL:HG22	1:Q:868:SER:HA	1.87	0.55
1:I:463:LEU:HD23	1:I:465:GLN:H	1.71	0.55
1:K:630:ILE:HG13	1:K:644:LEU:HD23	1.87	0.55
1:K:1068:ILE:HD13	1:K:1080:VAL:CG2	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:405:LEU:HD22	1:H:410:LEU:HD22	1.87	0.55
1:H:765:GLN:HG2	1:H:818:VAL:HG22	1.88	0.55
1:J:641:ASP:C	1:J:649:SER:HB3	2.31	0.55
1:J:979:ARG:NH1	1:J:1020:ILE:CG2	2.69	0.55
1:L:117:ASN:OD1	1:L:120:PHE:N	2.39	0.55
1:L:502:ARG:NH1	1:L:516:ASN:OD1	2.39	0.55
1:M:928:VAL:HB	1:M:1225:ILE:HD13	1.88	0.55
1:M:939:GLY:CA	1:M:946:ARG:HA	2.33	0.55
1:M:1102:VAL:HG22	1:M:1109:LEU:HD11	1.87	0.55
1:M:1104:THR:HG22	1:M:1109:LEU:HD22	1.87	0.55
1:M:1183:GLU:OE2	1:M:1196:ALA:N	2.34	0.55
1:O:1051:GLN:HB2	1:O:1059:ASP:HB2	1.89	0.55
1:Q:73:VAL:HA	1:Q:76:PHE:HD2	1.72	0.55
1:Q:747:ASP:H	1:Q:762:LYS:HA	1.71	0.55
1:Q:890:SER:OG	1:Q:898:VAL:HG23	2.06	0.55
1:Q:1040:ILE:C	1:Q:1042:ASP:H	2.13	0.55
1:I:131:TYR:HA	1:I:134:LEU:HD12	1.89	0.55
1:I:157:LYS:HZ3	1:I:267:ARG:HH12	1.54	0.55
1:I:502:ARG:HE	1:I:503:HIS:H	1.53	0.55
1:K:134:LEU:HD13	1:K:283:ILE:HG13	1.88	0.55
1:K:212:ASP:HA	1:K:220:ARG:HE	1.71	0.55
1:K:246:ASN:HB3	1:K:267:ARG:HD3	1.89	0.55
1:H:484:MET:CE	1:H:490:VAL:CG2	2.85	0.55
1:H:760:VAL:HB	1:H:768:ILE:HG13	1.88	0.55
1:J:617:HIS:O	1:J:634:ASP:HB3	2.06	0.55
1:M:463:LEU:CD2	1:M:465:GLN:HG3	2.37	0.55
1:M:853:ALA:O	1:M:869:THR:N	2.39	0.55
1:O:422:ILE:HB	1:O:427:LEU:HD12	1.87	0.55
1:O:1043:VAL:O	1:O:1045:HIS:N	2.39	0.55
1:Q:522:LYS:HD2	1:Q:525:LYS:HZ1	1.71	0.55
1:Q:887:LEU:HB2	1:Q:907:ILE:HG13	1.87	0.55
1:Q:923:ALA:H	1:Q:1240:LEU:HB3	1.71	0.55
1:I:665:HIS:ND1	1:I:666:LEU:O	2.31	0.55
1:I:1070:VAL:HG22	1:I:1077:GLN:HG2	1.87	0.55
1:I:1222:VAL:HG22	1:I:1236:ILE:HB	1.87	0.55
1:K:770:CYS:HB3	1:K:777:ARG:HH21	1.71	0.55
1:K:1060:TYR:O	1:K:1067:ASN:HB3	2.06	0.55
1:H:29:CYS:SG	1:H:48:ILE:CG2	2.94	0.55
1:H:47:HIS:HA	1:H:50:MET:HG3	1.88	0.55
1:H:729:ASN:HB2	1:H:732:LEU:HB3	1.88	0.55
1:H:855:GLN:HG3	1:H:856:LEU:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:30:LYS:NZ	1:J:48:ILE:O	2.24	0.55
1:J:94:THR:O	1:J:98:GLN:N	2.26	0.55
1:J:117:ASN:ND2	1:J:120:PHE:HB3	2.21	0.55
1:J:990:LYS:HB2	1:J:1011:PRO:HA	1.87	0.55
1:M:643:TYR:HB3	1:M:647:ASP:HA	1.89	0.55
1:M:968:ASN:HD22	1:M:977:MET:HB3	1.72	0.55
2:C:27:GLU:HG2	2:C:28:TRP:HD1	1.71	0.55
2:D:47:GLN:NE2	2:D:51:ASN:HD22	2.03	0.55
2:E:82:ARG:HH12	1:I:86:LYS:HG2	1.71	0.55
1:Q:212:ASP:HB3	1:Q:220:ARG:HD3	1.88	0.55
1:Q:849:LEU:CD2	1:Q:854:VAL:O	2.54	0.55
1:I:755:LEU:HB3	1:I:773:GLN:HE21	1.71	0.55
1:I:1018:CYS:N	1:I:1031:ILE:HG13	2.20	0.55
1:K:404:LYS:HA	1:K:407:LYS:HE2	1.88	0.55
1:K:472:GLY:HA2	1:K:487:PHE:CE1	2.42	0.55
1:J:484:MET:CE	1:J:489:MET:HB2	2.36	0.55
1:J:528:ILE:HD11	1:J:543:LEU:HD12	1.89	0.55
1:L:69:GLN:HG3	1:L:72:MET:HE1	1.87	0.55
1:L:367:LYS:O	1:L:371:ARG:HG2	2.06	0.55
1:L:661:ASN:N	1:L:675:VAL:O	2.35	0.55
1:L:891:ASP:HB2	1:L:895:ARG:H	1.71	0.55
1:L:946:ARG:HH12	1:L:967:PRO:CA	2.18	0.55
1:M:74:GLN:HA	1:M:77:VAL:HG12	1.89	0.55
1:M:90:SER:HA	1:M:93:LYS:HE2	1.88	0.55
1:M:470:HIS:HB3	1:M:474:HIS:HE1	1.71	0.55
1:O:443:ILE:HD11	1:O:474:HIS:HA	1.89	0.55
1:O:771:PHE:CD2	1:O:774:VAL:HB	2.39	0.55
2:N:17:HIS:HB2	2:N:109:VAL:HG21	1.89	0.55
2:N:25:LEU:HB2	2:N:76:LEU:HD21	1.88	0.55
1:Q:181:LEU:HD11	1:Q:199:LEU:HB2	1.89	0.55
1:Q:357:LEU:O	1:Q:359:VAL:N	2.39	0.55
1:Q:665:HIS:ND1	1:Q:672:ASN:ND2	2.49	0.55
1:Q:1066:PRO:HB3	1:Q:1082:PHE:CG	2.41	0.55
1:I:520:GLN:HG2	1:I:524:TYR:CZ	2.40	0.55
1:H:708:SER:H	1:H:717:PHE:HD2	1.53	0.55
1:H:969:VAL:CA	1:H:992:ARG:HH21	2.19	0.55
1:H:977:MET:CG	1:H:1009:ILE:HD12	2.36	0.55
1:J:1108:SER:HB2	1:J:1110:GLN:HE22	1.72	0.55
1:L:53:ASP:OD1	1:L:54:ALA:N	2.38	0.55
1:L:463:LEU:HD13	1:L:467:PHE:CE1	2.42	0.55
1:L:663:GLN:HG3	1:L:673:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:922:GLY:H	1:L:1239:LEU:C	2.14	0.55
1:L:1013:HIS:NE2	1:L:1056:GLU:N	2.54	0.55
1:M:404:LYS:O	1:M:407:LYS:HG2	2.06	0.55
1:M:656:ARG:HH21	1:M:682:PRO:HD3	1.71	0.55
1:M:1007:SER:OG	1:M:1008:THR:N	2.34	0.55
1:O:30:LYS:HG3	1:O:49:ILE:HG23	1.89	0.55
2:D:59:PRO:HB3	2:D:62:MET:HE3	1.88	0.55
1:Q:621:CYS:CB	1:Q:899:SER:N	2.67	0.55
1:I:765:GLN:O	1:I:783:THR:OG1	2.21	0.55
1:I:922:GLY:HA2	1:I:1240:LEU:HD23	1.88	0.55
1:K:401:VAL:HA	1:K:404:LYS:HE2	1.89	0.55
1:H:785:ASN:HB2	1:H:836:VAL:HG21	1.89	0.55
1:H:1000:ILE:HG23	1:H:1000:ILE:O	2.07	0.55
1:J:634:ASP:C	1:J:636:SER:H	2.14	0.55
1:J:760:VAL:HG23	1:J:768:ILE:H	1.72	0.55
1:J:771:PHE:CE1	1:J:778:TYR:HD1	2.25	0.55
1:L:287:HIS:CD2	1:L:290:MET:HG2	2.42	0.55
1:M:154:GLY:HA2	1:M:157:LYS:HZ3	1.72	0.55
1:M:488:ARG:HG3	1:M:491:PHE:CD2	2.42	0.55
1:O:938:SER:HB3	1:O:948:ILE:HD13	1.89	0.55
2:B:13:ARG:O	2:B:16:GLU:HG3	2.07	0.55
2:C:31:TYR:CZ	2:C:71:GLN:HB3	2.42	0.55
1:Q:189:PRO:HB2	1:Q:217:ILE:HD13	1.88	0.55
1:Q:620:PHE:CE2	1:Q:674:SER:OG	2.56	0.55
1:Q:657:MET:O	1:Q:676:LYS:CD	2.55	0.55
1:Q:669:LEU:HG	1:Q:670:HIS:H	1.72	0.55
1:I:196:LEU:HD12	1:I:221:ILE:HD11	1.88	0.55
1:H:155:SER:H	1:H:157:LYS:HZ1	1.55	0.55
1:H:715:VAL:HG22	1:H:729:ASN:OD1	2.07	0.55
1:J:12:TYR:CZ	1:J:96:GLN:HG2	2.42	0.55
1:J:268:PHE:HB2	1:J:271:VAL:HG23	1.89	0.55
1:J:672:ASN:N	1:J:684:CYS:O	2.38	0.55
1:J:715:VAL:HG11	1:J:727:GLU:OE1	2.06	0.55
1:L:304:TYR:O	1:L:332:ARG:NE	2.38	0.55
1:L:458:LEU:HD13	1:L:491:PHE:HB3	1.89	0.55
1:L:678:TRP:CZ3	2:B:58:LYS:HE2	2.42	0.55
1:M:214:SER:HA	1:M:220:ARG:HH12	1.71	0.55
1:O:155:SER:H	1:O:157:LYS:NZ	2.03	0.55
1:O:330:SER:O	1:O:340:ASN:ND2	2.39	0.55
2:A:26:VAL:HG23	2:A:72:HIS:HB3	1.89	0.55
1:Q:637:LEU:O	1:Q:654:ILE:HB	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:659:VAL:HG21	1:Q:678:TRP:CE3	2.38	0.55
1:Q:908:TYR:CD1	1:Q:908:TYR:C	2.85	0.55
1:I:401:VAL:O	1:I:405:LEU:HG	2.07	0.55
1:I:449:ILE:HG22	1:I:450:PRO:HD3	1.86	0.55
1:I:986:ALA:O	1:I:999:ALA:CB	2.43	0.55
1:K:640:GLU:OE1	1:K:642:THR:HG23	2.07	0.55
1:K:988:ASP:HA	1:K:996:ILE:HG12	1.88	0.55
1:H:990:LYS:HD2	1:H:990:LYS:O	2.06	0.55
1:H:1062:LYS:HB2	1:H:1064:VAL:HG22	1.89	0.55
1:J:193:LEU:HD13	1:J:221:ILE:HD13	1.87	0.55
1:J:405:LEU:HD11	1:J:410:LEU:HD22	1.87	0.55
1:J:664:LYS:HD2	1:J:705:PHE:HB3	1.89	0.55
1:L:110:ARG:HD3	1:L:114:TYR:HE2	1.71	0.55
1:L:1047:THR:HA	1:L:1062:LYS:HA	1.89	0.55
1:M:231:LEU:HD23	1:M:231:LEU:C	2.31	0.55
1:O:562:LEU:HD22	1:O:581:VAL:HB	1.89	0.55
1:O:986:ALA:HA	1:O:999:ALA:H	1.71	0.55
2:C:69:VAL:HG12	2:C:73:ARG:HH12	1.71	0.55
2:G:34:LEU:HA	2:G:97:ILE:HD11	1.89	0.55
1:Q:910:LEU:HD12	1:Q:911:PHE:H	1.70	0.55
1:I:386:LEU:HA	1:I:389:ILE:HG22	1.89	0.55
1:I:704:ARG:HD2	1:I:748:GLU:HB2	1.88	0.55
1:K:666:LEU:HD12	1:K:670:HIS:HB2	1.87	0.55
1:K:929:VAL:CG1	1:K:971:LEU:HD22	2.37	0.55
1:K:1067:ASN:HD21	1:K:1091:GLN:NE2	2.00	0.55
1:J:946:ARG:HH21	1:J:964:CYS:HA	1.72	0.54
1:L:167:SER:HB3	1:L:170:VAL:HG23	1.88	0.54
1:M:155:SER:OG	1:M:321:PRO:HD2	2.06	0.54
1:M:307:CYS:O	1:M:311:ASP:N	2.40	0.54
1:M:371:ARG:HD2	1:M:389:ILE:HG12	1.89	0.54
1:M:665:HIS:ND1	1:M:666:LEU:O	2.32	0.54
1:M:1047:THR:HA	1:M:1062:LYS:HG2	1.88	0.54
1:M:1090:LEU:O	1:M:1104:THR:N	2.40	0.54
1:O:785:ASN:HB3	1:O:787:THR:HG23	1.90	0.54
1:Q:48:ILE:HG12	1:Q:60:ARG:HB3	1.88	0.54
1:Q:72:MET:HG3	1:Q:76:PHE:HE2	1.73	0.54
1:Q:321:PRO:O	1:Q:325:SER:HB2	2.07	0.54
1:Q:449:ILE:O	1:Q:452:THR:OG1	2.21	0.54
1:I:170:VAL:O	1:I:174:MET:N	2.39	0.54
1:I:1007:SER:OG	1:I:1008:THR:N	2.39	0.54
1:K:478:ILE:HG13	1:K:479:GLU:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:567:MET:N	1:K:567:MET:SD	2.81	0.54
1:H:148:LEU:HD23	1:H:275:LEU:HD11	1.89	0.54
1:H:749:GLN:HG2	1:H:760:VAL:HG22	1.89	0.54
1:H:831:ILE:HG21	1:H:835:SER:HB3	1.89	0.54
1:H:954:ALA:CA	1:H:976:ASP:OD2	2.56	0.54
1:J:86:LYS:HD2	1:J:89:MET:SD	2.47	0.54
1:J:143:PRO:HA	1:J:261:LYS:HG3	1.89	0.54
1:J:620:PHE:HA	1:J:887:LEU:HD12	1.88	0.54
1:J:936:SER:HA	1:J:950:TRP:HA	1.89	0.54
1:L:153:LEU:HB2	1:L:267:ARG:HH21	1.72	0.54
1:L:732:LEU:HD23	1:L:736:PHE:CZ	2.42	0.54
1:M:106:TYR:HB2	1:M:176:PHE:CE1	2.43	0.54
1:M:135:ARG:HA	1:M:138:LEU:HD12	1.88	0.54
1:M:938:SER:HA	1:M:948:ILE:HG12	1.89	0.54
1:M:1106:TYR:CD2	1:M:1109:LEU:CA	2.82	0.54
1:Q:630:ILE:HD11	1:Q:644:LEU:HD23	1.88	0.54
1:I:48:ILE:HA	1:I:60:ARG:NH2	2.21	0.54
1:I:611:ARG:NH1	1:I:642:THR:OG1	2.38	0.54
1:H:85:TYR:O	1:H:89:MET:HE2	2.06	0.54
1:H:170:VAL:O	1:H:174:MET:HB2	2.07	0.54
1:H:377:PRO:HB3	1:H:428:GLU:HG2	1.90	0.54
1:J:222:HIS:CE1	1:K:198:LYS:HE3	2.42	0.54
1:J:642:THR:CA	1:J:649:SER:HB3	2.37	0.54
1:J:1216:ALA:HA	1:J:1237:ARG:NH2	2.22	0.54
1:L:35:MET:HE1	1:L:42:LYS:H	1.71	0.54
1:L:152:VAL:HG22	1:L:153:LEU:HD23	1.89	0.54
1:L:668:THR:HG23	1:L:670:HIS:HE1	1.73	0.54
1:L:1027:ASN:HB2	1:L:1040:ILE:HG23	1.90	0.54
1:O:183:LEU:HD22	1:O:247:VAL:HG22	1.89	0.54
2:B:14:HIS:HB3	2:B:87:TYR:CE2	2.42	0.54
2:F:17:HIS:O	2:F:21:ASN:CB	2.53	0.54
2:G:50:ARG:HB3	2:G:53:GLN:HG3	1.88	0.54
1:I:660:PHE:HE1	1:I:676:LYS:HG2	1.71	0.54
1:K:1049:LEU:O	1:K:1061:LEU:CB	2.55	0.54
1:H:127:ARG:NH1	1:H:293:THR:OG1	2.40	0.54
1:H:616:LEU:HB3	1:H:635:VAL:CG1	2.36	0.54
1:H:854:VAL:HG12	1:H:867:ARG:C	2.30	0.54
1:J:188:SER:O	1:J:191:THR:OG1	2.20	0.54
1:J:254:ASN:OD1	1:J:255:ALA:N	2.40	0.54
1:J:845:LEU:HD13	1:J:847:VAL:HG13	1.88	0.54
1:J:913:PRO:O	1:J:916:LYS:N	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1056:GLU:HG3	1:J:1098:LEU:HG	1.90	0.54
1:L:127:ARG:HG3	1:L:130:PRO:HD2	1.89	0.54
1:L:202:GLN:NE2	1:L:203:ILE:HG12	2.22	0.54
1:L:681:TRP:HZ3	1:L:718:TYR:CD1	2.25	0.54
1:M:154:GLY:O	1:M:156:GLY:N	2.40	0.54
1:M:1029:GLU:HB2	1:M:1038:GLY:HA3	1.90	0.54
2:N:69:VAL:HG12	2:N:73:ARG:NH1	2.22	0.54
2:A:87:TYR:O	2:A:90:LEU:HB3	2.06	0.54
2:F:22:LEU:HD11	2:F:73:ARG:HA	1.88	0.54
1:Q:847:VAL:HG22	1:Q:848:SER:H	1.73	0.54
1:I:755:LEU:HD23	1:I:773:GLN:HE21	1.73	0.54
1:H:299:SER:O	1:H:303:LYS:HG2	2.06	0.54
1:J:615:TYR:CD2	1:J:616:LEU:HG	2.42	0.54
1:J:897:ASN:HB3	1:J:911:PHE:CZ	2.42	0.54
1:J:1196:ALA:N	1:J:1224:LEU:HD11	2.22	0.54
1:L:36:PRO:O	1:L:39:ILE:HG22	2.08	0.54
1:L:455:SER:H	1:L:460:PRO:HG3	1.72	0.54
1:L:483:ARG:NH2	1:L:528:ILE:O	2.41	0.54
1:L:624:ALA:HB3	1:L:627:SER:HA	1.90	0.54
1:L:969:VAL:HG22	1:L:976:ASP:OD1	2.07	0.54
1:M:1027:ASN:HB2	1:M:1040:ILE:HB	1.88	0.54
1:M:1108:SER:OG	1:M:1129:ALA:C	2.50	0.54
1:O:437:TYR:O	1:O:437:TYR:CD1	2.61	0.54
1:O:771:PHE:HB2	1:O:775:LEU:H	1.73	0.54
1:O:862:ILE:HD13	1:O:884:VAL:H	1.73	0.54
1:O:979:ARG:HA	1:O:984:LEU:O	2.08	0.54
2:A:18:ILE:HG21	2:A:80:THR:HB	1.89	0.54
2:B:75:LEU:O	2:B:79:ILE:HG12	2.07	0.54
2:D:26:VAL:HA	2:D:72:HIS:CD2	2.43	0.54
2:D:100:LEU:HA	2:D:103:ALA:HB3	1.88	0.54
1:H:329:GLU:CD	1:H:332:ARG:HH21	2.15	0.54
1:H:768:ILE:HD12	1:H:777:ARG:HG2	1.89	0.54
1:J:969:VAL:HG22	1:J:970:TYR:H	1.72	0.54
1:J:1196:ALA:HB2	1:J:1224:LEU:HG	1.89	0.54
1:M:48:ILE:HA	1:M:52:LYS:HD3	1.89	0.54
1:M:674:SER:O	1:M:681:TRP:HA	2.07	0.54
2:A:21:ASN:HB3	2:A:24:ILE:HB	1.88	0.54
2:C:48:MET:HA	2:C:51:ASN:ND2	2.23	0.54
1:Q:938:SER:HB2	1:Q:948:ILE:HG22	1.89	0.54
1:I:184:LYS:HD2	1:I:246:ASN:HD22	1.73	0.54
1:K:927:GLN:NE2	1:K:967:PRO:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1060:TYR:HD2	1:K:1070:VAL:CG2	2.21	0.54
1:H:189:PRO:HA	1:H:192:VAL:HG22	1.89	0.54
1:H:748:GLU:HB2	1:H:761:LEU:O	2.08	0.54
1:J:642:THR:HA	1:J:649:SER:HB3	1.88	0.54
1:L:23:PHE:HA	1:L:27:PHE:HB3	1.89	0.54
1:L:82:ARG:HH21	1:L:93:LYS:CE	2.20	0.54
1:L:491:PHE:HA	1:L:576:GLU:HG2	1.88	0.54
1:L:625:LEU:CG	1:L:669:LEU:CD2	2.72	0.54
1:L:656:ARG:NH2	1:L:680:LEU:O	2.41	0.54
1:M:339:ASP:HA	1:M:343:HIS:ND1	2.22	0.54
1:M:540:ASN:OD1	1:M:541:ALA:N	2.41	0.54
1:O:472:GLY:HA2	1:O:487:PHE:CE1	2.38	0.54
2:N:37:GLU:OE1	2:N:40:GLN:NE2	2.40	0.54
2:D:36:MET:O	2:D:40:GLN:NE2	2.41	0.54
1:I:153:LEU:HA	1:I:267:ARG:HH11	1.73	0.54
1:I:305:LEU:HA	1:I:332:ARG:HD2	1.88	0.54
1:I:381:ILE:N	1:I:420:ILE:O	2.41	0.54
1:K:43:GLU:O	1:K:47:HIS:ND1	2.41	0.54
1:H:82:ARG:HE	1:H:89:MET:CE	2.20	0.54
1:H:125:VAL:HG21	1:H:300:LEU:HB2	1.89	0.54
1:H:193:LEU:HD11	1:H:220:ARG:HE	1.72	0.54
1:H:347:ASP:O	1:H:351:THR:OG1	2.25	0.54
1:H:480:HIS:HB2	1:H:531:ASN:N	2.22	0.54
1:H:1092:PRO:HB3	1:H:1134:PHE:HA	1.90	0.54
1:J:758:VAL:HG23	1:J:770:CYS:O	2.08	0.54
1:J:762:LYS:HD3	1:J:762:LYS:N	2.23	0.54
1:J:853:ALA:O	1:J:869:THR:OG1	2.24	0.54
1:J:979:ARG:CB	1:J:1009:ILE:HD13	2.37	0.54
1:L:298:LYS:HA	1:L:301:LEU:HG	1.89	0.54
1:L:428:GLU:HG2	1:L:429:LEU:N	2.23	0.54
1:L:880:GLU:OE2	1:L:907:ILE:HB	2.08	0.54
1:L:924:LYS:HD3	1:L:1222:VAL:HG21	1.89	0.54
1:M:42:LYS:O	1:M:46:ASP:OD2	2.25	0.54
1:M:625:LEU:HD11	1:M:665:HIS:HE1	1.72	0.54
1:M:901:HIS:HB2	1:M:903:GLU:OE1	2.08	0.54
1:O:213:HIS:H	1:O:220:ARG:HD3	1.73	0.54
2:A:63:ASP:OD1	2:A:63:ASP:N	2.40	0.54
1:Q:178:ILE:HG22	1:Q:241:LEU:HB3	1.88	0.54
1:Q:621:CYS:HB3	1:Q:899:SER:O	2.07	0.54
1:I:54:ALA:O	1:I:58:THR:OG1	2.23	0.54
1:I:1064:VAL:CG2	1:I:1084:LEU:O	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:14:ASP:HB3	1:K:110:ARG:HH21	1.70	0.54
1:K:367:LYS:O	1:K:371:ARG:HG2	2.08	0.54
1:K:614:VAL:HG12	1:K:904:CYS:HB2	1.90	0.54
1:K:900:GLU:HA	1:K:906:ASP:OD1	2.08	0.54
1:H:480:HIS:HB2	1:H:531:ASN:HA	1.89	0.54
1:H:926:LYS:HG3	1:H:926:LYS:O	2.08	0.54
1:H:1136:LYS:HD2	1:H:1137:PRO:HD2	1.89	0.54
1:J:179:PHE:O	1:J:242:LEU:HA	2.08	0.54
1:J:449:ILE:O	1:J:452:THR:OG1	2.24	0.54
1:J:475:LEU:HB3	1:J:483:ARG:HG3	1.88	0.54
1:J:484:MET:SD	1:J:490:VAL:CG2	2.96	0.54
1:J:622:LEU:HB2	1:J:631:LEU:HD21	1.89	0.54
1:J:934:LEU:HB2	1:J:950:TRP:HE3	1.71	0.54
1:J:946:ARG:HD2	1:J:977:MET:CG	2.38	0.54
1:L:76:PHE:HD1	1:L:80:VAL:HB	1.73	0.54
1:M:150:ASP:N	1:M:283:ILE:O	2.41	0.54
1:O:978:THR:O	1:O:985:LEU:HA	2.08	0.54
1:O:1219:ASN:CB	1:O:1238:GLN:OE1	2.34	0.54
2:E:52:THR:HA	2:E:74:ARG:HH22	1.72	0.54
1:Q:611:ARG:HH11	1:Q:630:ILE:HD13	1.68	0.54
1:Q:675:VAL:N	1:Q:681:TRP:HD1	2.05	0.54
1:Q:917:TYR:HD2	1:Q:918:ILE:HG12	1.73	0.54
1:I:489:MET:HA	1:I:495:ARG:HH21	1.73	0.54
1:I:754:LYS:CB	1:I:757:HIS:CD2	2.86	0.54
1:I:754:LYS:HB2	1:I:757:HIS:CD2	2.43	0.54
1:I:807:ASN:HD22	1:I:808:VAL:HG22	1.73	0.54
1:K:323:ARG:HB2	1:K:349:LEU:HD21	1.89	0.54
1:H:478:ILE:HG13	1:H:479:GLU:H	1.73	0.54
1:H:672:ASN:N	1:H:684:CYS:O	2.41	0.54
1:J:376:PRO:HB2	1:J:379:ALA:HB2	1.90	0.54
1:J:405:LEU:HG	1:J:410:LEU:HB2	1.89	0.54
1:J:687:ARG:HA	1:J:687:ARG:CZ	2.38	0.54
1:L:52:LYS:HD3	1:L:55:VAL:HB	1.90	0.54
1:L:401:VAL:O	1:L:405:LEU:HG	2.08	0.54
1:L:979:ARG:NH1	1:L:1020:ILE:CG2	2.69	0.54
1:M:625:LEU:N	1:M:669:LEU:HD11	2.23	0.54
1:O:12:TYR:HA	1:O:15:ILE:HG12	1.90	0.54
1:O:864:CYS:HB3	1:O:866:LYS:NZ	2.23	0.54
2:N:10:MET:HB2	2:N:14:HIS:ND1	2.23	0.54
2:C:17:HIS:CG	2:C:109:VAL:HG21	2.43	0.54
2:F:36:MET:HA	2:F:39:VAL:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:58:LYS:NZ	1:Q:656:ARG:CG	2.71	0.54
1:Q:45:ILE:HD12	1:Q:48:ILE:HD12	1.89	0.54
1:Q:188:SER:O	1:Q:191:THR:OG1	2.22	0.54
1:Q:616:LEU:HD12	1:Q:635:VAL:CB	2.38	0.54
1:Q:896:SER:O	1:Q:908:TYR:CE2	2.61	0.54
1:Q:965:LEU:HD23	1:Q:966:GLU:HG3	1.90	0.54
1:Q:967:PRO:O	1:Q:990:LYS:NZ	2.26	0.54
1:Q:1184:GLU:HA	1:Q:1195:VAL:HA	1.90	0.54
1:I:142:ARG:HG2	1:I:143:PRO:HD2	1.90	0.54
1:I:1090:LEU:HD13	1:I:1132:SER:HB2	1.89	0.54
1:K:321:PRO:HB2	1:K:322:ARG:NH1	2.23	0.54
1:H:442:SER:O	1:H:446:HIS:ND1	2.23	0.53
1:J:93:LYS:HB2	1:J:97:ARG:HH12	1.73	0.53
1:J:112:ARG:HH21	1:I:259:SER:HB3	1.73	0.53
1:J:357:LEU:O	1:J:357:LEU:HD23	2.08	0.53
1:J:488:ARG:CD	1:J:491:PHE:CD2	2.80	0.53
1:L:229:ARG:NH1	1:L:258:LEU:HA	2.23	0.53
1:M:1186:ALA:HA	1:M:1193:TYR:CD1	2.43	0.53
1:M:1226:TYR:CD1	1:M:1233:GLU:HG2	2.42	0.53
1:M:1245:LYS:HG2	1:M:1246:LEU:H	1.71	0.53
1:O:484:MET:N	1:O:484:MET:SD	2.82	0.53
1:O:761:LEU:HA	1:O:767:GLY:HA2	1.90	0.53
1:Q:186:CYS:H	1:Q:248:GLN:HG3	1.72	0.53
1:Q:472:GLY:HA2	1:Q:487:PHE:CZ	2.43	0.53
1:Q:761:LEU:HD23	1:Q:762:LYS:O	2.08	0.53
1:Q:823:SER:OG	1:Q:832:PHE:HB2	2.08	0.53
1:I:663:GLN:HA	1:I:674:SER:HA	1.90	0.53
1:I:866:LYS:HE2	1:I:876:LEU:HB2	1.89	0.53
1:I:1110:GLN:HA	1:I:1122:GLY:HA2	1.89	0.53
1:K:438:ALA:HA	1:K:441:ARG:NH2	2.23	0.53
1:K:677:LEU:HD12	1:K:678:TRP:HD1	1.73	0.53
1:K:846:SER:HB2	1:K:857:PRO:HA	1.90	0.53
1:H:480:HIS:HB3	1:H:530:ASP:C	2.33	0.53
1:H:488:ARG:HG3	1:H:491:PHE:CD2	2.44	0.53
1:H:845:LEU:HD13	1:H:887:LEU:HD23	1.90	0.53
1:H:955:ASP:C	1:H:990:LYS:HG3	2.32	0.53
1:H:978:THR:O	1:H:985:LEU:CD2	2.57	0.53
1:H:1078:LYS:HG2	1:H:1079:THR:HG23	1.90	0.53
1:J:174:MET:SD	1:J:241:LEU:HD23	2.48	0.53
1:J:761:LEU:HD22	1:J:804:HIS:HB2	1.91	0.53
1:L:400:VAL:O	1:L:404:LYS:HG2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:159:TRP:CD1	1:M:159:TRP:H	2.25	0.53
1:M:367:LYS:NZ	1:M:436:GLU:OE2	2.41	0.53
1:M:748:GLU:HB2	1:M:804:HIS:HD2	1.73	0.53
2:B:10:MET:HG3	2:B:87:TYR:CE2	2.43	0.53
2:G:45:THR:O	2:G:48:MET:N	2.30	0.53
1:Q:244:LEU:HB2	1:Q:264:LEU:HA	1.90	0.53
1:Q:470:HIS:O	1:Q:474:HIS:ND1	2.41	0.53
1:Q:628:GLY:CA	1:Q:644:LEU:CD1	2.84	0.53
1:I:127:ARG:HD3	1:I:292:LEU:HG	1.90	0.53
1:K:336:ALA:N	1:K:340:ASN:OD1	2.41	0.53
1:K:475:LEU:HD23	1:K:487:PHE:CE1	2.43	0.53
1:K:541:ALA:HB1	1:K:545:PHE:CZ	2.43	0.53
1:K:680:LEU:HD22	1:K:697:LEU:H	1.73	0.53
1:K:757:HIS:CD2	1:K:772:VAL:HG12	2.43	0.53
1:K:1053:PHE:HB2	1:K:1059:ASP:HB2	1.90	0.53
1:J:813:PRO:CD	1:J:824:LYS:HB2	2.36	0.53
1:J:1056:GLU:HB2	1:J:1098:LEU:HD12	1.91	0.53
1:L:346:CYS:O	1:L:350:THR:OG1	2.21	0.53
1:M:70:GLU:O	1:M:73:VAL:HG22	2.08	0.53
1:M:478:ILE:HG13	1:M:479:GLU:H	1.74	0.53
1:M:623:ILE:HG23	1:M:644:LEU:CD2	2.38	0.53
1:M:685:PRO:HD2	1:M:690:SER:N	2.23	0.53
1:M:728:ALA:HA	1:M:736:PHE:HD1	1.73	0.53
1:M:887:LEU:HD13	1:M:889:ILE:HD11	1.88	0.53
1:M:936:SER:HA	1:M:949:ALA:O	2.08	0.53
1:O:224:ILE:O	1:O:228:LEU:HG	2.07	0.53
2:A:17:HIS:HA	2:A:20:LYS:HG2	1.90	0.53
1:Q:94:THR:O	1:Q:98:GLN:N	2.42	0.53
1:Q:284:SER:OG	1:Q:286:ASP:OD1	2.26	0.53
1:Q:456:ASP:OD2	1:Q:583:ARG:NH1	2.42	0.53
1:I:502:ARG:HE	1:I:503:HIS:N	2.05	0.53
1:I:780:VAL:HG13	1:I:781:VAL:H	1.73	0.53
1:H:148:LEU:HD13	1:H:264:LEU:HG	1.91	0.53
1:H:388:LEU:HD22	1:H:449:ILE:HG12	1.90	0.53
1:H:562:LEU:HD13	1:H:577:ALA:HB1	1.90	0.53
1:J:354:GLU:CD	1:J:358:ASN:HD21	2.15	0.53
1:J:628:GLY:HA2	1:J:644:LEU:HG	1.89	0.53
1:L:44:GLU:HG3	1:L:48:ILE:HG13	1.90	0.53
1:L:276:SER:HA	1:M:122:LYS:HD3	1.91	0.53
1:L:354:GLU:HA	1:L:357:LEU:HD12	1.90	0.53
1:L:620:PHE:HA	1:L:887:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:52:LYS:HG2	1:M:57:GLY:HA2	1.89	0.53
1:M:563:ARG:NH2	1:M:1245:LYS:HD2	2.24	0.53
1:M:940:SER:N	1:M:946:ARG:HA	2.21	0.53
1:O:534:LYS:CE	1:O:538:LEU:HD13	2.38	0.53
1:Q:167:SER:HB3	1:Q:170:VAL:HG22	1.90	0.53
1:Q:449:ILE:HG23	1:Q:450:PRO:HD3	1.90	0.53
1:I:136:GLN:HA	1:I:139:LEU:HD13	1.89	0.53
1:I:382:PRO:HG3	1:I:463:LEU:HD13	1.89	0.53
1:I:1032:PHE:CD2	1:I:1032:PHE:C	2.86	0.53
1:K:167:SER:HB3	1:K:170:VAL:HG22	1.91	0.53
1:K:844:GLY:H	1:K:858:GLU:HB3	1.74	0.53
1:H:488:ARG:HG3	1:H:491:PHE:HD2	1.74	0.53
1:J:478:ILE:HG13	1:J:479:GLU:H	1.73	0.53
1:J:663:GLN:HB3	1:J:674:SER:CB	2.35	0.53
1:L:665:HIS:NE2	1:L:669:LEU:CA	2.72	0.53
1:O:260:CYS:SG	1:O:261:LYS:N	2.81	0.53
1:O:353:ILE:HD13	1:O:429:LEU:HD23	1.89	0.53
1:O:770:CYS:HB3	1:O:777:ARG:CZ	2.39	0.53
1:O:888:LYS:HG2	1:O:899:SER:HB2	1.89	0.53
2:C:68:ARG:HH21	2:C:71:GLN:HE22	1.56	0.53
1:Q:1053:PHE:CZ	1:Q:1098:LEU:HB2	2.43	0.53
1:I:883:ILE:HG22	1:I:902:ILE:HB	1.91	0.53
1:I:1022:ALA:HB3	1:I:1025:ALA:HB3	1.90	0.53
1:H:475:LEU:HD23	1:H:478:ILE:HD11	1.91	0.53
1:H:717:PHE:HB3	1:H:753:PHE:HD1	1.73	0.53
1:H:969:VAL:HG23	1:H:976:ASP:OD1	2.09	0.53
1:H:1184:GLU:HB2	1:H:1194:LEU:HB3	1.90	0.53
1:J:813:PRO:CD	1:J:824:LYS:CA	2.86	0.53
1:J:1024:SER:C	1:J:1026:PHE:H	2.16	0.53
1:J:1059:ASP:OD2	1:J:1061:LEU:HG	2.07	0.53
1:L:77:VAL:HG21	1:L:92:ILE:HG21	1.91	0.53
1:L:683:ASP:CB	1:L:693:SER:CB	2.84	0.53
1:L:1126:LEU:HD12	1:L:1130:ASN:HB3	1.91	0.53
1:M:480:HIS:CG	1:M:481:PRO:HD3	2.44	0.53
1:M:661:ASN:H	1:M:676:LYS:HA	1.72	0.53
1:M:728:ALA:HB2	1:M:735:ALA:HA	1.91	0.53
1:M:868:SER:HB2	1:M:873:TYR:CZ	2.44	0.53
1:M:948:ILE:HD12	1:M:957:ILE:HD11	1.91	0.53
1:Q:47:HIS:CE1	1:Q:60:ARG:HD3	2.44	0.53
1:Q:135:ARG:HA	1:Q:138:LEU:HD12	1.91	0.53
1:Q:928:VAL:HB	1:Q:1225:ILE:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:253:TRP:HA	1:I:256:PHE:HB2	1.90	0.53
1:I:834:TYR:H	1:I:872:ARG:HH21	1.56	0.53
1:I:867:ARG:HE	1:I:874:LEU:HG	1.73	0.53
1:K:458:LEU:HD13	1:K:491:PHE:HB3	1.89	0.53
1:K:857:PRO:HD2	1:K:866:LYS:HA	1.91	0.53
1:K:937:VAL:HB	1:K:949:ALA:HB3	1.90	0.53
1:K:1109:LEU:HD13	1:K:1144:ILE:HG12	1.90	0.53
1:K:1218:GLU:HB2	1:K:1237:ARG:HD3	1.89	0.53
1:H:711:ASN:O	1:H:713:LYS:N	2.42	0.53
1:H:956:GLU:CD	1:H:956:GLU:H	2.17	0.53
1:J:480:HIS:N	1:J:481:PRO:CD	2.71	0.53
1:J:622:LEU:CD1	1:J:663:GLN:HG2	2.39	0.53
1:J:715:VAL:CG1	1:J:727:GLU:HB3	2.38	0.53
1:J:716:ALA:O	1:J:727:GLU:HA	2.09	0.53
1:J:1052:GLN:C	1:J:1060:TYR:CZ	2.86	0.53
1:L:114:TYR:HD1	1:L:121:ALA:HB1	1.74	0.53
1:L:769:ARG:HB2	1:L:778:TYR:HB2	1.91	0.53
1:O:12:TYR:CD2	1:O:74:GLN:HG2	2.44	0.53
1:O:674:SER:N	1:O:682:PRO:HD2	2.23	0.53
2:E:26:VAL:HG23	2:E:72:HIS:CD2	2.44	0.53
1:Q:260:CYS:SG	1:Q:261:LYS:N	2.81	0.53
1:Q:620:PHE:HZ	1:Q:661:ASN:CA	2.20	0.53
1:Q:825:THR:CG2	1:Q:830:LEU:N	2.64	0.53
1:Q:985:LEU:HD12	1:Q:1000:ILE:HA	1.91	0.53
1:I:674:SER:H	1:I:682:PRO:HD2	1.73	0.53
1:I:725:LEU:CD1	1:I:772:VAL:HG11	2.39	0.53
1:I:732:LEU:HD12	1:I:736:PHE:CZ	2.44	0.53
1:I:1091:GLN:HG2	1:I:1103:SER:HA	1.91	0.53
1:K:79:GLU:OE1	1:K:79:GLU:N	2.42	0.53
1:H:117:ASN:HD22	1:H:162:LEU:HD22	1.74	0.53
1:H:475:LEU:HD13	1:H:483:ARG:HA	1.90	0.53
1:J:612:HIS:CD2	1:J:905:VAL:HG13	2.44	0.53
1:J:728:ALA:HA	1:J:735:ALA:CB	2.39	0.53
1:J:813:PRO:HD3	1:J:824:LYS:O	2.09	0.53
1:J:979:ARG:HG2	1:J:1009:ILE:HD13	1.85	0.53
1:L:174:MET:HE3	1:L:239:ASN:C	2.34	0.53
1:L:475:LEU:HA	1:L:478:ILE:HG12	1.91	0.53
1:L:762:LYS:HB2	1:L:764:MET:HE3	1.89	0.53
1:Q:620:PHE:CZ	1:Q:662:GLN:CA	2.92	0.53
1:Q:979:ARG:HH21	1:Q:1009:ILE:HB	1.74	0.53
1:I:521:LEU:O	1:I:525:LYS:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:921:CYS:SG	1:I:926:LYS:NZ	2.63	0.53
1:I:968:ASN:HD21	1:I:1009:ILE:HB	1.73	0.53
1:K:196:LEU:HD13	1:K:199:LEU:HD12	1.91	0.53
1:K:783:THR:O	1:K:785:ASN:N	2.42	0.53
1:H:90:SER:HB2	1:H:91:PRO:HD3	1.89	0.53
1:H:122:LYS:HE3	1:O:277:ALA:H	1.74	0.53
1:H:359:VAL:HG23	1:H:360:LEU:HD12	1.89	0.53
1:H:360:LEU:HB2	1:H:366:ARG:HE	1.74	0.53
1:J:117:ASN:HD21	1:J:120:PHE:HB3	1.74	0.53
1:J:663:GLN:HA	1:J:674:SER:HA	1.91	0.53
1:L:207:TRP:CD1	1:L:209:SER:HG	2.26	0.53
1:M:61:LEU:C	1:M:65:LEU:CD2	2.76	0.53
1:M:70:GLU:OE2	1:M:74:GLN:NE2	2.41	0.53
1:O:157:LYS:HD2	1:O:285:LEU:HD21	1.89	0.53
1:O:940:SER:HA	1:O:946:ARG:HG3	1.90	0.53
1:K:96:GLN:HG3	1:K:97:ARG:HD3	1.90	0.53
1:K:475:LEU:HD23	1:K:487:PHE:CD1	2.44	0.53
1:K:479:GLU:HB3	1:K:482:GLU:OE1	2.09	0.53
1:K:938:SER:HA	1:K:947:GLU:O	2.09	0.53
1:H:83:ILE:HD12	1:H:83:ILE:H	1.74	0.53
1:H:371:ARG:HH12	1:H:441:ARG:HD3	1.74	0.53
1:H:532:ASP:OD1	1:H:535:TYR:N	2.36	0.53
1:H:611:ARG:NH1	1:H:642:THR:OG1	2.42	0.53
1:H:623:ILE:HG23	1:H:644:LEU:HD21	1.91	0.53
1:H:822:ARG:HG3	1:H:836:VAL:C	2.34	0.53
1:J:656:ARG:NH1	1:J:680:LEU:HB2	2.24	0.53
1:J:1051:GLN:HG2	1:J:1091:GLN:OE1	2.09	0.53
1:M:235:LYS:N	1:M:238:GLU:OE2	2.42	0.53
1:M:1098:LEU:O	1:M:1099:MET:HE2	2.08	0.53
1:M:1106:TYR:HB2	1:M:1110:GLN:NE2	2.23	0.53
1:O:61:LEU:HD23	1:O:65:LEU:HD23	1.91	0.53
1:O:241:LEU:HA	1:O:261:LYS:O	2.08	0.53
1:O:287:HIS:HD2	1:O:289:SER:OG	1.92	0.53
1:O:845:LEU:CA	1:O:858:GLU:HB3	2.38	0.53
1:O:927:GLN:CD	1:O:968:ASN:HA	2.33	0.53
1:O:1143:TYR:CD1	1:O:1153:LEU:HD22	2.43	0.53
2:D:12:LYS:HA	2:D:15:ARG:HD3	1.89	0.53
2:D:92:ASN:OD1	2:D:93:ALA:N	2.42	0.53
2:F:26:VAL:HA	2:F:72:HIS:CD2	2.42	0.53
2:G:95:ARG:NH1	2:G:103:ALA:HB1	2.24	0.53
1:Q:110:ARG:HA	1:Q:113:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:34:ASP:O	1:I:36:PRO:HD3	2.09	0.53
1:K:72:MET:HE1	1:K:75:LYS:NZ	2.23	0.53
1:K:414:GLN:NE2	1:K:419:THR:HG23	2.24	0.53
1:K:521:LEU:O	1:K:525:LYS:HG2	2.09	0.53
1:K:1042:ASP:OD2	1:K:1060:TYR:CE1	2.61	0.53
1:K:1126:LEU:HD13	1:K:1128:ILE:O	2.09	0.53
1:J:39:ILE:HD12	1:J:76:PHE:HB2	1.91	0.52
1:J:106:TYR:CE2	1:J:171:GLN:CD	2.87	0.52
1:J:487:PHE:CB	1:J:489:MET:HE2	2.32	0.52
1:J:660:PHE:CD1	1:J:676:LYS:CE	2.92	0.52
1:L:36:PRO:HD2	1:L:39:ILE:HG21	1.91	0.52
1:L:44:GLU:OE2	1:L:60:ARG:HD3	2.08	0.52
1:L:274:PHE:HD2	1:L:275:LEU:HD22	1.74	0.52
1:L:988:ASP:OD1	1:L:989:SER:N	2.41	0.52
1:L:1013:HIS:CE1	1:L:1056:GLU:HA	2.44	0.52
1:M:125:VAL:HB	1:M:300:LEU:HD13	1.90	0.52
1:O:90:SER:OG	1:O:91:PRO:HD3	2.08	0.52
1:O:432:LYS:HD2	1:O:433:LEU:HD23	1.91	0.52
1:O:928:VAL:HB	1:O:1225:ILE:HG21	1.90	0.52
1:Q:630:ILE:HD12	1:Q:644:LEU:HG	1.91	0.52
1:I:969:VAL:O	1:I:990:LYS:HE2	2.09	0.52
1:K:331:ILE:HG12	1:K:336:ALA:O	2.09	0.52
1:K:537:ARG:HD2	1:K:538:LEU:N	2.24	0.52
1:K:1071:ALA:HB3	1:K:1076:ALA:HB3	1.91	0.52
1:H:90:SER:O	1:H:94:THR:OG1	2.23	0.52
1:H:824:LYS:HG2	1:H:831:ILE:HG12	1.90	0.52
1:H:1148:ASP:HB2	1:H:1150:LYS:NZ	2.23	0.52
1:J:978:THR:O	1:J:985:LEU:HD12	2.09	0.52
1:J:1054:ILE:HG21	1:J:1070:VAL:H	1.74	0.52
1:L:610:GLY:HA2	1:L:906:ASP:O	2.09	0.52
1:L:803:LEU:HB2	1:L:816:LEU:HB2	1.91	0.52
1:L:1019:LYS:NZ	1:L:1060:TYR:OH	2.36	0.52
1:L:1136:LYS:HD3	1:L:1141:GLU:HB2	1.90	0.52
1:M:131:TYR:HE1	1:M:164:VAL:HA	1.73	0.52
1:O:696:GLN:HG2	2:N:57:GLY:HA2	1.91	0.52
1:O:1229:GLU:O	1:O:1231:VAL:HG23	2.09	0.52
2:A:19:ARG:HA	2:A:22:LEU:HG	1.90	0.52
1:Q:447:TYR:HB2	1:Q:478:ILE:HG21	1.90	0.52
1:Q:644:LEU:HD23	1:Q:897:ASN:OD1	2.08	0.52
1:I:21:ASP:N	1:I:21:ASP:OD1	2.42	0.52
1:I:534:LYS:HZ3	1:I:538:LEU:CD1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:660:PHE:HB3	1:I:663:GLN:HE21	1.75	0.52
1:K:749:GLN:HG2	1:K:760:VAL:HG13	1.91	0.52
1:K:844:GLY:C	1:K:845:LEU:HD12	2.33	0.52
1:H:51:SER:HB3	1:H:60:ARG:HE	1.75	0.52
1:H:254:ASN:HD21	1:H:274:PHE:HZ	1.58	0.52
1:H:634:ASP:H	1:H:638:GLU:HG3	1.75	0.52
1:H:785:ASN:CG	1:H:836:VAL:HG21	2.35	0.52
1:H:1226:TYR:CZ	1:H:1233:GLU:HG2	2.45	0.52
1:J:658:ALA:HB3	1:J:676:LYS:HD2	1.91	0.52
1:J:854:VAL:HG13	1:J:867:ARG:O	2.08	0.52
1:L:65:LEU:HG	1:L:73:VAL:HG12	1.90	0.52
1:M:479:GLU:HB3	1:M:482:GLU:OE1	2.09	0.52
1:M:499:GLN:NE2	1:M:500:LYS:HG3	2.24	0.52
1:M:940:SER:HB3	1:M:947:GLU:HB2	1.90	0.52
1:O:174:MET:HE2	1:O:178:ILE:HG13	1.90	0.52
1:O:617:HIS:N	1:O:904:CYS:SG	2.82	0.52
1:O:806:PHE:CD1	1:O:813:PRO:HD3	2.44	0.52
1:O:1185:ILE:HD13	1:O:1226:TYR:HE1	1.74	0.52
2:N:62:MET:SD	2:N:66:ASP:HB3	2.48	0.52
2:F:69:VAL:O	2:F:73:ARG:N	2.40	0.52
1:I:229:ARG:NH2	1:I:257:ASN:O	2.39	0.52
1:K:64:THR:O	1:K:68:LYS:CE	2.57	0.52
1:K:143:PRO:HA	1:K:261:LYS:HG2	1.91	0.52
1:K:399:MET:HA	1:K:402:VAL:HG22	1.92	0.52
1:K:1030:GLN:HB3	1:K:1032:PHE:CZ	2.44	0.52
1:K:1061:LEU:HD11	1:K:1090:LEU:CA	2.38	0.52
1:H:77:VAL:HG21	1:H:92:ILE:HG21	1.91	0.52
1:H:660:PHE:CZ	1:H:677:LEU:HG	2.44	0.52
1:H:726:PRO:HA	1:H:737:ILE:O	2.09	0.52
1:H:1221:LYS:HD3	1:H:1237:ARG:HD2	1.92	0.52
1:J:241:LEU:HD13	1:J:261:LYS:O	2.08	0.52
1:J:715:VAL:CG1	1:J:727:GLU:OE1	2.56	0.52
1:J:1052:GLN:C	1:J:1060:TYR:OH	2.52	0.52
1:L:146:ASN:HB3	1:L:262:ILE:HG13	1.91	0.52
1:M:437:TYR:CE1	1:M:439:LEU:HB3	2.45	0.52
1:M:441:ARG:HA	1:M:444:VAL:HG12	1.91	0.52
1:M:940:SER:O	1:M:946:ARG:N	2.42	0.52
1:O:533:PRO:O	1:O:537:ARG:CG	2.57	0.52
1:O:1042:ASP:HB3	1:O:1062:LYS:HD3	1.90	0.52
2:D:86:ALA:O	2:D:90:LEU:N	2.41	0.52
2:G:40:GLN:HA	1:Q:84:ASN:ND2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:43:ILE:HG21	2:G:82:ARG:NH2	2.24	0.52
1:Q:12:TYR:CE2	1:Q:73:VAL:HG12	2.43	0.52
1:Q:302:LEU:HD21	1:Q:308:ARG:HA	1.90	0.52
1:I:26:ASN:O	1:I:85:TYR:OH	2.27	0.52
1:I:807:ASN:ND2	1:I:808:VAL:HG22	2.25	0.52
1:I:824:LYS:HA	1:I:831:ILE:HA	1.91	0.52
1:I:833:LYS:HD2	1:I:870:ASP:H	1.74	0.52
1:I:929:VAL:HG13	1:I:971:LEU:HA	1.91	0.52
1:I:1052:GLN:C	1:I:1058:ILE:HA	2.34	0.52
1:K:153:LEU:HB2	1:K:267:ARG:NH1	2.25	0.52
1:H:53:ASP:OD2	1:H:56:SER:N	2.35	0.52
1:H:898:VAL:HG22	1:H:900:GLU:OE2	2.10	0.52
1:H:978:THR:H	1:H:985:LEU:HD13	1.75	0.52
1:L:614:VAL:HB	1:L:904:CYS:O	2.09	0.52
1:L:855:GLN:OE1	1:L:856:LEU:N	2.43	0.52
1:M:341:TRP:CZ3	1:M:342:LYS:HD2	2.45	0.52
1:O:786:CYS:H	1:O:817:ASP:HA	1.73	0.52
1:O:1180:ILE:O	1:O:1220:ARG:HG2	2.09	0.52
2:D:18:ILE:HD11	2:D:87:TYR:HE1	1.73	0.52
2:F:17:HIS:CE1	2:F:106:LEU:HA	2.44	0.52
1:I:970:TYR:CE1	1:I:991:GLU:CG	2.84	0.52
1:K:12:TYR:HE1	1:K:96:GLN:HG2	1.73	0.52
1:K:44:GLU:O	1:K:48:ILE:HD12	2.09	0.52
1:K:81:LEU:HD21	1:K:88:LEU:HB2	1.91	0.52
1:K:717:PHE:HB3	1:K:751:GLN:CD	2.35	0.52
1:K:849:LEU:HD22	1:K:890:SER:HB3	1.92	0.52
1:H:142:ARG:HB3	1:H:145:LYS:HB2	1.91	0.52
1:H:851:SER:HB3	1:H:892:PRO:O	2.09	0.52
1:H:1109:LEU:HD13	1:H:1144:ILE:HD12	1.90	0.52
1:J:101:MET:O	1:J:105:MET:CG	2.53	0.52
1:J:353:ILE:HD13	1:J:430:LYS:HB2	1.92	0.52
1:L:179:PHE:N	1:L:241:LEU:O	2.39	0.52
1:L:941:ASN:N	1:L:946:ARG:HB3	2.24	0.52
1:L:1070:VAL:HG23	1:L:1078:LYS:HD2	1.92	0.52
1:M:632:LEU:HG	1:M:640:GLU:HB3	1.92	0.52
1:O:196:LEU:HD13	1:O:221:ILE:HD11	1.92	0.52
1:O:480:HIS:HA	1:O:483:ARG:HH12	1.74	0.52
2:E:93:ALA:O	2:E:97:ILE:HG12	2.09	0.52
2:F:62:MET:HE3	2:F:63:ASP:OD1	2.09	0.52
2:G:25:LEU:HG	2:G:102:ALA:HB1	1.91	0.52
2:G:64:GLU:HA	2:G:67:VAL:HB	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:129:GLN:HA	1:I:132:LEU:HD12	1.91	0.52
1:I:157:LYS:HG3	1:I:267:ARG:HH22	1.75	0.52
1:I:522:LYS:O	1:I:526:PRO:CD	2.57	0.52
1:I:787:THR:HG22	1:I:843:PRO:HG3	1.90	0.52
1:I:880:GLU:OE1	1:I:899:SER:OG	2.23	0.52
1:I:987:VAL:HA	1:I:999:ALA:CB	2.39	0.52
1:K:81:LEU:HD23	1:K:89:MET:HE3	1.91	0.52
1:K:174:MET:HE2	1:K:177:LYS:HB2	1.90	0.52
1:K:319:THR:H	1:K:323:ARG:HH11	1.54	0.52
1:K:672:ASN:O	1:K:683:ASP:HA	2.09	0.52
1:H:93:LYS:HB2	1:H:97:ARG:NH1	2.25	0.52
1:J:74:GLN:HB2	1:J:75:LYS:NZ	2.25	0.52
1:J:705:PHE:N	1:J:705:PHE:CD1	2.77	0.52
1:J:706:ILE:O	1:J:716:ALA:CB	2.41	0.52
1:L:132:LEU:HA	1:L:135:ARG:NH1	2.25	0.52
1:L:666:LEU:HD22	1:L:707:GLY:CA	2.12	0.52
1:L:1040:ILE:HD11	1:L:1077:GLN:HG3	1.91	0.52
1:M:175:ASP:CG	1:M:239:ASN:HD21	2.18	0.52
1:M:320:ASN:HB3	1:M:323:ARG:HB3	1.92	0.52
1:O:183:LEU:HD11	1:O:244:LEU:HD22	1.91	0.52
1:O:732:LEU:HG	1:O:734:VAL:H	1.74	0.52
1:O:934:LEU:HD13	1:O:1246:LEU:HD13	1.91	0.52
1:O:1224:LEU:HA	1:O:1235:CYS:HB2	1.92	0.52
2:A:47:GLN:NE2	2:A:51:ASN:HD22	2.08	0.52
2:A:67:VAL:O	2:A:71:GLN:HG3	2.09	0.52
2:A:73:ARG:HA	2:A:76:LEU:HB2	1.91	0.52
2:D:21:ASN:HD22	2:D:24:ILE:HD13	1.74	0.52
2:E:37:GLU:OE2	2:E:41:GLN:NE2	2.43	0.52
1:Q:216:ASN:HB2	1:Q:219:LEU:HB2	1.92	0.52
1:Q:354:GLU:HB3	1:Q:430:LYS:HG3	1.91	0.52
1:Q:620:PHE:HE2	1:Q:674:SER:OG	1.89	0.52
1:Q:771:PHE:O	1:Q:775:LEU:HD23	2.10	0.52
1:I:106:TYR:CE1	1:I:168:TYR:HA	2.45	0.52
1:I:752:GLU:OE1	1:I:757:HIS:HB3	2.09	0.52
1:I:1064:VAL:HG22	1:I:1105:LYS:HG3	1.92	0.52
1:K:183:LEU:HD12	1:K:247:VAL:HG22	1.91	0.52
1:K:425:ILE:HA	1:K:429:LEU:HD13	1.91	0.52
1:H:778:TYR:HB3	1:H:779:TYR:CD2	2.45	0.52
1:H:782:CYS:O	1:H:784:SER:N	2.43	0.52
1:H:1052:GLN:OE1	1:H:1058:ILE:CG1	2.54	0.52
1:H:1127:ASP:O	1:H:1129:ALA:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:97:ARG:HD2	1:L:98:GLN:NE2	2.25	0.52
1:L:100:SER:O	1:L:104:ARG:HG3	2.10	0.52
1:L:488:ARG:CG	1:L:491:PHE:HB2	2.40	0.52
1:L:966:GLU:N	1:L:967:PRO:HD3	2.24	0.52
1:L:1022:ALA:C	1:L:1024:SER:H	2.18	0.52
1:M:171:GLN:HB3	1:M:176:PHE:CD1	2.45	0.52
1:M:805:VAL:O	1:M:814:LEU:N	2.43	0.52
1:M:979:ARG:HA	1:M:985:LEU:HD23	1.92	0.52
1:M:1238:GLN:C	1:M:1240:LEU:H	2.17	0.52
1:O:170:VAL:HG22	1:O:173:LYS:HZ3	1.73	0.52
1:O:678:TRP:CD1	1:O:680:LEU:HG	2.45	0.52
2:C:70:GLU:HA	2:C:73:ARG:HH11	1.74	0.52
2:E:55:LEU:HD22	2:E:71:GLN:HG3	1.92	0.52
1:Q:134:LEU:HD21	1:Q:283:ILE:HG21	1.91	0.52
1:Q:437:TYR:CE1	1:Q:439:LEU:HB2	2.45	0.52
1:I:23:PHE:O	1:I:27:PHE:N	2.43	0.52
1:I:1111:GLU:N	1:I:1121:HIS:O	2.43	0.52
1:K:10:TYR:HB2	1:K:96:GLN:HE22	1.75	0.52
1:K:189:PRO:HA	1:K:192:VAL:HG22	1.92	0.52
1:K:475:LEU:HD12	1:K:478:ILE:HD11	1.92	0.52
1:K:624:ALA:HB3	1:K:629:GLN:H	1.74	0.52
1:H:93:LYS:HB2	1:H:97:ARG:HH12	1.75	0.52
1:H:1052:GLN:CD	1:H:1058:ILE:CG1	2.83	0.52
1:J:287:HIS:HB3	1:J:290:MET:HG2	1.92	0.52
1:L:150:ASP:HB3	1:L:266:THR:OG1	2.10	0.52
1:L:157:LYS:HD2	1:L:267:ARG:NH1	2.25	0.52
1:L:404:LYS:O	1:L:407:LYS:HG2	2.10	0.52
1:L:611:ARG:NH2	1:L:643:TYR:O	2.42	0.52
1:L:923:ALA:HB3	1:L:941:ASN:O	2.09	0.52
1:L:962:LYS:NZ	1:L:984:LEU:HB2	2.25	0.52
1:L:992:ARG:HD3	1:L:995:LEU:HG	1.92	0.52
1:M:148:LEU:O	1:M:283:ILE:N	2.42	0.52
2:D:87:TYR:HD1	2:D:90:LEU:HD21	1.75	0.52
1:Q:47:HIS:HE1	1:Q:60:ARG:HD3	1.75	0.52
1:Q:623:ILE:HG21	1:Q:892:PRO:HG3	1.92	0.52
1:I:968:ASN:HB3	1:I:990:LYS:CE	2.25	0.52
1:K:86:LYS:HA	1:K:89:MET:HE1	1.92	0.52
1:H:350:THR:HA	1:H:353:ILE:HG22	1.92	0.52
1:J:270:GLN:HB2	1:J:407:LYS:HG3	1.92	0.52
1:J:762:LYS:HG3	1:J:764:MET:CE	2.33	0.52
1:J:897:ASN:HB3	1:J:911:PHE:HZ	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:862:ILE:HG13	1:L:863:THR:H	1.75	0.52
1:L:1013:HIS:CD2	1:L:1056:GLU:N	2.77	0.52
1:M:277:ALA:HA	1:M:282:HIS:CE1	2.44	0.52
1:M:381:ILE:N	1:M:420:ILE:O	2.40	0.52
1:M:463:LEU:HD23	1:M:465:GLN:HG3	1.92	0.52
1:M:849:LEU:HB3	1:M:894:LEU:HD21	1.91	0.52
1:O:89:MET:SD	1:O:89:MET:N	2.80	0.52
1:O:270:GLN:HB2	1:O:407:LYS:HG3	1.91	0.52
2:N:70:GLU:OE2	2:N:73:ARG:NH1	2.43	0.52
2:D:100:LEU:HD12	2:D:103:ALA:HB3	1.92	0.52
2:F:44:LEU:HD21	2:F:78:LYS:HB3	1.91	0.52
2:G:15:ARG:NH1	2:G:80:THR:O	2.42	0.52
1:Q:376:PRO:HG2	1:Q:470:HIS:CE1	2.45	0.52
1:Q:623:ILE:HB	1:Q:897:ASN:HB2	1.92	0.52
1:Q:854:VAL:HG22	1:Q:868:SER:CB	2.40	0.52
1:Q:1109:LEU:HD13	1:Q:1144:ILE:HD13	1.91	0.52
1:I:110:ARG:NH1	1:I:111:ASP:OD1	2.43	0.52
1:I:786:CYS:O	1:I:843:PRO:HD3	2.10	0.52
1:I:1227:SER:HB3	1:I:1232:HIS:HB2	1.91	0.52
1:K:14:ASP:OD1	1:K:14:ASP:N	2.41	0.52
1:K:825:THR:HG22	1:K:832:PHE:CE2	2.45	0.52
1:H:659:VAL:O	1:H:677:LEU:HD12	2.11	0.51
1:H:882:LEU:HD12	1:H:900:GLU:C	2.35	0.51
1:H:898:VAL:HG23	1:H:908:TYR:CZ	2.45	0.51
1:H:978:THR:O	1:H:985:LEU:CD1	2.59	0.51
1:H:1019:LYS:CA	1:H:1029:GLU:HB3	2.39	0.51
1:J:241:LEU:HA	1:J:261:LYS:O	2.11	0.51
1:J:488:ARG:CG	1:J:491:PHE:HB2	2.17	0.51
1:L:52:LYS:HD3	1:L:56:SER:H	1.74	0.51
1:L:69:GLN:HE22	1:L:71:GLU:HB3	1.74	0.51
1:L:489:MET:N	1:L:489:MET:SD	2.83	0.51
1:O:219:LEU:HD23	1:O:220:ARG:HH11	1.75	0.51
1:O:326:ILE:HG21	1:O:349:LEU:HD21	1.92	0.51
1:Q:39:ILE:HA	1:Q:72:MET:CE	2.39	0.51
1:Q:83:ILE:HG13	1:Q:84:ASN:N	2.22	0.51
1:I:624:ALA:HB3	1:I:629:GLN:H	1.75	0.51
1:I:854:VAL:HA	1:I:869:THR:O	2.10	0.51
1:I:1069:LEU:O	1:I:1078:LYS:N	2.30	0.51
1:K:1060:TYR:C	1:K:1067:ASN:HB2	2.35	0.51
1:K:1061:LEU:HA	1:K:1067:ASN:HB3	1.92	0.51
1:H:340:ASN:O	1:H:345:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:521:LEU:HD23	1:H:646:ARG:NH2	2.26	0.51
1:H:771:PHE:HB3	1:H:774:VAL:HB	1.92	0.51
1:H:1109:LEU:HD11	1:H:1126:LEU:HD12	1.93	0.51
1:J:319:THR:OG1	1:J:323:ARG:HD3	2.10	0.51
1:J:642:THR:O	1:J:649:SER:HB2	2.09	0.51
1:J:1149:LEU:H	1:J:1180:ILE:HA	1.74	0.51
1:M:372:LEU:HA	1:M:375:PHE:CE2	2.44	0.51
1:M:896:SER:HA	1:M:910:LEU:HA	1.92	0.51
1:O:371:ARG:HD2	1:O:389:ILE:HG22	1.91	0.51
1:O:620:PHE:CE2	1:O:662:GLN:HA	2.45	0.51
2:F:17:HIS:CD2	2:F:109:VAL:HG11	2.45	0.51
1:Q:463:LEU:HB2	1:Q:467:PHE:CD1	2.46	0.51
1:Q:970:TYR:CG	1:Q:976:ASP:OD1	2.63	0.51
1:I:780:VAL:HG13	1:I:781:VAL:N	2.24	0.51
1:I:989:SER:H	1:I:993:ILE:CG2	2.24	0.51
1:K:538:LEU:O	1:K:542:ILE:HG12	2.10	0.51
1:K:985:LEU:HD12	1:K:1030:GLN:HE22	1.75	0.51
1:H:431:VAL:O	1:H:435:ASN:ND2	2.43	0.51
1:H:971:LEU:C	1:H:971:LEU:HD23	2.35	0.51
1:J:615:TYR:OH	1:J:636:SER:HA	2.09	0.51
1:J:762:LYS:N	1:J:762:LYS:CD	2.73	0.51
1:J:817:ASP:O	1:J:819:PHE:N	2.43	0.51
1:J:1051:GLN:C	1:J:1060:TYR:CE1	2.86	0.51
1:L:361:GLU:HB3	1:L:365:TYR:CE2	2.45	0.51
1:M:298:LYS:HA	1:M:301:LEU:HG	1.93	0.51
1:M:438:ALA:HA	1:M:440:HIS:CE1	2.45	0.51
1:M:719:LEU:HD21	1:M:751:GLN:HG3	1.93	0.51
1:O:274:PHE:HD2	1:O:275:LEU:HD22	1.74	0.51
1:O:326:ILE:HG12	1:O:345:ASN:HD21	1.74	0.51
1:O:1180:ILE:O	1:O:1220:ARG:CG	2.58	0.51
1:Q:44:GLU:O	1:Q:48:ILE:HG13	2.11	0.51
1:Q:708:SER:N	1:Q:715:VAL:O	2.41	0.51
1:Q:749:GLN:HG2	1:Q:760:VAL:HG13	1.93	0.51
1:Q:878:THR:HG23	1:Q:889:ILE:CB	2.39	0.51
1:Q:1130:ASN:ND2	1:Q:1145:VAL:O	2.41	0.51
1:I:152:VAL:O	1:I:157:LYS:NZ	2.29	0.51
1:I:285:LEU:HA	1:I:290:MET:HB3	1.92	0.51
1:K:844:GLY:N	1:K:858:GLU:HB3	2.25	0.51
1:K:887:LEU:C	1:K:888:LYS:HD3	2.36	0.51
1:H:232:LEU:HD12	1:H:237:TYR:HB3	1.91	0.51
1:H:476:LYS:CE	1:H:530:ASP:OD1	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:823:SER:HG	1:H:833:LYS:H	1.56	0.51
1:H:843:PRO:O	1:H:845:LEU:N	2.42	0.51
1:J:260:CYS:SG	1:J:261:LYS:N	2.84	0.51
1:J:357:LEU:HD13	1:J:430:LYS:HD2	1.91	0.51
1:J:488:ARG:CZ	1:J:491:PHE:HD2	2.20	0.51
1:J:1081:ILE:HG22	1:J:1083:GLN:HG3	1.92	0.51
1:L:117:ASN:ND2	1:L:120:PHE:HB3	2.25	0.51
1:L:1102:VAL:O	1:L:1102:VAL:HG23	2.10	0.51
1:M:101:MET:HE3	1:M:105:MET:HE3	1.92	0.51
1:O:62:PHE:HA	1:O:65:LEU:HG	1.93	0.51
1:O:758:VAL:HB	1:O:770:CYS:SG	2.51	0.51
2:N:17:HIS:HA	2:N:20:LYS:HZ3	1.74	0.51
2:D:32:GLU:HB2	2:D:36:MET:HE1	1.91	0.51
1:Q:85:TYR:O	1:Q:86:LYS:HG3	2.10	0.51
1:I:35:MET:HA	1:I:40:LEU:HD23	1.91	0.51
1:I:525:LYS:HG2	1:I:526:PRO:HD3	1.89	0.51
1:I:638:GLU:HG2	1:I:654:ILE:HA	1.92	0.51
1:I:811:ASP:O	1:I:826:ALA:N	2.43	0.51
1:I:938:SER:CB	1:I:967:PRO:O	2.54	0.51
1:K:437:TYR:OH	1:K:440:HIS:HB2	2.09	0.51
1:H:879:SER:O	1:H:888:LYS:NZ	2.40	0.51
1:J:142:ARG:HH21	1:K:10:TYR:HA	1.76	0.51
1:J:167:SER:HB3	1:J:170:VAL:HB	1.91	0.51
1:J:806:PHE:CE1	1:J:813:PRO:CA	2.94	0.51
1:L:199:LEU:O	1:L:202:GLN:NE2	2.44	0.51
1:L:1131:PRO:HD2	1:L:1145:VAL:O	2.11	0.51
1:L:1149:LEU:H	1:L:1180:ILE:HG23	1.75	0.51
1:M:181:LEU:HD12	1:M:242:LEU:HD21	1.92	0.51
1:M:336:ALA:N	1:M:340:ASN:OD1	2.44	0.51
1:O:48:ILE:HD11	1:O:64:THR:HG21	1.92	0.51
1:O:895:ARG:C	1:O:911:PHE:H	2.18	0.51
2:D:25:LEU:O	2:D:29:THR:OG1	2.28	0.51
2:E:80:THR:OG1	2:E:81:GLN:OE1	2.23	0.51
1:K:765:GLN:HE21	1:K:817:ASP:CG	2.19	0.51
1:J:619:ASP:H	1:J:634:ASP:HA	1.76	0.51
1:J:1050:PRO:HB3	1:J:1061:LEU:N	2.16	0.51
1:L:221:ILE:HA	1:L:224:ILE:HG22	1.92	0.51
1:M:656:ARG:CZ	1:M:680:LEU:HB2	2.41	0.51
1:O:119:VAL:O	1:O:123:TYR:N	2.40	0.51
1:O:478:ILE:HG13	1:O:479:GLU:H	1.75	0.51
1:O:992:ARG:HB2	1:O:995:LEU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:86:ALA:O	2:C:90:LEU:N	2.29	0.51
1:Q:702:VAL:HG12	1:Q:705:PHE:CE2	2.42	0.51
1:Q:930:HIS:NE2	1:Q:1226:TYR:O	2.43	0.51
1:I:968:ASN:HD21	1:I:1009:ILE:CB	2.23	0.51
1:K:401:VAL:O	1:K:405:LEU:HG	2.10	0.51
1:H:131:TYR:HB3	1:H:135:ARG:HH21	1.75	0.51
1:H:174:MET:SD	1:H:241:LEU:HD23	2.50	0.51
1:H:469:SER:HA	1:H:523:PHE:CZ	2.46	0.51
1:H:483:ARG:HD3	1:H:530:ASP:O	2.10	0.51
1:H:975:MET:CA	1:H:988:ASP:O	2.42	0.51
1:H:984:LEU:HD23	1:H:984:LEU:C	2.36	0.51
1:H:1028:ASP:CB	1:H:1039:VAL:HA	2.39	0.51
1:J:106:TYR:HE2	1:J:171:GLN:CB	2.20	0.51
1:J:298:LYS:O	1:J:302:LEU:HD23	2.10	0.51
1:J:484:MET:HE2	1:J:484:MET:CA	2.40	0.51
1:J:829:LEU:N	1:J:829:LEU:HD13	2.26	0.51
1:L:30:LYS:NZ	1:L:49:ILE:HA	2.26	0.51
1:L:136:GLN:HA	1:L:139:LEU:HG	1.93	0.51
1:L:287:HIS:HD2	1:L:290:MET:H	1.58	0.51
1:L:643:TYR:CE2	1:L:648:GLU:HG3	2.45	0.51
1:M:63:TRP:HH2	1:M:128:LEU:HA	1.76	0.51
1:M:69:GLN:OE1	1:M:71:GLU:HG3	2.11	0.51
1:M:480:HIS:HB2	1:M:484:MET:HE1	1.93	0.51
1:M:496:PHE:HB2	1:M:561:LEU:HD22	1.92	0.51
1:M:629:GLN:C	1:M:644:LEU:HD21	2.35	0.51
1:O:320:ASN:ND2	1:O:323:ARG:H	2.08	0.51
1:O:443:ILE:HA	1:O:446:HIS:HB2	1.91	0.51
1:O:811:ASP:O	1:O:812:THR:OG1	2.21	0.51
2:C:58:LYS:N	2:C:59:PRO:HD2	2.26	0.51
1:Q:622:LEU:HD11	1:Q:665:HIS:CD2	2.45	0.51
1:Q:785:ASN:HB2	1:Q:820:ASP:OD2	2.10	0.51
1:I:182:ASN:HB2	1:I:184:LYS:HE2	1.92	0.51
1:I:1051:GLN:HG2	1:I:1057:PRO:HD2	1.93	0.51
1:K:657:MET:O	1:K:676:LYS:NZ	2.32	0.51
1:K:770:CYS:HA	1:K:778:TYR:H	1.74	0.51
1:K:894:LEU:HB3	1:K:911:PHE:HE2	1.75	0.51
1:K:1195:VAL:HB	1:K:1200:GLY:HA2	1.93	0.51
1:H:122:LYS:HD2	1:O:276:SER:HA	1.93	0.51
1:H:640:GLU:CG	1:H:652:SER:HA	2.41	0.51
1:H:956:GLU:OE1	1:H:988:ASP:HB3	2.10	0.51
1:H:966:GLU:O	1:H:978:THR:CG2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:403:ASN:HB3	1:J:404:LYS:NZ	2.26	0.51
1:J:411:VAL:HG23	1:J:422:ILE:HD13	1.92	0.51
1:J:665:HIS:HA	1:J:672:ASN:HB3	1.93	0.51
1:J:702:VAL:CG1	1:J:705:PHE:CE1	2.93	0.51
1:J:760:VAL:HG21	1:J:768:ILE:HG13	1.93	0.51
1:J:1050:PRO:O	1:J:1091:GLN:CD	2.54	0.51
1:L:81:LEU:HD11	1:L:88:LEU:HB3	1.93	0.51
1:L:232:LEU:HD11	1:L:260:CYS:HB2	1.93	0.51
1:M:367:LYS:O	1:M:371:ARG:HG2	2.11	0.51
1:M:1065:SER:HB3	1:M:1105:LYS:NZ	2.26	0.51
1:O:881:GLY:HA2	1:O:1239:LEU:HD22	1.93	0.51
1:O:977:MET:HB2	1:O:1009:ILE:HG21	1.93	0.51
2:A:26:VAL:HA	2:A:72:HIS:HD2	1.76	0.51
2:A:70:GLU:OE2	2:A:73:ARG:NH1	2.44	0.51
2:G:29:THR:HG22	2:G:99:CYS:HB3	1.92	0.51
1:Q:612:HIS:O	1:Q:614:VAL:N	2.44	0.51
1:I:106:TYR:OH	1:I:166:LEU:O	2.28	0.51
1:I:182:ASN:HA	1:I:245:LEU:HB3	1.92	0.51
1:K:499:GLN:HE22	1:K:516:ASN:HB2	1.74	0.51
1:K:558:TYR:CE2	1:K:581:VAL:HG23	2.37	0.51
1:K:679:SER:O	1:K:702:VAL:N	2.43	0.51
1:H:709:TYR:CD2	1:H:713:LYS:HD2	2.46	0.51
1:J:329:GLU:CD	1:J:332:ARG:HD3	2.35	0.51
1:J:478:ILE:HG13	1:J:479:GLU:N	2.25	0.51
1:J:1150:LYS:HD3	1:J:1150:LYS:N	2.25	0.51
1:J:1154:LEU:HD21	1:J:1166:PHE:CZ	2.46	0.51
1:L:669:LEU:CD2	1:L:669:LEU:N	2.73	0.51
1:L:712:LEU:HD23	1:L:713:LYS:HB2	1.93	0.51
1:L:1013:HIS:CE1	1:L:1056:GLU:N	2.79	0.51
1:M:617:HIS:O	1:M:634:ASP:HB3	2.09	0.51
2:A:37:GLU:OE2	2:A:40:GLN:NE2	2.44	0.51
1:Q:386:LEU:HA	1:Q:389:ILE:HG22	1.92	0.51
1:Q:412:GLU:O	1:Q:420:ILE:HG23	2.10	0.51
1:Q:628:GLY:C	1:Q:644:LEU:CD1	2.83	0.51
1:Q:640:GLU:N	1:Q:652:SER:HA	2.04	0.51
1:Q:1045:HIS:HD2	1:Q:1062:LYS:HG2	1.76	0.51
1:I:362:PRO:HB3	1:I:366:ARG:HE	1.76	0.51
1:I:663:GLN:O	1:I:664:LYS:HD3	2.11	0.51
1:I:980:GLU:HB2	1:I:984:LEU:HB2	1.92	0.51
1:K:31:ASP:N	1:K:33:GLN:HE22	2.09	0.51
1:K:133:LYS:HE3	1:K:283:ILE:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:463:LEU:HD13	1:H:467:PHE:CE1	2.46	0.51
1:H:680:LEU:CD2	1:H:696:GLN:HB3	2.41	0.51
1:H:709:TYR:HD2	1:H:713:LYS:HD2	1.75	0.51
1:H:1018:CYS:SG	1:H:1019:LYS:N	2.84	0.51
1:H:1094:ASP:HA	1:H:1135:VAL:HG21	1.93	0.51
1:L:406:HIS:ND1	1:L:411:VAL:O	2.43	0.51
1:L:816:LEU:HD12	1:L:846:SER:HB3	1.92	0.51
1:O:845:LEU:HB2	1:O:858:GLU:CA	2.38	0.51
2:N:19:ARG:NH1	2:N:20:LYS:HB3	2.26	0.51
2:B:89:LEU:O	2:B:93:ALA:N	2.35	0.51
2:E:55:LEU:HD21	2:E:70:GLU:HB2	1.92	0.51
2:E:58:LYS:N	2:E:59:PRO:HD2	2.26	0.51
2:F:45:THR:H	2:F:48:MET:HB3	1.75	0.51
1:Q:171:GLN:HB3	1:Q:176:PHE:CD1	2.46	0.51
1:Q:367:LYS:O	1:Q:371:ARG:HG2	2.11	0.51
1:I:380:HIS:HB2	1:I:465:GLN:NE2	2.26	0.51
1:I:475:LEU:HD23	1:I:487:PHE:CD1	2.46	0.51
1:K:149:ILE:HA	1:K:283:ILE:HB	1.92	0.51
1:K:155:SER:H	1:K:157:LYS:NZ	2.08	0.51
1:K:159:TRP:CD1	1:K:159:TRP:H	2.27	0.51
1:K:771:PHE:HB2	1:K:776:LYS:H	1.76	0.51
1:K:1083:GLN:OE1	1:K:1103:SER:OG	2.26	0.51
1:H:142:ARG:HB3	1:H:145:LYS:H	1.76	0.50
1:H:568:ALA:HB3	1:H:573:ILE:HD11	1.91	0.50
1:H:1052:GLN:CD	1:H:1058:ILE:HG13	2.35	0.50
1:J:71:GLU:HA	1:J:74:GLN:HG2	1.93	0.50
1:J:926:LYS:HE3	1:J:1225:ILE:HD12	1.92	0.50
1:L:900:GLU:OE1	1:L:900:GLU:N	2.45	0.50
1:L:1019:LYS:HB3	1:L:1050:PRO:HB2	1.93	0.50
1:M:1136:LYS:HD2	1:M:1190:LYS:HD3	1.93	0.50
1:Q:226:ALA:O	1:I:201:TYR:OH	2.24	0.50
1:Q:928:VAL:HG22	1:Q:937:VAL:HG12	1.93	0.50
1:Q:1010:THR:O	1:Q:1019:LYS:HG2	2.11	0.50
1:K:475:LEU:HD11	1:K:482:GLU:HB3	1.93	0.50
1:K:1135:VAL:HG12	1:K:1142:GLU:CD	2.37	0.50
1:H:127:ARG:HH11	1:H:296:GLU:HG3	1.76	0.50
1:J:480:HIS:CD2	1:J:481:PRO:HD3	2.46	0.50
1:J:706:ILE:HD11	1:J:750:ASP:O	2.10	0.50
1:J:822:ARG:HG2	1:J:834:TYR:CE1	2.47	0.50
1:J:965:LEU:HG	1:J:981:ARG:HH22	1.76	0.50
1:J:1019:LYS:HG2	1:J:1029:GLU:HG2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1049:LEU:N	1:J:1050:PRO:CD	2.72	0.50
1:L:260:CYS:SG	1:L:261:LYS:N	2.84	0.50
1:L:349:LEU:HA	1:L:352:ILE:HG12	1.93	0.50
1:L:537:ARG:HA	1:L:540:ASN:ND2	2.24	0.50
1:L:672:ASN:CG	1:L:684:CYS:SG	2.93	0.50
1:L:961:THR:CB	1:L:988:ASP:OD2	2.59	0.50
1:M:39:ILE:HD12	1:M:75:LYS:HB2	1.93	0.50
1:M:449:ILE:O	1:M:452:THR:OG1	2.27	0.50
1:O:952:HIS:ND1	1:O:1244:CYS:HB3	2.26	0.50
2:G:82:ARG:HG2	1:Q:87:PHE:CE2	2.46	0.50
1:Q:234:SER:HB2	1:Q:237:TYR:HB2	1.93	0.50
1:Q:818:VAL:HG12	1:Q:819:PHE:CD2	2.46	0.50
1:I:534:LYS:HE2	1:I:537:ARG:HH22	1.62	0.50
1:I:754:LYS:HB2	1:I:757:HIS:HD2	1.72	0.50
1:I:1136:LYS:HZ1	1:I:1189:ALA:HA	1.76	0.50
1:K:101:MET:HA	1:K:101:MET:CE	2.42	0.50
1:K:520:GLN:HA	1:K:523:PHE:CD2	2.46	0.50
1:K:989:SER:HB3	1:K:992:ARG:CZ	2.41	0.50
1:K:1136:LYS:HE3	1:K:1141:GLU:HB3	1.92	0.50
1:H:189:PRO:HB3	1:H:218:LYS:HD3	1.92	0.50
1:H:816:LEU:HD13	1:H:843:PRO:HG2	1.94	0.50
1:J:120:PHE:O	1:J:124:ASN:N	2.44	0.50
1:J:914:VAL:HA	1:J:917:TYR:CE2	2.45	0.50
1:J:929:VAL:HG21	1:J:936:SER:HB3	1.94	0.50
1:J:979:ARG:CD	1:J:1009:ILE:HD13	2.40	0.50
1:L:923:ALA:CB	1:L:942:SER:HA	2.35	0.50
1:M:199:LEU:O	1:M:202:GLN:HG2	2.11	0.50
1:M:380:HIS:ND1	1:M:421:SER:HB3	2.25	0.50
1:M:684:CYS:HA	1:M:691:GLY:H	1.76	0.50
1:O:174:MET:SD	1:O:241:LEU:HD23	2.52	0.50
1:O:219:LEU:O	1:O:222:HIS:NE2	2.44	0.50
1:O:380:HIS:ND1	1:O:421:SER:HB3	2.26	0.50
1:O:387:SER:HA	1:O:398:VAL:HG11	1.93	0.50
1:O:413:LYS:HG2	1:O:420:ILE:HG12	1.94	0.50
1:O:1203:LEU:HG	1:O:1204:ALA:H	1.76	0.50
2:F:71:GLN:HG2	2:F:74:ARG:NH2	2.27	0.50
1:Q:478:ILE:HG13	1:Q:479:GLU:H	1.76	0.50
1:Q:618:ASN:HD21	1:Q:906:ASP:N	2.09	0.50
1:Q:1180:ILE:HB	1:Q:1220:ARG:NH1	2.25	0.50
1:I:41:SER:N	1:I:44:GLU:OE2	2.45	0.50
1:I:135:ARG:NH1	1:I:136:GLN:HB2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:183:LEU:HB3	1:I:186:CYS:SG	2.51	0.50
1:K:54:ALA:HA	1:K:57:GLY:HA3	1.94	0.50
1:K:928:VAL:HB	1:K:1225:ILE:HG21	1.94	0.50
1:K:1061:LEU:CD1	1:K:1090:LEU:HA	2.41	0.50
1:H:83:ILE:O	1:H:86:LYS:NZ	2.44	0.50
1:H:683:ASP:N	1:H:694:LYS:HE2	2.25	0.50
1:H:849:LEU:HD21	1:H:866:LYS:HE3	1.93	0.50
1:J:40:LEU:HD12	1:J:44:GLU:CD	2.36	0.50
1:J:129:GLN:HB3	1:J:130:PRO:HD3	1.93	0.50
1:J:820:ASP:OD2	1:J:834:TYR:HD1	1.95	0.50
1:J:844:GLY:H	1:J:858:GLU:HB2	1.75	0.50
1:J:996:ILE:HG22	1:J:998:PRO:HG3	1.93	0.50
1:J:1062:LYS:NZ	1:J:1066:PRO:HB2	2.26	0.50
1:L:704:ARG:HB2	1:L:719:LEU:HB2	1.92	0.50
1:L:718:TYR:O	1:L:726:PRO:HD2	2.12	0.50
1:O:101:MET:N	1:O:104:ARG:HH21	2.10	0.50
1:O:132:LEU:O	1:O:135:ARG:HG2	2.11	0.50
1:O:374:VAL:HG21	1:O:446:HIS:CE1	2.46	0.50
1:O:666:LEU:N	1:O:671:CYS:O	2.33	0.50
1:O:727:GLU:O	1:O:736:PHE:N	2.45	0.50
1:O:845:LEU:C	1:O:858:GLU:HB3	2.36	0.50
1:O:1126:LEU:HD12	1:O:1130:ASN:OD1	2.11	0.50
1:O:1218:GLU:CG	1:O:1239:LEU:H	2.25	0.50
2:N:55:LEU:HD13	2:N:58:LYS:HG2	1.94	0.50
2:C:68:ARG:HH21	2:C:71:GLN:NE2	2.09	0.50
2:E:52:THR:C	2:E:74:ARG:HH12	2.20	0.50
1:Q:720:ASN:ND2	1:Q:726:PRO:HG3	2.26	0.50
1:Q:720:ASN:HD21	1:Q:726:PRO:HG3	1.75	0.50
1:Q:807:ASN:CG	1:Q:855:GLN:HE21	2.15	0.50
1:Q:887:LEU:O	1:Q:887:LEU:HG	2.11	0.50
1:Q:887:LEU:CB	1:Q:907:ILE:HG13	2.41	0.50
1:Q:990:LYS:H	1:Q:992:ARG:NH1	2.09	0.50
1:I:319:THR:HB	1:I:323:ARG:HD3	1.93	0.50
1:I:968:ASN:CB	1:I:990:LYS:HG3	2.35	0.50
1:I:1123:VAL:HG22	1:I:1154:LEU:HD13	1.93	0.50
1:I:1149:LEU:H	1:I:1180:ILE:HA	1.76	0.50
1:K:486:LEU:HD13	1:K:488:ARG:CZ	2.42	0.50
1:K:809:GLU:CD	1:K:811:ASP:HB3	2.36	0.50
1:K:825:THR:HG1	1:K:830:LEU:H	1.57	0.50
1:H:928:VAL:CB	1:H:1234:HIS:CD2	2.87	0.50
1:J:90:SER:O	1:J:94:THR:OG1	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:483:ARG:HG2	1:J:483:ARG:HH21	1.76	0.50
1:J:864:CYS:SG	1:J:888:LYS:NZ	2.84	0.50
1:L:135:ARG:O	1:L:169:LYS:NZ	2.45	0.50
1:L:757:HIS:HA	1:L:772:VAL:HG21	1.90	0.50
1:L:783:THR:CG2	1:L:822:ARG:HE	2.16	0.50
1:L:806:PHE:O	1:L:848:SER:OG	2.29	0.50
1:L:898:VAL:HG22	1:L:908:TYR:CD1	2.46	0.50
1:M:48:ILE:HG12	1:M:52:LYS:CE	2.42	0.50
1:M:136:GLN:HA	1:M:139:LEU:HD23	1.92	0.50
1:M:216:ASN:HB3	1:M:218:LYS:HG3	1.94	0.50
1:M:704:ARG:HD3	1:M:705:PHE:H	1.76	0.50
1:O:18:VAL:HG22	1:O:168:TYR:CE2	2.46	0.50
1:O:756:SER:HA	1:O:773:GLN:HE22	1.76	0.50
1:O:936:SER:HB2	1:O:950:TRP:CH2	2.46	0.50
2:B:87:TYR:HA	2:B:90:LEU:HD12	1.94	0.50
2:E:31:TYR:HA	2:E:72:HIS:ND1	2.26	0.50
2:F:11:PRO:HD2	2:F:14:HIS:ND1	2.27	0.50
2:G:13:ARG:HD3	2:G:109:VAL:HG22	1.93	0.50
1:Q:380:HIS:CD2	1:Q:465:GLN:HG2	2.47	0.50
1:Q:458:LEU:O	1:Q:460:PRO:HD3	2.12	0.50
1:Q:637:LEU:HD13	1:Q:658:ALA:H	1.75	0.50
1:Q:681:TRP:CE3	1:Q:705:PHE:CE1	2.99	0.50
1:Q:1045:HIS:CD2	1:Q:1062:LYS:HG2	2.47	0.50
1:I:193:LEU:O	1:I:197:GLN:HG2	2.12	0.50
1:I:480:HIS:O	1:I:483:ARG:HB3	2.12	0.50
1:I:646:ARG:HB3	1:I:648:GLU:HG3	1.92	0.50
1:I:785:ASN:ND2	1:I:818:VAL:O	2.44	0.50
1:I:995:LEU:HD13	1:I:995:LEU:O	2.11	0.50
1:I:1030:GLN:O	1:I:1030:GLN:HG3	2.12	0.50
1:K:360:LEU:HD12	1:K:365:TYR:HB2	1.93	0.50
1:K:666:LEU:HD13	1:K:730:ILE:HD13	1.93	0.50
1:H:175:ASP:OD1	1:H:239:ASN:ND2	2.45	0.50
1:L:129:GLN:HE22	1:L:290:MET:HE2	1.77	0.50
1:L:712:LEU:O	1:L:712:LEU:HG	2.07	0.50
1:L:1236:ILE:HB	1:L:1241:PHE:CE2	2.46	0.50
1:M:45:ILE:O	1:M:49:ILE:HG12	2.12	0.50
1:M:719:LEU:HB3	1:M:749:GLN:HB2	1.93	0.50
2:C:14:HIS:HB3	2:C:87:TYR:HE2	1.75	0.50
2:D:17:HIS:HA	2:D:20:LYS:HZ3	1.75	0.50
2:D:48:MET:HA	2:D:51:ASN:ND2	2.27	0.50
2:G:31:TYR:HB2	2:G:72:HIS:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:405:LEU:HG	1:Q:410:LEU:HB2	1.93	0.50
1:Q:679:SER:CB	1:Q:696:GLN:HE22	2.24	0.50
1:Q:704:ARG:CB	1:Q:704:ARG:HH11	2.24	0.50
1:Q:890:SER:OG	1:Q:898:VAL:CG2	2.60	0.50
1:I:405:LEU:CB	1:I:410:LEU:CD2	2.52	0.50
1:K:384:ILE:O	1:K:388:LEU:HG	2.11	0.50
1:K:632:LEU:HB2	1:K:640:GLU:HB3	1.94	0.50
1:K:675:VAL:HB	1:K:681:TRP:CZ2	2.47	0.50
1:H:1164:ASP:HB3	1:H:1166:PHE:CZ	2.47	0.50
1:H:1189:ALA:O	1:H:1190:LYS:HG2	2.12	0.50
1:J:104:ARG:O	1:J:107:ILE:HG22	2.11	0.50
1:J:132:LEU:HA	1:J:135:ARG:HH11	1.77	0.50
1:J:400:VAL:O	1:J:404:LYS:HG2	2.12	0.50
1:J:669:LEU:O	1:J:686:GLY:CA	2.58	0.50
1:J:1007:SER:OG	1:J:1021:ASN:O	2.29	0.50
1:L:326:ILE:HD11	1:L:348:LYS:HD2	1.94	0.50
1:L:660:PHE:HA	1:L:676:LYS:HG2	1.93	0.50
1:L:896:SER:HB2	1:L:908:TYR:OH	2.12	0.50
1:L:948:ILE:N	1:L:957:ILE:O	2.31	0.50
1:L:1029:GLU:HB3	1:L:1036:VAL:O	2.11	0.50
1:M:52:LYS:HZ3	1:M:60:ARG:HB3	1.75	0.50
1:M:623:ILE:HG12	1:M:630:ILE:HG12	1.93	0.50
1:O:683:ASP:H	1:O:692:GLY:CA	2.25	0.50
1:O:746:TRP:HA	1:O:749:GLN:NE2	2.27	0.50
1:O:1039:VAL:HG12	1:O:1041:ILE:HG13	1.93	0.50
1:O:1112:GLY:HA2	1:O:1120:ASP:HB2	1.94	0.50
2:A:23:ASN:HA	2:A:26:VAL:CG1	2.32	0.50
1:Q:384:ILE:O	1:Q:388:LEU:HG	2.11	0.50
1:Q:499:GLN:HE22	1:Q:516:ASN:HA	1.75	0.50
1:Q:934:LEU:HB2	1:Q:950:TRP:HE3	1.76	0.50
1:Q:939:GLY:HA2	1:Q:990:LYS:NZ	2.19	0.50
1:Q:1109:LEU:HD13	1:Q:1144:ILE:HG21	1.94	0.50
1:I:360:LEU:HB2	1:I:365:TYR:HD2	1.76	0.50
1:I:384:ILE:O	1:I:388:LEU:HG	2.12	0.50
1:I:447:TYR:O	1:I:450:PRO:HD2	2.12	0.50
1:I:768:ILE:HG12	1:I:777:ARG:CB	2.38	0.50
1:I:1018:CYS:C	1:I:1029:GLU:HG3	2.36	0.50
1:I:1049:LEU:HB2	1:I:1061:LEU:HB2	1.92	0.50
1:K:26:ASN:OD1	1:K:27:PHE:N	2.45	0.50
1:K:48:ILE:HG21	1:K:61:LEU:HD21	1.94	0.50
1:K:1143:TYR:HB3	1:K:1184:GLU:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:152:VAL:CG2	1:H:155:SER:HB2	2.41	0.50
1:H:441:ARG:HA	1:H:444:VAL:HG12	1.94	0.50
1:H:531:ASN:ND2	1:H:535:TYR:CG	2.79	0.50
1:H:666:LEU:HD12	1:H:671:CYS:H	1.76	0.50
1:H:771:PHE:HD2	1:H:776:LYS:O	1.95	0.50
1:H:833:LYS:HG2	1:H:872:ARG:NE	2.26	0.50
1:J:249:ASN:ND2	1:J:270:GLN:OE1	2.31	0.50
1:J:656:ARG:NH1	1:J:676:LYS:HB2	2.26	0.50
1:J:760:VAL:CG2	1:J:768:ILE:H	2.24	0.50
1:J:761:LEU:HB2	1:J:804:HIS:CD2	2.46	0.50
1:J:828:VAL:HB	1:J:829:LEU:HD13	1.92	0.50
1:L:27:PHE:HD1	1:L:85:TYR:CE2	2.30	0.50
1:L:207:TRP:HZ3	1:L:227:GLU:HG2	1.77	0.50
1:L:478:ILE:HG13	1:L:479:GLU:H	1.76	0.50
1:L:962:LYS:HE2	1:L:980:GLU:HB2	1.94	0.50
1:L:1234:HIS:CD2	1:L:1241:PHE:CE1	2.87	0.50
1:M:52:LYS:HZ3	1:M:61:LEU:H	1.58	0.50
1:M:180:TRP:HA	1:M:243:VAL:HG12	1.93	0.50
1:M:200:LEU:HD21	1:M:207:TRP:HB2	1.93	0.50
1:M:623:ILE:HG23	1:M:644:LEU:HD22	1.93	0.50
1:M:704:ARG:HB3	1:M:719:LEU:HB2	1.93	0.50
1:M:771:PHE:HB2	1:M:776:LYS:H	1.76	0.50
1:O:221:ILE:HA	1:O:224:ILE:HG22	1.94	0.50
1:O:618:ASN:HA	1:O:634:ASP:HA	1.92	0.50
1:O:769:ARG:O	1:O:778:TYR:N	2.34	0.50
1:O:1007:SER:CB	1:O:1047:THR:O	2.54	0.50
2:C:82:ARG:HH22	1:K:86:LYS:HB2	1.76	0.50
2:F:10:MET:HG3	2:F:87:TYR:HB2	1.93	0.50
2:G:63:ASP:O	2:G:67:VAL:HG23	2.11	0.50
1:Q:90:SER:OG	1:Q:91:PRO:HD3	2.12	0.50
1:Q:287:HIS:HB2	1:Q:290:MET:HG2	1.93	0.50
1:I:451:LYS:HD3	1:I:454:ASP:HB2	1.92	0.50
1:I:478:ILE:HG13	1:I:479:GLU:H	1.77	0.50
1:I:614:VAL:HG21	1:I:618:ASN:CG	2.37	0.50
1:I:804:HIS:HA	1:I:814:LEU:O	2.12	0.50
1:K:19:PHE:HZ	1:K:92:ILE:HG12	1.77	0.50
1:K:630:ILE:CG1	1:K:644:LEU:HD23	2.41	0.50
1:K:971:LEU:HD21	1:K:1013:HIS:C	2.36	0.50
1:K:1067:ASN:HD22	1:K:1091:GLN:HB2	1.77	0.50
1:H:12:TYR:CZ	1:H:96:GLN:HG2	2.46	0.50
1:H:529:CYS:SG	1:H:530:ASP:N	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1064:VAL:HA	1:H:1105:LYS:HE2	1.94	0.50
1:J:266:THR:HG21	1:J:272:THR:HB	1.93	0.50
1:J:620:PHE:HD1	1:J:887:LEU:CD1	2.10	0.50
1:J:752:GLU:HG2	1:J:757:HIS:CB	2.42	0.50
1:J:1066:PRO:HA	1:J:1081:ILE:O	2.12	0.50
1:L:964:CYS:SG	1:L:981:ARG:NH1	2.85	0.50
1:M:76:PHE:HA	1:M:80:VAL:HB	1.94	0.50
1:M:153:LEU:O	1:M:153:LEU:HG	2.11	0.50
1:M:563:ARG:HH22	1:M:1245:LYS:HD2	1.76	0.50
1:M:675:VAL:HB	1:M:681:TRP:CE2	2.47	0.50
1:O:167:SER:HB3	1:O:170:VAL:HB	1.93	0.50
2:C:48:MET:HA	2:C:51:ASN:HD21	1.77	0.50
1:Q:321:PRO:O	1:Q:325:SER:CB	2.60	0.50
1:Q:621:CYS:CB	1:Q:898:VAL:HG13	2.40	0.50
1:Q:673:GLY:CA	1:Q:683:ASP:HA	2.40	0.50
1:Q:814:LEU:HD23	1:Q:823:SER:HA	1.93	0.50
1:Q:837:TRP:CH2	1:Q:841:PHE:HB2	2.47	0.50
1:Q:878:THR:CG2	1:Q:889:ILE:HB	2.42	0.50
1:I:675:VAL:HG23	1:I:681:TRP:CE2	2.46	0.50
1:I:866:LYS:HE2	1:I:876:LEU:HD12	1.93	0.50
1:K:60:ARG:O	1:K:64:THR:CG2	2.35	0.50
1:K:117:ASN:HD22	1:K:162:LEU:HD21	1.76	0.50
1:K:485:THR:O	1:K:488:ARG:NH1	2.45	0.50
1:K:620:PHE:CZ	1:K:662:GLN:HG2	2.47	0.50
1:K:1151:ASN:CB	1:K:1166:PHE:CE2	2.95	0.50
1:H:192:VAL:O	1:H:196:LEU:HG	2.12	0.49
1:H:617:HIS:CB	1:H:635:VAL:HG23	2.23	0.49
1:J:48:ILE:CA	1:J:60:ARG:HH22	2.18	0.49
1:J:112:ARG:O	1:J:112:ARG:HD3	2.12	0.49
1:J:684:CYS:HA	1:J:691:GLY:HA2	1.93	0.49
1:J:718:TYR:CE1	1:J:728:ALA:HB2	2.45	0.49
1:J:808:VAL:HG21	1:J:851:SER:C	2.36	0.49
1:J:823:SER:OG	1:J:833:LYS:HB2	2.12	0.49
1:L:675:VAL:HG22	1:L:681:TRP:HE1	1.76	0.49
1:L:837:TRP:HA	1:L:867:ARG:HH22	1.76	0.49
1:L:843:PRO:HA	1:L:858:GLU:C	2.37	0.49
1:L:966:GLU:OE1	1:L:977:MET:HG3	2.11	0.49
1:L:1009:ILE:HD11	1:L:1020:ILE:CA	2.34	0.49
1:M:154:GLY:HA2	1:M:157:LYS:CE	2.42	0.49
1:O:523:PHE:C	1:O:527:TYR:HD2	2.20	0.49
1:O:525:LYS:CG	1:O:526:PRO:CD	2.84	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:658:ALA:HB3	1:O:676:LYS:HD2	1.94	0.49
1:O:845:LEU:CD2	1:O:862:ILE:HA	2.40	0.49
2:A:16:GLU:HA	2:A:19:ARG:NE	2.27	0.49
2:E:79:ILE:HG13	2:E:90:LEU:HD21	1.94	0.49
1:Q:142:ARG:NH2	1:I:112:ARG:HH21	2.10	0.49
1:Q:706:ILE:O	1:Q:717:PHE:HB2	2.11	0.49
1:Q:809:GLU:C	1:Q:811:ASP:N	2.70	0.49
1:K:64:THR:O	1:K:68:LYS:HE2	2.12	0.49
1:K:665:HIS:HA	1:K:672:ASN:HA	1.93	0.49
1:K:708:SER:HB3	1:K:715:VAL:HB	1.94	0.49
1:H:470:HIS:HB3	1:H:474:HIS:HE1	1.76	0.49
1:H:956:GLU:HA	1:H:990:LYS:CG	2.41	0.49
1:H:978:THR:O	1:H:985:LEU:HD22	2.12	0.49
1:H:1031:ILE:HG13	1:H:1036:VAL:HB	1.93	0.49
1:H:1187:GLN:HG3	1:H:1189:ALA:H	1.76	0.49
1:J:567:MET:SD	1:J:567:MET:N	2.84	0.49
1:J:895:ARG:NH2	1:J:912:ASP:OD2	2.38	0.49
1:L:196:LEU:HD12	1:L:228:LEU:HD12	1.94	0.49
1:L:683:ASP:H	1:L:692:GLY:N	2.10	0.49
1:L:1062:LYS:H	1:L:1066:PRO:CA	2.24	0.49
1:M:518:LEU:HD21	1:M:522:LYS:HZ1	1.77	0.49
1:M:668:THR:HB	1:M:670:HIS:CE1	2.48	0.49
1:M:1102:VAL:CG2	1:M:1110:GLN:O	2.60	0.49
1:O:253:TRP:CE2	1:O:257:ASN:HB3	2.47	0.49
1:O:1012:THR:O	1:O:1013:HIS:ND1	2.45	0.49
1:O:1065:SER:HB3	1:O:1084:LEU:H	1.76	0.49
2:C:93:ALA:O	2:C:97:ILE:HG12	2.12	0.49
2:F:95:ARG:NH2	2:F:100:LEU:HA	2.27	0.49
1:Q:371:ARG:HB3	1:Q:389:ILE:HG12	1.94	0.49
1:Q:704:ARG:NH1	1:Q:704:ARG:CB	2.73	0.49
1:Q:804:HIS:HA	1:Q:814:LEU:O	2.12	0.49
1:Q:935:ARG:NH1	1:Q:1233:GLU:O	2.44	0.49
1:Q:1019:LYS:NZ	1:Q:1021:ASN:HD21	2.10	0.49
1:I:153:LEU:HB3	1:I:267:ARG:HD3	1.94	0.49
1:I:989:SER:N	1:I:993:ILE:CG2	2.75	0.49
1:K:132:LEU:O	1:K:135:ARG:NH2	2.45	0.49
1:K:645:LEU:C	1:K:647:ASP:H	2.20	0.49
1:K:785:ASN:HB3	1:K:822:ARG:HH21	1.77	0.49
1:K:1029:GLU:O	1:K:1037:ASP:HA	2.11	0.49
1:H:406:HIS:HB2	1:H:411:VAL:O	2.12	0.49
1:H:611:ARG:HH21	1:H:630:ILE:HD12	1.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:695:GLN:CD	2:F:50:ARG:HH22	2.20	0.49
1:J:317:LEU:HD23	1:J:324:LEU:HD12	1.93	0.49
1:J:813:PRO:HG2	1:J:824:LYS:HG3	1.92	0.49
1:J:1050:PRO:O	1:J:1091:GLN:OE1	2.31	0.49
1:L:200:LEU:O	1:L:204:ASP:N	2.30	0.49
1:L:978:THR:HG22	1:L:987:VAL:CG2	2.42	0.49
1:L:1110:GLN:NE2	1:L:1110:GLN:CA	2.73	0.49
1:M:296:GLU:O	1:M:300:LEU:HD23	2.12	0.49
1:M:545:PHE:O	1:M:548:LYS:HG2	2.12	0.49
1:M:661:ASN:HB2	1:M:675:VAL:HG13	1.94	0.49
1:M:862:ILE:HG12	1:M:882:LEU:O	2.12	0.49
1:M:1051:GLN:HB2	1:M:1059:ASP:HB2	1.94	0.49
1:O:618:ASN:N	1:O:904:CYS:SG	2.83	0.49
2:A:12:LYS:HA	2:A:15:ARG:HD3	1.93	0.49
2:A:26:VAL:HA	2:A:72:HIS:CD2	2.47	0.49
1:Q:148:LEU:HD23	1:Q:282:HIS:ND1	2.27	0.49
1:Q:159:TRP:HA	1:Q:162:LEU:HD12	1.94	0.49
1:Q:623:ILE:HD13	1:Q:623:ILE:C	2.37	0.49
1:Q:704:ARG:HB3	1:Q:704:ARG:CZ	2.41	0.49
1:I:502:ARG:NH2	1:I:503:HIS:O	2.30	0.49
1:I:988:ASP:HA	1:I:1030:GLN:O	2.13	0.49
1:K:134:LEU:O	1:K:138:LEU:HG	2.12	0.49
1:K:321:PRO:HB2	1:K:322:ARG:HH11	1.76	0.49
1:K:503:HIS:HA	1:K:516:ASN:HD21	1.73	0.49
1:K:717:PHE:HA	1:K:727:GLU:HG2	1.94	0.49
1:K:1067:ASN:ND2	1:K:1091:GLN:CB	2.75	0.49
1:H:147:VAL:HG22	1:H:281:THR:HB	1.93	0.49
1:H:385:LEU:HD11	1:H:467:PHE:CE1	2.47	0.49
1:H:946:ARG:CZ	1:H:964:CYS:SG	3.01	0.49
1:H:1191:ILE:O	1:H:1191:ILE:HG22	2.12	0.49
1:J:113:LEU:HD11	1:J:162:LEU:HB3	1.93	0.49
1:J:155:SER:HA	1:J:321:PRO:HD2	1.92	0.49
1:J:175:ASP:CG	1:J:239:ASN:HD21	2.21	0.49
1:J:808:VAL:HG21	1:J:853:ALA:N	2.05	0.49
1:L:663:GLN:OE1	1:L:674:SER:CB	2.46	0.49
1:L:704:ARG:HH21	1:L:748:GLU:N	2.10	0.49
1:L:930:HIS:CE1	1:L:1234:HIS:HE2	2.23	0.49
1:M:488:ARG:HB2	1:M:494:PHE:HD2	1.78	0.49
1:M:940:SER:N	1:M:947:GLU:N	2.52	0.49
1:M:1053:PHE:CZ	1:M:1099:MET:HA	2.48	0.49
1:O:424:SER:O	1:O:427:LEU:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:661:ASN:ND2	1:O:676:LYS:O	2.45	0.49
1:O:823:SER:O	1:O:835:SER:HB2	2.12	0.49
1:O:987:VAL:N	1:O:997:LYS:O	2.45	0.49
2:B:10:MET:HE1	2:B:82:ARG:O	2.12	0.49
1:Q:624:ALA:CB	1:Q:629:GLN:HB2	2.40	0.49
1:Q:644:LEU:HD22	1:Q:895:ARG:HH22	1.77	0.49
1:I:21:ASP:O	1:I:25:ASP:N	2.40	0.49
1:I:480:HIS:CG	1:I:481:PRO:HD3	2.47	0.49
1:K:708:SER:OG	1:K:713:LYS:O	2.30	0.49
1:K:979:ARG:HG2	1:K:985:LEU:HD22	1.93	0.49
1:K:1090:LEU:HG	1:K:1092:PRO:HD3	1.93	0.49
1:H:94:THR:O	1:H:98:GLN:N	2.45	0.49
1:H:127:ARG:HD2	1:H:296:GLU:HG3	1.94	0.49
1:H:476:LYS:HE2	1:H:529:CYS:SG	2.44	0.49
1:H:751:GLN:NE2	1:H:753:PHE:CE1	2.81	0.49
1:H:938:SER:HB3	1:H:954:ALA:CB	2.39	0.49
1:H:992:ARG:HH11	1:H:992:ARG:CG	2.26	0.49
1:H:1010:THR:OG1	1:H:1011:PRO:CD	2.61	0.49
1:J:45:ILE:HA	1:J:48:ILE:HD13	1.94	0.49
1:J:112:ARG:HH21	1:I:229:ARG:HH12	1.60	0.49
1:J:134:LEU:HD13	1:J:164:VAL:HG11	1.93	0.49
1:J:284:SER:O	1:J:290:MET:HG3	2.13	0.49
1:J:723:ALA:HA	1:J:744:LEU:HD12	1.93	0.49
1:J:863:THR:HA	1:J:885:TYR:CZ	2.47	0.49
1:J:1153:LEU:HD21	1:J:1165:VAL:HB	1.95	0.49
1:J:1193:TYR:O	1:J:1195:VAL:HG23	2.12	0.49
1:L:542:ILE:O	1:L:546:LEU:HG	2.12	0.49
1:L:625:LEU:CD1	1:L:667:ILE:O	2.58	0.49
1:M:449:ILE:CG2	1:M:450:PRO:HD3	2.41	0.49
1:M:1021:ASN:HB3	1:M:1050:PRO:HB3	1.94	0.49
1:Q:73:VAL:HA	1:Q:76:PHE:CD2	2.47	0.49
1:Q:960:MET:HE2	1:Q:960:MET:N	2.26	0.49
1:Q:977:MET:HE3	1:Q:1018:CYS:SG	2.52	0.49
1:I:69:GLN:HE22	1:I:71:GLU:HB3	1.78	0.49
1:I:989:SER:N	1:I:993:ILE:HG21	2.27	0.49
1:H:660:PHE:CE2	1:H:677:LEU:HG	2.47	0.49
1:H:1031:ILE:CB	1:H:1036:VAL:HB	2.39	0.49
1:H:1149:LEU:O	1:H:1150:LYS:HB2	2.12	0.49
1:J:174:MET:CE	1:J:241:LEU:H	2.24	0.49
1:J:183:LEU:O	1:J:248:GLN:NE2	2.44	0.49
1:J:536:GLU:N	1:J:536:GLU:CD	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:414:GLN:NE2	1:L:419:THR:HG23	2.27	0.49
1:L:1234:HIS:N	1:L:1234:HIS:ND1	2.60	0.49
1:O:69:GLN:HE21	1:O:72:MET:HG3	1.77	0.49
1:O:148:LEU:HD13	1:O:280:THR:HB	1.95	0.49
1:O:681:TRP:HB2	1:O:695:GLN:HB2	1.94	0.49
1:O:1221:LYS:HD3	1:O:1224:LEU:HD11	1.95	0.49
2:N:70:GLU:HA	2:N:73:ARG:HH11	1.76	0.49
2:A:44:LEU:HD22	2:A:48:MET:HB3	1.95	0.49
2:F:94:LEU:HA	2:F:97:ILE:HB	1.93	0.49
2:G:91:ILE:HG23	2:G:95:ARG:NH1	2.27	0.49
2:G:101:ASP:N	2:G:101:ASP:OD1	2.42	0.49
1:Q:537:ARG:HG3	1:Q:538:LEU:N	2.28	0.49
1:Q:620:PHE:CZ	1:Q:661:ASN:N	2.80	0.49
1:Q:807:ASN:HB3	1:Q:809:GLU:OE2	2.12	0.49
1:Q:817:ASP:O	1:Q:819:PHE:N	2.45	0.49
1:Q:1144:ILE:HG22	1:Q:1145:VAL:H	1.77	0.49
1:Q:1185:ILE:HG22	1:Q:1194:LEU:O	2.12	0.49
1:Q:1239:LEU:C	1:Q:1241:PHE:H	2.21	0.49
1:I:128:LEU:O	1:I:132:LEU:HG	2.12	0.49
1:I:725:LEU:HD11	1:I:772:VAL:HG11	1.94	0.49
1:I:1153:LEU:HB2	1:I:1163:ILE:O	2.13	0.49
1:K:129:GLN:HB3	1:K:130:PRO:HD3	1.94	0.49
1:K:1021:ASN:HD21	1:K:1050:PRO:CG	2.24	0.49
1:K:1128:ILE:HD12	1:K:1148:ASP:HB2	1.94	0.49
1:H:115:ASN:OD1	1:O:279:THR:OG1	2.27	0.49
1:H:531:ASN:ND2	1:H:535:TYR:HB3	2.28	0.49
1:J:196:LEU:HG	1:J:221:ILE:HD11	1.94	0.49
1:J:620:PHE:CZ	1:J:662:GLN:CB	2.93	0.49
1:J:825:THR:O	1:J:832:PHE:CE2	2.65	0.49
1:J:946:ARG:CB	1:J:977:MET:SD	2.92	0.49
1:L:761:LEU:HD21	1:L:803:LEU:N	2.28	0.49
1:L:867:ARG:HA	1:L:875:LEU:H	1.76	0.49
1:L:964:CYS:H	1:L:981:ARG:HH11	1.60	0.49
1:M:319:THR:O	1:M:321:PRO:HD3	2.12	0.49
1:M:495:ARG:HH21	1:M:564:ILE:HD12	1.77	0.49
1:M:985:LEU:HB3	1:M:999:ALA:HB3	1.93	0.49
1:O:326:ILE:HD13	1:O:349:LEU:HG	1.95	0.49
1:O:481:PRO:O	1:O:484:MET:HE2	2.13	0.49
1:O:858:GLU:OE2	1:O:885:TYR:HB3	2.13	0.49
1:Q:656:ARG:HG2	1:Q:656:ARG:NH1	2.27	0.49
1:Q:678:TRP:O	1:Q:696:GLN:OE1	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:901:HIS:CE1	1:Q:903:GLU:HG2	2.47	0.49
1:I:499:GLN:HE22	1:I:500:LYS:HD3	1.76	0.49
1:I:822:ARG:HG2	1:I:834:TYR:CD1	2.48	0.49
1:I:1043:VAL:O	1:I:1045:HIS:N	2.46	0.49
1:I:1136:LYS:HB2	1:I:1143:TYR:HE1	1.78	0.49
1:K:824:LYS:HA	1:K:831:ILE:HA	1.95	0.49
1:H:614:VAL:HG23	1:H:633:THR:CG2	2.39	0.49
1:H:655:LEU:HD22	1:H:684:CYS:SG	2.52	0.49
1:H:771:PHE:CD2	1:H:776:LYS:O	2.65	0.49
1:H:1057:PRO:HA	1:H:1071:ALA:HA	1.94	0.49
1:J:195:MET:O	1:J:199:LEU:N	2.32	0.49
1:J:242:LEU:HB2	1:J:262:ILE:HG22	1.93	0.49
1:J:441:ARG:HA	1:J:444:VAL:HG12	1.95	0.49
1:J:453:PHE:HB3	1:J:462:TYR:CE1	2.46	0.49
1:J:744:LEU:C	1:J:744:LEU:HD22	2.38	0.49
1:L:623:ILE:HG12	1:L:630:ILE:HG12	1.95	0.49
1:L:672:ASN:ND2	1:L:684:CYS:SG	2.85	0.49
1:L:710:ALA:HB3	1:L:713:LYS:HB3	1.93	0.49
1:L:940:SER:N	1:L:946:ARG:HD2	2.28	0.49
1:M:174:MET:HE1	1:M:261:LYS:HB2	1.95	0.49
1:M:330:SER:O	1:M:340:ASN:ND2	2.45	0.49
1:O:656:ARG:HB3	1:O:657:MET:H	1.45	0.49
2:B:67:VAL:O	2:B:71:GLN:HG3	2.13	0.49
2:D:32:GLU:HG2	2:D:33:ARG:N	2.28	0.49
2:G:71:GLN:O	2:G:74:ARG:HB2	2.13	0.49
1:Q:181:LEU:HG	1:Q:242:LEU:HD11	1.93	0.49
1:Q:242:LEU:HB3	1:Q:262:ILE:HG22	1.93	0.49
1:Q:269:LYS:NZ	1:Q:411:VAL:O	2.46	0.49
1:Q:657:MET:O	1:Q:676:LYS:HB3	2.13	0.49
1:Q:808:VAL:HB	1:Q:851:SER:HA	1.95	0.49
1:Q:857:PRO:CD	1:Q:865:GLY:O	2.61	0.49
1:Q:989:SER:H	1:Q:992:ARG:HH11	1.59	0.49
1:I:369:PHE:O	1:I:372:LEU:HG	2.13	0.49
1:I:725:LEU:HD11	1:I:772:VAL:HG12	1.95	0.49
1:K:18:VAL:HG22	1:K:168:TYR:CE2	2.47	0.49
1:K:90:SER:O	1:K:93:LYS:HG2	2.13	0.49
1:K:643:TYR:HD2	1:K:645:LEU:O	1.96	0.49
1:K:834:TYR:H	1:K:872:ARG:NH1	2.11	0.49
1:H:649:SER:O	1:H:649:SER:OG	2.26	0.49
1:J:221:ILE:HA	1:J:224:ILE:HG22	1.95	0.49
1:J:656:ARG:NH2	1:J:674:SER:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:663:GLN:O	1:J:663:GLN:HG2	2.12	0.49
1:J:758:VAL:CG2	1:J:770:CYS:O	2.60	0.49
1:L:148:LEU:HD22	1:L:282:HIS:CD2	2.48	0.49
1:L:274:PHE:CD2	1:L:275:LEU:HD22	2.47	0.49
1:L:985:LEU:HD13	1:L:999:ALA:HB3	1.95	0.49
1:L:1059:ASP:OD2	1:L:1105:LYS:NZ	2.46	0.49
1:M:188:SER:OG	1:M:191:THR:HG23	2.12	0.49
1:M:524:TYR:OH	1:M:539:VAL:O	2.22	0.49
1:M:646:ARG:HH12	1:M:648:GLU:CD	2.20	0.49
1:M:977:MET:SD	1:M:987:VAL:HG22	2.53	0.49
1:M:1083:GLN:HE21	1:M:1083:GLN:CA	2.18	0.49
1:O:460:PRO:HG2	1:O:462:TYR:CZ	2.48	0.49
1:O:882:LEU:HA	1:O:885:TYR:CZ	2.48	0.49
1:O:1220:ARG:HD2	1:O:1220:ARG:N	2.16	0.49
1:Q:294:PRO:O	1:Q:298:LYS:HG2	2.12	0.49
1:Q:656:ARG:HG2	1:Q:656:ARG:HH11	1.78	0.49
1:I:214:SER:HA	1:I:220:ARG:NH1	2.27	0.49
1:I:491:PHE:HA	1:I:576:GLU:HG2	1.94	0.49
1:I:822:ARG:NE	1:I:834:TYR:HE1	2.11	0.49
1:I:990:LYS:CG	1:I:1011:PRO:HG3	2.43	0.49
1:I:1018:CYS:O	1:I:1029:GLU:HG3	2.12	0.49
1:K:85:TYR:O	1:K:89:MET:HE1	2.12	0.49
1:K:752:GLU:OE1	1:K:757:HIS:HB2	2.13	0.49
1:K:1049:LEU:N	1:K:1061:LEU:CD1	2.76	0.49
1:H:131:TYR:HE1	1:H:160:VAL:HG12	1.78	0.49
1:H:152:VAL:HG23	1:H:155:SER:HB2	1.93	0.49
1:H:386:LEU:HD11	1:H:402:VAL:HG11	1.94	0.49
1:H:624:ALA:HB3	1:H:629:GLN:H	1.77	0.49
1:J:127:ARG:NH2	1:J:292:LEU:HD12	2.28	0.49
1:J:502:ARG:HE	1:J:503:HIS:N	2.11	0.49
1:J:867:ARG:HE	1:J:874:LEU:HG	1.77	0.49
1:L:135:ARG:HA	1:L:138:LEU:HD12	1.95	0.49
1:L:806:PHE:CD2	1:L:810:ASN:HB3	2.48	0.49
1:L:1024:SER:HB3	1:L:1026:PHE:HE2	1.67	0.49
1:L:1049:LEU:HB2	1:L:1061:LEU:HD12	1.94	0.49
1:L:1098:LEU:HB3	1:L:1101:ASP:HB3	1.94	0.49
1:M:115:ASN:OD1	1:M:118:GLN:NE2	2.46	0.49
1:M:167:SER:HB3	1:M:170:VAL:HG23	1.95	0.49
1:O:610:GLY:HA2	1:O:906:ASP:O	2.13	0.49
1:O:771:PHE:HB2	1:O:775:LEU:N	2.26	0.49
2:N:104:VAL:HA	2:N:107:GLU:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:17:HIS:CE1	2:A:106:LEU:HD12	2.47	0.49
2:B:52:THR:HG22	2:B:75:LEU:HD22	1.94	0.49
1:Q:30:LYS:NZ	1:Q:48:ILE:HB	2.28	0.49
1:Q:150:ASP:N	1:Q:283:ILE:O	2.41	0.49
1:Q:443:ILE:HG13	1:Q:478:ILE:HG23	1.94	0.49
1:Q:621:CYS:SG	1:Q:888:LYS:HG3	2.53	0.49
1:Q:970:TYR:CD1	1:Q:976:ASP:CG	2.91	0.49
1:I:41:SER:HB3	1:I:44:GLU:HG3	1.95	0.49
1:I:57:GLY:HA2	1:I:60:ARG:CZ	2.42	0.49
1:I:199:LEU:HD13	1:I:202:GLN:NE2	2.24	0.49
1:I:229:ARG:O	1:I:233:LYS:HG2	2.13	0.49
1:I:410:LEU:HD12	1:I:411:VAL:HB	1.95	0.49
1:I:522:LYS:O	1:I:526:PRO:HG3	2.13	0.49
1:I:1192:SER:HB2	1:I:1230:GLU:OE2	2.13	0.49
1:K:1216:ALA:HB2	1:K:1221:LYS:HE3	1.94	0.49
1:H:320:ASN:HD21	1:H:322:ARG:HB2	1.77	0.48
1:H:841:PHE:CE1	1:H:843:PRO:HB3	2.42	0.48
1:J:120:PHE:HD1	1:J:159:TRP:CE3	2.31	0.48
1:J:180:TRP:HA	1:J:243:VAL:HG12	1.95	0.48
1:J:234:SER:HB2	1:J:237:TYR:CD2	2.48	0.48
1:L:188:SER:HB3	1:L:191:THR:HG23	1.95	0.48
1:L:1149:LEU:HD21	1:L:1167:ARG:HH21	1.77	0.48
1:M:517:THR:HA	1:M:520:GLN:OE1	2.13	0.48
1:O:287:HIS:HB3	1:O:290:MET:HE2	1.95	0.48
1:O:637:LEU:HD11	1:O:658:ALA:C	2.38	0.48
1:O:845:LEU:CB	1:O:858:GLU:HB3	2.42	0.48
1:O:985:LEU:HD22	1:O:1020:ILE:HD13	1.95	0.48
2:A:54:ASP:O	2:A:74:ARG:NH1	2.46	0.48
2:C:37:GLU:O	2:C:41:GLN:N	2.46	0.48
1:Q:806:PHE:CE1	1:Q:813:PRO:HG3	2.48	0.48
1:Q:891:ASP:HB2	1:Q:911:PHE:CZ	2.48	0.48
1:K:48:ILE:HG13	1:K:60:ARG:HG3	1.94	0.48
1:K:156:GLY:HA2	1:K:322:ARG:HH12	1.79	0.48
1:K:158:THR:HG22	1:K:245:LEU:HD11	1.95	0.48
1:K:197:GLN:HG3	1:K:201:TYR:CE2	2.47	0.48
1:K:299:SER:O	1:K:302:LEU:HG	2.13	0.48
1:K:687:ARG:O	1:K:689:HIS:NE2	2.46	0.48
1:J:414:GLN:OE1	1:J:414:GLN:N	2.46	0.48
1:J:727:GLU:HB2	1:J:739:GLY:HA3	1.95	0.48
1:J:989:SER:HB2	1:J:1018:CYS:HB3	1.94	0.48
1:L:386:LEU:HA	1:L:389:ILE:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:664:LYS:HB3	1:L:664:LYS:HZ3	1.77	0.48
1:L:665:HIS:HE1	1:L:670:HIS:N	2.11	0.48
1:M:227:GLU:O	1:M:230:ARG:HG2	2.13	0.48
1:M:381:ILE:O	1:M:420:ILE:N	2.46	0.48
1:M:866:LYS:O	1:M:875:LEU:HB2	2.13	0.48
2:N:13:ARG:O	2:N:16:GLU:HG3	2.12	0.48
2:D:61:ASN:OD1	2:D:62:MET:N	2.46	0.48
2:E:84:PRO:HA	1:I:87:PHE:CE1	2.47	0.48
1:Q:496:PHE:HB2	1:Q:561:LEU:HD22	1.94	0.48
1:Q:761:LEU:HB2	1:Q:804:HIS:NE2	2.29	0.48
1:Q:911:PHE:O	1:Q:914:VAL:HG13	2.12	0.48
1:Q:936:SER:HB3	1:Q:950:TRP:CH2	2.48	0.48
1:I:1112:GLY:HA3	1:I:1120:ASP:N	2.28	0.48
1:I:1136:LYS:HB3	1:I:1141:GLU:HB2	1.95	0.48
1:I:1136:LYS:N	1:I:1141:GLU:O	2.44	0.48
1:K:268:PHE:HB2	1:K:271:VAL:HG23	1.95	0.48
1:K:339:ASP:HA	1:K:343:HIS:ND1	2.28	0.48
1:K:785:ASN:HB3	1:K:822:ARG:HE	1.77	0.48
1:K:926:LYS:HD3	1:K:1225:ILE:HD12	1.95	0.48
1:K:1039:VAL:HG12	1:K:1041:ILE:CD1	2.42	0.48
1:H:989:SER:HB3	1:H:994:HIS:CA	2.36	0.48
1:J:959:VAL:HB	1:J:977:MET:HE1	1.94	0.48
1:J:990:LYS:HD3	1:J:1013:HIS:C	2.38	0.48
1:J:1133:ALA:HB2	1:J:1144:ILE:HG23	1.95	0.48
1:L:175:ASP:CG	1:L:239:ASN:HD21	2.21	0.48
1:L:750:ASP:C	1:L:758:VAL:HG23	2.37	0.48
1:L:889:ILE:HG13	1:L:898:VAL:HG21	1.95	0.48
1:M:127:ARG:HD3	1:M:130:PRO:HD2	1.94	0.48
1:M:250:ALA:H	1:M:270:GLN:NE2	2.06	0.48
1:M:542:ILE:O	1:M:546:LEU:HG	2.13	0.48
1:O:912:ASP:HB2	1:O:913:PRO:HD3	1.95	0.48
2:F:24:ILE:O	2:F:28:TRP:HE3	1.94	0.48
1:Q:192:VAL:O	1:Q:196:LEU:HD23	2.13	0.48
1:Q:372:LEU:HD11	1:Q:422:ILE:HG12	1.95	0.48
1:Q:620:PHE:HZ	1:Q:661:ASN:N	2.11	0.48
1:Q:628:GLY:N	1:Q:644:LEU:CD1	2.76	0.48
1:I:379:ALA:HB1	1:I:470:HIS:CE1	2.49	0.48
1:K:130:PRO:HA	1:K:133:LYS:HG2	1.94	0.48
1:K:247:VAL:HG21	1:K:264:LEU:HD23	1.95	0.48
1:K:812:THR:HA	1:K:824:LYS:O	2.13	0.48
1:K:929:VAL:CG1	1:K:971:LEU:HD23	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:148:LEU:HD11	1:H:266:THR:H	1.78	0.48
1:H:153:LEU:HD22	1:H:267:ARG:HG3	1.95	0.48
1:H:470:HIS:O	1:H:474:HIS:ND1	2.46	0.48
1:H:637:LEU:O	1:H:637:LEU:HD13	2.12	0.48
1:H:660:PHE:HB3	1:H:676:LYS:CB	2.34	0.48
1:H:975:MET:HG3	1:H:992:ARG:HB3	1.95	0.48
1:H:1141:GLU:HA	1:H:1154:LEU:O	2.14	0.48
1:H:1218:GLU:HB3	1:H:1238:GLN:OE1	2.13	0.48
1:J:20:GLU:HG3	1:J:62:PHE:CE2	2.48	0.48
1:J:85:TYR:CZ	1:J:87:PHE:HB3	2.48	0.48
1:J:131:TYR:CE1	1:J:135:ARG:HD2	2.48	0.48
1:J:1066:PRO:HG3	1:J:1082:PHE:CD2	2.48	0.48
1:L:522:LYS:HA	1:L:525:LYS:NZ	2.28	0.48
1:L:916:LYS:HE3	1:L:917:TYR:CE2	2.48	0.48
1:L:1024:SER:C	1:L:1026:PHE:H	2.21	0.48
1:L:1236:ILE:HB	1:L:1241:PHE:CD2	2.49	0.48
1:M:516:ASN:HD21	1:M:612:HIS:CD2	2.30	0.48
1:M:950:TRP:HB2	1:M:955:ASP:HB2	1.96	0.48
1:O:35:MET:HE1	1:O:40:LEU:HB3	1.94	0.48
1:O:92:ILE:HA	1:O:95:GLU:HG2	1.96	0.48
1:O:117:ASN:ND2	1:O:120:PHE:HB3	2.28	0.48
1:O:148:LEU:HD22	1:O:282:HIS:CD2	2.49	0.48
1:O:241:LEU:HD13	1:O:261:LYS:O	2.13	0.48
1:O:406:HIS:HD1	1:O:412:GLU:HA	1.77	0.48
1:O:1094:ASP:HA	1:O:1135:VAL:HG21	1.95	0.48
2:A:13:ARG:O	2:A:16:GLU:HG2	2.14	0.48
2:G:46:VAL:O	1:Q:32:VAL:HG22	2.13	0.48
1:Q:65:LEU:HD11	1:Q:73:VAL:HG22	1.94	0.48
1:Q:203:ILE:HG21	1:Q:231:LEU:HD13	1.96	0.48
1:Q:639:GLY:CA	1:Q:653:ASP:O	2.61	0.48
1:Q:727:GLU:HB2	1:Q:737:ILE:HB	1.95	0.48
1:Q:825:THR:OG1	1:Q:830:LEU:CD1	2.61	0.48
1:Q:1053:PHE:CE2	1:Q:1071:ALA:HA	2.48	0.48
1:I:22:ALA:O	1:I:25:ASP:HB3	2.13	0.48
1:I:130:PRO:O	1:I:134:LEU:HG	2.12	0.48
1:I:174:MET:HE3	1:I:239:ASN:C	2.39	0.48
1:I:684:CYS:HB3	1:I:685:PRO:CD	2.43	0.48
1:K:197:GLN:OE1	1:K:200:LEU:HD23	2.14	0.48
1:K:525:LYS:CG	1:K:526:PRO:HD3	2.43	0.48
1:H:483:ARG:O	1:H:487:PHE:HB2	2.14	0.48
1:H:1102:VAL:HG22	1:H:1111:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1110:GLN:HG2	1:H:1122:GLY:HA2	1.94	0.48
1:J:350:THR:HA	1:J:353:ILE:HG22	1.95	0.48
1:J:834:TYR:O	1:J:836:VAL:HG23	2.13	0.48
1:J:851:SER:HB2	1:J:894:LEU:HD22	1.94	0.48
1:J:910:LEU:HB3	1:J:913:PRO:HG2	1.95	0.48
1:J:1025:ALA:HB2	1:J:1047:THR:HG23	1.96	0.48
1:L:132:LEU:HA	1:L:135:ARG:HH12	1.78	0.48
1:L:716:ALA:HB3	1:L:718:TYR:CZ	2.48	0.48
1:M:30:LYS:H	1:M:30:LYS:HD2	1.78	0.48
1:M:131:TYR:CE1	1:M:164:VAL:HA	2.48	0.48
1:O:101:MET:HE3	1:O:105:MET:HE3	1.94	0.48
1:O:132:LEU:HA	1:O:135:ARG:HG2	1.95	0.48
1:O:970:TYR:CD2	1:O:975:MET:HE2	2.49	0.48
2:D:91:ILE:O	2:D:95:ARG:HD3	2.14	0.48
1:Q:20:GLU:HA	1:Q:62:PHE:HE2	1.77	0.48
1:Q:986:ALA:HA	1:Q:998:PRO:HA	1.95	0.48
1:I:373:SER:OG	1:I:435:ASN:ND2	2.46	0.48
1:I:774:VAL:O	1:I:774:VAL:HG12	2.14	0.48
1:I:912:ASP:HA	1:I:915:TYR:CE2	2.48	0.48
1:K:372:LEU:HA	1:K:375:PHE:HE2	1.79	0.48
1:K:533:PRO:HA	1:K:536:GLU:HB2	1.96	0.48
1:K:1010:THR:OG1	1:K:1011:PRO:HD3	2.13	0.48
1:H:660:PHE:C	1:H:676:LYS:CB	2.86	0.48
1:H:854:VAL:CG1	1:H:867:ARG:O	2.53	0.48
1:H:854:VAL:HG13	1:H:869:THR:H	1.78	0.48
1:H:956:GLU:OE2	1:H:990:LYS:HB2	2.13	0.48
1:J:33:GLN:HE22	2:D:47:GLN:HE21	1.61	0.48
1:J:532:ASP:CG	1:J:535:TYR:HB2	2.39	0.48
1:J:771:PHE:HB2	1:J:776:LYS:H	1.79	0.48
1:J:1233:GLU:O	1:J:1246:LEU:HB2	2.14	0.48
1:L:246:ASN:H	1:L:265:THR:HG23	1.79	0.48
1:L:440:HIS:HA	1:L:443:ILE:HG22	1.95	0.48
1:L:868:SER:OG	1:L:873:TYR:HB2	2.13	0.48
1:L:1008:THR:N	1:L:1021:ASN:HD21	2.07	0.48
1:M:52:LYS:NZ	1:M:60:ARG:HB3	2.29	0.48
1:M:175:ASP:OD2	1:M:239:ASN:ND2	2.44	0.48
1:M:365:TYR:OH	1:M:404:LYS:HD3	2.13	0.48
1:O:85:TYR:CG	1:O:88:LEU:HD22	2.48	0.48
1:O:93:LYS:HA	1:O:96:GLN:NE2	2.28	0.48
1:O:659:VAL:O	1:O:677:LEU:N	2.46	0.48
1:O:752:GLU:OE1	1:O:757:HIS:ND1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1236:ILE:HG23	1:O:1240:LEU:HA	1.94	0.48
2:N:74:ARG:HA	2:N:77:LEU:HD12	1.96	0.48
2:A:16:GLU:HA	2:A:19:ARG:CD	2.43	0.48
2:D:47:GLN:HE22	2:D:51:ASN:HD22	1.61	0.48
1:Q:175:ASP:CG	1:Q:239:ASN:HD21	2.22	0.48
1:Q:464:ASP:HA	1:Q:468:TYR:CD1	2.49	0.48
1:Q:469:SER:HA	1:Q:523:PHE:CZ	2.48	0.48
1:Q:615:TYR:HB2	1:Q:636:SER:OG	2.14	0.48
1:Q:634:ASP:O	1:Q:658:ALA:HB1	2.14	0.48
1:I:208:THR:HB	1:I:210:ARG:HH21	1.77	0.48
1:I:528:ILE:O	1:I:531:ASN:HB2	2.13	0.48
1:K:448:ASN:O	1:K:452:THR:HG23	2.14	0.48
1:H:115:ASN:HD21	1:O:144:ALA:HB1	1.78	0.48
1:H:664:LYS:HE2	1:H:718:TYR:HE2	1.79	0.48
1:H:975:MET:HE2	1:H:975:MET:HB2	1.67	0.48
1:H:1030:GLN:CA	1:H:1030:GLN:NE2	2.73	0.48
1:J:33:GLN:HG2	1:J:33:GLN:O	2.13	0.48
1:J:153:LEU:HD22	1:J:267:ARG:HD2	1.94	0.48
1:J:349:LEU:HB3	1:J:429:LEU:HD11	1.96	0.48
1:J:785:ASN:HB2	1:J:818:VAL:HB	1.96	0.48
1:J:918:ILE:HG22	1:J:920:LEU:H	1.79	0.48
1:J:1131:PRO:HD2	1:J:1145:VAL:O	2.14	0.48
1:L:350:THR:HG22	1:L:429:LEU:HB2	1.94	0.48
1:L:978:THR:O	1:L:985:LEU:HA	2.14	0.48
1:L:1022:ALA:C	1:L:1024:SER:N	2.70	0.48
1:M:35:MET:SD	1:M:40:LEU:HD22	2.53	0.48
1:M:874:LEU:O	1:M:876:LEU:N	2.47	0.48
1:M:1111:GLU:O	1:M:1120:ASP:N	2.47	0.48
1:O:1232:HIS:HB3	1:O:1245:LYS:HB3	1.96	0.48
2:C:14:HIS:HB3	2:C:87:TYR:CE2	2.48	0.48
1:Q:402:VAL:HG23	1:Q:413:LYS:HZ1	1.78	0.48
1:Q:445:ASP:O	1:Q:449:ILE:HG22	2.13	0.48
1:Q:675:VAL:CB	1:Q:681:TRP:HB2	2.41	0.48
1:I:486:LEU:HD13	1:I:488:ARG:CZ	2.44	0.48
1:I:977:MET:HE1	1:I:1020:ILE:HB	1.95	0.48
1:K:609:GLU:HG3	1:K:908:TYR:HB3	1.95	0.48
1:K:666:LEU:HD11	1:K:730:ILE:HG21	1.96	0.48
1:K:929:VAL:HG13	1:K:971:LEU:CD2	2.44	0.48
1:K:1048:ALA:HB3	1:K:1061:LEU:HD13	1.94	0.48
1:H:1092:PRO:HG2	1:H:1135:VAL:HG13	1.95	0.48
1:J:107:ILE:O	1:J:110:ARG:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:111:ASP:OD2	1:I:142:ARG:NH2	2.43	0.48
1:L:253:TRP:O	1:L:256:PHE:N	2.46	0.48
1:L:380:HIS:HD2	1:L:465:GLN:NE2	2.11	0.48
1:L:401:VAL:HA	1:L:404:LYS:HE2	1.95	0.48
1:L:730:ILE:O	1:L:732:LEU:N	2.47	0.48
1:M:136:GLN:CD	1:M:139:LEU:HD21	2.38	0.48
1:M:447:TYR:HB2	1:M:478:ILE:HD13	1.95	0.48
1:M:1233:GLU:N	1:M:1246:LEU:HD23	2.28	0.48
1:O:34:ASP:OD2	1:O:80:VAL:HG13	2.14	0.48
1:O:69:GLN:HG3	1:O:72:MET:HE2	1.96	0.48
1:O:109:GLN:O	1:O:113:LEU:HG	2.14	0.48
2:N:39:VAL:HG21	2:N:49:LEU:HD23	1.96	0.48
2:D:70:GLU:HA	2:D:73:ARG:HG2	1.95	0.48
1:Q:447:TYR:O	1:Q:450:PRO:HD2	2.13	0.48
1:Q:808:VAL:CG2	1:Q:851:SER:HA	2.44	0.48
1:Q:1186:ALA:HA	1:Q:1193:TYR:CD2	2.49	0.48
1:I:674:SER:O	1:I:681:TRP:HA	2.13	0.48
1:I:752:GLU:HG3	1:I:759:PRO:HD3	1.96	0.48
1:I:756:SER:HB2	1:I:771:PHE:HB3	1.95	0.48
1:K:293:THR:HG22	1:K:296:GLU:HG2	1.94	0.48
1:K:323:ARG:HA	1:K:326:ILE:HG22	1.95	0.48
1:K:405:LEU:HB3	1:K:410:LEU:HB2	1.95	0.48
1:K:702:VAL:HA	1:K:720:ASN:HA	1.95	0.48
1:K:845:LEU:O	1:K:858:GLU:HB2	2.14	0.48
1:H:193:LEU:HB2	1:H:221:ILE:HD11	1.96	0.48
1:J:51:SER:HB3	1:J:60:ARG:NH2	2.28	0.48
1:J:90:SER:OG	1:J:91:PRO:HD3	2.13	0.48
1:L:845:LEU:H	1:L:858:GLU:HB2	1.78	0.48
1:L:1013:HIS:CE1	1:L:1056:GLU:CA	2.97	0.48
1:M:18:VAL:HG13	1:M:168:TYR:CE2	2.49	0.48
1:M:235:LYS:O	1:M:238:GLU:HG2	2.13	0.48
1:M:463:LEU:HD21	1:M:465:GLN:NE2	2.23	0.48
1:M:682:PRO:CA	1:M:693:SER:HA	2.44	0.48
1:M:1104:THR:N	1:M:1109:LEU:HD13	2.29	0.48
1:Q:937:VAL:HG11	1:Q:1234:HIS:CE1	2.49	0.48
1:Q:1031:ILE:HD12	1:Q:1036:VAL:HB	1.96	0.48
1:Q:1184:GLU:HG3	1:Q:1195:VAL:HG13	1.96	0.48
1:I:77:VAL:O	1:I:89:MET:HG2	2.13	0.48
1:I:159:TRP:CD1	1:I:322:ARG:HH22	2.32	0.48
1:I:269:LYS:NZ	1:I:411:VAL:O	2.46	0.48
1:I:714:ILE:CG2	1:I:730:ILE:H	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:921:CYS:HB2	1:I:1242:SER:HB3	1.96	0.48
1:I:1225:ILE:HD11	1:I:1236:ILE:HD11	1.95	0.48
1:K:247:VAL:HB	1:K:271:VAL:HG11	1.95	0.48
1:K:980:GLU:N	1:K:984:LEU:O	2.36	0.48
1:H:621:CYS:HB3	1:H:900:GLU:OE1	2.11	0.48
1:H:621:CYS:SG	1:H:632:LEU:HD22	2.54	0.48
1:H:977:MET:CE	1:H:1018:CYS:SG	3.01	0.48
1:J:112:ARG:NH2	1:I:259:SER:HB3	2.29	0.48
1:J:542:ILE:O	1:J:546:LEU:HG	2.14	0.48
1:J:737:ILE:HG23	1:J:737:ILE:O	2.13	0.48
1:L:978:THR:CG2	1:L:987:VAL:N	2.72	0.48
1:L:1109:LEU:C	1:L:1109:LEU:CD1	2.85	0.48
1:M:117:ASN:O	1:M:119:VAL:N	2.46	0.48
1:M:706:ILE:HG13	1:M:717:PHE:HB2	1.94	0.48
1:M:930:HIS:CE1	1:M:1225:ILE:HD12	2.49	0.48
1:M:1029:GLU:OE2	1:M:1040:ILE:HD11	2.14	0.48
1:M:1048:ALA:HB3	1:M:1061:LEU:O	2.14	0.48
1:M:1104:THR:HA	1:M:1109:LEU:HD13	1.96	0.48
1:O:468:TYR:HE1	1:O:497:LEU:HB3	1.79	0.48
1:O:617:HIS:O	1:O:634:ASP:HB3	2.13	0.48
1:O:1040:ILE:HG21	1:O:1070:VAL:HG21	1.95	0.48
1:O:1067:ASN:HB3	1:O:1091:GLN:HE22	1.79	0.48
2:A:24:ILE:HA	2:A:28:TRP:CZ3	2.48	0.48
2:B:37:GLU:O	2:B:41:GLN:HG2	2.14	0.48
2:C:25:LEU:HD11	2:C:102:ALA:HB1	1.96	0.48
1:Q:353:ILE:HD11	1:Q:425:ILE:HG22	1.96	0.48
1:Q:781:VAL:HG21	1:Q:824:LYS:HE3	1.96	0.48
1:I:39:ILE:HD12	1:I:72:MET:HG3	1.96	0.48
1:I:980:GLU:HB2	1:I:984:LEU:N	2.29	0.48
1:K:20:GLU:HA	1:K:23:PHE:CD2	2.42	0.48
1:K:488:ARG:HG2	1:K:494:PHE:CD1	2.49	0.48
1:K:747:ASP:HB2	1:K:762:LYS:HA	1.96	0.48
1:H:676:LYS:N	1:H:676:LYS:CD	2.73	0.47
1:H:856:LEU:HB3	1:H:858:GLU:HG3	1.95	0.47
1:J:35:MET:CE	1:J:39:ILE:HG12	2.43	0.47
1:J:76:PHE:O	1:J:80:VAL:HB	2.14	0.47
1:J:106:TYR:HD2	1:J:176:PHE:CZ	2.30	0.47
1:J:131:TYR:CD1	1:J:135:ARG:HD2	2.49	0.47
1:J:1052:GLN:OE1	1:J:1052:GLN:N	2.47	0.47
1:M:716:ALA:O	1:M:727:GLU:HA	2.12	0.47
1:M:732:LEU:HD22	1:M:736:PHE:CZ	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1027:ASN:HB3	1:M:1040:ILE:HD12	1.96	0.47
1:M:1231:VAL:O	1:M:1231:VAL:HG12	2.14	0.47
1:O:268:PHE:O	1:O:272:THR:HG23	2.14	0.47
1:O:376:PRO:HG2	1:O:470:HIS:CD2	2.49	0.47
1:O:640:GLU:HG2	1:O:652:SER:HB2	1.95	0.47
2:B:62:MET:HE1	2:B:66:ASP:HB3	1.96	0.47
1:Q:102:MET:HE3	1:Q:176:PHE:CZ	2.49	0.47
1:Q:301:LEU:O	1:Q:306:ASP:N	2.47	0.47
1:Q:488:ARG:HG3	1:Q:491:PHE:CD2	2.42	0.47
1:Q:1085:GLU:O	1:Q:1108:SER:N	2.47	0.47
1:I:728:ALA:HA	1:I:736:PHE:CD1	2.49	0.47
1:I:980:GLU:CG	1:I:984:LEU:HB2	2.44	0.47
1:I:1102:VAL:HG11	1:I:1109:LEU:HD22	1.95	0.47
1:I:1216:ALA:HB1	1:I:1237:ARG:NE	2.29	0.47
1:K:480:HIS:CG	1:K:481:PRO:HD3	2.48	0.47
1:K:783:THR:O	1:K:822:ARG:NH2	2.47	0.47
1:K:1060:TYR:C	1:K:1067:ASN:CB	2.87	0.47
1:H:677:LEU:C	1:H:679:SER:N	2.70	0.47
1:H:719:LEU:HD21	1:H:751:GLN:CB	2.44	0.47
1:H:750:ASP:HB3	1:H:759:PRO:HD2	1.95	0.47
1:H:979:ARG:HH21	1:H:1008:THR:HG22	1.79	0.47
1:J:498:GLU:O	1:J:501:ILE:HG22	2.14	0.47
1:J:660:PHE:CE1	1:J:676:LYS:HE2	2.48	0.47
1:L:354:GLU:N	1:L:430:LYS:HZ1	2.12	0.47
1:L:379:ALA:HB1	1:L:470:HIS:CE1	2.49	0.47
1:L:719:LEU:HD13	1:L:749:GLN:HB3	1.96	0.47
1:L:940:SER:O	1:L:940:SER:OG	2.24	0.47
1:M:468:TYR:CE2	1:M:501:ILE:HD13	2.49	0.47
1:M:564:ILE:HA	1:M:567:MET:HE1	1.96	0.47
1:M:935:ARG:NE	1:M:1234:HIS:HE1	2.11	0.47
1:O:406:HIS:ND1	1:O:411:VAL:O	2.43	0.47
1:O:756:SER:O	1:O:778:TYR:OH	2.28	0.47
1:O:757:HIS:HA	1:O:778:TYR:HE2	1.79	0.47
1:O:845:LEU:HB3	1:O:858:GLU:O	2.14	0.47
1:Q:101:MET:HE2	1:Q:101:MET:HA	1.95	0.47
1:Q:270:GLN:N	1:Q:407:LYS:O	2.47	0.47
1:Q:841:PHE:HB2	1:Q:863:THR:HG21	1.95	0.47
1:I:229:ARG:CZ	1:I:258:LEU:HD13	2.44	0.47
1:K:294:PRO:C	1:K:298:LYS:HZ2	2.22	0.47
1:K:329:GLU:O	1:K:333:ASP:N	2.47	0.47
1:K:656:ARG:NE	1:K:682:PRO:HG3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:476:LYS:HG3	1:H:527:TYR:CD1	2.50	0.47
1:H:717:PHE:CG	1:H:753:PHE:HB2	2.49	0.47
1:H:759:PRO:HA	1:H:769:ARG:HG2	1.95	0.47
1:H:784:SER:OG	1:H:835:SER:O	2.28	0.47
1:H:926:LYS:HE3	1:H:937:VAL:CG1	2.44	0.47
1:H:954:ALA:HB1	1:H:976:ASP:CG	2.39	0.47
1:H:1000:ILE:CA	1:H:1020:ILE:CD1	2.86	0.47
1:H:1008:THR:HG23	1:H:1021:ASN:HB3	1.96	0.47
1:J:361:GLU:OE1	1:J:363:ALA:N	2.48	0.47
1:J:464:ASP:O	1:J:468:TYR:HB2	2.15	0.47
1:J:532:ASP:OD1	1:J:535:TYR:CB	2.57	0.47
1:J:721:GLU:HA	1:J:744:LEU:HD21	1.96	0.47
1:J:726:PRO:O	1:J:728:ALA:N	2.47	0.47
1:L:352:ILE:O	1:L:355:SER:OG	2.31	0.47
1:L:360:LEU:HD23	1:L:360:LEU:H	1.78	0.47
1:L:375:PHE:HE2	1:L:381:ILE:HD12	1.79	0.47
1:L:486:LEU:HA	1:L:488:ARG:NH1	2.29	0.47
1:L:1124:CYS:HB3	1:L:1127:ASP:HB2	1.95	0.47
1:M:26:ASN:OD1	1:M:27:PHE:N	2.47	0.47
1:M:279:THR:HG22	1:O:114:TYR:HB3	1.96	0.47
1:M:939:GLY:HA2	1:M:946:ARG:C	2.39	0.47
1:O:337:THR:HG1	1:O:338:TRP:CD1	2.32	0.47
1:O:837:TRP:HH2	1:O:845:LEU:O	1.96	0.47
2:A:24:ILE:HA	2:A:28:TRP:CE3	2.49	0.47
1:Q:136:GLN:OE1	1:Q:136:GLN:N	2.40	0.47
1:Q:620:PHE:HE1	1:Q:661:ASN:O	1.96	0.47
1:Q:732:LEU:HD22	1:Q:736:PHE:CZ	2.49	0.47
1:Q:821:GLU:HG3	1:Q:821:GLU:O	2.14	0.47
1:I:437:TYR:OH	1:I:440:HIS:HB2	2.14	0.47
1:I:483:ARG:HH21	1:I:527:TYR:C	2.22	0.47
1:I:488:ARG:HG3	1:I:491:PHE:HB2	1.96	0.47
1:I:812:THR:HG22	1:I:832:PHE:CE2	2.49	0.47
1:I:1019:LYS:HZ3	1:I:1052:GLN:CG	2.27	0.47
1:K:27:PHE:HB2	1:K:88:LEU:HD21	1.96	0.47
1:K:579:LYS:HE2	1:K:580:GLN:OE1	2.14	0.47
1:K:924:LYS:NZ	1:K:1222:VAL:HG11	2.28	0.47
1:H:229:ARG:CZ	1:H:258:LEU:HA	2.45	0.47
1:H:488:ARG:HB2	1:H:494:PHE:HB2	1.95	0.47
1:H:822:ARG:HG2	1:H:835:SER:HA	1.96	0.47
1:H:1060:TYR:HE2	1:H:1070:VAL:HB	1.79	0.47
1:J:171:GLN:O	1:J:174:MET:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:658:ALA:HB3	1:J:676:LYS:CG	2.45	0.47
1:J:661:ASN:ND2	1:J:676:LYS:O	2.47	0.47
1:J:745:ASN:N	1:J:745:ASN:HD22	2.11	0.47
1:J:949:ALA:HA	1:J:956:GLU:HA	1.96	0.47
1:J:1199:ASP:HB2	1:J:1215:PHE:HD2	1.80	0.47
1:L:177:LYS:HB2	1:L:179:PHE:CZ	2.49	0.47
1:L:179:PHE:HE2	1:L:240:CYS:HB2	1.79	0.47
1:L:260:CYS:HB3	1:L:262:ILE:HG23	1.95	0.47
1:L:443:ILE:HG13	1:L:478:ILE:CG2	2.44	0.47
1:M:227:GLU:HA	1:M:230:ARG:CZ	2.44	0.47
1:M:488:ARG:HB2	1:M:494:PHE:CD2	2.49	0.47
1:M:625:LEU:HD11	1:M:665:HIS:CE1	2.50	0.47
1:M:633:THR:HB	1:M:660:PHE:CD2	2.45	0.47
1:O:219:LEU:HA	1:O:222:HIS:CD2	2.49	0.47
1:O:703:LYS:HZ1	1:O:746:TRP:HD1	1.60	0.47
2:A:51:ASN:OD1	2:A:52:THR:N	2.47	0.47
2:D:58:LYS:O	2:D:60:PHE:N	2.47	0.47
2:G:17:HIS:CD2	2:G:106:LEU:HD12	2.50	0.47
1:Q:369:PHE:CZ	1:Q:426:TYR:HB3	2.47	0.47
1:Q:675:VAL:HB	1:Q:681:TRP:CB	2.44	0.47
1:I:229:ARG:NH2	1:I:258:LEU:HA	2.29	0.47
1:I:849:LEU:HG	1:I:857:PRO:HD3	1.94	0.47
1:I:989:SER:H	1:I:993:ILE:HG21	1.79	0.47
1:I:1019:LYS:NZ	1:I:1052:GLN:CG	2.78	0.47
1:I:1019:LYS:NZ	1:I:1052:GLN:HG3	2.29	0.47
1:I:1147:PHE:HA	1:I:1180:ILE:HG23	1.95	0.47
1:K:246:ASN:H	1:K:265:THR:HG23	1.79	0.47
1:H:106:TYR:HA	1:H:176:PHE:CE2	2.49	0.47
1:H:926:LYS:HA	1:H:938:SER:O	2.13	0.47
1:H:1031:ILE:HG13	1:H:1036:VAL:CB	2.45	0.47
1:J:26:ASN:ND2	1:J:85:TYR:OH	2.48	0.47
1:J:44:GLU:O	1:J:48:ILE:HD12	2.15	0.47
1:J:77:VAL:O	1:J:89:MET:HE3	2.14	0.47
1:J:371:ARG:HB3	1:J:389:ILE:HD11	1.97	0.47
1:J:463:LEU:HD13	1:J:467:PHE:CE1	2.49	0.47
1:J:727:GLU:OE1	1:J:739:GLY:HA3	2.14	0.47
1:J:762:LYS:CG	1:J:764:MET:SD	2.99	0.47
1:L:320:ASN:H	1:L:323:ARG:HD3	1.79	0.47
1:L:531:ASN:N	1:L:531:ASN:HD22	2.11	0.47
1:L:727:GLU:O	1:L:736:PHE:N	2.23	0.47
1:M:15:ILE:HG13	1:M:16:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:936:SER:HB3	1:M:948:ILE:CG2	2.44	0.47
1:O:345:ASN:OD1	1:O:348:LYS:CB	2.55	0.47
2:A:13:ARG:NH1	2:A:110:ASP:OD1	2.47	0.47
2:B:43:ILE:HG22	2:B:44:LEU:HD12	1.96	0.47
2:F:26:VAL:HG23	2:F:72:HIS:HB3	1.97	0.47
1:Q:1013:HIS:HD2	1:Q:1057:PRO:HD2	1.78	0.47
1:I:702:VAL:N	1:I:721:GLU:OE1	2.48	0.47
1:I:760:VAL:HB	1:I:768:ILE:HG22	1.96	0.47
1:I:847:VAL:N	1:I:858:GLU:O	2.44	0.47
1:K:57:GLY:HA2	1:K:60:ARG:NH1	2.30	0.47
1:K:1049:LEU:N	1:K:1061:LEU:HB3	2.19	0.47
1:K:1216:ALA:HB1	1:K:1237:ARG:HE	1.78	0.47
1:H:29:CYS:SG	1:H:48:ILE:HG21	2.54	0.47
1:H:1029:GLU:CG	1:H:1060:TYR:OH	2.62	0.47
1:H:1149:LEU:HD23	1:H:1181:CYS:HA	1.96	0.47
1:H:1187:GLN:HG3	1:H:1188:LYS:N	2.29	0.47
1:J:229:ARG:NH2	1:J:258:LEU:HA	2.30	0.47
1:J:476:LYS:NZ	1:J:526:PRO:O	2.45	0.47
1:L:15:ILE:HD11	1:L:92:ILE:HG23	1.96	0.47
1:L:40:LEU:HD13	1:L:45:ILE:HG23	1.96	0.47
1:L:244:LEU:HB2	1:L:264:LEU:HG	1.97	0.47
1:L:317:LEU:O	1:L:318:THR:OG1	2.31	0.47
1:L:381:ILE:C	1:L:419:THR:HG1	2.23	0.47
1:L:399:MET:HA	1:L:402:VAL:HG22	1.97	0.47
1:L:497:LEU:O	1:L:501:ILE:HB	2.15	0.47
1:L:665:HIS:NE2	1:L:670:HIS:N	2.63	0.47
1:L:866:LYS:HZ2	1:L:878:THR:HG22	1.79	0.47
1:M:179:PHE:O	1:M:242:LEU:HG	2.15	0.47
1:M:885:TYR:HA	1:M:901:HIS:HB3	1.96	0.47
1:O:94:THR:O	1:O:94:THR:HG22	2.13	0.47
1:O:232:LEU:HD12	1:O:237:TYR:HB3	1.96	0.47
2:N:63:ASP:OD2	2:N:65:LYS:NZ	2.34	0.47
2:N:82:ARG:HG3	2:N:83:GLY:H	1.78	0.47
2:D:36:MET:HA	2:D:39:VAL:HG12	1.97	0.47
2:F:43:ILE:O	2:F:82:ARG:NH1	2.47	0.47
1:Q:639:GLY:HA2	1:Q:653:ASP:O	2.14	0.47
1:Q:678:TRP:O	1:Q:680:LEU:N	2.45	0.47
1:Q:849:LEU:HB2	1:Q:850:GLN:H	1.50	0.47
1:Q:866:LYS:HD2	1:Q:876:LEU:CD1	2.44	0.47
1:Q:948:ILE:HG21	1:Q:991:GLU:HG3	1.97	0.47
1:I:622:LEU:HD13	1:I:665:HIS:HD2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:663:GLN:HG3	1:I:674:SER:OG	2.14	0.47
1:K:1024:SER:OG	1:K:1047:THR:N	2.29	0.47
1:K:1027:ASN:HB2	1:K:1041:ILE:HA	1.96	0.47
1:H:195:MET:HA	1:H:198:LYS:CG	2.45	0.47
1:H:282:HIS:HE2	1:H:284:SER:HB3	1.78	0.47
1:H:443:ILE:HG13	1:H:478:ILE:HG23	1.96	0.47
1:H:479:GLU:O	1:H:530:ASP:OD2	2.32	0.47
1:H:803:LEU:HD13	1:H:845:LEU:HA	1.96	0.47
1:H:820:ASP:H	1:H:836:VAL:CG1	2.27	0.47
1:H:968:ASN:OD1	1:H:977:MET:HB2	2.14	0.47
1:H:1226:TYR:CE1	1:H:1233:GLU:HG3	2.49	0.47
1:J:22:ALA:O	1:J:25:ASP:HB3	2.15	0.47
1:J:35:MET:HE1	1:J:39:ILE:HG12	1.97	0.47
1:J:183:LEU:HD12	1:J:247:VAL:HG22	1.96	0.47
1:J:372:LEU:HA	1:J:375:PHE:CE1	2.50	0.47
1:J:396:SER:O	1:J:400:VAL:N	2.34	0.47
1:J:490:VAL:HG12	1:J:576:GLU:HG3	1.97	0.47
1:J:672:ASN:OD1	1:J:684:CYS:HB2	2.15	0.47
1:J:803:LEU:HA	1:J:846:SER:HB3	1.95	0.47
1:J:864:CYS:C	1:J:866:LYS:HZ2	2.23	0.47
1:J:890:SER:HA	1:J:897:ASN:HA	1.96	0.47
1:J:923:ALA:O	1:J:1236:ILE:HD13	2.14	0.47
1:J:937:VAL:N	1:J:949:ALA:O	2.48	0.47
1:L:70:GLU:CD	1:L:74:GLN:HE21	2.22	0.47
1:L:155:SER:C	1:L:321:PRO:HG2	2.40	0.47
1:L:472:GLY:HA2	1:L:487:PHE:CE1	2.49	0.47
1:L:928:VAL:HG21	1:L:1225:ILE:HB	1.95	0.47
1:M:156:GLY:O	1:M:160:VAL:HG22	2.14	0.47
1:M:166:LEU:C	1:M:171:GLN:HE22	2.22	0.47
1:M:174:MET:HE2	1:M:241:LEU:HB2	1.96	0.47
1:M:200:LEU:O	1:M:204:ASP:N	2.34	0.47
1:M:402:VAL:HG21	1:M:420:ILE:HD13	1.95	0.47
1:M:457:ASP:CB	1:M:583:ARG:HE	2.18	0.47
1:M:496:PHE:CZ	1:M:500:LYS:HD2	2.49	0.47
1:M:503:HIS:HA	1:M:516:ASN:CG	2.40	0.47
1:M:537:ARG:HA	1:M:540:ASN:ND2	2.29	0.47
1:M:771:PHE:HB3	1:M:773:GLN:O	2.15	0.47
1:M:867:ARG:HG2	1:M:874:LEU:HA	1.97	0.47
1:O:160:VAL:HA	1:O:163:ASP:HB3	1.95	0.47
1:O:192:VAL:HB	1:O:256:PHE:CZ	2.50	0.47
1:O:411:VAL:HG23	1:O:422:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:534:LYS:HE2	1:O:538:LEU:CD1	2.44	0.47
1:O:656:ARG:HB3	1:O:676:LYS:HE3	1.93	0.47
1:O:719:LEU:HD22	1:O:749:GLN:HE21	1.79	0.47
1:O:910:LEU:HB2	1:O:913:PRO:HD2	1.96	0.47
1:O:1123:VAL:HG13	1:O:1125:HIS:ND1	2.30	0.47
2:A:10:MET:HG3	2:A:84:PRO:HA	1.96	0.47
2:B:52:THR:HG23	2:B:78:LYS:HD3	1.97	0.47
2:D:62:MET:SD	2:D:66:ASP:HB3	2.54	0.47
2:F:32:GLU:O	2:F:36:MET:HE3	2.14	0.47
1:Q:229:ARG:CZ	1:Q:258:LEU:HD13	2.45	0.47
1:Q:740:ASP:C	1:Q:775:LEU:HD22	2.39	0.47
1:Q:824:LYS:HZ3	1:Q:831:ILE:CD1	2.24	0.47
1:Q:866:LYS:O	1:Q:875:LEU:N	2.44	0.47
1:Q:872:ARG:NH1	1:Q:872:ARG:O	2.46	0.47
1:Q:987:VAL:HB	1:Q:997:LYS:HB2	1.97	0.47
1:I:48:ILE:HD12	1:I:61:LEU:HD13	1.96	0.47
1:I:201:TYR:HA	1:I:207:TRP:CZ3	2.50	0.47
1:I:270:GLN:HA	1:I:407:LYS:HZ3	1.78	0.47
1:I:320:ASN:O	1:I:324:LEU:HG	2.15	0.47
1:I:668:THR:HG1	1:I:670:HIS:CG	2.32	0.47
1:I:756:SER:HB3	1:I:773:GLN:CG	2.44	0.47
1:I:853:ALA:HA	1:I:856:LEU:HB2	1.97	0.47
1:I:1051:GLN:HB3	1:I:1058:ILE:N	2.30	0.47
1:K:326:ILE:HD13	1:K:349:LEU:HB2	1.96	0.47
1:K:443:ILE:HG23	1:K:478:ILE:HG22	1.96	0.47
1:K:641:ASP:O	1:K:650:ASP:N	2.48	0.47
1:K:757:HIS:HB3	1:K:770:CYS:O	2.15	0.47
1:K:979:ARG:HH22	1:K:1021:ASN:H	1.62	0.47
1:H:758:VAL:HG12	1:H:760:VAL:HG23	1.96	0.47
1:H:824:LYS:HE2	1:H:831:ILE:HG12	1.96	0.47
1:H:968:ASN:HB2	1:H:977:MET:CB	2.42	0.47
1:H:1052:GLN:NE2	1:H:1058:ILE:CG1	2.71	0.47
1:J:761:LEU:HD13	1:J:815:ALA:HB1	1.97	0.47
1:J:1025:ALA:HB3	1:J:1044:ILE:O	2.15	0.47
1:L:349:LEU:HD13	1:L:429:LEU:HD22	1.97	0.47
1:L:354:GLU:HB2	1:L:430:LYS:NZ	2.29	0.47
1:M:757:HIS:ND1	1:M:778:TYR:OH	2.33	0.47
1:O:244:LEU:HB2	1:O:264:LEU:CB	2.45	0.47
1:O:336:ALA:HB3	1:O:339:ASP:HB3	1.97	0.47
1:O:543:LEU:O	1:O:547:PRO:HD3	2.15	0.47
1:O:619:ASP:H	1:O:634:ASP:HA	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:702:VAL:HG21	2:N:60:PHE:HZ	1.78	0.47
1:O:934:LEU:HB2	1:O:950:TRP:CE3	2.50	0.47
1:O:987:VAL:HG21	1:O:1032:PHE:CG	2.49	0.47
2:E:24:ILE:HD12	2:E:105:LEU:HD13	1.97	0.47
2:G:26:VAL:HG13	2:G:27:GLU:HG2	1.97	0.47
1:Q:85:TYR:HD2	1:Q:89:MET:HG3	1.80	0.47
1:Q:131:TYR:HD2	1:Q:164:VAL:HG12	1.80	0.47
1:Q:304:TYR:O	1:Q:332:ARG:NH2	2.48	0.47
1:Q:675:VAL:H	1:Q:681:TRP:CD1	2.30	0.47
1:I:468:TYR:CE1	1:I:501:ILE:HD13	2.50	0.47
1:I:470:HIS:HB3	1:I:474:HIS:HE1	1.80	0.47
1:I:502:ARG:NE	1:I:503:HIS:H	2.13	0.47
1:K:287:HIS:HB3	1:K:290:MET:CG	2.43	0.47
1:K:288:HIS:O	1:K:291:THR:HG22	2.15	0.47
1:K:372:LEU:HA	1:K:375:PHE:CE2	2.49	0.47
1:K:400:VAL:HG12	1:K:404:LYS:NZ	2.30	0.47
1:K:483:ARG:HG3	1:K:487:PHE:CD2	2.49	0.47
1:H:227:GLU:O	1:H:230:ARG:HG3	2.15	0.47
1:H:458:LEU:O	1:H:460:PRO:HD3	2.15	0.47
1:H:676:LYS:H	1:H:676:LYS:CD	2.27	0.47
1:H:680:LEU:HD22	1:H:696:GLN:OE1	2.15	0.47
1:J:458:LEU:CD2	1:J:488:ARG:HH21	2.28	0.47
1:J:1068:ILE:HG22	1:J:1070:VAL:HG23	1.97	0.47
1:L:374:VAL:HG23	1:L:375:PHE:CE1	2.50	0.47
1:L:476:LYS:HE2	1:L:527:TYR:HA	1.96	0.47
1:L:532:ASP:HB2	1:L:533:PRO:CD	2.45	0.47
1:L:643:TYR:CD2	1:L:648:GLU:HG3	2.50	0.47
1:L:1069:LEU:HD11	1:L:1105:LYS:HE3	1.97	0.47
1:M:229:ARG:HA	1:M:232:LEU:HD21	1.97	0.47
1:M:524:TYR:HE2	1:M:543:LEU:HB2	1.80	0.47
1:O:152:VAL:HG22	1:O:153:LEU:HD23	1.97	0.47
2:A:10:MET:CG	2:A:84:PRO:HA	2.45	0.47
2:C:43:ILE:HG22	2:C:44:LEU:HD23	1.96	0.47
1:Q:616:LEU:CD1	1:Q:635:VAL:CG1	2.92	0.47
1:Q:809:GLU:N	1:Q:809:GLU:CD	2.72	0.47
1:Q:850:GLN:HB3	1:Q:891:ASP:O	2.14	0.47
1:I:51:SER:CB	1:I:60:ARG:HH21	2.28	0.47
1:I:867:ARG:HG2	1:I:874:LEU:HA	1.97	0.47
1:I:1199:ASP:HB3	1:I:1216:ALA:H	1.80	0.47
1:K:242:LEU:HB2	1:K:262:ILE:HG22	1.95	0.47
1:K:645:LEU:HB3	1:K:646:ARG:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:326:ILE:CG1	1:H:348:LYS:HE2	2.45	0.47
1:H:403:ASN:OD1	1:H:407:LYS:NZ	2.40	0.47
1:H:617:HIS:C	1:H:635:VAL:HB	2.40	0.47
1:H:620:PHE:HE1	1:H:901:HIS:CE1	2.25	0.47
1:H:727:GLU:HB2	1:H:737:ILE:HG22	1.97	0.47
1:H:978:THR:O	1:H:985:LEU:HD13	2.14	0.47
1:H:990:LYS:HZ2	1:H:990:LYS:CB	2.24	0.47
1:H:1069:LEU:O	1:H:1078:LYS:N	2.48	0.47
1:H:1134:PHE:HD2	1:H:1184:GLU:HG3	1.77	0.47
1:J:131:TYR:CE2	1:J:164:VAL:HA	2.50	0.47
1:J:406:HIS:CE1	1:J:412:GLU:HA	2.50	0.47
1:J:563:ARG:HH12	1:J:1245:LYS:HB3	1.79	0.47
1:L:130:PRO:O	1:L:134:LEU:HD23	2.14	0.47
1:L:329:GLU:HA	1:L:332:ARG:HD3	1.97	0.47
1:L:819:PHE:CE1	1:L:842:LEU:HA	2.50	0.47
1:L:1110:GLN:OE1	1:L:1123:VAL:N	2.48	0.47
1:M:27:PHE:HE1	1:M:29:CYS:HB2	1.80	0.47
1:M:483:ARG:HD2	1:M:530:ASP:HB3	1.96	0.47
1:M:646:ARG:HH12	1:M:648:GLU:CG	2.28	0.47
1:M:685:PRO:HD2	1:M:690:SER:H	1.80	0.47
1:M:970:TYR:HE2	1:M:977:MET:HB2	1.80	0.47
1:O:401:VAL:HA	1:O:404:LYS:NZ	2.31	0.47
1:O:715:VAL:HG13	1:O:736:PHE:CD2	2.50	0.47
1:O:770:CYS:HB3	1:O:777:ARG:NH2	2.30	0.47
1:O:975:MET:SD	1:O:989:SER:HA	2.55	0.47
1:O:1219:ASN:CB	1:O:1238:GLN:HE22	2.26	0.47
1:Q:326:ILE:HD11	1:Q:348:LYS:HB2	1.97	0.47
1:Q:631:LEU:HA	1:Q:641:ASP:OD1	2.14	0.47
1:Q:657:MET:CG	1:Q:676:LYS:HE2	2.44	0.47
1:H:719:LEU:CD2	1:H:751:GLN:CB	2.93	0.46
1:J:60:ARG:O	1:J:64:THR:HG23	2.14	0.46
1:J:386:LEU:HA	1:J:389:ILE:HG22	1.97	0.46
1:J:463:LEU:N	1:J:467:PHE:HB2	2.29	0.46
1:J:656:ARG:HH22	1:J:675:VAL:C	2.22	0.46
1:J:1012:THR:O	1:J:1013:HIS:ND1	2.48	0.46
1:L:83:ILE:HG13	1:L:84:ASN:N	2.29	0.46
1:L:130:PRO:O	1:L:133:LYS:N	2.43	0.46
1:L:136:GLN:NE2	1:L:136:GLN:H	2.12	0.46
1:L:1025:ALA:HB1	1:L:1041:ILE:HG22	1.97	0.46
1:L:1065:SER:C	1:L:1067:ASN:H	2.23	0.46
1:L:1188:LYS:N	1:L:1230:GLU:OE2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:63:TRP:CH2	1:M:128:LEU:HA	2.50	0.46
1:M:112:ARG:NE	1:M:112:ARG:O	2.48	0.46
1:M:495:ARG:HG2	1:M:561:LEU:HD11	1.96	0.46
1:M:719:LEU:HD23	1:M:725:LEU:HD22	1.97	0.46
1:M:818:VAL:HG12	1:M:819:PHE:HD2	1.80	0.46
1:M:1066:PRO:HB3	1:M:1082:PHE:CE1	2.50	0.46
1:M:1067:ASN:O	1:M:1081:ILE:N	2.37	0.46
1:M:1238:GLN:C	1:M:1240:LEU:N	2.73	0.46
1:O:65:LEU:HD12	1:O:66:LEU:N	2.30	0.46
1:O:446:HIS:HB3	1:O:474:HIS:HB3	1.97	0.46
1:O:492:LEU:HA	1:O:495:ARG:HD3	1.97	0.46
1:O:516:ASN:O	1:O:520:GLN:NE2	2.48	0.46
1:O:532:ASP:OD1	1:O:533:PRO:HD3	2.14	0.46
2:B:11:PRO:HD2	2:B:14:HIS:CE1	2.50	0.46
2:D:18:ILE:HD11	2:D:87:TYR:CE1	2.50	0.46
2:D:21:ASN:HA	2:D:24:ILE:HD13	1.97	0.46
2:E:26:VAL:HG23	2:E:72:HIS:HB3	1.97	0.46
2:F:10:MET:N	2:F:84:PRO:HA	2.31	0.46
2:F:25:LEU:O	2:F:29:THR:OG1	2.27	0.46
1:Q:145:LYS:O	1:Q:261:LYS:HA	2.15	0.46
1:Q:951:VAL:HG21	1:Q:1234:HIS:CE1	2.50	0.46
1:K:174:MET:CE	1:K:240:CYS:HA	2.34	0.46
1:K:476:LYS:HD3	1:K:527:TYR:CD2	2.50	0.46
1:K:516:ASN:O	1:K:520:GLN:NE2	2.48	0.46
1:K:728:ALA:HB2	1:K:735:ALA:HA	1.97	0.46
1:K:1216:ALA:HA	1:K:1237:ARG:HH21	1.80	0.46
1:H:1019:LYS:NZ	1:H:1050:PRO:HB2	2.30	0.46
1:H:1148:ASP:HB2	1:H:1150:LYS:HZ3	1.79	0.46
1:J:523:PHE:O	1:J:526:PRO:CG	2.62	0.46
1:L:330:SER:OG	1:L:345:ASN:ND2	2.45	0.46
1:L:486:LEU:HA	1:L:488:ARG:HH11	1.79	0.46
1:L:966:GLU:HA	1:L:966:GLU:OE2	2.15	0.46
1:L:977:MET:HE2	1:L:1009:ILE:HG21	1.97	0.46
1:L:1187:GLN:HG2	1:L:1230:GLU:HG2	1.97	0.46
1:M:50:MET:SD	1:M:51:SER:N	2.88	0.46
1:M:275:LEU:HD12	1:M:282:HIS:CG	2.50	0.46
1:M:544:ASP:O	1:M:548:LYS:HE2	2.14	0.46
1:M:563:ARG:NH1	1:M:1245:LYS:HG3	2.30	0.46
1:O:175:ASP:HB2	1:O:177:LYS:NZ	2.30	0.46
1:O:685:PRO:HD3	1:O:691:GLY:HA3	1.97	0.46
1:O:781:VAL:HG13	1:O:783:THR:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:21:ASN:HB3	2:E:24:ILE:HD11	1.97	0.46
2:F:20:LYS:O	2:F:23:ASN:ND2	2.47	0.46
1:Q:345:ASN:HA	1:Q:348:LYS:HG2	1.95	0.46
1:Q:620:PHE:HZ	1:Q:661:ASN:H	1.59	0.46
1:I:489:MET:O	1:I:495:ARG:NH2	2.48	0.46
1:I:926:LYS:HD2	1:I:1236:ILE:HG12	1.97	0.46
1:K:120:PHE:HA	1:K:159:TRP:CZ3	2.49	0.46
1:K:624:ALA:HB3	1:K:628:GLY:H	1.80	0.46
1:K:624:ALA:CB	1:K:629:GLN:H	2.29	0.46
1:K:1187:GLN:HG2	1:K:1188:LYS:HG3	1.95	0.46
1:K:1217:VAL:H	1:K:1237:ARG:CZ	2.28	0.46
1:H:138:LEU:HD13	1:H:141:LEU:HD13	1.97	0.46
1:H:162:LEU:O	1:H:166:LEU:HD23	2.15	0.46
1:H:402:VAL:HA	1:H:405:LEU:HD12	1.97	0.46
1:H:612:HIS:CE1	1:H:905:VAL:HG13	2.50	0.46
1:H:660:PHE:CE1	1:H:677:LEU:CD1	2.99	0.46
1:H:851:SER:OG	1:H:894:LEU:HG	2.14	0.46
1:J:88:LEU:O	1:J:91:PRO:HD2	2.15	0.46
1:J:480:HIS:CG	1:J:481:PRO:CD	2.99	0.46
1:J:488:ARG:CZ	1:J:491:PHE:CE2	2.98	0.46
1:J:880:GLU:OE1	1:J:899:SER:HB3	2.15	0.46
1:L:14:ASP:N	1:L:14:ASP:OD1	2.46	0.46
1:L:82:ARG:NH2	1:L:93:LYS:NZ	2.63	0.46
1:L:127:ARG:NH2	1:L:291:THR:O	2.48	0.46
1:L:478:ILE:HG13	1:L:479:GLU:N	2.30	0.46
1:L:488:ARG:HG3	1:L:491:PHE:CD2	2.50	0.46
1:L:619:ASP:HB2	1:L:634:ASP:HA	1.97	0.46
1:L:726:PRO:HA	1:L:738:ASN:OD1	2.16	0.46
1:L:1056:GLU:N	1:L:1057:PRO:HD2	2.29	0.46
1:M:225:GLN:O	1:M:229:ARG:HG3	2.15	0.46
1:M:729:ASN:HB2	1:M:732:LEU:HB2	1.97	0.46
1:O:320:ASN:O	1:O:323:ARG:HG2	2.16	0.46
1:O:525:LYS:N	1:O:526:PRO:HD2	2.30	0.46
1:O:756:SER:HA	1:O:772:VAL:HB	1.98	0.46
1:O:819:PHE:CE1	1:O:843:PRO:HD3	2.51	0.46
2:A:46:VAL:O	2:A:49:LEU:HG	2.15	0.46
2:B:95:ARG:NH1	2:B:103:ALA:HB1	2.30	0.46
2:C:73:ARG:O	2:C:77:LEU:HG	2.16	0.46
2:E:26:VAL:HG23	2:E:72:HIS:HD2	1.81	0.46
2:E:76:LEU:O	2:E:80:THR:HG23	2.15	0.46
2:F:68:ARG:O	2:F:71:GLN:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:620:PHE:N	1:Q:620:PHE:CD1	2.81	0.46
1:Q:946:ARG:HG3	1:Q:959:VAL:O	2.14	0.46
1:Q:948:ILE:HG13	1:Q:948:ILE:O	2.14	0.46
1:I:666:LEU:HG	1:I:671:CYS:HB2	1.98	0.46
1:K:195:MET:O	1:K:199:LEU:HG	2.15	0.46
1:H:31:ASP:O	1:H:33:GLN:NE2	2.49	0.46
1:H:48:ILE:HG12	1:H:60:ARG:HD2	1.96	0.46
1:H:260:CYS:SG	1:H:261:LYS:N	2.88	0.46
1:H:480:HIS:HB3	1:H:530:ASP:CB	2.43	0.46
1:H:803:LEU:HD12	1:H:817:ASP:OD1	2.15	0.46
1:H:966:GLU:O	1:H:978:THR:HA	2.16	0.46
1:H:975:MET:N	1:H:992:ARG:HB2	2.31	0.46
1:H:997:LYS:HD2	1:H:998:PRO:HD3	1.98	0.46
1:J:666:LEU:HD12	1:J:670:HIS:HB2	1.97	0.46
1:L:70:GLU:OE1	1:L:74:GLN:NE2	2.48	0.46
1:L:460:PRO:HD2	1:L:462:TYR:CE1	2.50	0.46
1:L:476:LYS:HG3	1:L:527:TYR:CD1	2.50	0.46
1:L:677:LEU:HD12	1:L:678:TRP:CD1	2.50	0.46
1:L:866:LYS:NZ	1:L:878:THR:HG22	2.31	0.46
1:L:1109:LEU:CB	1:L:1130:ASN:OD1	2.59	0.46
1:L:1221:LYS:HE3	1:L:1237:ARG:NH2	2.31	0.46
1:M:134:LEU:HD21	1:M:283:ILE:HG21	1.97	0.46
1:M:640:GLU:OE1	1:M:642:THR:HG23	2.15	0.46
1:M:811:ASP:O	1:M:826:ALA:N	2.48	0.46
1:M:929:VAL:HG22	1:M:969:VAL:HG13	1.97	0.46
1:M:1053:PHE:HD2	1:M:1057:PRO:HB2	1.80	0.46
1:O:18:VAL:HG13	1:O:168:TYR:CZ	2.51	0.46
1:O:141:LEU:HG	1:O:261:LYS:HG2	1.97	0.46
1:O:153:LEU:HB2	1:O:267:ARG:NE	2.29	0.46
1:O:475:LEU:CB	1:O:487:PHE:HE1	2.29	0.46
1:O:656:ARG:CG	1:O:676:LYS:CE	2.72	0.46
2:E:14:HIS:O	2:E:18:ILE:HG13	2.16	0.46
2:E:33:ARG:NH2	2:E:96:ASN:O	2.48	0.46
2:F:19:ARG:NH2	2:F:22:LEU:HD22	2.31	0.46
2:F:62:MET:HE2	2:F:66:ASP:OD2	2.15	0.46
1:Q:36:PRO:O	1:Q:38:SER:N	2.47	0.46
1:Q:687:ARG:O	1:Q:689:HIS:ND1	2.49	0.46
1:Q:1013:HIS:CD2	1:Q:1057:PRO:HD2	2.50	0.46
1:I:405:LEU:HD22	1:I:410:LEU:CD2	2.45	0.46
1:I:680:LEU:HD22	1:I:696:GLN:HA	1.98	0.46
1:I:928:VAL:HB	1:I:1225:ILE:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:76:PHE:O	1:K:80:VAL:HB	2.16	0.46
1:K:480:HIS:CD2	1:K:481:PRO:HD3	2.51	0.46
1:K:532:ASP:O	1:K:536:GLU:HG2	2.15	0.46
1:H:182:ASN:HB2	1:H:184:LYS:HG2	1.97	0.46
1:H:484:MET:HE1	1:H:490:VAL:HG23	1.97	0.46
1:J:381:ILE:C	1:J:419:THR:HG1	2.23	0.46
1:J:818:VAL:HG12	1:J:819:PHE:CD2	2.50	0.46
1:L:443:ILE:HG13	1:L:478:ILE:HG23	1.97	0.46
1:L:665:HIS:CE1	1:L:669:LEU:C	2.93	0.46
1:L:783:THR:O	1:L:783:THR:OG1	2.31	0.46
1:M:156:GLY:HA3	1:M:321:PRO:HG2	1.97	0.46
1:M:518:LEU:HD22	1:M:647:ASP:O	2.15	0.46
1:M:950:TRP:CD1	1:M:955:ASP:HB2	2.51	0.46
1:M:1183:GLU:CD	1:M:1224:LEU:HD11	2.40	0.46
1:M:1186:ALA:HA	1:M:1193:TYR:CE1	2.51	0.46
1:O:183:LEU:N	1:O:245:LEU:O	2.34	0.46
1:O:225:GLN:HA	1:O:228:LEU:HD12	1.97	0.46
1:O:674:SER:O	1:O:681:TRP:HA	2.16	0.46
1:O:747:ASP:HB2	1:O:761:LEU:O	2.15	0.46
1:O:765:GLN:OE1	1:O:785:ASN:ND2	2.49	0.46
2:N:69:VAL:HG12	2:N:73:ARG:HH12	1.81	0.46
2:C:30:ASN:HB3	2:C:33:ARG:HB3	1.97	0.46
1:Q:106:TYR:CE1	1:Q:168:TYR:HA	2.51	0.46
1:Q:449:ILE:CG2	1:Q:450:PRO:HD3	2.45	0.46
1:Q:1126:LEU:HD21	1:Q:1130:ASN:HD21	1.81	0.46
1:I:57:GLY:HA2	1:I:60:ARG:NE	2.30	0.46
1:I:131:TYR:CE1	1:I:164:VAL:HA	2.50	0.46
1:I:456:ASP:OD2	1:I:583:ARG:NH1	2.48	0.46
1:I:634:ASP:OD1	1:I:660:PHE:HB2	2.16	0.46
1:I:1123:VAL:HG13	1:I:1125:HIS:ND1	2.30	0.46
1:K:929:VAL:HG13	1:K:971:LEU:HD22	1.98	0.46
1:H:23:PHE:HA	1:H:27:PHE:HB3	1.97	0.46
1:H:148:LEU:N	1:H:281:THR:O	2.36	0.46
1:H:197:GLN:HB3	1:H:201:TYR:CZ	2.51	0.46
1:H:814:LEU:HA	1:H:822:ARG:O	2.15	0.46
1:H:1012:THR:HG22	1:H:1018:CYS:HA	1.93	0.46
1:H:1109:LEU:HD22	1:H:1144:ILE:HG21	1.98	0.46
1:J:681:TRP:HA	1:J:682:PRO:HD3	1.72	0.46
1:J:913:PRO:HB2	1:J:917:TYR:HE1	1.80	0.46
1:J:929:VAL:HB	1:J:935:ARG:O	2.14	0.46
1:L:486:LEU:HD13	1:L:488:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:522:LYS:HA	1:M:525:LYS:NZ	2.31	0.46
1:M:833:LYS:NZ	1:M:869:THR:HG22	2.31	0.46
1:M:1061:LEU:HD11	1:M:1103:SER:CB	2.46	0.46
1:O:929:VAL:HG21	1:O:969:VAL:HG11	1.98	0.46
1:O:940:SER:HB2	1:O:964:CYS:HB3	1.96	0.46
1:Q:154:GLY:C	1:Q:322:ARG:HD3	2.40	0.46
1:Q:615:TYR:CD1	1:Q:615:TYR:N	2.82	0.46
1:Q:623:ILE:CB	1:Q:897:ASN:HD22	2.29	0.46
1:Q:782:CYS:C	1:Q:784:SER:H	2.23	0.46
1:I:148:LEU:HG	1:I:264:LEU:HD21	1.97	0.46
1:I:675:VAL:HG23	1:I:681:TRP:CZ2	2.51	0.46
1:I:825:THR:HG22	1:I:832:PHE:CZ	2.50	0.46
1:I:856:LEU:HA	1:I:857:PRO:HD3	1.83	0.46
1:K:406:HIS:CE1	1:K:412:GLU:HA	2.51	0.46
1:K:423:PRO:HB2	1:K:425:ILE:HG22	1.98	0.46
1:K:640:GLU:HG2	1:K:652:SER:OG	2.15	0.46
1:K:836:VAL:O	1:K:867:ARG:NH2	2.42	0.46
1:K:1187:GLN:HB2	1:K:1194:LEU:HG	1.98	0.46
1:H:371:ARG:NH1	1:H:438:ALA:HB1	2.31	0.46
1:J:146:ASN:OD1	1:J:280:THR:HG22	2.16	0.46
1:J:471:ILE:O	1:J:475:LEU:HB2	2.16	0.46
1:J:761:LEU:HD11	1:J:817:ASP:CG	2.29	0.46
1:J:768:ILE:HG22	1:J:780:VAL:CB	2.46	0.46
1:L:113:LEU:HD23	1:L:166:LEU:CD2	2.44	0.46
1:L:163:ASP:HA	1:L:166:LEU:HD12	1.98	0.46
1:L:294:PRO:C	1:L:298:LYS:HZ2	2.22	0.46
1:M:440:HIS:CG	1:M:441:ARG:H	2.34	0.46
1:M:1242:SER:HB2	1:M:1243:PRO:HD3	1.97	0.46
1:O:458:LEU:O	1:O:460:PRO:HD3	2.16	0.46
1:O:707:GLY:HA2	1:O:716:ALA:HA	1.98	0.46
1:Q:96:GLN:OE1	1:Q:97:ARG:NH1	2.49	0.46
1:Q:142:ARG:HH22	1:Q:144:ALA:HB3	1.79	0.46
1:Q:360:LEU:HD21	1:Q:366:ARG:HH11	1.79	0.46
1:Q:415:PRO:HA	1:Q:418:SER:HA	1.98	0.46
1:Q:656:ARG:HD3	1:Q:656:ARG:HA	1.64	0.46
1:Q:929:VAL:HG22	1:Q:971:LEU:C	2.41	0.46
1:I:148:LEU:HD22	1:I:282:HIS:CD2	2.51	0.46
1:I:274:PHE:CD2	1:I:275:LEU:HD22	2.50	0.46
1:I:1061:LEU:HG	1:I:1091:GLN:OE1	2.16	0.46
1:K:120:PHE:HZ	1:K:163:ASP:HB3	1.80	0.46
1:K:463:LEU:CD2	1:K:466:TYR:H	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:769:ARG:HB3	1:H:778:TYR:HD2	1.81	0.46
1:H:893:VAL:O	1:H:893:VAL:HG12	2.16	0.46
1:H:954:ALA:CB	1:H:976:ASP:OD1	2.64	0.46
1:H:1030:GLN:HB3	1:H:1036:VAL:O	2.15	0.46
1:J:288:HIS:O	1:J:291:THR:HG22	2.16	0.46
1:J:323:ARG:HA	1:J:326:ILE:HG22	1.97	0.46
1:J:808:VAL:HG21	1:J:852:GLU:N	2.31	0.46
1:J:1012:THR:OG1	1:J:1053:PHE:CB	2.63	0.46
1:J:1024:SER:C	1:J:1026:PHE:N	2.74	0.46
1:J:1153:LEU:CD2	1:J:1165:VAL:HB	2.45	0.46
1:L:536:GLU:O	1:L:539:VAL:HG22	2.15	0.46
1:M:78:GLU:HB2	1:M:79:GLU:OE1	2.16	0.46
1:M:443:ILE:HD12	1:M:446:HIS:ND1	2.31	0.46
1:M:499:GLN:HE22	1:M:500:LYS:HG3	1.80	0.46
1:M:920:LEU:HA	1:M:1243:PRO:HD2	1.97	0.46
1:O:46:ASP:HA	1:O:49:ILE:HD13	1.96	0.46
1:O:183:LEU:HB3	1:O:186:CYS:SG	2.56	0.46
1:O:225:GLN:NE2	1:O:255:ALA:O	2.48	0.46
1:O:298:LYS:HA	1:O:298:LYS:HD2	1.70	0.46
2:A:59:PRO:HA	2:A:62:MET:HE2	1.98	0.46
2:G:91:ILE:HG23	2:G:95:ARG:CZ	2.45	0.46
1:Q:1223:GLN:O	1:Q:1224:LEU:HD23	2.16	0.46
1:I:178:ILE:HG23	1:I:241:LEU:HB3	1.96	0.46
1:I:201:TYR:HA	1:I:207:TRP:HZ3	1.81	0.46
1:I:368:MET:HE1	1:I:371:ARG:CZ	2.46	0.46
1:I:448:ASN:O	1:I:452:THR:HG23	2.16	0.46
1:I:756:SER:HB3	1:I:773:GLN:HB2	1.97	0.46
1:I:1021:ASN:HB3	1:I:1025:ALA:H	1.81	0.46
1:K:277:ALA:HA	1:K:282:HIS:CD2	2.51	0.46
1:H:180:TRP:CE3	1:H:245:LEU:HD11	2.51	0.46
1:H:618:ASN:HD22	1:H:904:CYS:HA	1.79	0.46
1:H:968:ASN:CB	1:H:977:MET:HB2	2.43	0.46
1:H:997:LYS:CD	1:H:998:PRO:HD3	2.45	0.46
1:J:45:ILE:O	1:J:49:ILE:HG12	2.16	0.46
1:J:85:TYR:HE1	2:D:82:ARG:HA	1.80	0.46
1:J:330:SER:HB3	1:J:340:ASN:HD22	1.80	0.46
1:J:728:ALA:C	1:J:735:ALA:CB	2.78	0.46
1:J:803:LEU:HA	1:J:846:SER:HB2	1.98	0.46
1:J:862:ILE:HG22	1:J:885:TYR:CE1	2.50	0.46
1:J:970:TYR:HA	1:J:990:LYS:HG3	1.97	0.46
1:L:113:LEU:HD11	1:L:162:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:172:CYS:HA	1:L:176:PHE:CZ	2.51	0.46
1:L:200:LEU:HB2	1:L:228:LEU:HD21	1.98	0.46
1:L:563:ARG:HH12	1:L:1245:LYS:HA	1.79	0.46
1:L:566:LEU:O	1:L:569:GLU:HG2	2.16	0.46
1:L:628:GLY:HA2	1:L:644:LEU:HB2	1.98	0.46
1:L:961:THR:HG21	1:L:988:ASP:OD2	2.15	0.46
1:M:183:LEU:HA	1:M:186:CYS:SG	2.56	0.46
1:M:622:LEU:HD21	1:M:665:HIS:HD2	1.79	0.46
1:M:1108:SER:C	1:M:1130:ASN:HB2	2.41	0.46
1:O:46:ASP:HA	1:O:49:ILE:CD1	2.46	0.46
1:O:86:LYS:H	2:N:82:ARG:NH2	2.13	0.46
1:O:319:THR:HB	1:O:323:ARG:NH2	2.31	0.46
2:D:82:ARG:HH12	2:D:89:LEU:HD23	1.80	0.46
1:Q:268:PHE:HB3	1:Q:270:GLN:HG2	1.97	0.46
1:Q:675:VAL:CG1	1:Q:681:TRP:HB2	2.45	0.46
1:I:127:ARG:HH11	1:I:128:LEU:N	2.14	0.46
1:I:751:GLN:HA	1:I:758:VAL:CG2	2.46	0.46
1:K:52:LYS:NZ	1:K:55:VAL:HB	2.30	0.46
1:K:77:VAL:O	1:K:82:ARG:NH1	2.48	0.46
1:K:136:GLN:HA	1:K:139:LEU:HG	1.98	0.46
1:K:253:TRP:HE1	1:K:262:ILE:HD11	1.80	0.46
1:K:287:HIS:HD2	1:K:289:SER:OG	1.99	0.46
1:H:290:MET:HE3	1:H:290:MET:HA	1.97	0.46
1:H:305:LEU:HD13	1:H:332:ARG:HB3	1.98	0.46
1:H:380:HIS:HA	1:H:421:SER:HA	1.98	0.46
1:H:1011:PRO:O	1:H:1052:GLN:HG3	2.16	0.46
1:J:212:ASP:N	1:J:212:ASP:OD1	2.48	0.46
1:J:484:MET:HE2	1:J:489:MET:HE3	1.98	0.46
1:J:899:SER:OG	1:J:907:ILE:HB	2.16	0.46
1:J:979:ARG:HH11	1:J:1020:ILE:HG23	1.81	0.46
1:J:1018:CYS:O	1:J:1030:GLN:N	2.48	0.46
1:J:1057:PRO:CD	1:J:1098:LEU:HD12	2.45	0.46
1:J:1065:SER:N	1:J:1066:PRO:HD2	2.31	0.46
1:L:295:ASP:HA	1:L:298:LYS:HG2	1.98	0.46
1:L:319:THR:H	1:L:323:ARG:HD3	1.81	0.46
1:L:661:ASN:HB2	1:L:675:VAL:O	2.15	0.46
1:L:728:ALA:HB2	1:L:735:ALA:HA	1.96	0.46
1:M:664:LYS:O	1:M:672:ASN:HB2	2.16	0.46
1:O:141:LEU:HB3	1:O:261:LYS:HE3	1.96	0.46
1:O:174:MET:HG2	1:O:178:ILE:HD11	1.98	0.46
1:O:449:ILE:O	1:O:452:THR:OG1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:821:GLU:O	1:O:837:TRP:N	2.49	0.46
2:C:74:ARG:HG3	2:C:78:LYS:NZ	2.31	0.46
1:Q:30:LYS:NZ	1:Q:45:ILE:O	2.49	0.46
1:Q:159:TRP:NE1	1:Q:322:ARG:HH12	2.12	0.46
1:Q:380:HIS:CE1	1:Q:414:GLN:HE22	2.33	0.46
1:Q:643:TYR:CE2	1:Q:650:ASP:OD1	2.69	0.46
1:Q:659:VAL:HG12	1:Q:677:LEU:HD12	1.98	0.46
1:I:443:ILE:HD11	1:I:477:ASN:HB3	1.98	0.46
1:I:979:ARG:CD	1:I:1020:ILE:HD11	2.46	0.46
1:I:1031:ILE:HG22	1:I:1031:ILE:O	2.16	0.46
1:I:1099:MET:HE2	1:I:1099:MET:HA	1.97	0.46
1:K:979:ARG:NE	1:K:1020:ILE:HG23	2.31	0.46
1:H:111:ASP:O	1:H:115:ASN:ND2	2.49	0.45
1:J:110:ARG:HA	1:J:113:LEU:HB3	1.98	0.45
1:J:656:ARG:HH11	1:J:680:LEU:HB2	1.80	0.45
1:J:664:LYS:HB2	1:J:664:LYS:HE2	1.50	0.45
1:J:845:LEU:HD21	1:J:888:LYS:HG2	1.97	0.45
1:L:149:ILE:HD12	1:L:283:ILE:O	2.16	0.45
1:L:412:GLU:O	1:L:420:ILE:HG23	2.15	0.45
1:L:475:LEU:HD22	1:L:487:PHE:CZ	2.50	0.45
1:L:503:HIS:HA	1:L:516:ASN:CG	2.41	0.45
1:L:805:VAL:HG21	1:L:847:VAL:HA	1.98	0.45
1:L:1203:LEU:HD23	1:L:1203:LEU:O	2.15	0.45
1:M:924:LYS:HD2	1:M:1238:GLN:CA	2.47	0.45
1:O:69:GLN:NE2	1:O:71:GLU:HB3	2.23	0.45
1:O:727:GLU:HB2	1:O:736:PHE:HB2	1.98	0.45
2:A:21:ASN:O	2:A:25:LEU:HG	2.14	0.45
2:A:58:LYS:NZ	2:A:62:MET:SD	2.89	0.45
1:Q:486:LEU:HA	1:Q:488:ARG:NH1	2.31	0.45
1:I:228:LEU:HD23	1:I:231:LEU:HD12	1.97	0.45
1:I:476:LYS:HD2	1:I:527:TYR:HA	1.98	0.45
1:I:610:GLY:HA2	1:I:906:ASP:O	2.15	0.45
1:I:923:ALA:HB3	1:I:940:SER:HB3	1.97	0.45
1:K:122:LYS:HE2	1:K:123:TYR:CZ	2.51	0.45
1:K:987:VAL:CG2	1:K:997:LYS:HB2	2.46	0.45
1:H:282:HIS:NE2	1:H:284:SER:HB3	2.31	0.45
1:H:1030:GLN:HB3	1:H:1031:ILE:H	1.45	0.45
1:H:1031:ILE:CG1	1:H:1036:VAL:HB	2.46	0.45
1:J:188:SER:HB3	1:J:191:THR:HG23	1.98	0.45
1:J:716:ALA:CB	1:J:718:TYR:CZ	2.97	0.45
1:J:886:ASP:HB2	1:J:900:GLU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:968:ASN:ND2	1:J:1009:ILE:HD12	2.32	0.45
1:J:1012:THR:OG1	1:J:1053:PHE:HB3	2.15	0.45
1:L:102:MET:HA	1:L:105:MET:HE2	1.97	0.45
1:L:113:LEU:CD2	1:L:166:LEU:HD23	2.44	0.45
1:L:288:HIS:O	1:L:291:THR:HG22	2.16	0.45
1:L:643:TYR:HB2	1:L:647:ASP:N	2.27	0.45
1:L:820:ASP:OD2	1:L:822:ARG:NE	2.48	0.45
1:L:1045:HIS:CD2	1:L:1045:HIS:H	2.32	0.45
1:L:1129:ALA:O	1:L:1147:PHE:CZ	2.69	0.45
1:M:179:PHE:N	1:M:241:LEU:O	2.49	0.45
1:M:216:ASN:HB2	1:M:219:LEU:HB2	1.99	0.45
1:M:293:THR:O	1:M:297:VAL:HG23	2.15	0.45
1:M:948:ILE:HG21	1:M:990:LYS:HD3	1.96	0.45
1:O:87:PHE:O	1:O:90:SER:OG	2.29	0.45
1:O:131:TYR:CE1	1:O:164:VAL:HA	2.51	0.45
1:O:142:ARG:HD3	1:O:142:ARG:HA	1.75	0.45
1:O:192:VAL:HB	1:O:256:PHE:CE2	2.51	0.45
1:O:300:LEU:HD11	1:O:304:TYR:HE2	1.81	0.45
2:N:14:HIS:HB3	2:N:87:TYR:CZ	2.51	0.45
2:F:52:THR:HA	2:F:78:LYS:HE2	1.97	0.45
1:Q:181:LEU:HD22	1:Q:198:LYS:HZ3	1.82	0.45
1:Q:247:VAL:HG21	1:Q:264:LEU:HD12	1.99	0.45
1:Q:621:CYS:HA	1:Q:899:SER:O	2.16	0.45
1:Q:646:ARG:HD3	1:Q:648:GLU:CD	2.41	0.45
1:I:1018:CYS:N	1:I:1029:GLU:HG3	2.31	0.45
1:I:1046:ASP:O	1:I:1063:GLN:HG2	2.17	0.45
1:K:354:GLU:OE2	1:K:358:ASN:ND2	2.38	0.45
1:K:483:ARG:HH11	1:K:530:ASP:C	2.25	0.45
1:K:488:ARG:HG3	1:K:491:PHE:CD2	2.51	0.45
1:K:855:GLN:NE2	1:K:867:ARG:HB3	2.31	0.45
1:K:977:MET:SD	1:K:987:VAL:HA	2.56	0.45
1:H:183:LEU:HD11	1:H:244:LEU:HD12	1.97	0.45
1:H:607:ASP:N	1:H:607:ASP:OD1	2.50	0.45
1:H:732:LEU:HD23	1:H:736:PHE:CE1	2.51	0.45
1:J:331:ILE:HG12	1:J:336:ALA:O	2.16	0.45
1:J:484:MET:SD	1:J:484:MET:C	2.99	0.45
1:J:502:ARG:HE	1:J:503:HIS:H	1.64	0.45
1:J:639:GLY:HA3	1:J:655:LEU:HD11	1.98	0.45
1:J:822:ARG:HG2	1:J:834:TYR:HE1	1.82	0.45
1:J:946:ARG:NH1	1:J:966:GLU:O	2.49	0.45
1:L:82:ARG:NH2	1:L:93:LYS:HZ3	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:118:GLN:O	1:K:276:SER:OG	2.35	0.45
1:L:321:PRO:HB2	1:L:322:ARG:NH1	2.32	0.45
1:M:154:GLY:N	1:M:157:LYS:NZ	2.61	0.45
1:M:222:HIS:CE1	1:O:198:LYS:HD2	2.51	0.45
1:M:532:ASP:O	1:M:536:GLU:HG2	2.16	0.45
1:O:61:LEU:O	1:O:64:THR:OG1	2.27	0.45
1:O:274:PHE:CD2	1:O:275:LEU:HD22	2.51	0.45
1:O:659:VAL:O	1:O:676:LYS:HA	2.16	0.45
1:O:845:LEU:CB	1:O:858:GLU:O	2.62	0.45
1:O:857:PRO:HG2	1:O:865:GLY:C	2.41	0.45
1:Q:406:HIS:ND1	1:Q:411:VAL:O	2.49	0.45
1:Q:621:CYS:HB3	1:Q:900:GLU:N	2.27	0.45
1:I:234:SER:HB2	1:I:237:TYR:HB2	1.98	0.45
1:I:284:SER:OG	1:I:285:LEU:N	2.50	0.45
1:I:319:THR:OG1	1:I:323:ARG:NH1	2.45	0.45
1:K:39:ILE:HA	1:K:72:MET:SD	2.55	0.45
1:K:349:LEU:HD12	1:K:352:ILE:HD11	1.97	0.45
1:K:483:ARG:NH2	1:K:528:ILE:HA	2.32	0.45
1:H:292:LEU:HD23	1:H:296:GLU:HB3	1.98	0.45
1:H:672:ASN:O	1:H:683:ASP:HA	2.16	0.45
1:H:952:HIS:CB	1:H:990:LYS:CD	2.94	0.45
1:J:19:PHE:HB3	1:J:22:ALA:HB3	1.99	0.45
1:J:61:LEU:O	1:J:64:THR:OG1	2.26	0.45
1:J:127:ARG:H	1:J:127:ARG:HG2	1.50	0.45
1:J:762:LYS:HE3	1:J:768:ILE:HG12	1.96	0.45
1:J:938:SER:HA	1:J:947:GLU:O	2.17	0.45
1:J:1031:ILE:HB	1:J:1036:VAL:HB	1.98	0.45
1:J:1054:ILE:HD12	1:J:1059:ASP:HA	1.99	0.45
1:L:194:GLU:OE1	1:L:194:GLU:N	2.47	0.45
1:L:337:THR:HG1	1:L:338:TRP:CD1	2.33	0.45
1:L:881:GLY:HA3	1:L:885:TYR:CE2	2.52	0.45
1:L:896:SER:HB3	1:L:909:GLU:O	2.16	0.45
1:M:387:SER:CB	1:M:398:VAL:HG21	2.47	0.45
1:M:483:ARG:NH2	1:M:528:ILE:HA	2.31	0.45
1:M:1110:GLN:HE21	1:M:1110:GLN:HB2	1.58	0.45
1:O:987:VAL:HG22	1:O:1018:CYS:SG	2.57	0.45
2:N:17:HIS:CE1	2:N:106:LEU:HA	2.45	0.45
2:D:103:ALA:O	2:D:106:LEU:HG	2.16	0.45
2:F:30:ASN:HB2	2:F:33:ARG:NE	2.32	0.45
1:Q:18:VAL:HG13	1:Q:168:TYR:CZ	2.52	0.45
1:Q:684:CYS:HB2	1:Q:689:HIS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:946:ARG:HH22	1:Q:978:THR:HA	1.81	0.45
1:I:45:ILE:O	1:I:49:ILE:HG12	2.16	0.45
1:I:464:ASP:OD1	1:I:501:ILE:HG12	2.16	0.45
1:I:608:ASN:HB2	1:I:908:TYR:O	2.17	0.45
1:I:753:PHE:O	1:I:753:PHE:CG	2.69	0.45
1:I:771:PHE:HB2	1:I:774:VAL:HB	1.97	0.45
1:K:154:GLY:N	1:K:157:LYS:HZ1	2.14	0.45
1:K:620:PHE:CB	1:K:663:GLN:HE22	2.30	0.45
1:K:629:GLN:NE2	1:K:650:ASP:OD2	2.50	0.45
1:K:880:GLU:O	1:K:901:HIS:NE2	2.49	0.45
1:H:171:GLN:HB3	1:H:176:PHE:CE2	2.51	0.45
1:J:35:MET:O	1:J:42:LYS:NZ	2.33	0.45
1:J:365:TYR:OH	1:J:401:VAL:HA	2.17	0.45
1:J:381:ILE:O	1:J:420:ILE:N	2.49	0.45
1:J:885:TYR:HA	1:J:901:HIS:ND1	2.31	0.45
1:L:72:MET:HA	1:L:75:LYS:HG3	1.97	0.45
1:L:320:ASN:HB2	1:L:323:ARG:HG2	1.98	0.45
1:L:562:LEU:HD22	1:L:581:VAL:HG11	1.99	0.45
1:L:816:LEU:HD12	1:L:846:SER:CB	2.47	0.45
1:L:964:CYS:CB	1:L:981:ARG:HD3	2.47	0.45
1:M:856:LEU:HD21	1:M:888:LYS:HB2	1.99	0.45
1:O:24:VAL:HG11	1:O:55:VAL:HG22	1.99	0.45
1:O:179:PHE:HB2	1:O:242:LEU:HD13	1.99	0.45
1:O:194:GLU:O	1:O:198:LYS:NZ	2.47	0.45
1:O:399:MET:HA	1:O:402:VAL:HG22	1.99	0.45
1:O:449:ILE:CG2	1:O:450:PRO:HD3	2.47	0.45
1:O:822:ARG:HH22	1:O:846:SER:HG	1.51	0.45
1:Q:685:PRO:HD2	1:Q:689:HIS:C	2.41	0.45
1:I:273:ASP:HB3	1:I:407:LYS:HZ3	1.82	0.45
1:I:562:LEU:HD22	1:I:581:VAL:HB	1.98	0.45
1:I:756:SER:HB2	1:I:771:PHE:CA	2.46	0.45
1:I:824:LYS:HA	1:I:832:PHE:H	1.82	0.45
1:K:113:LEU:HG	1:K:162:LEU:HD11	1.99	0.45
1:K:400:VAL:O	1:K:404:LYS:HG3	2.16	0.45
1:K:975:MET:HA	1:K:990:LYS:H	1.81	0.45
1:H:177:LYS:HG3	1:H:236:PRO:O	2.17	0.45
1:H:323:ARG:HA	1:H:326:ILE:HG22	1.98	0.45
1:H:367:LYS:HD2	1:H:367:LYS:HA	1.78	0.45
1:H:516:ASN:O	1:H:519:GLN:NE2	2.43	0.45
1:H:807:ASN:CG	1:H:853:ALA:HB1	2.41	0.45
1:J:626:ALA:O	1:J:628:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:660:PHE:CD1	1:J:676:LYS:HE2	2.51	0.45
1:J:814:LEU:HD21	1:J:823:SER:CB	2.28	0.45
1:J:1092:PRO:HG2	1:J:1111:GLU:OE2	2.17	0.45
1:L:183:LEU:HG	1:L:244:LEU:HD12	1.99	0.45
1:L:317:LEU:HB2	1:L:341:TRP:HH2	1.81	0.45
1:L:516:ASN:O	1:L:519:GLN:NE2	2.35	0.45
1:L:814:LEU:HD12	1:L:848:SER:HB3	1.99	0.45
1:L:851:SER:HB2	1:L:894:LEU:HD11	1.98	0.45
1:L:1024:SER:HB2	1:L:1026:PHE:CD2	2.51	0.45
1:L:1060:TYR:O	1:L:1066:PRO:O	2.34	0.45
1:M:69:GLN:HE22	1:M:71:GLU:HG3	1.82	0.45
1:M:100:SER:C	1:M:104:ARG:HE	2.24	0.45
1:M:174:MET:HE3	1:M:239:ASN:C	2.41	0.45
1:M:431:VAL:HA	1:M:434:GLU:HG2	1.98	0.45
1:M:524:TYR:OH	1:M:539:VAL:HB	2.17	0.45
1:M:1022:ALA:HB3	1:M:1047:THR:HG21	1.97	0.45
1:M:1025:ALA:HA	1:M:1047:THR:HG23	1.99	0.45
1:O:1070:VAL:HG22	1:O:1077:GLN:HG3	1.99	0.45
2:B:24:ILE:HA	2:B:27:GLU:HG2	1.97	0.45
2:C:47:GLN:CD	1:K:32:VAL:HA	2.42	0.45
2:D:24:ILE:O	2:D:28:TRP:HD1	1.99	0.45
1:Q:718:TYR:O	1:Q:726:PRO:HD2	2.16	0.45
1:I:42:LYS:O	1:I:45:ILE:HG22	2.16	0.45
1:I:725:LEU:CD1	1:I:772:VAL:CG1	2.94	0.45
1:I:987:VAL:CG2	1:I:999:ALA:N	2.54	0.45
1:I:997:LYS:HA	1:I:998:PRO:HD3	1.82	0.45
1:I:1131:PRO:HD2	1:I:1145:VAL:O	2.16	0.45
1:K:86:LYS:HA	1:K:86:LYS:HD2	1.74	0.45
1:K:494:PHE:HA	1:K:497:LEU:HB2	1.98	0.45
1:K:946:ARG:HD2	1:K:960:MET:O	2.16	0.45
1:H:247:VAL:HG23	1:H:265:THR:O	2.17	0.45
1:H:474:HIS:O	1:H:478:ILE:HG12	2.17	0.45
1:H:480:HIS:CB	1:H:530:ASP:HB2	2.43	0.45
1:H:498:GLU:HG3	1:H:519:GLN:HE22	1.81	0.45
1:H:1234:HIS:O	1:H:1236:ILE:HG23	2.16	0.45
1:J:79:GLU:N	1:J:79:GLU:OE1	2.49	0.45
1:J:304:TYR:HA	1:J:332:ARG:NH1	2.32	0.45
1:J:382:PRO:HG3	1:J:463:LEU:HD22	1.98	0.45
1:J:668:THR:HB	1:J:670:HIS:CE1	2.52	0.45
1:J:714:ILE:HG21	1:J:730:ILE:CG1	2.45	0.45
1:J:760:VAL:HB	1:J:761:LEU:H	1.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:816:LEU:HA	1:J:821:GLU:HA	1.99	0.45
1:J:818:VAL:O	1:J:842:LEU:HD12	2.17	0.45
1:J:1105:LYS:O	1:J:1130:ASN:N	2.50	0.45
1:L:459:ILE:HD13	1:L:497:LEU:HD11	1.98	0.45
1:L:1008:THR:H	1:L:1021:ASN:ND2	2.09	0.45
1:L:1062:LYS:NZ	1:L:1062:LYS:CB	2.73	0.45
1:M:101:MET:N	1:M:104:ARG:HH21	2.15	0.45
1:M:122:LYS:HE2	1:M:123:TYR:CE2	2.51	0.45
1:M:675:VAL:HB	1:M:681:TRP:NE1	2.31	0.45
1:M:1067:ASN:N	1:M:1081:ILE:O	2.50	0.45
1:O:81:LEU:HD23	1:O:89:MET:HG3	1.99	0.45
1:O:1136:LYS:HE2	1:O:1143:TYR:CE1	2.52	0.45
2:E:90:LEU:O	2:E:94:LEU:HD13	2.17	0.45
2:F:55:LEU:HB3	2:F:59:PRO:HB2	1.97	0.45
1:Q:976:ASP:O	1:Q:990:LYS:HB2	2.16	0.45
1:Q:1094:ASP:C	1:Q:1135:VAL:HG12	2.42	0.45
1:I:349:LEU:HA	1:I:352:ILE:HG22	1.99	0.45
1:I:579:LYS:O	1:I:582:GLN:HB3	2.16	0.45
1:I:638:GLU:OE1	1:I:652:SER:OG	2.31	0.45
1:K:714:ILE:O	1:K:729:ASN:HA	2.16	0.45
1:K:1049:LEU:H	1:K:1061:LEU:HD13	1.81	0.45
1:H:336:ALA:HB3	1:H:340:ASN:HD22	1.82	0.45
1:H:660:PHE:HB2	1:H:676:LYS:HB2	1.91	0.45
1:H:661:ASN:O	1:H:676:LYS:HB3	2.17	0.45
1:H:977:MET:CG	1:H:1009:ILE:HD13	2.46	0.45
1:H:1052:GLN:NE2	1:H:1052:GLN:HA	2.32	0.45
1:J:23:PHE:CD1	1:J:88:LEU:HD13	2.52	0.45
1:J:498:GLU:HG2	1:J:520:GLN:HG2	1.99	0.45
1:J:913:PRO:HB2	1:J:917:TYR:CE1	2.52	0.45
1:J:920:LEU:HD22	1:J:1241:PHE:CE2	2.52	0.45
1:J:1098:LEU:N	1:J:1098:LEU:CD2	2.80	0.45
1:J:1153:LEU:HD13	1:J:1153:LEU:HA	1.76	0.45
1:L:37:LYS:HA	1:L:37:LYS:HE2	1.98	0.45
1:L:46:ASP:O	1:L:50:MET:HE3	2.17	0.45
1:L:181:LEU:O	1:L:245:LEU:N	2.46	0.45
1:L:386:LEU:HD13	1:L:402:VAL:HG11	1.99	0.45
1:L:665:HIS:HA	1:L:672:ASN:HB3	1.99	0.45
1:L:926:LYS:HE3	1:L:1241:PHE:HD2	1.82	0.45
1:L:978:THR:CG2	1:L:986:ALA:N	2.77	0.45
1:L:1149:LEU:HD21	1:L:1167:ARG:HE	1.82	0.45
1:M:90:SER:OG	1:M:91:PRO:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:216:ASN:HB2	1:M:219:LEU:CB	2.46	0.45
1:M:666:LEU:HG	1:M:671:CYS:C	2.42	0.45
1:O:86:LYS:H	2:N:82:ARG:HH22	1.65	0.45
1:O:491:PHE:CD1	1:O:576:GLU:HG2	2.52	0.45
1:O:522:LYS:O	1:O:526:PRO:HG2	2.13	0.45
1:O:1134:PHE:HD2	1:O:1143:TYR:HD2	1.65	0.45
1:Q:969:VAL:HG11	1:Q:977:MET:HG2	1.98	0.45
1:I:41:SER:HB3	1:I:44:GLU:CG	2.47	0.45
1:I:1145:VAL:HG11	1:I:1182:GLU:C	2.42	0.45
1:K:44:GLU:HA	1:K:47:HIS:ND1	2.32	0.45
1:K:263:LEU:C	1:K:264:LEU:HD12	2.42	0.45
1:K:952:HIS:NE2	1:K:1246:LEU:HB2	2.32	0.45
1:K:1008:THR:OG1	1:K:1049:LEU:HD23	2.17	0.45
1:K:1151:ASN:HB3	1:K:1166:PHE:CE2	2.51	0.45
1:H:77:VAL:HG13	1:H:78:GLU:HG3	1.97	0.45
1:H:812:THR:HA	1:H:824:LYS:O	2.16	0.45
1:H:1027:ASN:O	1:H:1040:ILE:HB	2.17	0.45
1:H:1068:ILE:HG22	1:H:1080:VAL:HG13	1.98	0.45
1:J:432:LYS:HE2	1:J:433:LEU:HD21	1.98	0.45
1:J:450:PRO:HA	1:J:453:PHE:HB2	1.99	0.45
1:J:475:LEU:HD23	1:J:483:ARG:HA	1.99	0.45
1:J:531:ASN:HB2	1:J:532:ASP:H	1.57	0.45
1:J:622:LEU:HD12	1:J:663:GLN:CG	2.47	0.45
1:J:660:PHE:CD1	1:J:676:LYS:HE3	2.52	0.45
1:J:723:ALA:HA	1:J:744:LEU:HB3	1.99	0.45
1:J:1026:PHE:CB	1:J:1039:VAL:CG1	2.94	0.45
1:L:56:SER:O	1:L:60:ARG:HG2	2.16	0.45
1:L:460:PRO:HD2	1:L:462:TYR:CZ	2.52	0.45
1:L:534:LYS:O	1:L:537:ARG:HG3	2.16	0.45
1:L:1024:SER:HB2	1:L:1026:PHE:HD2	1.82	0.45
1:M:36:PRO:HB2	1:M:39:ILE:HG22	1.98	0.45
1:M:178:ILE:HG23	1:M:241:LEU:HD23	1.98	0.45
1:M:400:VAL:HG12	1:M:404:LYS:NZ	2.32	0.45
1:M:400:VAL:C	1:M:404:LYS:HZ2	2.25	0.45
1:M:762:LYS:CB	1:M:764:MET:SD	3.02	0.45
1:O:43:GLU:CD	1:O:46:ASP:HB2	2.42	0.45
1:O:521:LEU:HA	1:O:524:TYR:HB2	1.98	0.45
1:O:771:PHE:HD1	1:O:778:TYR:CE2	2.35	0.45
2:N:93:ALA:O	2:N:97:ILE:HG12	2.17	0.45
2:B:38:CYS:HA	2:B:43:ILE:HD12	1.99	0.45
2:G:34:LEU:HA	2:G:37:GLU:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:23:PHE:HA	1:Q:27:PHE:CD2	2.51	0.45
1:Q:331:ILE:HG23	1:Q:337:THR:HA	1.99	0.45
1:Q:825:THR:HG21	1:Q:830:LEU:CA	2.47	0.45
1:Q:849:LEU:CD2	1:Q:856:LEU:HG	2.47	0.45
1:I:218:LYS:O	1:I:221:ILE:HG22	2.17	0.45
1:I:241:LEU:HA	1:I:261:LYS:O	2.17	0.45
1:I:498:GLU:HA	1:I:501:ILE:HG22	1.98	0.45
1:I:655:LEU:O	1:I:656:ARG:NE	2.41	0.45
1:I:919:VAL:HG12	1:I:920:LEU:N	2.31	0.45
1:K:174:MET:SD	1:K:241:LEU:HG	2.57	0.45
1:H:243:VAL:HG12	1:H:245:LEU:HD12	1.99	0.45
1:H:492:LEU:HD22	1:H:577:ALA:HB2	1.99	0.45
1:H:621:CYS:HB3	1:H:900:GLU:OE2	2.15	0.45
1:H:660:PHE:CE1	1:H:677:LEU:CG	2.83	0.45
1:H:955:ASP:HB3	1:H:959:VAL:CG2	2.46	0.45
1:H:1065:SER:O	1:H:1103:SER:HB2	2.17	0.45
1:J:372:LEU:HD13	1:J:375:PHE:CE1	2.51	0.45
1:J:475:LEU:HD11	1:J:486:LEU:HG	1.98	0.45
1:L:148:LEU:HB2	1:L:282:HIS:HD2	1.82	0.45
1:M:336:ALA:O	1:M:340:ASN:HB2	2.16	0.45
1:M:816:LEU:HD13	1:M:846:SER:HB2	1.98	0.45
1:O:497:LEU:HD23	1:O:497:LEU:HA	1.82	0.45
1:O:502:ARG:HD2	1:O:502:ARG:HA	1.87	0.45
1:O:637:LEU:HD11	1:O:657:MET:C	2.32	0.45
1:O:659:VAL:O	1:O:676:LYS:CA	2.65	0.45
1:O:895:ARG:CA	1:O:911:PHE:HB3	2.47	0.45
1:O:995:LEU:HD23	1:O:995:LEU:O	2.18	0.45
1:O:1143:TYR:CE2	1:O:1186:ALA:HB2	2.52	0.45
1:O:1218:GLU:HB2	1:O:1237:ARG:CG	2.46	0.45
2:N:10:MET:CG	2:N:15:ARG:NH1	2.80	0.45
2:N:12:LYS:HD2	2:N:15:ARG:HB2	1.99	0.45
1:Q:705:PHE:CD1	1:Q:705:PHE:N	2.84	0.45
1:Q:748:GLU:HG2	1:Q:804:HIS:HD2	1.81	0.45
1:I:48:ILE:HG13	1:I:60:ARG:HH22	1.81	0.45
1:I:822:ARG:HE	1:I:834:TYR:HE1	1.65	0.45
1:I:929:VAL:CG2	1:I:969:VAL:HG23	2.47	0.45
1:I:987:VAL:N	1:I:993:ILE:HG13	2.31	0.45
1:I:1060:TYR:HB2	1:I:1068:ILE:CG2	2.47	0.45
1:I:1237:ARG:HB2	1:I:1241:PHE:HD2	1.81	0.45
1:K:156:GLY:HA2	1:K:159:TRP:HD1	1.76	0.45
1:K:579:LYS:O	1:K:582:GLN:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1067:ASN:ND2	1:K:1091:GLN:HG2	2.32	0.45
1:H:1010:THR:HB	1:H:1011:PRO:CD	2.34	0.44
1:J:40:LEU:HD13	1:J:68:LYS:HE3	1.99	0.44
1:J:120:PHE:CE2	1:J:162:LEU:HB2	2.52	0.44
1:J:131:TYR:CD2	1:J:164:VAL:HG12	2.52	0.44
1:J:146:ASN:HB3	1:J:262:ILE:HG13	1.99	0.44
1:J:276:SER:OG	1:J:279:THR:OG1	2.28	0.44
1:J:482:GLU:O	1:J:486:LEU:N	2.44	0.44
1:J:518:LEU:HD13	1:J:646:ARG:HA	1.99	0.44
1:J:771:PHE:CZ	1:J:778:TYR:HD1	2.35	0.44
1:J:803:LEU:N	1:J:803:LEU:CD2	2.73	0.44
1:L:301:LEU:O	1:L:305:LEU:HB2	2.17	0.44
1:L:401:VAL:HA	1:L:404:LYS:CE	2.47	0.44
1:M:97:ARG:HH11	1:M:97:ARG:C	2.25	0.44
1:M:107:ILE:HG23	1:M:110:ARG:HH21	1.81	0.44
1:M:463:LEU:CD2	1:M:465:GLN:HE21	2.25	0.44
1:M:676:LYS:HB2	1:M:678:TRP:HE3	1.81	0.44
1:M:1145:VAL:HG13	1:M:1181:CYS:HB2	2.00	0.44
1:O:35:MET:HE2	1:O:35:MET:HA	1.99	0.44
1:O:1025:ALA:N	1:O:1045:HIS:O	2.50	0.44
2:B:95:ARG:HH22	2:B:107:GLU:CD	2.26	0.44
2:G:44:LEU:HB3	2:G:49:LEU:O	2.16	0.44
1:Q:1067:ASN:O	1:Q:1080:VAL:HG21	2.17	0.44
1:I:147:VAL:HA	1:I:281:THR:HG1	1.82	0.44
1:I:384:ILE:HG23	1:I:385:LEU:HD22	1.99	0.44
1:I:766:SER:HB3	1:I:780:VAL:HG23	1.99	0.44
1:I:824:LYS:HE2	1:I:831:ILE:HG12	1.99	0.44
1:I:968:ASN:ND2	1:I:1009:ILE:HG21	2.28	0.44
1:I:1020:ILE:O	1:I:1020:ILE:HG23	2.17	0.44
1:I:1106:TYR:CD2	1:I:1106:TYR:O	2.70	0.44
1:K:71:GLU:HA	1:K:74:GLN:CD	2.42	0.44
1:K:133:LYS:HA	1:K:136:GLN:NE2	2.32	0.44
1:K:183:LEU:O	1:K:184:LYS:HE2	2.17	0.44
1:K:761:LEU:HD22	1:K:804:HIS:NE2	2.33	0.44
1:K:812:THR:HG22	1:K:832:PHE:CD2	2.52	0.44
1:K:848:SER:C	1:K:849:LEU:HD23	2.41	0.44
1:K:1046:ASP:O	1:K:1063:GLN:N	2.31	0.44
1:K:1237:ARG:HG3	1:K:1239:LEU:HB2	2.00	0.44
1:H:975:MET:CG	1:H:993:ILE:HG22	2.20	0.44
1:J:358:ASN:HA	1:J:366:ARG:HH12	1.82	0.44
1:J:524:TYR:CE2	1:J:543:LEU:HD12	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:634:ASP:HB2	1:J:636:SER:H	1.81	0.44
1:J:1054:ILE:HG21	1:J:1069:LEU:HA	2.00	0.44
1:L:132:LEU:HD12	1:L:135:ARG:NH2	2.31	0.44
1:L:1183:GLU:CD	1:L:1224:LEU:H	2.25	0.44
1:M:1203:LEU:HG	1:M:1204:ALA:H	1.83	0.44
1:O:414:GLN:NE2	1:O:419:THR:HG23	2.32	0.44
1:O:524:TYR:HB3	1:O:543:LEU:HD12	1.99	0.44
1:O:706:ILE:HG12	1:O:806:PHE:HE2	1.82	0.44
1:O:1110:GLN:NE2	1:O:1121:HIS:O	2.50	0.44
2:C:23:ASN:OD1	2:C:24:ILE:HD12	2.16	0.44
2:D:105:LEU:O	2:D:108:SER:OG	2.33	0.44
2:F:24:ILE:HA	2:F:28:TRP:HZ3	1.82	0.44
1:Q:39:ILE:HD12	1:Q:80:VAL:HG21	1.99	0.44
1:Q:866:LYS:HD2	1:Q:876:LEU:HB2	0.54	0.44
1:I:1084:LEU:HD13	1:I:1105:LYS:CG	2.46	0.44
1:H:491:PHE:HA	1:H:576:GLU:HG2	2.00	0.44
1:H:704:ARG:HH12	1:H:749:GLN:C	2.24	0.44
1:H:782:CYS:SG	1:H:822:ARG:NH2	2.90	0.44
1:H:987:VAL:HG22	1:H:996:ILE:HG23	1.90	0.44
1:H:989:SER:OG	1:H:994:HIS:O	2.34	0.44
1:J:627:SER:OG	1:J:644:LEU:HD11	2.17	0.44
1:J:845:LEU:HD22	1:J:887:LEU:HA	2.00	0.44
1:J:1019:LYS:CE	1:J:1053:PHE:HB3	2.48	0.44
1:L:160:VAL:O	1:L:164:VAL:HG23	2.17	0.44
1:L:641:ASP:O	1:L:650:ASP:N	2.50	0.44
1:L:728:ALA:HA	1:L:736:PHE:HD1	1.82	0.44
1:L:808:VAL:HG23	1:L:852:GLU:N	2.32	0.44
1:L:824:LYS:HA	1:L:830:LEU:O	2.17	0.44
1:M:64:THR:O	1:M:68:LYS:HG2	2.16	0.44
1:M:397:ASP:O	1:M:401:VAL:HG23	2.17	0.44
1:O:56:SER:HB3	1:O:60:ARG:NH1	2.33	0.44
2:B:33:ARG:NH1	2:B:36:MET:SD	2.90	0.44
2:D:95:ARG:NH1	2:D:103:ALA:HB1	2.32	0.44
1:Q:207:TRP:CE2	1:Q:224:ILE:HD13	2.52	0.44
1:Q:502:ARG:HB3	1:Q:516:ASN:N	2.32	0.44
1:Q:704:ARG:O	1:Q:719:LEU:CD1	2.59	0.44
1:I:151:GLY:C	1:I:157:LYS:HE2	2.41	0.44
1:I:668:THR:HG1	1:I:670:HIS:CE1	2.33	0.44
1:I:807:ASN:ND2	1:I:808:VAL:H	2.14	0.44
1:I:987:VAL:HA	1:I:1030:GLN:HG2	1.99	0.44
1:K:746:TRP:HD1	1:K:762:LYS:HD3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:156:GLY:HA2	1:H:322:ARG:HH12	1.82	0.44
1:J:24:VAL:HA	1:J:54:ALA:HB1	1.98	0.44
1:J:105:MET:HE2	1:J:105:MET:HB2	1.90	0.44
1:J:107:ILE:HG23	1:I:142:ARG:NH2	2.33	0.44
1:J:112:ARG:HA	1:J:115:ASN:HB3	1.99	0.44
1:J:141:LEU:HD13	1:J:147:VAL:HG23	1.99	0.44
1:J:183:LEU:HD12	1:J:247:VAL:HA	1.99	0.44
1:J:382:PRO:HD2	1:J:385:LEU:HD12	2.00	0.44
1:J:406:HIS:ND1	1:J:412:GLU:HA	2.32	0.44
1:L:413:LYS:HG2	1:L:420:ILE:HG12	1.99	0.44
1:M:45:ILE:HA	1:M:48:ILE:HB	1.99	0.44
1:M:666:LEU:HD13	1:M:730:ILE:HD13	1.98	0.44
1:M:946:ARG:NH2	1:M:978:THR:HB	2.32	0.44
1:M:1018:CYS:SG	1:M:1031:ILE:HA	2.58	0.44
1:M:1102:VAL:HG22	1:M:1109:LEU:CD1	2.47	0.44
1:M:1185:ILE:HG12	1:M:1195:VAL:HG22	2.00	0.44
1:O:155:SER:HB3	1:O:157:LYS:CD	2.48	0.44
1:O:181:LEU:HD21	1:O:199:LEU:HD12	2.00	0.44
1:O:220:ARG:HA	1:O:220:ARG:CZ	2.47	0.44
1:O:837:TRP:CH2	1:O:845:LEU:O	2.70	0.44
2:B:72:HIS:O	2:B:75:LEU:HB2	2.17	0.44
1:Q:80:VAL:O	1:Q:83:ILE:HG23	2.18	0.44
1:Q:762:LYS:HE2	1:Q:768:ILE:HD12	1.98	0.44
1:Q:928:VAL:HG11	1:Q:1234:HIS:CD2	2.53	0.44
1:I:23:PHE:CD2	1:I:62:PHE:HZ	2.36	0.44
1:I:178:ILE:HG23	1:I:241:LEU:HD23	1.99	0.44
1:I:708:SER:HB3	1:I:715:VAL:HB	2.00	0.44
1:I:716:ALA:HB3	1:I:718:TYR:CZ	2.53	0.44
1:I:1108:SER:H	1:I:1130:ASN:HD22	1.58	0.44
1:K:326:ILE:HG21	1:K:349:LEU:HD13	1.99	0.44
1:K:386:LEU:HA	1:K:389:ILE:HG22	1.99	0.44
1:K:458:LEU:C	1:K:460:PRO:HD3	2.43	0.44
1:K:786:CYS:SG	1:K:822:ARG:HG3	2.57	0.44
1:K:910:LEU:C	1:K:914:VAL:HG23	2.42	0.44
1:K:927:GLN:OE1	1:K:968:ASN:HA	2.17	0.44
1:K:1166:PHE:HB3	1:K:1167:ARG:H	1.57	0.44
1:H:160:VAL:O	1:H:164:VAL:HG22	2.18	0.44
1:H:804:HIS:HA	1:H:814:LEU:O	2.17	0.44
1:H:954:ALA:C	1:H:990:LYS:NZ	2.75	0.44
1:H:1048:ALA:HB3	1:H:1061:LEU:O	2.18	0.44
1:J:35:MET:HE2	1:J:40:LEU:N	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:439:LEU:HA	1:J:442:SER:HB2	2.00	0.44
1:J:1025:ALA:H	1:J:1045:HIS:HA	1.83	0.44
1:L:331:ILE:HG12	1:L:336:ALA:O	2.17	0.44
1:L:979:ARG:HH12	1:L:1020:ILE:CG2	2.30	0.44
1:M:823:SER:OG	1:M:832:PHE:HB2	2.17	0.44
1:M:1085:GLU:HG2	1:M:1085:GLU:O	2.17	0.44
1:M:1098:LEU:HD23	1:M:1099:MET:HE3	2.00	0.44
1:O:180:TRP:C	1:O:181:LEU:HD22	2.42	0.44
1:O:444:VAL:O	1:O:448:ASN:N	2.48	0.44
1:O:837:TRP:HE1	1:O:843:PRO:HG2	1.82	0.44
1:O:845:LEU:H	1:O:845:LEU:HG	1.41	0.44
1:O:946:ARG:NH1	1:O:964:CYS:SG	2.90	0.44
2:F:68:ARG:HA	2:F:71:GLN:HB2	1.99	0.44
2:G:17:HIS:NE2	2:G:106:LEU:HA	2.32	0.44
1:Q:12:TYR:CD2	1:Q:12:TYR:O	2.71	0.44
1:Q:149:ILE:O	1:Q:265:THR:HA	2.18	0.44
1:Q:1187:GLN:HB2	1:Q:1192:SER:O	2.17	0.44
1:I:633:THR:HG22	1:I:639:GLY:CA	2.45	0.44
1:I:989:SER:CA	1:I:993:ILE:CG2	2.96	0.44
1:K:29:CYS:HB2	1:K:61:LEU:HD11	2.00	0.44
1:K:37:LYS:O	1:K:37:LYS:HD3	2.17	0.44
1:K:133:LYS:HA	1:K:136:GLN:CD	2.43	0.44
1:K:804:HIS:HB3	1:K:814:LEU:O	2.17	0.44
1:H:148:LEU:HD13	1:H:266:THR:HG23	1.98	0.44
1:H:150:ASP:OD1	1:H:282:HIS:NE2	2.51	0.44
1:H:1052:GLN:CD	1:H:1058:ILE:HG12	2.42	0.44
1:H:1083:GLN:HB2	1:H:1110:GLN:OE1	2.17	0.44
1:J:107:ILE:CD1	1:J:110:ARG:HE	2.31	0.44
1:J:155:SER:C	1:J:321:PRO:HG2	2.42	0.44
1:J:370:ASP:OD2	1:J:371:ARG:NH1	2.48	0.44
1:J:611:ARG:NE	1:J:613:ALA:HB2	2.33	0.44
1:J:743:ILE:CB	1:J:775:LEU:HD21	2.21	0.44
1:J:745:ASN:N	1:J:745:ASN:ND2	2.63	0.44
1:J:1047:THR:HG21	1:J:1062:LYS:HE3	1.99	0.44
1:L:516:ASN:C	1:L:519:GLN:HE22	2.22	0.44
1:L:922:GLY:HA3	1:L:926:LYS:HZ3	1.82	0.44
1:L:1062:LYS:HG2	1:L:1066:PRO:HA	1.98	0.44
1:M:414:GLN:OE1	1:M:420:ILE:HA	2.17	0.44
1:M:637:LEU:HD12	1:M:660:PHE:CE1	2.52	0.44
1:O:373:SER:OG	1:O:435:ASN:ND2	2.49	0.44
1:O:623:ILE:HG23	1:O:644:LEU:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:684:CYS:HA	1:O:691:GLY:N	2.32	0.44
1:O:820:ASP:N	1:O:837:TRP:HA	2.33	0.44
1:Q:133:LYS:O	1:Q:136:GLN:NE2	2.50	0.44
1:Q:171:GLN:HB3	1:Q:176:PHE:HD1	1.82	0.44
1:Q:180:TRP:CE2	1:Q:243:VAL:HG21	2.53	0.44
1:Q:685:PRO:HD3	1:Q:690:SER:O	2.18	0.44
1:Q:866:LYS:CD	1:Q:876:LEU:HD12	2.47	0.44
1:I:51:SER:HB3	1:I:60:ARG:HH21	1.82	0.44
1:I:107:ILE:O	1:I:110:ARG:HG3	2.17	0.44
1:I:235:LYS:HA	1:I:238:GLU:HG3	2.00	0.44
1:I:414:GLN:HA	1:I:415:PRO:HD3	1.86	0.44
1:I:523:PHE:C	1:I:526:PRO:HD2	2.43	0.44
1:I:528:ILE:O	1:I:531:ASN:N	2.51	0.44
1:I:536:GLU:C	1:I:536:GLU:CD	2.86	0.44
1:I:987:VAL:HG21	1:I:997:LYS:C	2.43	0.44
1:K:113:LEU:HD22	1:K:166:LEU:HD21	1.99	0.44
1:K:253:TRP:O	1:K:257:ASN:N	2.51	0.44
1:K:270:GLN:HE21	1:K:270:GLN:HB2	1.61	0.44
1:K:428:GLU:HG2	1:K:432:LYS:NZ	2.31	0.44
1:K:762:LYS:HE3	1:K:764:MET:HE1	1.99	0.44
1:K:867:ARG:HD2	1:K:872:ARG:C	2.43	0.44
1:K:896:SER:HA	1:K:910:LEU:HA	1.98	0.44
1:H:338:TRP:HA	1:H:341:TRP:HB3	2.00	0.44
1:H:617:HIS:H	1:H:635:VAL:HG11	1.83	0.44
1:H:640:GLU:CB	1:H:651:SER:O	2.62	0.44
1:H:771:PHE:CB	1:H:774:VAL:HB	2.48	0.44
1:H:928:VAL:HG21	1:H:1234:HIS:O	2.18	0.44
1:H:1226:TYR:CE1	1:H:1233:GLU:CG	3.00	0.44
1:J:196:LEU:O	1:J:199:LEU:HB3	2.18	0.44
1:J:293:THR:HG23	1:J:296:GLU:H	1.83	0.44
1:J:457:ASP:HB3	1:J:583:ARG:NE	2.31	0.44
1:J:935:ARG:HD2	1:J:1234:HIS:CE1	2.53	0.44
1:J:1219:ASN:O	1:J:1238:GLN:HG3	2.18	0.44
1:M:253:TRP:O	1:M:256:PHE:N	2.51	0.44
1:M:1068:ILE:HG13	1:M:1080:VAL:HG22	1.98	0.44
1:O:270:GLN:N	1:O:407:LYS:O	2.50	0.44
1:O:725:LEU:N	1:O:739:GLY:O	2.50	0.44
2:B:101:ASP:OD1	2:B:102:ALA:N	2.50	0.44
1:Q:129:GLN:HB3	1:Q:130:PRO:HD3	2.00	0.44
1:Q:275:LEU:O	1:Q:282:HIS:NE2	2.44	0.44
1:Q:981:ARG:HD3	1:Q:981:ARG:HA	1.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:239:ASN:OD1	1:I:239:ASN:N	2.50	0.44
1:I:383:THR:O	1:I:386:LEU:HG	2.18	0.44
1:I:630:ILE:HD11	1:I:644:LEU:HG	1.99	0.44
1:I:664:LYS:NZ	1:I:681:TRP:HH2	2.15	0.44
1:I:753:PHE:CD1	1:I:753:PHE:C	2.96	0.44
1:K:1023:ILE:C	1:K:1025:ALA:H	2.25	0.44
1:H:76:PHE:CE2	1:H:81:LEU:HD12	2.52	0.44
1:H:350:THR:HG21	1:H:433:LEU:HD12	2.00	0.44
1:H:631:LEU:HG	1:H:665:HIS:HE1	1.81	0.44
1:H:704:ARG:HG3	1:H:705:PHE:N	2.33	0.44
1:H:785:ASN:ND2	1:H:836:VAL:CG2	2.78	0.44
1:H:816:LEU:HD23	1:H:816:LEU:HA	1.92	0.44
1:H:1151:ASN:ND2	1:H:1195:VAL:HB	2.32	0.44
1:J:133:LYS:HA	1:J:136:GLN:OE1	2.18	0.44
1:J:267:ARG:HA	1:J:267:ARG:HD3	1.88	0.44
1:J:415:PRO:HA	1:J:418:SER:HA	2.00	0.44
1:J:725:LEU:HB2	1:J:741:VAL:CG2	2.47	0.44
1:J:814:LEU:HD23	1:J:823:SER:HA	1.99	0.44
1:J:850:GLN:H	1:J:894:LEU:HD11	1.83	0.44
1:J:996:ILE:O	1:J:998:PRO:HD3	2.17	0.44
1:J:1062:LYS:HZ2	1:J:1066:PRO:HB2	1.83	0.44
1:L:101:MET:C	1:L:105:MET:HE1	2.42	0.44
1:L:757:HIS:CE1	1:L:771:PHE:HA	2.53	0.44
1:L:848:SER:HB3	1:L:855:GLN:NE2	2.33	0.44
1:L:1143:TYR:CE2	1:L:1153:LEU:HA	2.53	0.44
1:M:21:ASP:OD1	1:M:21:ASP:N	2.51	0.44
1:M:44:GLU:HB2	1:M:60:ARG:HH12	1.83	0.44
1:M:399:MET:O	1:M:402:VAL:HG12	2.18	0.44
1:M:663:GLN:HA	1:M:674:SER:HA	1.99	0.44
1:M:946:ARG:NE	1:M:978:THR:HG21	2.32	0.44
1:O:396:SER:HB2	1:O:399:MET:SD	2.58	0.44
1:O:618:ASN:ND2	1:O:904:CYS:HB3	2.33	0.44
1:O:716:ALA:O	1:O:727:GLU:HA	2.18	0.44
1:O:1042:ASP:CB	1:O:1062:LYS:HD3	2.48	0.44
2:N:12:LYS:HA	2:N:15:ARG:HD3	1.99	0.44
2:E:15:ARG:O	2:E:19:ARG:HD3	2.18	0.44
2:F:95:ARG:NH2	2:F:100:LEU:HG	2.28	0.44
1:Q:498:GLU:CG	1:Q:519:GLN:HE22	2.31	0.44
1:Q:1060:TYR:O	1:Q:1061:LEU:HD23	2.18	0.44
1:I:247:VAL:HG21	1:I:264:LEU:HB2	2.00	0.44
1:I:298:LYS:HA	1:I:301:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:368:MET:HA	1:I:371:ARG:HG3	1.99	0.44
1:I:472:GLY:HA2	1:I:487:PHE:CE1	2.53	0.44
1:K:112:ARG:HH22	1:K:115:ASN:ND2	2.13	0.44
1:K:274:PHE:CD2	1:K:275:LEU:HD22	2.53	0.44
1:K:369:PHE:HA	1:K:372:LEU:HD13	2.00	0.44
1:H:131:TYR:OH	1:H:163:ASP:OD2	2.22	0.44
1:H:518:LEU:HD11	1:H:646:ARG:HE	1.83	0.44
1:H:894:LEU:O	1:H:895:ARG:HD2	2.18	0.44
1:H:977:MET:CE	1:H:1018:CYS:CB	2.96	0.44
1:J:803:LEU:HD11	1:J:843:PRO:O	2.18	0.44
1:J:1153:LEU:HD12	1:J:1155:PHE:CD1	2.53	0.44
1:L:129:GLN:NE2	1:L:289:SER:OG	2.51	0.44
1:L:849:LEU:HD13	1:L:854:VAL:HG12	2.00	0.44
1:L:1019:LYS:HE2	1:L:1058:ILE:HG23	2.00	0.44
1:L:1042:ASP:HB3	1:L:1062:LYS:HE3	1.99	0.44
1:M:123:TYR:HB3	1:M:304:TYR:OH	2.18	0.44
1:M:183:LEU:O	1:M:248:GLN:NE2	2.51	0.44
1:M:184:LYS:N	1:M:186:CYS:SG	2.91	0.44
1:M:354:GLU:HG2	1:M:430:LYS:HZ1	1.83	0.44
1:M:372:LEU:HA	1:M:375:PHE:HE2	1.83	0.44
1:M:714:ILE:HG23	1:M:729:ASN:CG	2.43	0.44
1:M:1136:LYS:HE3	1:M:1143:TYR:HE1	1.83	0.44
1:O:979:ARG:HG3	1:O:979:ARG:O	2.18	0.44
2:C:88:ASN:O	2:C:91:ILE:HB	2.18	0.44
2:D:46:VAL:HG22	2:D:50:ARG:HH21	1.82	0.44
2:E:61:ASN:OD1	2:E:62:MET:N	2.50	0.44
2:E:87:TYR:OH	2:E:110:ASP:HB2	2.17	0.44
1:Q:673:GLY:CA	1:Q:682:PRO:O	2.57	0.44
1:Q:767:GLY:N	1:Q:781:VAL:O	2.45	0.44
1:Q:1046:ASP:HB2	1:Q:1063:GLN:CD	2.43	0.44
1:I:406:HIS:HD1	1:I:412:GLU:HA	1.83	0.44
1:I:475:LEU:HB3	1:I:487:PHE:CE1	2.52	0.44
1:K:131:TYR:CD1	1:K:164:VAL:HG12	2.53	0.44
1:K:148:LEU:HD11	1:K:272:THR:HA	1.99	0.44
1:K:473:HIS:ND1	1:K:474:HIS:CD2	2.86	0.44
1:K:707:GLY:HA2	1:K:716:ALA:HA	1.99	0.44
1:K:815:ALA:O	1:K:821:GLU:HA	2.18	0.44
1:K:922:GLY:O	1:K:1240:LEU:HG	2.18	0.44
1:H:183:LEU:HA	1:H:186:CYS:SG	2.58	0.43
1:H:1109:LEU:CD2	1:H:1144:ILE:HG21	2.48	0.43
1:H:1217:VAL:HG23	1:H:1238:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:486:LEU:C	1:J:488:ARG:N	2.76	0.43
1:J:688:ARG:H	1:J:688:ARG:HG3	1.62	0.43
1:J:813:PRO:O	1:J:823:SER:CA	2.35	0.43
1:J:1010:THR:OG1	1:J:1052:GLN:HA	2.18	0.43
1:J:1226:TYR:CG	1:J:1233:GLU:HB3	2.53	0.43
1:L:82:ARG:HH21	1:L:93:LYS:NZ	2.16	0.43
1:L:117:ASN:HD21	1:L:120:PHE:HB3	1.82	0.43
1:L:127:ARG:NH1	1:L:129:GLN:H	2.16	0.43
1:L:396:SER:O	1:L:399:MET:HG3	2.18	0.43
1:L:866:LYS:O	1:L:875:LEU:N	2.50	0.43
1:L:876:LEU:HD13	1:L:915:TYR:CD1	2.53	0.43
1:L:929:VAL:HG23	1:L:931:VAL:HG13	2.00	0.43
1:L:1091:GLN:HB3	1:L:1104:THR:O	2.18	0.43
1:M:55:VAL:C	1:M:57:GLY:N	2.76	0.43
1:M:190:GLU:O	1:M:193:LEU:HB3	2.18	0.43
1:M:190:GLU:O	1:M:194:GLU:OE1	2.37	0.43
1:M:380:HIS:HB2	1:M:465:GLN:CD	2.43	0.43
1:M:399:MET:HA	1:M:402:VAL:HG12	2.00	0.43
1:M:833:LYS:HZ1	1:M:872:ARG:HA	1.83	0.43
1:O:146:ASN:OD1	1:O:280:THR:HG22	2.17	0.43
1:O:171:GLN:HG3	1:O:176:PHE:CD1	2.53	0.43
1:O:213:HIS:H	1:O:220:ARG:CD	2.30	0.43
1:O:936:SER:OG	1:O:948:ILE:HD11	2.18	0.43
2:C:65:LYS:HD2	2:C:66:ASP:N	2.33	0.43
2:D:82:ARG:NH1	2:D:89:LEU:HD23	2.33	0.43
1:Q:131:TYR:CD2	1:Q:164:VAL:HG12	2.52	0.43
1:Q:475:LEU:HD12	1:Q:487:PHE:CE1	2.53	0.43
1:Q:623:ILE:HB	1:Q:897:ASN:CB	2.47	0.43
1:Q:824:LYS:HD3	1:Q:824:LYS:HA	1.60	0.43
1:I:193:LEU:HD21	1:I:220:ARG:HE	1.82	0.43
1:I:1134:PHE:CE2	1:I:1186:ALA:HB3	2.53	0.43
1:I:1148:ASP:HB2	1:I:1150:LYS:HD2	2.00	0.43
1:K:36:PRO:O	1:K:38:SER:N	2.51	0.43
1:K:147:VAL:HB	1:K:263:LEU:CD1	2.48	0.43
1:K:449:ILE:N	1:K:450:PRO:CD	2.81	0.43
1:H:809:GLU:OE1	1:H:811:ASP:HB2	2.19	0.43
1:H:955:ASP:N	1:H:990:LYS:HZ2	2.16	0.43
1:H:1143:TYR:CE2	1:H:1153:LEU:HD23	2.53	0.43
1:J:522:LYS:HD3	1:J:525:LYS:NZ	2.33	0.43
1:J:762:LYS:HD3	1:J:762:LYS:H	1.83	0.43
1:J:813:PRO:HG2	1:J:824:LYS:CA	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1083:GLN:NE2	1:J:1101:ASP:CB	2.76	0.43
1:L:129:GLN:HG2	1:L:133:LYS:HZ2	1.83	0.43
1:L:443:ILE:HD12	1:L:446:HIS:ND1	2.33	0.43
1:L:517:THR:HA	1:L:520:GLN:CD	2.43	0.43
1:L:625:LEU:H	1:L:669:LEU:HD13	1.82	0.43
1:L:746:TRP:N	1:L:762:LYS:HG2	2.33	0.43
1:L:923:ALA:O	1:L:926:LYS:HG3	2.18	0.43
1:M:131:TYR:CD1	1:M:164:VAL:HG12	2.53	0.43
1:M:388:LEU:HD11	1:M:449:ILE:HD12	2.00	0.43
1:M:440:HIS:CG	1:M:441:ARG:N	2.86	0.43
1:M:447:TYR:C	1:M:450:PRO:HD2	2.43	0.43
1:O:12:TYR:HE1	1:O:97:ARG:NH2	2.07	0.43
1:O:620:PHE:CD2	1:O:662:GLN:HA	2.53	0.43
1:O:704:ARG:O	1:O:719:LEU:HD12	2.17	0.43
1:O:746:TRP:N	1:O:762:LYS:HD3	2.33	0.43
2:N:26:VAL:HA	2:N:72:HIS:HD2	1.82	0.43
2:A:21:ASN:HA	2:A:24:ILE:HD13	1.99	0.43
2:D:15:ARG:O	2:D:19:ARG:HD3	2.17	0.43
2:E:55:LEU:HB2	2:E:71:GLN:HG2	2.00	0.43
1:Q:152:VAL:HG13	1:Q:286:ASP:HB3	2.00	0.43
1:Q:411:VAL:HG23	1:Q:422:ILE:HG13	2.00	0.43
1:Q:618:ASN:HB3	1:Q:901:HIS:N	2.33	0.43
1:Q:825:THR:OG1	1:Q:830:LEU:HD12	2.18	0.43
1:Q:1061:LEU:CD2	1:Q:1091:GLN:HB2	2.48	0.43
1:I:127:ARG:HA	1:I:127:ARG:HD2	1.78	0.43
1:I:401:VAL:O	1:I:404:LYS:HG2	2.18	0.43
1:I:753:PHE:HB3	1:I:810:ASN:HD22	1.82	0.43
1:I:781:VAL:HG11	1:I:822:ARG:NH1	2.33	0.43
1:I:837:TRP:HB3	1:I:867:ARG:HH22	1.82	0.43
1:K:468:TYR:CE1	1:K:501:ILE:HD13	2.53	0.43
1:K:643:TYR:HE2	1:K:645:LEU:HB2	1.83	0.43
1:K:824:LYS:HB3	1:K:830:LEU:O	2.18	0.43
1:K:833:LYS:HG2	1:K:872:ARG:NH2	2.33	0.43
1:K:965:LEU:HB2	1:K:979:ARG:HB3	2.00	0.43
1:H:180:TRP:HE3	1:H:245:LEU:HD11	1.81	0.43
1:H:354:GLU:HA	1:H:430:LYS:NZ	2.33	0.43
1:H:459:ILE:HD13	1:H:497:LEU:HD11	2.00	0.43
1:H:717:PHE:HD1	1:H:727:GLU:HG2	1.83	0.43
1:H:1029:GLU:OE1	1:H:1072:SER:HB3	2.18	0.43
1:J:156:GLY:HA2	1:J:159:TRP:CD1	2.53	0.43
1:J:186:CYS:HB3	1:J:195:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:246:ASN:O	1:J:248:GLN:NE2	2.51	0.43
1:J:373:SER:OG	1:J:435:ASN:ND2	2.52	0.43
1:J:815:ALA:HB3	1:J:822:ARG:HB2	2.00	0.43
1:J:833:LYS:HD3	1:J:872:ARG:CG	2.49	0.43
1:J:888:LYS:HB2	1:J:897:ASN:HD22	1.84	0.43
1:J:903:GLU:O	1:J:904:CYS:HB2	2.18	0.43
1:J:1026:PHE:CE1	1:J:1041:ILE:HG23	2.53	0.43
1:J:1136:LYS:HE2	1:J:1193:TYR:CE1	2.50	0.43
1:L:448:ASN:O	1:L:452:THR:HG23	2.17	0.43
1:L:1009:ILE:HD13	1:L:1020:ILE:CG1	2.47	0.43
1:M:120:PHE:HD1	1:M:159:TRP:CE3	2.35	0.43
1:M:349:LEU:HD13	1:M:352:ILE:HD11	2.01	0.43
1:M:949:ALA:HA	1:M:956:GLU:HA	2.00	0.43
1:O:129:GLN:HB3	1:O:130:PRO:HD3	2.00	0.43
1:O:401:VAL:O	1:O:404:LYS:HG2	2.18	0.43
2:N:37:GLU:CD	2:N:40:GLN:HE21	2.25	0.43
2:N:64:GLU:HA	2:N:67:VAL:HG23	2.01	0.43
2:A:70:GLU:HA	2:A:73:ARG:HG2	2.01	0.43
2:C:33:ARG:NH2	2:C:96:ASN:O	2.38	0.43
2:D:18:ILE:HD13	2:D:80:THR:HB	2.00	0.43
1:Q:498:GLU:HG3	1:Q:519:GLN:HE22	1.83	0.43
1:I:13:LYS:HE2	1:I:13:LYS:HB2	1.72	0.43
1:I:157:LYS:HZ3	1:I:267:ARG:NH1	2.15	0.43
1:I:486:LEU:HD13	1:I:488:ARG:NH1	2.34	0.43
1:I:531:ASN:HB3	1:I:532:ASP:H	1.66	0.43
1:I:920:LEU:O	1:I:920:LEU:HD23	2.18	0.43
1:K:30:LYS:HG3	1:K:49:ILE:HA	1.99	0.43
1:K:34:ASP:N	1:K:34:ASP:OD1	2.49	0.43
1:K:305:LEU:HD13	1:K:332:ARG:HB2	1.99	0.43
1:K:382:PRO:HD2	1:K:385:LEU:HD12	1.99	0.43
1:K:833:LYS:NZ	1:K:870:ASP:H	2.16	0.43
1:H:117:ASN:CG	1:H:120:PHE:HB3	2.43	0.43
1:H:656:ARG:HH22	1:H:680:LEU:HD12	1.81	0.43
1:J:475:LEU:CD2	1:J:486:LEU:HB2	2.39	0.43
1:J:663:GLN:CB	1:J:674:SER:HB3	2.41	0.43
1:J:716:ALA:HB3	1:J:728:ALA:HB3	2.00	0.43
1:J:979:ARG:NH1	1:J:1020:ILE:HG23	2.33	0.43
1:J:992:ARG:HA	1:J:992:ARG:HD2	1.86	0.43
1:J:1012:THR:HG1	1:J:1053:PHE:CB	2.26	0.43
1:J:1058:ILE:HD12	1:J:1058:ILE:N	2.33	0.43
1:J:1134:PHE:O	1:J:1142:GLU:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1218:GLU:HB2	1:J:1237:ARG:HB3	2.00	0.43
1:L:101:MET:O	1:L:105:MET:HE2	2.14	0.43
1:L:458:LEU:C	1:L:460:PRO:HD3	2.44	0.43
1:L:707:GLY:HA2	1:L:716:ALA:CB	2.47	0.43
1:L:1227:SER:O	1:L:1232:HIS:HB2	2.18	0.43
1:M:243:VAL:HG23	1:M:263:LEU:HD12	1.99	0.43
1:M:396:SER:O	1:M:400:VAL:HG23	2.18	0.43
1:M:831:ILE:HG21	1:M:834:TYR:OH	2.19	0.43
1:O:678:TRP:HD1	1:O:680:LEU:HG	1.83	0.43
1:O:1067:ASN:HD22	1:O:1091:GLN:CD	2.26	0.43
2:A:91:ILE:O	2:A:95:ARG:HG2	2.18	0.43
2:C:60:PHE:CE2	1:K:680:LEU:HD21	2.52	0.43
2:D:24:ILE:HG23	2:D:28:TRP:CD1	2.52	0.43
2:F:79:ILE:HG21	2:F:90:LEU:HD12	2.01	0.43
1:Q:75:LYS:HA	1:Q:79:GLU:CD	2.43	0.43
1:Q:77:VAL:HG12	1:Q:89:MET:HE3	2.00	0.43
1:Q:463:LEU:HD13	1:Q:467:PHE:CE1	2.53	0.43
1:Q:1099:MET:HG3	1:Q:1100:MET:HG3	1.99	0.43
1:I:64:THR:O	1:I:67:SER:HB2	2.17	0.43
1:I:190:GLU:O	1:I:194:GLU:OE1	2.37	0.43
1:I:354:GLU:CD	1:I:358:ASN:HD21	2.25	0.43
1:I:412:GLU:OE2	1:I:421:SER:OG	2.21	0.43
1:I:499:GLN:NE2	1:I:500:LYS:HD3	2.33	0.43
1:I:752:GLU:CB	1:I:757:HIS:CB	2.78	0.43
1:K:120:PHE:CG	1:K:162:LEU:HD23	2.53	0.43
1:K:446:HIS:CD2	1:K:474:HIS:CD2	3.06	0.43
1:K:1102:VAL:HG21	1:K:1142:GLU:OE1	2.17	0.43
1:H:216:ASN:HB3	1:H:219:LEU:CB	2.38	0.43
1:H:685:PRO:HD3	1:H:690:SER:O	2.17	0.43
1:H:768:ILE:HG22	1:H:780:VAL:HG22	2.01	0.43
1:J:685:PRO:CD	1:J:690:SER:O	2.65	0.43
1:L:813:PRO:HD3	1:L:826:ALA:HB2	2.00	0.43
1:L:1110:GLN:CA	1:L:1110:GLN:HE21	2.31	0.43
1:M:129:GLN:NE2	1:M:133:LYS:HD2	2.33	0.43
1:M:401:VAL:HA	1:M:404:LYS:HG2	1.99	0.43
1:M:483:ARG:HD3	1:M:530:ASP:C	2.43	0.43
1:M:773:GLN:C	1:M:775:LEU:H	2.26	0.43
1:O:104:ARG:O	1:O:107:ILE:HB	2.18	0.43
1:O:135:ARG:O	1:O:139:LEU:HG	2.17	0.43
1:O:316:VAL:C	1:O:317:LEU:HD12	2.44	0.43
1:O:383:THR:O	1:O:386:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:446:HIS:O	1:O:450:PRO:HG2	2.18	0.43
1:O:468:TYR:CE2	1:O:501:ILE:HD13	2.53	0.43
1:O:970:TYR:HB3	1:O:975:MET:CG	2.49	0.43
2:D:82:ARG:HH12	2:D:89:LEU:HB3	1.83	0.43
2:F:10:MET:CG	2:F:87:TYR:HB2	2.49	0.43
1:Q:82:ARG:NH1	1:Q:89:MET:HB2	2.34	0.43
1:Q:616:LEU:HD12	1:Q:635:VAL:HB	1.99	0.43
1:Q:926:LYS:C	1:Q:968:ASN:HD22	2.27	0.43
1:I:27:PHE:HA	1:I:85:TYR:CE2	2.54	0.43
1:I:79:GLU:HG2	1:I:80:VAL:N	2.34	0.43
1:I:156:GLY:O	1:I:159:TRP:HB2	2.18	0.43
1:I:380:HIS:ND1	1:I:421:SER:HB3	2.34	0.43
1:I:980:GLU:HG3	1:I:984:LEU:HB2	2.00	0.43
1:I:989:SER:H	1:I:993:ILE:HB	1.84	0.43
1:I:999:ALA:CA	1:I:1030:GLN:HG2	2.45	0.43
1:I:1039:VAL:O	1:I:1040:ILE:C	2.61	0.43
1:I:1094:ASP:CG	1:I:1100:MET:HE3	2.44	0.43
1:I:1143:TYR:CD2	1:I:1153:LEU:HD21	2.54	0.43
1:K:222:HIS:O	1:K:225:GLN:HG3	2.19	0.43
1:K:396:SER:OG	1:K:399:MET:SD	2.74	0.43
1:K:446:HIS:O	1:K:450:PRO:CD	2.66	0.43
1:H:833:LYS:HE3	1:H:869:THR:HA	2.01	0.43
1:H:882:LEU:HD11	1:H:905:VAL:O	2.19	0.43
1:H:1060:TYR:CE2	1:H:1070:VAL:HB	2.53	0.43
1:J:235:LYS:N	1:J:236:PRO:HD2	2.34	0.43
1:J:253:TRP:CE2	1:J:257:ASN:HB3	2.53	0.43
1:J:269:LYS:NZ	1:J:273:ASP:HB2	2.34	0.43
1:J:680:LEU:CD2	1:J:696:GLN:HB3	2.44	0.43
1:J:715:VAL:CG1	1:J:727:GLU:CD	2.92	0.43
1:J:1044:ILE:HD12	1:J:1062:LYS:HD3	1.99	0.43
1:L:381:ILE:O	1:L:420:ILE:N	2.51	0.43
1:L:532:ASP:HB2	1:L:533:PRO:HD2	2.01	0.43
1:L:612:HIS:CE1	1:L:613:ALA:HB2	2.53	0.43
1:L:636:SER:O	1:L:638:GLU:HG2	2.19	0.43
1:L:720:ASN:HD21	1:L:726:PRO:HG3	1.83	0.43
1:L:746:TRP:CD2	1:L:762:LYS:HE3	2.54	0.43
1:L:1221:LYS:HG2	1:L:1237:ARG:HG2	2.01	0.43
1:M:155:SER:O	1:M:321:PRO:HG2	2.19	0.43
1:M:183:LEU:HD11	1:M:244:LEU:HD12	2.00	0.43
1:M:337:THR:HG1	1:M:338:TRP:CD1	2.37	0.43
1:M:472:GLY:HA2	1:M:487:PHE:HE1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:621:CYS:O	1:M:889:ILE:HD12	2.17	0.43
1:M:1108:SER:HG	1:M:1129:ALA:C	2.27	0.43
1:M:1136:LYS:NZ	1:M:1190:LYS:HB3	2.34	0.43
1:O:136:GLN:HA	1:O:139:LEU:HG	2.01	0.43
1:O:232:LEU:HD11	1:O:240:CYS:SG	2.58	0.43
1:O:287:HIS:CB	1:O:290:MET:HE2	2.48	0.43
1:O:522:LYS:O	1:O:526:PRO:CD	2.66	0.43
1:O:637:LEU:HA	1:O:660:PHE:CZ	2.54	0.43
1:O:948:ILE:HG23	1:O:957:ILE:HB	2.01	0.43
1:O:1025:ALA:HA	1:O:1047:THR:HG23	2.01	0.43
1:O:1131:PRO:HD2	1:O:1145:VAL:O	2.18	0.43
2:A:30:ASN:O	2:A:72:HIS:HE1	2.01	0.43
2:A:70:GLU:HA	2:A:73:ARG:HH11	1.83	0.43
2:E:16:GLU:O	2:E:20:LYS:HG2	2.18	0.43
2:E:53:GLN:NE2	2:E:54:ASP:OD1	2.52	0.43
1:Q:179:PHE:O	1:Q:242:LEU:HD12	2.18	0.43
1:Q:483:ARG:NE	1:Q:527:TYR:O	2.52	0.43
1:Q:620:PHE:HZ	1:Q:662:GLN:N	1.96	0.43
1:Q:756:SER:HA	1:Q:772:VAL:HB	2.01	0.43
1:Q:922:GLY:O	1:Q:940:SER:HB2	2.19	0.43
1:I:293:THR:HG22	1:I:296:GLU:HG2	2.00	0.43
1:I:753:PHE:O	1:I:753:PHE:CD1	2.72	0.43
1:I:833:LYS:HA	1:I:872:ARG:HH21	1.83	0.43
1:K:149:ILE:HG13	1:K:283:ILE:HB	2.00	0.43
1:K:347:ASP:C	1:K:348:LYS:HD3	2.44	0.43
1:K:968:ASN:OD1	1:K:977:MET:HG3	2.18	0.43
1:K:1136:LYS:N	1:K:1142:GLU:HA	2.29	0.43
1:H:30:LYS:HG3	1:H:49:ILE:HG23	1.99	0.43
1:H:758:VAL:HG23	1:H:772:VAL:HG22	2.00	0.43
1:H:856:LEU:HG	1:H:866:LYS:HD3	2.00	0.43
1:H:1151:ASN:HD21	1:H:1195:VAL:HB	1.84	0.43
1:H:1226:TYR:CD1	1:H:1233:GLU:HA	2.53	0.43
1:J:18:VAL:HA	1:J:168:TYR:CE2	2.54	0.43
1:J:120:PHE:CD1	1:J:159:TRP:HB3	2.54	0.43
1:J:152:VAL:HG21	1:J:425:ILE:CD1	2.49	0.43
1:J:329:GLU:HA	1:J:332:ARG:HG2	2.01	0.43
1:J:663:GLN:CB	1:J:674:SER:HA	2.48	0.43
1:J:988:ASP:OD1	1:J:992:ARG:NH1	2.51	0.43
1:L:81:LEU:HD21	1:L:88:LEU:HB2	2.01	0.43
1:L:174:MET:HE2	1:L:241:LEU:CA	2.48	0.43
1:L:628:GLY:C	1:L:644:LEU:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1048:ALA:HB1	1:L:1049:LEU:HD12	2.00	0.43
1:L:1194:LEU:HB3	1:L:1201:THR:HG21	2.01	0.43
1:L:1221:LYS:HE3	1:L:1237:ARG:HH21	1.83	0.43
1:O:145:LYS:HE2	1:O:281:THR:HG23	2.00	0.43
1:O:288:HIS:O	1:O:291:THR:HG22	2.18	0.43
1:O:715:VAL:HG13	1:O:736:PHE:CE2	2.54	0.43
1:O:934:LEU:HB2	1:O:950:TRP:CZ3	2.54	0.43
2:B:94:LEU:HD21	2:B:102:ALA:HB3	2.01	0.43
2:C:33:ARG:HH21	2:C:96:ASN:C	2.24	0.43
2:E:55:LEU:HB2	2:E:71:GLN:CG	2.48	0.43
1:Q:179:PHE:HB3	1:Q:202:GLN:OE1	2.19	0.43
1:Q:226:ALA:HB1	1:I:201:TYR:CZ	2.54	0.43
1:Q:825:THR:CB	1:Q:830:LEU:HA	2.47	0.43
1:Q:966:GLU:CD	1:Q:1007:SER:O	2.62	0.43
1:Q:985:LEU:HD13	1:Q:1020:ILE:HD12	2.01	0.43
1:K:112:ARG:HH12	1:K:115:ASN:HD22	1.67	0.43
1:K:526:PRO:HG2	1:K:527:TYR:CE1	2.54	0.43
1:K:662:GLN:HB2	1:K:675:VAL:HG12	2.01	0.43
1:K:706:ILE:HG13	1:K:706:ILE:O	2.18	0.43
1:K:719:LEU:HG	1:K:751:GLN:HE21	1.84	0.43
1:K:1067:ASN:ND2	1:K:1091:GLN:CG	2.82	0.43
1:H:412:GLU:OE2	1:H:421:SER:HB2	2.19	0.43
1:H:617:HIS:O	1:H:635:VAL:CB	2.61	0.43
1:H:928:VAL:CG1	1:H:937:VAL:HG22	2.42	0.43
1:H:996:ILE:O	1:H:996:ILE:HG12	2.18	0.43
1:H:1109:LEU:HD22	1:H:1144:ILE:HD13	2.00	0.43
1:H:1192:SER:O	1:H:1195:VAL:HG12	2.18	0.43
1:J:725:LEU:HB2	1:J:741:VAL:HG23	2.01	0.43
1:J:761:LEU:HD22	1:J:804:HIS:CG	2.51	0.43
1:J:946:ARG:NH1	1:J:967:PRO:HA	2.34	0.43
1:J:1102:VAL:HB	1:J:1103:SER:H	1.51	0.43
1:J:1146:GLY:N	1:J:1150:LYS:HE3	2.34	0.43
1:J:1216:ALA:HA	1:J:1237:ARG:CZ	2.49	0.43
1:L:464:ASP:CG	1:L:501:ILE:HG12	2.43	0.43
1:L:608:ASN:HB3	1:L:908:TYR:O	2.18	0.43
1:L:1183:GLU:HB2	1:L:1196:ALA:HB3	2.00	0.43
1:M:33:GLN:HE22	2:A:47:GLN:NE2	2.17	0.43
1:M:492:LEU:HD12	1:M:495:ARG:HD3	2.01	0.43
1:M:761:LEU:CD1	1:M:804:HIS:CE1	2.96	0.43
1:O:21:ASP:OD1	1:O:22:ALA:N	2.47	0.43
1:O:369:PHE:CE1	1:O:405:LEU:HD13	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:637:LEU:HG	1:O:657:MET:HA	1.99	0.43
1:O:782:CYS:SG	1:O:785:ASN:ND2	2.92	0.43
1:O:847:VAL:HG11	1:O:888:LYS:O	2.19	0.43
2:B:37:GLU:O	2:B:40:GLN:HG2	2.17	0.43
2:F:59:PRO:HB3	2:F:67:VAL:HG13	2.00	0.43
1:Q:350:THR:HA	1:Q:353:ILE:CG2	2.43	0.43
1:Q:616:LEU:CD1	1:Q:635:VAL:HB	2.48	0.43
1:Q:688:ARG:O	1:Q:690:SER:N	2.50	0.43
1:Q:977:MET:HE1	1:Q:987:VAL:HG22	2.00	0.43
1:I:100:SER:OG	1:I:102:MET:SD	2.70	0.43
1:I:135:ARG:HA	1:I:138:LEU:HD12	1.99	0.43
1:I:157:LYS:HB3	1:I:285:LEU:HD11	2.01	0.43
1:I:192:VAL:HA	1:I:195:MET:HE3	2.00	0.43
1:I:321:PRO:HA	1:I:324:LEU:HD12	2.01	0.43
1:I:367:LYS:O	1:I:371:ARG:HG2	2.19	0.43
1:I:746:TRP:HB2	1:I:764:MET:HE2	2.01	0.43
1:I:1019:LYS:CD	1:I:1052:GLN:HE21	2.26	0.43
1:I:1130:ASN:N	1:I:1131:PRO:CD	2.81	0.43
1:K:181:LEU:HB3	1:K:244:LEU:HD13	2.01	0.43
1:K:757:HIS:NE2	1:K:773:GLN:OE1	2.51	0.43
1:K:1145:VAL:HG11	1:K:1182:GLU:C	2.44	0.43
1:K:1149:LEU:O	1:K:1149:LEU:HD23	2.19	0.43
1:H:518:LEU:HG	1:H:522:LYS:NZ	2.34	0.43
1:H:818:VAL:HB	1:H:836:VAL:HG13	2.01	0.43
1:H:1078:LYS:NZ	1:H:1099:MET:SD	2.75	0.43
1:H:1143:TYR:HD1	1:H:1194:LEU:HD12	1.83	0.43
1:J:218:LYS:HA	1:J:221:ILE:HG22	1.99	0.43
1:J:656:ARG:HB2	1:J:676:LYS:HZ1	1.83	0.43
1:J:771:PHE:CZ	1:J:778:TYR:CD1	3.07	0.43
1:J:981:ARG:H	1:J:981:ARG:HG2	1.55	0.43
1:J:1233:GLU:C	1:J:1234:HIS:ND1	2.77	0.43
1:L:12:TYR:O	1:L:15:ILE:HG12	2.17	0.43
1:L:113:LEU:CD2	1:L:165:CYS:SG	3.06	0.43
1:L:318:THR:HG22	1:L:323:ARG:NH2	2.34	0.43
1:L:683:ASP:N	1:L:692:GLY:H	2.14	0.43
1:L:805:VAL:HG11	1:L:848:SER:N	2.31	0.43
1:M:139:LEU:C	1:M:139:LEU:HD12	2.44	0.43
1:M:367:LYS:HD2	1:M:367:LYS:HA	1.77	0.43
1:M:423:PRO:O	1:M:427:LEU:HB2	2.18	0.43
1:M:609:GLU:O	1:M:907:ILE:HA	2.19	0.43
1:M:864:CYS:HB2	1:M:878:THR:OG1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:911:PHE:O	1:M:914:VAL:HG23	2.18	0.43
1:M:946:ARG:CZ	1:M:978:THR:HB	2.49	0.43
1:M:1062:LYS:HB2	1:M:1066:PRO:CD	2.49	0.43
1:O:114:TYR:HD1	1:O:121:ALA:HB1	1.84	0.43
1:O:156:GLY:HA2	1:O:322:ARG:NH2	2.33	0.43
1:O:196:LEU:HD21	1:O:228:LEU:HD11	2.01	0.43
1:O:704:ARG:HD2	1:O:749:GLN:N	2.28	0.43
1:O:890:SER:HA	1:O:897:ASN:HA	1.99	0.43
2:A:58:LYS:HA	2:A:58:LYS:HD2	1.84	0.43
2:D:13:ARG:O	2:D:16:GLU:HG3	2.18	0.43
2:G:58:LYS:NZ	1:Q:656:ARG:HG3	2.33	0.43
1:Q:475:LEU:HB2	1:Q:487:PHE:CE1	2.54	0.43
1:Q:479:GLU:HG3	1:Q:480:HIS:H	1.83	0.43
1:Q:680:LEU:CD1	1:Q:696:GLN:OE1	2.60	0.43
1:Q:681:TRP:CG	1:Q:705:PHE:CE1	3.07	0.43
1:Q:716:ALA:HB1	1:Q:718:TYR:CE1	2.54	0.43
1:Q:854:VAL:HG13	1:Q:868:SER:CA	2.47	0.43
1:I:479:GLU:HB3	1:I:482:GLU:OE1	2.18	0.43
1:I:1064:VAL:O	1:I:1064:VAL:HG22	2.18	0.43
1:I:1189:ALA:O	1:I:1191:ILE:HG23	2.19	0.43
1:K:94:THR:O	1:K:98:GLN:HG2	2.18	0.43
1:K:725:LEU:HG	1:K:751:GLN:HE22	1.83	0.43
1:K:949:ALA:HB2	1:K:956:GLU:HG2	1.99	0.43
1:K:1021:ASN:HD21	1:K:1050:PRO:CD	2.32	0.43
1:H:122:LYS:NZ	1:O:275:LEU:O	2.41	0.43
1:H:331:ILE:HG12	1:H:336:ALA:O	2.19	0.43
1:H:495:ARG:HH22	1:H:549:ILE:HG21	1.83	0.43
1:H:785:ASN:CG	1:H:836:VAL:CG2	2.92	0.43
1:H:1028:ASP:OD1	1:H:1028:ASP:N	2.51	0.43
1:J:295:ASP:O	1:J:298:LYS:HG2	2.18	0.43
1:J:367:LYS:O	1:J:371:ARG:HG2	2.18	0.43
1:J:608:ASN:OD1	1:J:909:GLU:HA	2.19	0.43
1:J:1136:LYS:NZ	1:J:1193:TYR:OH	2.38	0.43
1:J:1226:TYR:HA	1:J:1233:GLU:CB	2.49	0.43
1:L:287:HIS:CD2	1:L:289:SER:H	2.36	0.43
1:L:498:GLU:O	1:L:501:ILE:HG22	2.18	0.43
1:M:120:PHE:CE2	1:M:162:LEU:HD22	2.53	0.43
1:M:247:VAL:HG23	1:M:265:THR:O	2.18	0.43
1:M:372:LEU:HD13	1:M:375:PHE:CE2	2.54	0.43
1:O:120:PHE:HD1	1:O:159:TRP:CD2	2.36	0.43
1:O:194:GLU:O	1:O:198:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:381:ILE:N	1:O:420:ILE:O	2.37	0.43
1:O:928:VAL:HB	1:O:1225:ILE:HD13	2.00	0.43
1:O:935:ARG:NH2	1:O:1232:HIS:HB2	2.33	0.43
2:N:50:ARG:HA	2:N:53:GLN:HG2	2.00	0.43
2:E:11:PRO:HD2	2:E:14:HIS:CE1	2.54	0.43
2:E:73:ARG:HG3	2:E:74:ARG:N	2.33	0.43
2:F:26:VAL:HG21	2:F:73:ARG:HG3	2.00	0.43
1:Q:657:MET:N	1:Q:676:LYS:HE2	2.33	0.43
1:Q:807:ASN:HB3	1:Q:808:VAL:H	1.60	0.43
1:Q:966:GLU:HB2	1:Q:1007:SER:O	2.19	0.43
1:I:18:VAL:HG22	1:I:168:TYR:CE1	2.54	0.43
1:I:249:ASN:HA	1:I:270:GLN:HE22	1.84	0.43
1:I:449:ILE:N	1:I:450:PRO:CD	2.82	0.43
1:I:614:VAL:HG11	1:I:618:ASN:OD1	2.18	0.43
1:I:857:PRO:HB3	1:I:866:LYS:HA	2.00	0.43
1:I:1136:LYS:HE2	1:I:1190:LYS:HG2	2.01	0.43
1:K:152:VAL:HG12	1:K:155:SER:HB2	2.01	0.43
1:K:400:VAL:HG12	1:K:404:LYS:HZ3	1.84	0.43
1:K:1163:ILE:HG22	1:K:1165:VAL:H	1.84	0.43
1:H:243:VAL:HA	1:H:263:LEU:O	2.19	0.42
1:H:275:LEU:HB3	1:H:280:THR:OG1	2.19	0.42
1:H:298:LYS:HB2	1:H:298:LYS:HE3	1.78	0.42
1:H:484:MET:HE1	1:H:490:VAL:HG21	1.94	0.42
1:H:990:LYS:HB3	1:H:990:LYS:HZ3	1.80	0.42
1:J:631:LEU:HD13	1:J:633:THR:HG23	2.00	0.42
1:J:666:LEU:O	1:J:669:LEU:HD23	2.19	0.42
1:J:675:VAL:HG13	1:J:702:VAL:HG11	1.77	0.42
1:J:719:LEU:HD11	1:J:744:LEU:HD23	2.01	0.42
1:J:728:ALA:HA	1:J:735:ALA:HB2	2.01	0.42
1:J:1044:ILE:H	1:J:1044:ILE:HG13	1.61	0.42
1:J:1056:GLU:OE1	1:J:1056:GLU:HA	2.18	0.42
1:J:1154:LEU:CD2	1:J:1166:PHE:CZ	3.02	0.42
1:L:183:LEU:HD12	1:L:247:VAL:HG22	2.00	0.42
1:L:213:HIS:HB2	1:L:220:ARG:NH1	2.32	0.42
1:L:354:GLU:HB2	1:L:430:LYS:HZ1	1.84	0.42
1:L:403:ASN:C	1:L:403:ASN:HD22	2.26	0.42
1:L:718:TYR:C	1:L:719:LEU:HG	2.44	0.42
1:L:948:ILE:HB	1:L:957:ILE:CG1	2.48	0.42
1:L:992:ARG:HH11	1:L:995:LEU:HB2	1.84	0.42
1:M:535:TYR:O	1:M:539:VAL:HG13	2.19	0.42
1:M:684:CYS:HA	1:M:691:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:847:VAL:HG22	1:M:848:SER:H	1.84	0.42
1:M:897:ASN:OD1	1:M:909:GLU:HB2	2.19	0.42
1:O:101:MET:O	1:O:105:MET:HG2	2.19	0.42
1:O:120:PHE:CZ	1:O:163:ASP:HB2	2.51	0.42
1:O:663:GLN:HA	1:O:674:SER:HA	2.00	0.42
1:O:684:CYS:N	1:O:692:GLY:H	2.16	0.42
1:O:1012:THR:HG23	1:O:1019:LYS:NZ	2.34	0.42
1:O:1019:LYS:HG2	1:O:1029:GLU:HA	2.01	0.42
2:A:20:LYS:HG3	2:A:21:ASN:ND2	2.33	0.42
2:C:26:VAL:HA	2:C:72:HIS:CD2	2.45	0.42
2:D:37:GLU:HB3	2:D:97:ILE:HD11	2.01	0.42
2:E:11:PRO:HB2	2:E:13:ARG:HG3	2.00	0.42
2:E:17:HIS:HB2	2:E:109:VAL:HG21	2.01	0.42
2:E:95:ARG:HD3	2:E:100:LEU:HD22	2.01	0.42
2:F:22:LEU:HD12	2:F:76:LEU:HD22	2.01	0.42
2:F:27:GLU:HG2	2:F:28:TRP:N	2.35	0.42
2:F:90:LEU:O	2:F:93:ALA:HB3	2.19	0.42
1:Q:406:HIS:HB2	1:Q:411:VAL:HG13	2.01	0.42
1:I:639:GLY:H	1:I:655:LEU:HG	1.83	0.42
1:K:123:TYR:HB2	1:K:159:TRP:CZ3	2.54	0.42
1:K:424:SER:HA	1:K:427:LEU:HB3	2.01	0.42
1:K:447:TYR:HB2	1:K:478:ILE:HD13	2.00	0.42
1:K:849:LEU:HD22	1:K:890:SER:CB	2.48	0.42
1:K:929:VAL:HG11	1:K:971:LEU:HD23	2.00	0.42
1:K:968:ASN:ND2	1:K:1010:THR:HB	2.30	0.42
1:H:225:GLN:O	1:H:229:ARG:HG3	2.19	0.42
1:H:683:ASP:N	1:H:694:LYS:HZ3	2.14	0.42
1:H:704:ARG:O	1:H:718:TYR:HE1	1.99	0.42
1:H:708:SER:O	1:H:709:TYR:HB2	2.19	0.42
1:H:929:VAL:HG13	1:H:931:VAL:H	1.83	0.42
1:H:1009:ILE:HD13	1:H:1018:CYS:SG	2.59	0.42
1:J:106:TYR:CZ	1:J:168:TYR:CD2	3.07	0.42
1:J:119:VAL:HA	1:J:122:LYS:NZ	2.34	0.42
1:J:213:HIS:HB2	1:J:220:ARG:NH1	2.35	0.42
1:J:616:LEU:C	1:J:617:HIS:CG	2.97	0.42
1:J:1012:THR:HA	1:J:1053:PHE:HE2	1.64	0.42
1:J:1109:LEU:HD12	1:J:1142:GLU:OE1	2.19	0.42
1:L:188:SER:C	1:L:190:GLU:H	2.27	0.42
1:L:350:THR:HA	1:L:429:LEU:HD13	2.01	0.42
1:L:631:LEU:HD12	1:L:640:GLU:O	2.19	0.42
1:L:978:THR:HG22	1:L:987:VAL:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1129:ALA:O	1:L:1147:PHE:CE2	2.72	0.42
1:L:1183:GLU:O	1:L:1184:GLU:HG3	2.19	0.42
1:M:115:ASN:HA	1:M:118:GLN:NE2	2.34	0.42
1:M:187:ASN:HD21	1:M:248:GLN:HB3	1.83	0.42
1:M:201:TYR:CD1	1:M:205:PRO:HA	2.54	0.42
1:M:437:TYR:CE2	1:M:440:HIS:HB3	2.55	0.42
1:M:656:ARG:NH1	1:M:680:LEU:HB2	2.34	0.42
1:M:747:ASP:OD2	1:M:763:THR:HA	2.19	0.42
1:M:761:LEU:HD23	1:M:761:LEU:N	2.34	0.42
1:M:809:GLU:OE1	1:M:811:ASP:HB2	2.18	0.42
1:M:888:LYS:HE3	1:M:901:HIS:CE1	2.54	0.42
1:O:146:ASN:HA	1:O:262:ILE:O	2.18	0.42
1:O:629:GLN:C	1:O:644:LEU:HG	2.44	0.42
2:G:82:ARG:HG2	1:Q:87:PHE:HE2	1.84	0.42
2:G:86:ALA:O	2:G:90:LEU:N	2.42	0.42
1:Q:13:LYS:HE2	1:Q:66:LEU:HA	2.00	0.42
1:Q:101:MET:SD	1:Q:105:MET:HE3	2.59	0.42
1:Q:183:LEU:HD11	1:Q:244:LEU:HD23	2.00	0.42
1:Q:748:GLU:OE2	1:Q:761:LEU:HD13	2.19	0.42
1:Q:897:ASN:HB3	1:Q:898:VAL:H	1.50	0.42
1:I:201:TYR:CE1	1:I:205:PRO:HB3	2.54	0.42
1:I:410:LEU:HD12	1:I:410:LEU:O	2.18	0.42
1:I:476:LYS:NZ	1:I:526:PRO:O	2.51	0.42
1:I:638:GLU:HA	1:I:653:ASP:O	2.19	0.42
1:I:783:THR:HG22	1:I:818:VAL:HG22	2.01	0.42
1:I:816:LEU:HD23	1:I:821:GLU:HG2	2.01	0.42
1:I:1021:ASN:N	1:I:1021:ASN:ND2	2.66	0.42
1:I:1071:ALA:HB3	1:I:1076:ALA:HB3	2.00	0.42
1:I:1187:GLN:HE22	1:I:1194:LEU:HD12	1.84	0.42
1:K:782:CYS:O	1:K:787:THR:HA	2.19	0.42
1:K:930:HIS:CE1	1:K:1226:TYR:O	2.72	0.42
1:K:978:THR:OG1	1:K:986:ALA:HB3	2.19	0.42
1:H:85:TYR:HE1	2:F:81:GLN:HE22	1.66	0.42
1:H:129:GLN:HB3	1:H:130:PRO:HD3	2.01	0.42
1:H:317:LEU:HD23	1:H:317:LEU:HA	1.80	0.42
1:H:351:THR:O	1:H:355:SER:N	2.43	0.42
1:H:749:GLN:HG2	1:H:760:VAL:HG13	2.01	0.42
1:J:385:LEU:HA	1:J:388:LEU:HD12	2.02	0.42
1:J:479:GLU:HG3	1:J:480:HIS:H	1.84	0.42
1:J:656:ARG:HB2	1:J:676:LYS:NZ	2.34	0.42
1:J:829:LEU:H	1:J:829:LEU:CD2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:858:GLU:HG2	1:J:888:LYS:NZ	2.34	0.42
1:J:899:SER:N	1:J:907:ILE:O	2.52	0.42
1:J:935:ARG:NH2	1:J:1232:HIS:HB2	2.26	0.42
1:J:1232:HIS:HA	1:J:1246:LEU:O	2.19	0.42
1:L:113:LEU:CD2	1:L:166:LEU:CD2	2.97	0.42
1:L:145:LYS:HE3	1:L:279:THR:O	2.19	0.42
1:L:375:PHE:CE2	1:L:381:ILE:HD12	2.53	0.42
1:L:539:VAL:O	1:L:543:LEU:HG	2.20	0.42
1:L:619:ASP:N	1:L:634:ASP:OD1	2.47	0.42
1:M:55:VAL:C	1:M:57:GLY:H	2.27	0.42
1:M:129:GLN:HB3	1:M:130:PRO:HD3	2.01	0.42
1:O:83:ILE:HG13	1:O:84:ASN:H	1.84	0.42
1:O:178:ILE:H	1:O:178:ILE:HD12	1.83	0.42
1:O:331:ILE:HD13	1:O:337:THR:HA	2.01	0.42
1:O:480:HIS:HA	1:O:483:ARG:NH1	2.33	0.42
1:O:702:VAL:HG22	1:O:721:GLU:HG3	2.01	0.42
1:O:1029:GLU:HG2	1:O:1038:GLY:H	1.84	0.42
1:O:1084:LEU:HD22	1:O:1105:LYS:HB3	2.01	0.42
2:N:55:LEU:CD1	2:N:58:LYS:H	2.33	0.42
2:E:46:VAL:HA	2:E:49:LEU:HG	2.01	0.42
2:G:13:ARG:O	2:G:16:GLU:HG3	2.19	0.42
1:Q:483:ARG:NH2	1:Q:528:ILE:HA	2.34	0.42
1:Q:532:ASP:N	1:Q:532:ASP:OD1	2.52	0.42
1:Q:666:LEU:CD1	1:Q:671:CYS:HB2	2.49	0.42
1:Q:718:TYR:HB2	1:Q:726:PRO:O	2.19	0.42
1:Q:891:ASP:HB2	1:Q:911:PHE:HZ	1.83	0.42
1:I:153:LEU:HD21	1:I:356:SER:HB2	2.01	0.42
1:I:218:LYS:HA	1:I:221:ILE:HG22	2.02	0.42
1:I:483:ARG:HH11	1:I:484:MET:CE	2.32	0.42
1:I:1058:ILE:HD12	1:I:1093:ASN:HB2	2.01	0.42
1:I:1242:SER:O	1:I:1242:SER:OG	2.35	0.42
1:K:16:LEU:CD2	1:K:65:LEU:HD21	2.45	0.42
1:K:165:CYS:O	1:K:171:GLN:NE2	2.52	0.42
1:K:706:ILE:HB	1:K:709:TYR:OH	2.19	0.42
1:K:910:LEU:O	1:K:914:VAL:N	2.49	0.42
1:K:987:VAL:HG12	1:K:989:SER:OG	2.19	0.42
1:K:1112:GLY:HA2	1:K:1120:ASP:N	2.34	0.42
1:K:1187:GLN:HB3	1:K:1192:SER:O	2.20	0.42
1:H:209:SER:HB2	1:H:210:ARG:NH1	2.35	0.42
1:H:445:ASP:O	1:H:449:ILE:HG13	2.19	0.42
1:H:480:HIS:HB2	1:H:531:ASN:CA	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:519:GLN:H	1:H:519:GLN:HG3	1.66	0.42
1:H:948:ILE:HB	1:H:949:ALA:H	1.69	0.42
1:J:199:LEU:HD22	1:J:228:LEU:HD13	2.00	0.42
1:J:284:SER:HB2	1:J:286:ASP:OD1	2.19	0.42
1:J:537:ARG:HD2	1:J:538:LEU:N	2.34	0.42
1:J:722:ASP:O	1:J:744:LEU:CG	2.61	0.42
1:J:830:LEU:N	1:J:830:LEU:CD2	2.73	0.42
1:J:844:GLY:HA3	1:J:858:GLU:OE1	2.20	0.42
1:J:896:SER:HB2	1:J:910:LEU:HD12	2.01	0.42
1:J:903:GLU:O	1:J:905:VAL:HG23	2.20	0.42
1:J:969:VAL:HG22	1:J:970:TYR:N	2.34	0.42
1:J:1045:HIS:CD2	1:J:1045:HIS:N	2.78	0.42
1:J:1233:GLU:OE2	1:J:1246:LEU:HB3	2.19	0.42
1:M:617:HIS:HA	1:M:904:CYS:HA	2.01	0.42
1:M:750:ASP:HB3	1:M:806:PHE:HE2	1.84	0.42
1:M:854:VAL:HA	1:M:868:SER:HA	2.02	0.42
1:M:1067:ASN:OD1	1:M:1083:GLN:HG2	2.19	0.42
1:O:98:GLN:OE1	1:O:98:GLN:N	2.41	0.42
1:O:200:LEU:O	1:O:204:ASP:N	2.36	0.42
1:O:239:ASN:OD1	1:O:239:ASN:N	2.52	0.42
1:O:668:THR:C	1:O:670:HIS:H	2.26	0.42
1:O:896:SER:N	1:O:911:PHE:H	2.17	0.42
2:A:78:LYS:HA	2:A:78:LYS:HD2	1.78	0.42
2:B:88:ASN:O	2:B:91:ILE:HB	2.18	0.42
2:B:91:ILE:HG23	2:B:95:ARG:NH1	2.34	0.42
2:D:51:ASN:OD1	2:D:52:THR:N	2.52	0.42
1:Q:959:VAL:C	1:Q:960:MET:HE2	2.44	0.42
1:I:367:LYS:HA	1:I:367:LYS:HD2	1.74	0.42
1:I:995:LEU:C	1:I:995:LEU:CD1	2.86	0.42
1:I:1111:GLU:O	1:I:1120:ASP:N	2.52	0.42
1:K:133:LYS:CE	1:K:283:ILE:HG23	2.49	0.42
1:H:134:LEU:HD21	1:H:283:ILE:HG21	2.00	0.42
1:H:166:LEU:HD13	1:H:171:GLN:HE22	1.84	0.42
1:H:702:VAL:HA	1:H:720:ASN:HA	2.01	0.42
1:H:866:LYS:NZ	1:H:878:THR:HG21	2.35	0.42
1:H:866:LYS:O	1:H:874:LEU:HA	2.20	0.42
1:H:929:VAL:HG11	1:H:931:VAL:HG22	1.96	0.42
1:H:1148:ASP:O	1:H:1149:LEU:HB2	2.19	0.42
1:J:171:GLN:HG2	1:J:176:PHE:CE2	2.54	0.42
1:J:369:PHE:O	1:J:372:LEU:HB2	2.19	0.42
1:J:1047:THR:HB	1:J:1062:LYS:CA	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1188:LYS:N	1:J:1230:GLU:OE2	2.49	0.42
1:L:179:PHE:CE2	1:L:240:CYS:HB2	2.54	0.42
1:L:663:GLN:HA	1:L:673:GLY:O	2.19	0.42
1:M:321:PRO:O	1:M:324:LEU:HG	2.18	0.42
1:M:608:ASN:HD22	1:M:909:GLU:HA	1.84	0.42
1:M:750:ASP:O	1:M:758:VAL:HG13	2.19	0.42
1:M:833:LYS:HZ3	1:M:869:THR:HG22	1.83	0.42
1:O:100:SER:C	1:O:104:ARG:HE	2.27	0.42
1:O:153:LEU:CB	1:O:267:ARG:HE	2.31	0.42
1:O:456:ASP:N	1:O:456:ASP:OD1	2.51	0.42
1:O:635:VAL:HG13	1:O:659:VAL:HG13	2.01	0.42
1:O:771:PHE:HA	1:O:778:TYR:CE2	2.54	0.42
1:O:809:GLU:HG3	1:O:811:ASP:OD1	2.19	0.42
2:C:61:ASN:OD1	2:C:62:MET:N	2.50	0.42
2:F:32:GLU:OE2	2:F:68:ARG:NH1	2.52	0.42
1:Q:229:ARG:O	1:Q:233:LYS:HE2	2.20	0.42
1:Q:684:CYS:CB	1:Q:685:PRO:CD	2.92	0.42
1:Q:783:THR:HG21	1:Q:817:ASP:HB2	2.02	0.42
1:Q:854:VAL:HG22	1:Q:868:SER:CA	2.49	0.42
1:Q:862:ILE:O	1:Q:862:ILE:CG1	2.67	0.42
1:I:244:LEU:HB3	1:I:247:VAL:HG22	2.00	0.42
1:I:385:LEU:HD13	1:I:388:LEU:HD12	2.00	0.42
1:I:704:ARG:NH2	1:I:804:HIS:O	2.52	0.42
1:I:824:LYS:HG2	1:I:831:ILE:HA	2.01	0.42
1:I:977:MET:CE	1:I:1009:ILE:HG21	2.34	0.42
1:K:233:LYS:H	1:K:233:LYS:HG2	1.67	0.42
1:K:251:LYS:HE3	1:K:251:LYS:HB3	1.91	0.42
1:K:475:LEU:HD21	1:K:482:GLU:O	2.19	0.42
1:K:703:LYS:HZ1	1:K:746:TRP:HB2	1.84	0.42
1:K:824:LYS:HG2	1:K:831:ILE:HG12	2.02	0.42
1:K:883:ILE:HG22	1:K:884:VAL:H	1.85	0.42
1:K:1065:SER:OG	1:K:1084:LEU:N	2.42	0.42
1:H:101:MET:N	1:H:104:ARG:HH21	2.16	0.42
1:H:159:TRP:CD1	1:H:322:ARG:HH12	2.38	0.42
1:H:190:GLU:OE2	1:H:191:THR:OG1	2.37	0.42
1:H:823:SER:OG	1:H:832:PHE:HB2	2.20	0.42
1:H:1226:TYR:OH	1:H:1233:GLU:HG2	2.19	0.42
1:J:162:LEU:HA	1:J:165:CYS:SG	2.60	0.42
1:J:320:ASN:O	1:J:324:LEU:HD13	2.20	0.42
1:J:371:ARG:NH2	1:J:435:ASN:OD1	2.52	0.42
1:J:437:TYR:CE1	1:J:439:LEU:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:476:LYS:HD3	1:J:527:TYR:CE1	2.54	0.42
1:J:643:TYR:HB3	1:J:647:ASP:H	1.83	0.42
1:J:749:GLN:HB3	1:J:759:PRO:O	2.18	0.42
1:J:1052:GLN:N	1:J:1060:TYR:HE1	2.18	0.42
1:J:1147:PHE:O	1:J:1180:ILE:HG12	2.20	0.42
1:L:115:ASN:ND2	1:K:259:SER:HA	2.35	0.42
1:L:203:ILE:HD13	1:L:203:ILE:HA	1.91	0.42
1:L:360:LEU:HD12	1:L:365:TYR:CD2	2.54	0.42
1:L:750:ASP:O	1:L:759:PRO:HD2	2.19	0.42
1:L:1007:SER:HB2	1:L:1021:ASN:CG	2.37	0.42
1:M:405:LEU:HG	1:M:410:LEU:HB2	2.01	0.42
1:M:470:HIS:O	1:M:474:HIS:ND1	2.53	0.42
1:O:83:ILE:HG13	1:O:84:ASN:N	2.35	0.42
1:O:822:ARG:HB2	1:O:837:TRP:HB2	2.01	0.42
1:O:1007:SER:HB2	1:O:1048:ALA:C	2.44	0.42
2:N:17:HIS:CE1	2:N:106:LEU:HD12	2.55	0.42
2:N:87:TYR:O	2:N:91:ILE:N	2.45	0.42
2:A:37:GLU:O	2:A:41:GLN:HB2	2.19	0.42
2:A:64:GLU:OE2	2:A:68:ARG:HG2	2.19	0.42
2:E:10:MET:HE2	2:E:15:ARG:HH12	1.85	0.42
2:E:10:MET:HE3	2:E:86:ALA:HB3	2.02	0.42
2:F:31:TYR:CE2	2:F:71:GLN:HB3	2.54	0.42
1:Q:79:GLU:HG2	1:Q:80:VAL:N	2.35	0.42
1:Q:188:SER:HB3	1:Q:191:THR:HG23	2.02	0.42
1:Q:522:LYS:HD2	1:Q:525:LYS:NZ	2.32	0.42
1:Q:623:ILE:HG13	1:Q:892:PRO:HG2	2.01	0.42
1:Q:858:GLU:HG2	1:Q:862:ILE:HA	2.01	0.42
1:Q:1063:GLN:O	1:Q:1105:LYS:NZ	2.46	0.42
1:Q:1145:VAL:HG11	1:Q:1181:CYS:O	2.20	0.42
1:Q:1221:LYS:HD2	1:Q:1237:ARG:NE	2.34	0.42
1:I:287:HIS:HB3	1:I:290:MET:CG	2.49	0.42
1:I:532:ASP:C	1:I:536:GLU:HB3	2.43	0.42
1:I:656:ARG:NH1	1:I:657:MET:HE1	2.35	0.42
1:I:867:ARG:HA	1:I:875:LEU:H	1.83	0.42
1:I:898:VAL:HG22	1:I:908:TYR:CD1	2.54	0.42
1:I:984:LEU:HD23	1:I:984:LEU:HA	1.82	0.42
1:K:220:ARG:CZ	1:K:220:ARG:HA	2.50	0.42
1:K:703:LYS:HE2	1:K:746:TRP:C	2.45	0.42
1:H:181:LEU:HD23	1:H:181:LEU:HA	1.84	0.42
1:H:264:LEU:HD23	1:H:264:LEU:H	1.84	0.42
1:H:486:LEU:HD13	1:H:488:ARG:CZ	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:630:ILE:HG21	1:H:632:LEU:CD2	2.40	0.42
1:H:702:VAL:HG22	1:H:720:ASN:CG	2.45	0.42
1:H:882:LEU:HD12	1:H:901:HIS:O	2.19	0.42
1:H:955:ASP:C	1:H:990:LYS:HB2	2.45	0.42
1:H:977:MET:HA	1:H:987:VAL:CG1	2.48	0.42
1:H:1143:TYR:CD1	1:H:1194:LEU:HD12	2.55	0.42
1:H:1235:CYS:C	1:H:1237:ARG:H	2.28	0.42
1:J:482:GLU:O	1:J:486:LEU:CB	2.55	0.42
1:J:1065:SER:O	1:J:1066:PRO:C	2.62	0.42
1:J:1067:ASN:HD21	1:J:1083:GLN:NE2	2.18	0.42
1:J:1090:LEU:HG	1:J:1091:GLN:CD	2.44	0.42
1:L:230:ARG:HE	1:L:231:LEU:HD22	1.84	0.42
1:L:263:LEU:C	1:L:264:LEU:HD12	2.45	0.42
1:L:342:LYS:HE2	1:L:343:HIS:NE2	2.34	0.42
1:L:621:CYS:SG	1:L:622:LEU:N	2.93	0.42
1:L:642:THR:HG22	1:L:649:SER:HA	2.01	0.42
1:L:688:ARG:HB2	1:L:688:ARG:HH11	1.81	0.42
1:M:82:ARG:NH1	1:M:89:MET:SD	2.93	0.42
1:M:847:VAL:HG12	1:M:856:LEU:HD22	2.01	0.42
1:O:56:SER:CB	1:O:60:ARG:NH1	2.82	0.42
1:O:63:TRP:HZ3	1:O:128:LEU:HB2	1.85	0.42
1:O:471:ILE:C	1:O:487:PHE:CZ	2.82	0.42
1:O:805:VAL:HG21	1:O:848:SER:H	1.84	0.42
1:O:906:ASP:O	1:O:907:ILE:HD13	2.20	0.42
1:O:1090:LEU:O	1:O:1103:SER:HA	2.20	0.42
2:C:76:LEU:O	2:C:79:ILE:HG22	2.19	0.42
2:G:55:LEU:HD12	2:G:59:PRO:HG3	2.02	0.42
1:Q:180:TRP:O	1:Q:181:LEU:HD23	2.19	0.42
1:Q:833:LYS:HE2	1:Q:870:ASP:H	1.85	0.42
1:Q:1090:LEU:HD12	1:Q:1132:SER:HB2	2.02	0.42
1:I:35:MET:HG3	1:I:37:LYS:HD3	2.00	0.42
1:I:115:ASN:HA	1:I:118:GLN:HE21	1.84	0.42
1:I:670:HIS:O	1:I:685:PRO:HA	2.20	0.42
1:I:756:SER:HB3	1:I:773:GLN:CB	2.50	0.42
1:K:184:LYS:HZ1	1:K:246:ASN:HB3	1.84	0.42
1:K:350:THR:HA	1:K:353:ILE:HG12	2.01	0.42
1:K:476:LYS:NZ	1:K:527:TYR:HA	2.35	0.42
1:K:612:HIS:ND1	1:K:612:HIS:O	2.53	0.42
1:H:174:MET:O	1:H:175:ASP:OD1	2.38	0.42
1:H:900:GLU:HB2	1:H:901:HIS:H	1.45	0.42
1:H:1226:TYR:OH	1:H:1233:GLU:CG	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:663:GLN:CA	1:J:674:SER:HA	2.50	0.42
1:J:921:CYS:C	1:J:1241:PHE:HB2	2.44	0.42
1:J:1091:GLN:NE2	1:J:1091:GLN:N	2.67	0.42
1:L:129:GLN:HB3	1:L:130:PRO:HD3	2.00	0.42
1:L:1120:ASP:OD1	1:L:1121:HIS:N	2.53	0.42
1:M:16:LEU:C	1:M:18:VAL:H	2.28	0.42
1:M:153:LEU:HA	1:M:267:ARG:CZ	2.50	0.42
1:M:412:GLU:OE2	1:M:421:SER:OG	2.29	0.42
1:M:472:GLY:HA2	1:M:487:PHE:CE1	2.55	0.42
1:O:350:THR:HG22	1:O:429:LEU:HG	2.02	0.42
2:D:36:MET:O	2:D:39:VAL:HG12	2.20	0.42
2:D:43:ILE:HG21	2:D:79:ILE:HD13	2.02	0.42
2:F:56:ASN:ND2	2:F:59:PRO:HD3	2.35	0.42
1:Q:148:LEU:HD23	1:Q:282:HIS:CE1	2.54	0.42
1:Q:969:VAL:HG21	1:Q:1018:CYS:SG	2.58	0.42
1:Q:1094:ASP:HA	1:Q:1102:VAL:HG23	2.01	0.42
1:I:36:PRO:HB3	1:I:75:LYS:NZ	2.35	0.42
1:I:483:ARG:O	1:I:489:MET:HE1	2.20	0.42
1:I:620:PHE:HD1	1:I:634:ASP:OD2	2.02	0.42
1:I:704:ARG:O	1:I:705:PHE:HD1	2.03	0.42
1:I:844:GLY:C	1:I:845:LEU:HD12	2.45	0.42
1:K:914:VAL:HA	1:K:917:TYR:HD2	1.85	0.42
1:H:13:LYS:NZ	1:H:68:LYS:O	2.43	0.42
1:H:166:LEU:HD13	1:H:171:GLN:NE2	2.35	0.42
1:H:381:ILE:HD13	1:H:386:LEU:HD12	2.02	0.42
1:H:608:ASN:CG	1:H:909:GLU:HG2	2.45	0.42
1:H:658:ALA:HB2	1:H:678:TRP:CD1	2.55	0.42
1:H:708:SER:N	1:H:717:PHE:HD2	2.18	0.42
1:H:728:ALA:HA	1:H:736:PHE:H	1.84	0.42
1:H:762:LYS:HB2	1:H:764:MET:HG2	2.02	0.42
1:H:954:ALA:CA	1:H:990:LYS:NZ	2.81	0.42
1:J:114:TYR:OH	1:J:166:LEU:HD22	2.19	0.42
1:J:624:ALA:HB3	1:J:627:SER:HA	2.02	0.42
1:J:722:ASP:N	1:J:744:LEU:HD11	2.35	0.42
1:J:734:VAL:CG2	1:J:737:ILE:HA	2.48	0.42
1:J:833:LYS:HD3	1:J:872:ARG:HG3	2.02	0.42
1:J:1000:ILE:HG13	1:J:1000:ILE:O	2.20	0.42
1:J:1155:PHE:CZ	1:J:1163:ILE:HB	2.55	0.42
1:L:26:ASN:HB2	2:B:81:GLN:HE21	1.84	0.42
1:L:484:MET:HG2	1:L:535:TYR:CE2	2.55	0.42
1:L:619:ASP:H	1:L:634:ASP:CG	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:681:TRP:HZ2	1:L:705:PHE:HB3	1.76	0.42
1:L:704:ARG:CZ	1:L:746:TRP:HB3	2.50	0.42
1:L:930:HIS:NE2	1:L:1225:ILE:HG22	2.34	0.42
1:L:961:THR:HG21	1:L:988:ASP:OD1	2.19	0.42
1:M:175:ASP:O	1:M:177:LYS:HG2	2.20	0.42
1:M:460:PRO:HG2	1:M:462:TYR:CE1	2.55	0.42
1:M:847:VAL:HG12	1:M:856:LEU:HB3	2.02	0.42
1:M:939:GLY:CA	1:M:947:GLU:N	2.83	0.42
1:O:92:ILE:O	1:O:95:GLU:HG2	2.19	0.42
1:O:247:VAL:HG21	1:O:264:LEU:HB2	2.02	0.42
1:O:329:GLU:O	1:O:332:ARG:HG2	2.20	0.42
1:O:371:ARG:HB3	1:O:389:ILE:HG22	2.01	0.42
1:O:388:LEU:HD11	1:O:449:ILE:HD12	2.02	0.42
1:O:483:ARG:HE	1:O:531:ASN:CB	2.06	0.42
1:O:806:PHE:CE1	1:O:813:PRO:HD3	2.54	0.42
1:O:864:CYS:HB3	1:O:866:LYS:HZ3	1.84	0.42
1:O:1027:ASN:HD21	1:O:1047:THR:HG21	1.84	0.42
2:N:31:TYR:HA	2:N:72:HIS:CE1	2.55	0.42
2:F:31:TYR:CE1	2:F:72:HIS:HA	2.54	0.42
1:Q:661:ASN:HB3	1:Q:662:GLN:H	1.62	0.42
1:Q:681:TRP:CG	1:Q:681:TRP:O	2.70	0.42
1:Q:979:ARG:NH2	1:Q:1008:THR:O	2.52	0.42
1:I:155:SER:HB3	1:I:157:LYS:NZ	2.34	0.42
1:I:478:ILE:HG13	1:I:479:GLU:N	2.35	0.42
1:I:631:LEU:HD12	1:I:640:GLU:O	2.20	0.42
1:I:979:ARG:CZ	1:I:1020:ILE:CD1	2.94	0.42
1:I:987:VAL:HA	1:I:999:ALA:CA	2.49	0.42
1:I:1100:MET:HB3	1:I:1113:GLN:HB3	2.02	0.42
1:K:11:GLN:HG3	1:K:13:LYS:H	1.85	0.42
1:K:134:LEU:HD23	1:K:164:VAL:HG21	2.02	0.42
1:K:563:ARG:O	1:K:566:LEU:HB3	2.19	0.42
1:K:728:ALA:HA	1:K:736:PHE:HD1	1.85	0.42
1:K:984:LEU:O	1:K:985:LEU:HD23	2.19	0.42
1:K:1061:LEU:HD11	1:K:1090:LEU:N	2.35	0.42
1:H:616:LEU:O	1:H:617:HIS:CG	2.73	0.42
1:H:992:ARG:CG	1:H:992:ARG:NH1	2.82	0.42
1:H:1010:THR:H	1:H:1019:LYS:HZ2	1.68	0.42
1:H:1133:ALA:HB1	1:H:1144:ILE:HG12	2.02	0.42
1:H:1145:VAL:HA	1:H:1151:ASN:H	1.85	0.42
1:J:293:THR:HG22	1:J:296:GLU:HG2	2.02	0.42
1:J:329:GLU:O	1:J:332:ARG:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:458:LEU:CD2	1:J:488:ARG:NH2	2.83	0.42
1:J:721:GLU:N	1:J:721:GLU:OE1	2.53	0.42
1:L:127:ARG:HG3	1:L:130:PRO:CD	2.50	0.42
1:L:331:ILE:HD13	1:L:337:THR:HA	2.01	0.42
1:L:480:HIS:CG	1:L:481:PRO:HD3	2.54	0.42
1:L:672:ASN:HB2	1:L:673:GLY:H	1.66	0.42
1:M:233:LYS:HA	1:M:238:GLU:OE1	2.20	0.42
1:M:413:LYS:HD3	1:M:420:ILE:HD11	2.02	0.42
1:M:964:CYS:HB3	1:M:979:ARG:O	2.20	0.42
1:O:153:LEU:HB2	1:O:267:ARG:HH21	1.84	0.42
1:O:400:VAL:HG12	1:O:404:LYS:NZ	2.35	0.42
1:O:845:LEU:HD13	1:O:863:THR:O	2.20	0.42
2:C:60:PHE:CD2	1:K:680:LEU:HD21	2.54	0.42
2:F:95:ARG:NH2	2:F:103:ALA:HB3	2.33	0.42
2:G:52:THR:HG21	2:G:75:LEU:HD12	2.02	0.42
1:Q:142:ARG:NH2	1:Q:144:ALA:HB3	2.35	0.42
1:Q:383:THR:O	1:Q:386:LEU:HG	2.20	0.42
1:Q:637:LEU:HD11	1:Q:658:ALA:N	2.30	0.42
1:Q:723:ALA:HB2	1:Q:746:TRP:CZ3	2.55	0.42
1:Q:764:MET:SD	1:Q:764:MET:N	2.79	0.42
1:Q:825:THR:H	1:Q:825:THR:HG1	1.54	0.42
1:Q:950:TRP:HB2	1:Q:955:ASP:HB3	2.02	0.42
1:Q:977:MET:SD	1:Q:987:VAL:HA	2.60	0.42
1:Q:1199:ASP:HB2	1:Q:1215:PHE:CE2	2.54	0.42
1:I:19:PHE:CZ	1:I:91:PRO:O	2.73	0.42
1:I:196:LEU:HD12	1:I:221:ILE:CD1	2.50	0.42
1:I:268:PHE:CD1	1:I:408:TYR:O	2.73	0.42
1:I:323:ARG:NH2	1:I:327:ILE:HD11	2.34	0.42
1:I:368:MET:HE1	1:I:371:ARG:NH2	2.35	0.42
1:I:470:HIS:HB3	1:I:474:HIS:CE1	2.54	0.42
1:I:1012:THR:HG22	1:I:1019:LYS:HZ2	1.69	0.42
1:K:81:LEU:CD2	1:K:89:MET:HE3	2.50	0.42
1:K:630:ILE:HB	1:K:642:THR:OG1	2.19	0.42
1:K:634:ASP:OD1	1:K:636:SER:HB2	2.20	0.42
1:K:718:TYR:O	1:K:751:GLN:NE2	2.52	0.42
1:K:746:TRP:CD1	1:K:762:LYS:HD3	2.54	0.42
1:K:814:LEU:HD11	1:K:821:GLU:HB2	2.02	0.42
1:H:411:VAL:O	1:H:411:VAL:HG13	2.20	0.41
1:H:543:LEU:O	1:H:547:PRO:HD3	2.19	0.41
1:H:818:VAL:HB	1:H:836:VAL:CG1	2.50	0.41
1:H:936:SER:OG	1:H:953:SER:HB3	2.14	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:952:HIS:O	1:H:990:LYS:CE	2.60	0.41
1:H:1126:LEU:HB2	1:H:1130:ASN:OD1	2.20	0.41
1:J:107:ILE:HD11	1:J:110:ARG:HH21	1.85	0.41
1:J:210:ARG:NH1	1:J:211:SER:HB2	2.35	0.41
1:J:276:SER:HB3	1:K:122:LYS:HZ2	1.84	0.41
1:J:1065:SER:HB3	1:J:1084:LEU:HB2	2.00	0.41
1:L:153:LEU:HB2	1:L:267:ARG:NH2	2.35	0.41
1:L:368:MET:HE1	1:L:389:ILE:C	2.45	0.41
1:L:384:ILE:O	1:L:388:LEU:HG	2.20	0.41
1:L:862:ILE:HG12	1:L:885:TYR:OH	2.19	0.41
1:M:150:ASP:HB2	1:M:284:SER:HB2	2.01	0.41
1:O:666:LEU:HB2	1:O:671:CYS:HB2	2.02	0.41
2:N:37:GLU:O	2:N:40:GLN:HG2	2.20	0.41
2:C:14:HIS:O	2:C:18:ILE:HG12	2.20	0.41
2:C:82:ARG:NH1	1:K:86:LYS:H	2.18	0.41
2:D:13:ARG:NH1	2:D:109:VAL:O	2.52	0.41
2:F:95:ARG:HH21	2:F:100:LEU:HA	1.85	0.41
1:Q:155:SER:HA	1:Q:321:PRO:HD2	2.02	0.41
1:Q:259:SER:HB2	1:I:112:ARG:HD2	2.02	0.41
1:Q:327:ILE:HG12	1:Q:345:ASN:ND2	2.34	0.41
1:Q:814:LEU:HD12	1:Q:855:GLN:OE1	2.20	0.41
1:Q:1187:GLN:HB3	1:Q:1191:ILE:H	1.84	0.41
1:Q:1241:PHE:HB3	1:Q:1242:SER:H	1.44	0.41
1:I:112:ARG:HH12	1:I:115:ASN:ND2	2.03	0.41
1:I:124:ASN:O	1:I:303:LYS:NZ	2.47	0.41
1:I:174:MET:HE3	1:I:239:ASN:O	2.20	0.41
1:I:1163:ILE:HG22	1:I:1165:VAL:H	1.85	0.41
1:K:516:ASN:HD22	1:K:612:HIS:HE1	1.65	0.41
1:H:485:THR:O	1:H:488:ARG:NH1	2.48	0.41
1:H:825:THR:HG22	1:H:832:PHE:CZ	2.54	0.41
1:H:887:LEU:HD13	1:H:889:ILE:HG13	2.00	0.41
1:H:1030:GLN:OE1	1:H:1036:VAL:CG1	2.68	0.41
1:H:1059:ASP:CG	1:H:1069:LEU:HD22	2.45	0.41
1:J:90:SER:HA	1:J:93:LYS:NZ	2.35	0.41
1:J:112:ARG:NH2	1:I:229:ARG:HH12	2.17	0.41
1:J:419:THR:OG1	1:J:420:ILE:N	2.53	0.41
1:J:675:VAL:HA	1:J:680:LEU:O	2.20	0.41
1:J:964:CYS:N	1:J:980:GLU:HA	2.35	0.41
1:L:381:ILE:N	1:L:420:ILE:O	2.31	0.41
1:L:405:LEU:O	1:L:410:LEU:HB2	2.20	0.41
1:L:681:TRP:HE3	1:L:694:LYS:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:807:ASN:ND2	1:L:812:THR:OG1	2.46	0.41
1:L:889:ILE:HG13	1:L:898:VAL:CG2	2.50	0.41
1:L:899:SER:O	1:L:901:HIS:NE2	2.53	0.41
1:L:962:LYS:HD3	1:L:980:GLU:N	2.36	0.41
1:L:1067:ASN:HD22	1:L:1067:ASN:C	2.26	0.41
1:L:1153:LEU:O	1:L:1153:LEU:HD23	2.20	0.41
1:M:88:LEU:O	1:M:91:PRO:HD2	2.20	0.41
1:M:106:TYR:CE1	1:M:168:TYR:HA	2.54	0.41
1:M:155:SER:C	1:M:321:PRO:HG2	2.45	0.41
1:M:704:ARG:HD3	1:M:705:PHE:N	2.35	0.41
1:M:883:ILE:HD11	1:M:903:GLU:N	2.35	0.41
1:M:890:SER:N	1:M:898:VAL:HG12	2.28	0.41
1:O:241:LEU:HD12	1:O:263:LEU:HD23	2.02	0.41
1:O:449:ILE:HG23	1:O:450:PRO:HD3	2.02	0.41
1:O:757:HIS:CD2	1:O:778:TYR:CZ	3.08	0.41
2:A:55:LEU:HA	2:A:74:ARG:NH1	2.35	0.41
1:Q:218:LYS:O	1:Q:221:ILE:HG22	2.20	0.41
1:Q:399:MET:SD	1:Q:400:VAL:N	2.93	0.41
1:Q:623:ILE:C	1:Q:623:ILE:CD1	2.93	0.41
1:Q:671:CYS:CA	1:Q:684:CYS:O	2.61	0.41
1:Q:923:ALA:HA	1:Q:1240:LEU:CD2	2.41	0.41
1:Q:1199:ASP:HA	1:Q:1221:LYS:HZ1	1.85	0.41
1:I:253:TRP:C	1:I:256:PHE:H	2.28	0.41
1:I:328:ALA:O	1:I:332:ARG:HG2	2.19	0.41
1:I:539:VAL:HA	1:I:542:ILE:HB	2.02	0.41
1:I:770:CYS:CB	1:I:776:LYS:O	2.69	0.41
1:I:854:VAL:O	1:I:854:VAL:HG12	2.20	0.41
1:I:1185:ILE:HD13	1:I:1226:TYR:HE2	1.84	0.41
1:K:163:ASP:HA	1:K:166:LEU:HD12	2.01	0.41
1:K:174:MET:HG3	1:K:177:LYS:H	1.86	0.41
1:K:218:LYS:HD2	1:K:219:LEU:N	2.34	0.41
1:K:666:LEU:HG	1:K:671:CYS:C	2.45	0.41
1:K:875:LEU:HD23	1:K:875:LEU:HA	1.94	0.41
1:K:924:LYS:HZ2	1:K:1222:VAL:HG11	1.85	0.41
1:K:979:ARG:NH2	1:K:1020:ILE:HG23	2.34	0.41
1:K:1029:GLU:CB	1:K:1038:GLY:O	2.47	0.41
1:K:1038:GLY:O	1:K:1040:ILE:HG12	2.19	0.41
1:K:1049:LEU:H	1:K:1061:LEU:CD1	2.33	0.41
1:K:1148:ASP:O	1:K:1150:LYS:HG3	2.20	0.41
1:K:1192:SER:OG	1:K:1203:LEU:O	2.33	0.41
1:H:64:THR:O	1:H:68:LYS:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:123:TYR:CG	1:H:304:TYR:HE1	2.39	0.41
1:H:371:ARG:NH2	1:H:441:ARG:HD3	2.32	0.41
1:H:472:GLY:HA2	1:H:487:PHE:CE1	2.55	0.41
1:H:952:HIS:CG	1:H:990:LYS:CD	2.96	0.41
1:J:89:MET:O	1:J:93:LYS:HG2	2.19	0.41
1:J:198:LYS:HA	1:J:201:TYR:CD2	2.54	0.41
1:J:228:LEU:HA	1:J:231:LEU:HG	2.02	0.41
1:J:614:VAL:HG21	1:J:618:ASN:OD1	2.19	0.41
1:J:766:SER:HA	1:J:782:CYS:HA	2.03	0.41
1:J:1148:ASP:H	1:J:1150:LYS:CD	2.32	0.41
1:L:468:TYR:CE1	1:L:501:ILE:HD13	2.55	0.41
1:L:609:GLU:O	1:L:907:ILE:HA	2.21	0.41
1:M:47:HIS:HB3	1:M:60:ARG:NH2	2.35	0.41
1:M:183:LEU:HD12	1:M:247:VAL:HA	2.02	0.41
1:M:244:LEU:HB2	1:M:264:LEU:CB	2.50	0.41
1:M:629:GLN:C	1:M:644:LEU:CD2	2.94	0.41
1:M:656:ARG:HB2	1:M:676:LYS:HZ1	1.83	0.41
1:M:890:SER:HA	1:M:897:ASN:HA	2.01	0.41
1:O:331:ILE:HG12	1:O:336:ALA:O	2.21	0.41
1:O:1110:GLN:NE2	1:O:1111:GLU:HG3	2.35	0.41
2:B:73:ARG:O	2:B:77:LEU:HG	2.20	0.41
2:B:95:ARG:CZ	2:B:103:ALA:HB1	2.50	0.41
2:D:102:ALA:HA	2:D:105:LEU:HD12	2.01	0.41
2:E:57:GLY:N	2:E:59:PRO:HD2	2.36	0.41
2:F:31:TYR:HE1	2:F:75:LEU:HB2	1.84	0.41
1:Q:181:LEU:HD13	1:Q:198:LYS:HZ3	1.85	0.41
1:Q:347:ASP:O	1:Q:351:THR:OG1	2.32	0.41
1:Q:676:LYS:HB2	1:Q:677:LEU:H	1.55	0.41
1:Q:1146:GLY:N	1:Q:1150:LYS:O	2.45	0.41
1:I:40:LEU:HD12	1:I:44:GLU:OE2	2.20	0.41
1:I:667:ILE:HG13	1:I:668:THR:N	2.35	0.41
1:I:807:ASN:ND2	1:I:851:SER:O	2.53	0.41
1:K:12:TYR:HA	1:K:15:ILE:HG12	2.02	0.41
1:K:56:SER:HA	1:K:59:LEU:HD12	2.00	0.41
1:K:72:MET:HE1	1:K:75:LYS:HZ2	1.84	0.41
1:K:123:TYR:HB3	1:K:304:TYR:HE1	1.86	0.41
1:K:127:ARG:HG3	1:K:130:PRO:CD	2.46	0.41
1:K:221:ILE:HA	1:K:224:ILE:HG12	2.01	0.41
1:K:330:SER:O	1:K:340:ASN:ND2	2.53	0.41
1:K:578:HIS:HA	1:K:581:VAL:HG12	2.02	0.41
1:K:897:ASN:CG	1:K:911:PHE:HE1	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:339:ASP:O	1:H:344:VAL:N	2.37	0.41
1:J:108:GLU:HA	1:J:111:ASP:HB2	2.02	0.41
1:J:119:VAL:HA	1:J:122:LYS:HZ3	1.85	0.41
1:J:218:LYS:O	1:J:221:ILE:HG22	2.20	0.41
1:J:628:GLY:O	1:J:643:TYR:HA	2.19	0.41
1:J:744:LEU:HD22	1:J:745:ASN:N	2.35	0.41
1:J:749:GLN:HB3	1:J:760:VAL:HA	2.01	0.41
1:J:816:LEU:HD22	1:J:843:PRO:HG3	2.02	0.41
1:J:1058:ILE:HG23	1:J:1094:ASP:O	2.21	0.41
1:J:1126:LEU:HD11	1:J:1130:ASN:CG	2.46	0.41
1:L:383:THR:O	1:L:386:LEU:HG	2.21	0.41
1:L:946:ARG:NH2	1:L:977:MET:O	2.50	0.41
1:L:949:ALA:HA	1:L:956:GLU:HA	2.02	0.41
1:M:110:ARG:HG2	1:M:114:TYR:CZ	2.55	0.41
1:M:537:ARG:HD2	1:M:538:LEU:N	2.35	0.41
1:M:761:LEU:HD12	1:M:815:ALA:HA	2.02	0.41
1:M:761:LEU:CG	1:M:804:HIS:CG	3.02	0.41
1:M:815:ALA:O	1:M:821:GLU:HA	2.20	0.41
1:M:890:SER:HA	1:M:898:VAL:H	1.85	0.41
1:M:1238:GLN:H	1:M:1238:GLN:HG3	1.45	0.41
1:O:287:HIS:HB3	1:O:290:MET:HB2	2.03	0.41
1:O:443:ILE:HG12	1:O:477:ASN:OD1	2.21	0.41
1:O:938:SER:HA	1:O:947:GLU:O	2.20	0.41
1:O:1094:ASP:HA	1:O:1135:VAL:HG11	2.01	0.41
1:O:1220:ARG:HD2	1:O:1220:ARG:HA	1.80	0.41
2:N:16:GLU:HA	2:N:19:ARG:NE	2.36	0.41
2:N:17:HIS:HA	2:N:20:LYS:NZ	2.34	0.41
2:B:25:LEU:HB2	2:B:76:LEU:HD21	2.02	0.41
2:F:37:GLU:OE2	2:F:41:GLN:NE2	2.54	0.41
2:F:48:MET:HA	2:F:51:ASN:HD21	1.84	0.41
1:Q:45:ILE:HA	1:Q:48:ILE:HD12	2.03	0.41
1:Q:414:GLN:HE21	1:Q:419:THR:HG23	1.85	0.41
1:Q:642:THR:HG23	1:Q:649:SER:HA	2.02	0.41
1:Q:810:ASN:ND2	1:Q:810:ASN:C	2.78	0.41
1:Q:887:LEU:N	1:Q:887:LEU:HD23	2.35	0.41
1:Q:908:TYR:C	1:Q:908:TYR:HD1	2.26	0.41
1:Q:1070:VAL:HG13	1:Q:1072:SER:O	2.20	0.41
1:Q:1187:GLN:OE1	1:Q:1192:SER:N	2.44	0.41
1:I:90:SER:CB	1:I:91:PRO:HD3	2.41	0.41
1:I:714:ILE:HG21	1:I:730:ILE:H	1.85	0.41
1:I:854:VAL:O	1:I:868:SER:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1060:TYR:HB2	1:I:1068:ILE:HG23	2.01	0.41
1:K:112:ARG:HA	1:K:112:ARG:NE	2.36	0.41
1:K:174:MET:CG	1:K:177:LYS:H	2.33	0.41
1:K:220:ARG:HA	1:K:220:ARG:NH1	2.35	0.41
1:K:620:PHE:HB3	1:K:663:GLN:HE22	1.86	0.41
1:K:679:SER:OG	1:K:702:VAL:N	2.42	0.41
1:K:987:VAL:HB	1:K:997:LYS:H	1.86	0.41
1:H:42:LYS:HD2	1:H:45:ILE:HG21	2.01	0.41
1:H:156:GLY:HA2	1:H:322:ARG:NH1	2.35	0.41
1:H:372:LEU:HD21	1:H:422:ILE:HG13	2.03	0.41
1:H:621:CYS:SG	1:H:632:LEU:HB3	2.60	0.41
1:H:672:ASN:HD21	1:H:684:CYS:CB	2.32	0.41
1:H:1126:LEU:HD22	1:H:1150:LYS:HD2	2.02	0.41
1:H:1238:GLN:HG2	1:H:1241:PHE:O	2.20	0.41
1:J:143:PRO:O	1:J:261:LYS:N	2.53	0.41
1:J:192:VAL:O	1:J:195:MET:HB2	2.21	0.41
1:J:298:LYS:O	1:J:301:LEU:HG	2.20	0.41
1:J:825:THR:HB	1:J:826:ALA:H	1.65	0.41
1:J:936:SER:HB2	1:J:950:TRP:CE3	2.55	0.41
1:L:183:LEU:HD23	1:L:183:LEU:HA	1.80	0.41
1:L:330:SER:O	1:L:340:ASN:ND2	2.53	0.41
1:L:675:VAL:CG2	1:L:681:TRP:HE1	2.33	0.41
1:M:354:GLU:HG2	1:M:430:LYS:NZ	2.35	0.41
1:M:463:LEU:HD23	1:M:466:TYR:H	1.85	0.41
1:M:559:THR:O	1:M:562:LEU:HG	2.20	0.41
1:M:761:LEU:HB2	1:M:804:HIS:CG	2.53	0.41
1:M:803:LEU:O	1:M:816:LEU:HB2	2.20	0.41
1:O:147:VAL:O	1:O:264:LEU:HD23	2.20	0.41
1:O:232:LEU:O	1:O:237:TYR:HB2	2.21	0.41
1:O:341:TRP:CZ3	1:O:342:LYS:HD2	2.55	0.41
1:O:632:LEU:HD23	1:O:640:GLU:O	2.21	0.41
1:O:808:VAL:HG12	1:O:850:GLN:O	2.20	0.41
1:O:900:GLU:OE1	1:O:900:GLU:N	2.53	0.41
1:O:1224:LEU:HD23	1:O:1235:CYS:HB2	2.02	0.41
2:N:70:GLU:HA	2:N:73:ARG:HG2	2.02	0.41
2:A:25:LEU:HB2	2:A:76:LEU:HD21	2.02	0.41
2:A:101:ASP:OD1	2:A:101:ASP:N	2.54	0.41
2:E:50:ARG:O	2:E:53:GLN:HG3	2.21	0.41
2:E:75:LEU:O	2:E:79:ILE:HG12	2.21	0.41
1:Q:218:LYS:HA	1:Q:221:ILE:HG22	2.03	0.41
1:Q:400:VAL:HG12	1:Q:404:LYS:HZ2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:764:MET:HG2	1:Q:766:SER:OG	2.21	0.41
1:Q:765:GLN:OE1	1:Q:817:ASP:HA	2.20	0.41
1:Q:899:SER:HA	1:Q:906:ASP:HB2	2.01	0.41
1:Q:928:VAL:HG22	1:Q:937:VAL:CG1	2.50	0.41
1:Q:948:ILE:O	1:Q:956:GLU:HA	2.20	0.41
1:I:422:ILE:HG22	1:I:423:PRO:O	2.21	0.41
1:I:855:GLN:HA	1:I:875:LEU:HD11	2.02	0.41
1:I:989:SER:HB3	1:I:1018:CYS:SG	2.59	0.41
1:I:1136:LYS:NZ	1:I:1189:ALA:HA	2.35	0.41
1:K:118:GLN:O	1:K:122:LYS:NZ	2.54	0.41
1:K:200:LEU:HA	1:K:203:ILE:HG12	2.02	0.41
1:K:406:HIS:ND1	1:K:412:GLU:HA	2.35	0.41
1:K:609:GLU:O	1:K:907:ILE:HG23	2.20	0.41
1:H:40:LEU:HG	1:H:44:GLU:OE2	2.20	0.41
1:H:200:LEU:HD11	1:H:207:TRP:CE2	2.55	0.41
1:H:1021:ASN:OD1	1:H:1047:THR:O	2.38	0.41
1:H:1229:GLU:O	1:H:1231:VAL:N	2.47	0.41
1:J:39:ILE:HG13	1:J:40:LEU:CD2	2.50	0.41
1:J:106:TYR:HA	1:J:109:GLN:NE2	2.35	0.41
1:J:157:LYS:HD3	1:J:265:THR:OG1	2.21	0.41
1:J:437:TYR:CZ	1:J:439:LEU:HB2	2.55	0.41
1:J:833:LYS:HG3	1:J:870:ASP:OD1	2.21	0.41
1:J:912:ASP:HA	1:J:915:TYR:HD2	1.86	0.41
1:J:1049:LEU:HG	1:J:1049:LEU:O	2.20	0.41
1:J:1215:PHE:HB3	1:J:1216:ALA:H	1.75	0.41
1:L:193:LEU:O	1:L:197:GLN:HG2	2.20	0.41
1:L:287:HIS:CD2	1:L:290:MET:H	2.36	0.41
1:L:329:GLU:O	1:L:332:ARG:HG2	2.21	0.41
1:L:437:TYR:OH	1:L:440:HIS:HB2	2.20	0.41
1:L:1093:ASN:OD1	1:L:1102:VAL:O	2.37	0.41
1:M:177:LYS:HB2	1:M:239:ASN:O	2.21	0.41
1:M:386:LEU:HA	1:M:389:ILE:HG22	2.03	0.41
1:M:483:ARG:CD	1:M:530:ASP:HB3	2.51	0.41
1:M:682:PRO:HB3	1:M:693:SER:HA	2.01	0.41
1:O:131:TYR:CD1	1:O:164:VAL:HA	2.55	0.41
1:O:342:LYS:HE3	1:O:342:LYS:HB2	1.84	0.41
1:O:463:LEU:N	1:O:467:PHE:HB2	2.35	0.41
1:O:488:ARG:CB	1:O:491:PHE:HB2	2.51	0.41
1:O:922:GLY:O	1:O:1240:LEU:HB3	2.21	0.41
2:N:91:ILE:O	2:N:95:ARG:HG2	2.20	0.41
2:B:10:MET:HE2	2:B:87:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:51:ASN:C	2:B:51:ASN:HD22	2.27	0.41
2:C:22:LEU:HD11	2:C:73:ARG:HA	2.02	0.41
2:F:29:THR:OG1	2:F:72:HIS:NE2	2.53	0.41
1:Q:35:MET:CE	1:Q:40:LEU:HB3	2.48	0.41
1:Q:672:ASN:N	1:Q:684:CYS:O	2.54	0.41
1:Q:825:THR:OG1	1:Q:830:LEU:HD13	2.21	0.41
1:Q:946:ARG:NH1	1:Q:967:PRO:HB2	2.36	0.41
1:Q:1149:LEU:HD23	1:Q:1181:CYS:HB3	2.03	0.41
1:I:253:TRP:O	1:I:256:PHE:N	2.49	0.41
1:I:355:SER:HA	1:I:358:ASN:OD1	2.20	0.41
1:K:93:LYS:HB2	1:K:97:ARG:NH2	2.24	0.41
1:K:287:HIS:CD2	1:K:289:SER:H	2.38	0.41
1:K:368:MET:SD	1:K:389:ILE:HG23	2.60	0.41
1:K:483:ARG:O	1:K:489:MET:HE1	2.20	0.41
1:K:521:LEU:HG	1:K:525:LYS:NZ	2.35	0.41
1:K:1062:LYS:O	1:K:1065:SER:N	2.48	0.41
1:H:69:GLN:O	1:H:73:VAL:HG23	2.20	0.41
1:H:134:LEU:HD21	1:H:149:ILE:HD13	2.02	0.41
1:H:295:ASP:OD1	1:H:296:GLU:N	2.53	0.41
1:H:328:ALA:O	1:H:332:ARG:HG2	2.21	0.41
1:H:808:VAL:HG23	1:H:853:ALA:HA	2.01	0.41
1:H:978:THR:HB	1:H:979:ARG:H	1.72	0.41
1:J:194:GLU:O	1:J:198:LYS:HG2	2.21	0.41
1:J:449:ILE:CG2	1:J:450:PRO:HD3	2.51	0.41
1:L:664:LYS:NZ	1:L:664:LYS:CB	2.73	0.41
1:L:695:GLN:H	1:L:695:GLN:NE2	2.19	0.41
1:L:978:THR:HG21	1:L:987:VAL:CA	2.50	0.41
1:L:1126:LEU:HD22	1:L:1126:LEU:C	2.45	0.41
1:M:60:ARG:O	1:M:64:THR:HG23	2.20	0.41
1:M:234:SER:N	1:M:238:GLU:OE2	2.54	0.41
1:M:381:ILE:HG22	1:M:420:ILE:O	2.21	0.41
1:M:950:TRP:HD1	1:M:955:ASP:HB2	1.85	0.41
1:M:968:ASN:ND2	1:M:977:MET:HB3	2.34	0.41
1:M:1104:THR:OG1	1:M:1131:PRO:C	2.64	0.41
1:M:1233:GLU:H	1:M:1246:LEU:HD23	1.85	0.41
1:O:632:LEU:HD21	1:O:640:GLU:HB3	2.02	0.41
1:O:999:ALA:HA	1:O:1032:PHE:CZ	2.55	0.41
1:O:1218:GLU:HB3	1:O:1219:ASN:H	1.51	0.41
2:N:66:ASP:O	2:N:70:GLU:HG2	2.20	0.41
2:D:39:VAL:HG13	2:D:40:GLN:OE1	2.20	0.41
2:F:21:ASN:HA	2:F:24:ILE:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:13:ARG:HH11	2:G:109:VAL:HG13	1.86	0.41
1:Q:146:ASN:OD1	1:Q:280:THR:HG22	2.20	0.41
1:Q:329:GLU:OE2	1:Q:332:ARG:NH1	2.53	0.41
1:Q:437:TYR:CZ	1:Q:440:HIS:HB3	2.55	0.41
1:Q:618:ASN:ND2	1:Q:906:ASP:N	2.69	0.41
1:Q:618:ASN:CB	1:Q:901:HIS:N	2.84	0.41
1:Q:727:GLU:N	1:Q:737:ILE:O	2.49	0.41
1:I:147:VAL:HA	1:I:281:THR:OG1	2.20	0.41
1:I:221:ILE:HA	1:I:224:ILE:HG22	2.02	0.41
1:I:633:THR:HB	1:I:660:PHE:CE2	2.56	0.41
1:I:664:LYS:HZ3	1:I:681:TRP:HH2	1.67	0.41
1:I:666:LEU:HD11	1:I:730:ILE:HD13	2.02	0.41
1:I:1057:PRO:O	1:I:1058:ILE:HB	2.20	0.41
1:I:1239:LEU:HB2	1:I:1241:PHE:CE2	2.55	0.41
1:K:65:LEU:CD1	1:K:73:VAL:HB	2.50	0.41
1:K:381:ILE:HG12	1:K:382:PRO:O	2.21	0.41
1:K:496:PHE:CZ	1:K:500:LYS:HG3	2.55	0.41
1:K:824:LYS:HE2	1:K:831:ILE:HG12	2.02	0.41
1:K:968:ASN:HB2	1:K:1011:PRO:HB3	2.02	0.41
1:K:1078:LYS:HG2	1:K:1079:THR:HG23	2.01	0.41
1:H:573:ILE:HG13	1:H:574:PHE:N	2.36	0.41
1:H:637:LEU:HD22	1:H:637:LEU:HA	1.89	0.41
1:J:39:ILE:HG21	1:J:75:LYS:HB2	2.03	0.41
1:J:65:LEU:HD12	1:J:65:LEU:HA	1.83	0.41
1:J:337:THR:O	1:J:341:TRP:HB2	2.21	0.41
1:J:523:PHE:O	1:J:527:TYR:CD2	2.74	0.41
1:J:760:VAL:CG1	1:J:762:LYS:HE2	2.50	0.41
1:J:868:SER:HB3	1:J:875:LEU:HG	2.02	0.41
1:J:909:GLU:HB3	1:J:914:VAL:CG2	2.51	0.41
1:L:192:VAL:O	1:L:195:MET:HB2	2.21	0.41
1:L:195:MET:O	1:L:199:LEU:HG	2.21	0.41
1:L:220:ARG:HA	1:L:220:ARG:NE	2.36	0.41
1:L:449:ILE:N	1:L:450:PRO:CD	2.83	0.41
1:L:483:ARG:NH1	1:L:531:ASN:CG	2.72	0.41
1:L:668:THR:HG22	1:L:711:ASN:HD21	1.85	0.41
1:L:714:ILE:HB	1:L:729:ASN:ND2	2.36	0.41
1:L:1234:HIS:HB3	1:L:1242:SER:HB2	2.02	0.41
1:M:39:ILE:HD11	1:M:73:VAL:HA	2.01	0.41
1:M:183:LEU:HB3	1:M:248:GLN:HG2	2.03	0.41
1:M:275:LEU:HD12	1:M:282:HIS:CD2	2.56	0.41
1:M:478:ILE:HG13	1:M:479:GLU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:936:SER:HB3	1:M:948:ILE:HG22	2.03	0.41
1:O:39:ILE:CD1	1:O:76:PHE:HB2	2.50	0.41
1:O:125:VAL:HB	1:O:127:ARG:HH11	1.86	0.41
1:O:162:LEU:O	1:O:166:LEU:HG	2.21	0.41
1:O:211:SER:O	1:O:220:ARG:NE	2.54	0.41
1:O:483:ARG:HG2	1:O:489:MET:HE1	2.01	0.41
1:O:924:LYS:O	1:O:926:LYS:HG2	2.21	0.41
2:N:11:PRO:HD2	2:N:14:HIS:ND1	2.35	0.41
2:N:16:GLU:HA	2:N:19:ARG:CD	2.51	0.41
2:B:58:LYS:N	2:B:59:PRO:HD2	2.36	0.41
2:E:23:ASN:O	2:E:26:VAL:HG12	2.20	0.41
2:E:30:ASN:OD1	2:E:31:TYR:N	2.54	0.41
2:G:46:VAL:HB	1:Q:81:LEU:HA	2.02	0.41
1:Q:623:ILE:HB	1:Q:897:ASN:HD22	1.86	0.41
1:Q:703:LYS:NZ	1:Q:721:GLU:HA	2.36	0.41
1:Q:934:LEU:HB2	1:Q:950:TRP:CE3	2.53	0.41
1:Q:1134:PHE:CE2	1:Q:1183:GLU:HA	2.55	0.41
1:I:110:ARG:HD2	1:I:111:ASP:N	2.36	0.41
1:I:167:SER:HB3	1:I:170:VAL:HG22	2.01	0.41
1:I:524:TYR:HB3	1:I:543:LEU:HD12	2.02	0.41
1:I:632:LEU:HD11	1:I:640:GLU:HB2	2.03	0.41
1:I:876:LEU:HD22	1:I:916:LYS:H	1.85	0.41
1:I:1146:GLY:O	1:I:1181:CYS:HB2	2.21	0.41
1:K:293:THR:HG23	1:K:296:GLU:H	1.86	0.41
1:K:429:LEU:HA	1:K:432:LYS:NZ	2.36	0.41
1:K:438:ALA:HA	1:K:441:ARG:CZ	2.51	0.41
1:K:761:LEU:HD21	1:K:815:ALA:HB1	2.03	0.41
1:K:771:PHE:CD1	1:K:776:LYS:HB2	2.56	0.41
1:K:821:GLU:OE1	1:K:823:SER:N	2.54	0.41
1:K:858:GLU:HA	1:K:864:CYS:SG	2.61	0.41
1:K:951:VAL:HG12	1:K:952:HIS:ND1	2.35	0.41
1:H:129:GLN:HG3	1:H:289:SER:HB2	2.03	0.41
1:H:204:ASP:OD2	1:H:206:ASN:ND2	2.50	0.41
1:H:326:ILE:HD11	1:H:348:LYS:HG3	2.03	0.41
1:H:641:ASP:OD1	1:H:651:SER:N	2.53	0.41
1:H:717:PHE:HB3	1:H:753:PHE:CD1	2.55	0.41
1:H:764:MET:HE3	1:H:766:SER:O	2.21	0.41
1:H:816:LEU:CD1	1:H:843:PRO:HG2	2.51	0.41
1:H:936:SER:HB2	1:H:953:SER:CB	2.43	0.41
1:H:1092:PRO:HG3	1:H:1134:PHE:HA	2.02	0.41
1:H:1229:GLU:H	1:H:1229:GLU:CD	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:37:LYS:HZ3	1:J:42:LYS:N	2.19	0.41
1:J:384:ILE:O	1:J:388:LEU:HG	2.20	0.41
1:J:404:LYS:HA	1:J:404:LYS:HD3	1.93	0.41
1:J:406:HIS:HD1	1:J:412:GLU:HA	1.86	0.41
1:J:424:SER:C	1:J:426:TYR:N	2.79	0.41
1:J:620:PHE:HB3	1:J:663:GLN:OE1	2.21	0.41
1:J:658:ALA:HB3	1:J:676:LYS:CD	2.51	0.41
1:J:687:ARG:HH21	1:J:688:ARG:HG2	1.86	0.41
1:J:803:LEU:HD21	1:J:845:LEU:HA	2.01	0.41
1:J:1067:ASN:OD1	1:J:1081:ILE:HB	2.21	0.41
1:J:1150:LYS:HE2	1:J:1181:CYS:HB2	2.01	0.41
1:L:26:ASN:OD1	2:B:81:GLN:NE2	2.53	0.41
1:L:40:LEU:HD23	1:L:42:LYS:N	2.36	0.41
1:L:194:GLU:HG2	1:L:195:MET:HE2	2.03	0.41
1:L:376:PRO:HB2	1:L:379:ALA:HB2	2.01	0.41
1:L:625:LEU:CB	1:L:669:LEU:HD11	2.51	0.41
1:L:668:THR:HG22	1:L:711:ASN:ND2	2.36	0.41
1:L:697:LEU:C	1:L:702:VAL:HG21	2.45	0.41
1:L:803:LEU:HD13	1:L:846:SER:OG	2.21	0.41
1:M:12:TYR:HA	1:M:15:ILE:HG12	2.02	0.41
1:M:179:PHE:O	1:M:242:LEU:HA	2.20	0.41
1:M:464:ASP:OD1	1:M:501:ILE:HG12	2.21	0.41
1:M:471:ILE:HD12	1:M:471:ILE:HA	1.82	0.41
1:M:519:GLN:HE21	1:M:520:GLN:NE2	2.18	0.41
1:M:534:LYS:O	1:M:537:ARG:HG3	2.21	0.41
1:M:538:LEU:HD11	1:M:571:GLU:HA	2.03	0.41
1:M:725:LEU:O	1:M:738:ASN:HA	2.21	0.41
1:M:881:GLY:O	1:M:882:LEU:HB2	2.20	0.41
1:M:924:LYS:HA	1:M:1236:ILE:HG22	2.02	0.41
1:M:1027:ASN:HD22	1:M:1042:ASP:HB2	1.85	0.41
1:M:1103:SER:N	1:M:1106:TYR:OH	2.54	0.41
1:M:1234:HIS:NE2	1:M:1246:LEU:HD11	2.36	0.41
1:O:56:SER:HA	1:O:59:LEU:HG	2.03	0.41
1:O:525:LYS:H	1:O:526:PRO:HD2	1.85	0.41
2:N:11:PRO:HD2	2:N:14:HIS:CE1	2.56	0.41
2:N:44:LEU:HG	2:N:48:MET:HE2	2.02	0.41
2:A:30:ASN:OD1	2:A:31:TYR:N	2.54	0.41
2:A:76:LEU:O	2:A:79:ILE:HG22	2.20	0.41
2:B:17:HIS:HE2	2:B:106:LEU:HA	1.85	0.41
2:B:37:GLU:OE1	2:B:40:GLN:NE2	2.53	0.41
2:E:31:TYR:HB3	2:E:68:ARG:NH2	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:18:VAL:HG21	1:Q:103:THR:HG23	2.02	0.41
1:Q:249:ASN:HA	1:Q:271:VAL:HG22	2.02	0.41
1:Q:300:LEU:O	1:Q:303:LYS:HG2	2.21	0.41
1:Q:361:GLU:HG3	1:Q:365:TYR:CE2	2.55	0.41
1:Q:935:ARG:HH12	1:Q:1233:GLU:N	2.18	0.41
1:Q:979:ARG:NE	1:Q:985:LEU:HD22	2.29	0.41
1:Q:1046:ASP:OD2	1:Q:1063:GLN:NE2	2.53	0.41
1:Q:1079:THR:O	1:Q:1080:VAL:HG12	2.20	0.41
1:Q:1184:GLU:C	1:Q:1194:LEU:O	2.64	0.41
1:Q:1184:GLU:O	1:Q:1185:ILE:O	2.38	0.41
1:I:323:ARG:HD2	1:I:425:ILE:CD1	2.51	0.41
1:I:340:ASN:HA	1:I:344:VAL:CB	2.51	0.41
1:I:426:TYR:O	1:I:430:LYS:HB3	2.21	0.41
1:I:475:LEU:HB3	1:I:487:PHE:HE1	1.86	0.41
1:I:483:ARG:NH2	1:I:528:ILE:HA	2.36	0.41
1:I:768:ILE:HG12	1:I:777:ARG:HD3	2.03	0.41
1:I:940:SER:HA	1:I:946:ARG:HG2	2.03	0.41
1:I:968:ASN:HD21	1:I:1009:ILE:HG21	1.80	0.41
1:I:1042:ASP:OD2	1:I:1062:LYS:NZ	2.54	0.41
1:K:295:ASP:HA	1:K:298:LYS:HG2	2.03	0.41
1:K:304:TYR:HB3	1:K:332:ARG:HH12	1.85	0.41
1:K:479:GLU:HG3	1:K:480:HIS:H	1.85	0.41
1:K:837:TRP:HZ2	1:K:857:PRO:HB2	1.86	0.41
1:K:1027:ASN:HD22	1:K:1041:ILE:HA	1.85	0.41
1:K:1040:ILE:HG21	1:K:1070:VAL:HG11	2.02	0.41
1:H:105:MET:O	1:H:109:GLN:OE1	2.39	0.41
1:H:127:ARG:HD2	1:H:292:LEU:HA	2.03	0.41
1:H:770:CYS:O	1:H:775:LEU:HA	2.21	0.41
1:H:975:MET:HG3	1:H:992:ARG:HG2	2.02	0.41
1:J:26:ASN:OD1	1:J:27:PHE:N	2.53	0.41
1:J:159:TRP:CD1	1:J:159:TRP:N	2.89	0.41
1:J:451:LYS:HA	1:J:451:LYS:HD2	1.83	0.41
1:J:534:LYS:O	1:J:537:ARG:HG3	2.21	0.41
1:J:634:ASP:O	1:J:660:PHE:HB2	2.21	0.41
1:J:1183:GLU:OE2	1:J:1223:GLN:HA	2.21	0.41
1:L:174:MET:HE2	1:L:241:LEU:HB2	2.02	0.41
1:M:752:GLU:CD	1:M:757:HIS:HB2	2.46	0.41
1:M:1103:SER:O	1:M:1105:LYS:N	2.54	0.41
1:O:317:LEU:O	1:O:318:THR:OG1	2.32	0.41
1:O:486:LEU:O	1:O:488:ARG:HD2	2.21	0.41
2:A:39:VAL:HG21	2:A:49:LEU:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:58:LYS:C	2:D:60:PHE:H	2.29	0.41
2:E:18:ILE:HG21	2:E:80:THR:HG22	2.01	0.41
2:G:75:LEU:O	2:G:79:ILE:HG12	2.21	0.41
1:Q:52:LYS:HD2	1:Q:52:LYS:HA	1.90	0.41
1:Q:680:LEU:CD1	1:Q:696:GLN:CG	2.98	0.41
1:Q:729:ASN:HB3	1:Q:731:GLN:CD	2.46	0.41
1:Q:921:CYS:HB3	1:Q:922:GLY:H	1.77	0.41
1:Q:1070:VAL:HA	1:Q:1078:LYS:CB	2.48	0.41
1:I:20:GLU:OE2	1:I:58:THR:HB	2.21	0.41
1:I:106:TYR:HB2	1:I:176:PHE:CE1	2.55	0.41
1:I:338:TRP:HA	1:I:341:TRP:HB2	2.03	0.41
1:I:405:LEU:CA	1:I:410:LEU:CD2	2.98	0.41
1:I:467:PHE:O	1:I:471:ILE:HG22	2.20	0.41
1:I:822:ARG:HG2	1:I:834:TYR:CE1	2.55	0.41
1:I:921:CYS:SG	1:I:922:GLY:N	2.94	0.41
1:K:51:SER:O	1:K:60:ARG:NH1	2.54	0.41
1:K:90:SER:HB2	1:K:91:PRO:HD3	2.02	0.41
1:K:154:GLY:H	1:K:157:LYS:HZ1	1.68	0.41
1:K:156:GLY:O	1:K:160:VAL:N	2.40	0.41
1:K:622:LEU:HD13	1:K:889:ILE:HG21	2.02	0.41
1:K:713:LYS:HB3	1:K:715:VAL:HG23	2.03	0.41
1:K:921:CYS:HB3	1:K:1240:LEU:HD23	2.03	0.41
1:K:1191:ILE:O	1:K:1192:SER:C	2.64	0.41
1:H:20:GLU:HB3	1:H:62:PHE:CE2	2.56	0.40
1:H:247:VAL:HG11	1:H:271:VAL:HG11	2.02	0.40
1:H:360:LEU:H	1:H:366:ARG:HH21	1.69	0.40
1:H:479:GLU:HB3	1:H:482:GLU:OE1	2.21	0.40
1:H:714:ILE:HG22	1:H:714:ILE:O	2.21	0.40
1:J:249:ASN:HA	1:J:271:VAL:HG22	2.03	0.40
1:J:355:SER:HA	1:J:358:ASN:OD1	2.21	0.40
1:J:643:TYR:HD2	1:J:646:ARG:H	1.70	0.40
1:J:828:VAL:HG23	1:J:829:LEU:HD22	2.02	0.40
1:L:81:LEU:HD21	1:L:88:LEU:CB	2.51	0.40
1:L:719:LEU:HD22	1:L:749:GLN:NE2	2.36	0.40
1:L:720:ASN:ND2	1:L:726:PRO:HG3	2.36	0.40
1:L:936:SER:HB3	1:L:950:TRP:CH2	2.55	0.40
1:M:147:VAL:HG13	1:M:281:THR:HG23	2.02	0.40
1:M:250:ALA:HB2	1:M:274:PHE:CE1	2.55	0.40
1:M:303:LYS:HE3	1:M:304:TYR:CE2	2.56	0.40
1:O:39:ILE:HD11	1:O:76:PHE:HB2	2.03	0.40
1:O:156:GLY:HA2	1:O:322:ARG:HH22	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:537:ARG:HD2	1:O:538:LEU:N	2.36	0.40
1:O:989:SER:H	1:O:992:ARG:HG2	1.85	0.40
1:O:1194:LEU:HD23	1:O:1201:THR:O	2.21	0.40
2:A:22:LEU:HD23	2:A:76:LEU:HD23	2.02	0.40
2:D:30:ASN:HB2	2:D:33:ARG:HE	1.86	0.40
2:G:19:ARG:HD2	2:G:20:LYS:N	2.36	0.40
2:G:79:ILE:HA	2:G:82:ARG:HH22	1.86	0.40
1:Q:167:SER:O	1:Q:171:GLN:HG3	2.21	0.40
1:Q:247:VAL:H	1:Q:266:THR:HA	1.86	0.40
1:Q:336:ALA:HB3	1:Q:339:ASP:HB3	2.02	0.40
1:Q:468:TYR:CE1	1:Q:501:ILE:HD13	2.56	0.40
1:Q:620:PHE:CZ	1:Q:662:GLN:HA	2.55	0.40
1:Q:680:LEU:HD23	1:Q:695:GLN:C	2.45	0.40
1:Q:824:LYS:NZ	1:Q:831:ILE:CD1	2.75	0.40
1:Q:824:LYS:HZ2	1:Q:831:ILE:HD13	1.78	0.40
1:Q:852:GLU:C	1:Q:854:VAL:H	2.29	0.40
1:Q:969:VAL:CG1	1:Q:977:MET:HG2	2.51	0.40
1:Q:1084:LEU:HG	1:Q:1105:LYS:HB2	2.03	0.40
1:Q:1199:ASP:HB2	1:Q:1215:PHE:CD2	2.56	0.40
1:I:268:PHE:HB3	1:I:270:GLN:HG3	2.03	0.40
1:I:732:LEU:HD23	1:I:732:LEU:HA	1.86	0.40
1:I:966:GLU:HA	1:I:967:PRO:HD3	1.92	0.40
1:K:105:MET:HA	1:K:108:GLU:OE1	2.22	0.40
1:K:143:PRO:HA	1:K:261:LYS:CG	2.50	0.40
1:K:472:GLY:HA2	1:K:487:PHE:HE1	1.84	0.40
1:K:620:PHE:HB3	1:K:663:GLN:NE2	2.36	0.40
1:K:732:LEU:HD22	1:K:736:PHE:CZ	2.55	0.40
1:K:1195:VAL:HG12	1:K:1199:ASP:O	2.22	0.40
1:K:1199:ASP:N	1:K:1221:LYS:HD2	2.36	0.40
1:H:23:PHE:CD1	1:H:27:PHE:CD1	3.02	0.40
1:H:405:LEU:HB3	1:H:410:LEU:HB2	2.04	0.40
1:H:449:ILE:O	1:H:452:THR:OG1	2.29	0.40
1:H:638:GLU:H	1:H:638:GLU:HG2	1.53	0.40
1:J:239:ASN:OD1	1:J:239:ASN:N	2.55	0.40
1:J:516:ASN:O	1:J:520:GLN:HG3	2.21	0.40
1:J:763:THR:C	1:J:765:GLN:H	2.29	0.40
1:J:959:VAL:HB	1:J:977:MET:CE	2.51	0.40
1:J:1059:ASP:CG	1:J:1102:VAL:HG11	2.46	0.40
1:J:1147:PHE:HA	1:J:1150:LYS:HZ2	1.87	0.40
1:L:106:TYR:HB2	1:L:176:PHE:CE1	2.56	0.40
1:L:463:LEU:O	1:L:467:PHE:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:730:ILE:HG22	1:L:731:GLN:H	1.86	0.40
1:L:1046:ASP:OD1	1:L:1046:ASP:N	2.51	0.40
1:M:144:ALA:HB3	1:O:112:ARG:NH2	2.37	0.40
1:M:522:LYS:HD3	1:M:525:LYS:NZ	2.35	0.40
1:M:847:VAL:HG22	1:M:848:SER:N	2.36	0.40
1:O:198:LYS:HA	1:O:198:LYS:HD3	1.89	0.40
1:O:888:LYS:HA	1:O:899:SER:HA	2.02	0.40
1:O:935:ARG:HH11	1:O:1234:HIS:HB2	1.86	0.40
1:O:950:TRP:CD1	1:O:955:ASP:HB3	2.56	0.40
1:O:1031:ILE:O	1:O:1036:VAL:N	2.54	0.40
1:O:1149:LEU:CD2	1:O:1220:ARG:NH2	2.84	0.40
2:B:93:ALA:O	2:B:97:ILE:HG12	2.21	0.40
2:C:11:PRO:HB2	2:C:14:HIS:CE1	2.56	0.40
2:C:82:ARG:HH12	1:K:86:LYS:H	1.69	0.40
2:C:82:ARG:NH2	1:K:86:LYS:HB2	2.37	0.40
1:Q:201:TYR:CD1	1:Q:205:PRO:HA	2.57	0.40
1:Q:675:VAL:HA	1:Q:681:TRP:HA	2.03	0.40
1:Q:841:PHE:CB	1:Q:863:THR:HG21	2.51	0.40
1:Q:889:ILE:HD12	1:Q:890:SER:H	1.87	0.40
1:I:323:ARG:NH1	1:I:323:ARG:HB3	2.36	0.40
1:I:685:PRO:HG2	1:I:687:ARG:HB2	2.02	0.40
1:I:764:MET:CB	1:I:767:GLY:H	2.33	0.40
1:I:1099:MET:O	1:I:1100:MET:HG2	2.21	0.40
1:K:20:GLU:OE2	1:K:58:THR:HB	2.21	0.40
1:K:37:LYS:NZ	1:K:42:LYS:HB2	2.36	0.40
1:K:83:ILE:HD12	1:K:83:ILE:H	1.85	0.40
1:K:357:LEU:HD23	1:K:360:LEU:HD22	2.03	0.40
1:H:149:ILE:O	1:H:265:THR:HA	2.20	0.40
1:H:483:ARG:HG3	1:H:487:PHE:CD1	2.56	0.40
1:H:719:LEU:HD21	1:H:751:GLN:HB2	2.04	0.40
1:H:1100:MET:HE1	1:H:1113:GLN:HG2	2.03	0.40
1:H:1196:ALA:HA	1:H:1199:ASP:OD1	2.20	0.40
1:J:445:ASP:O	1:J:449:ILE:HG22	2.21	0.40
1:J:487:PHE:HB3	1:J:489:MET:CE	2.38	0.40
1:J:737:ILE:O	1:J:737:ILE:CG2	2.69	0.40
1:J:737:ILE:C	1:J:739:GLY:N	2.79	0.40
1:J:1010:THR:O	1:J:1010:THR:HG23	2.20	0.40
1:J:1047:THR:HB	1:J:1062:LYS:CB	2.51	0.40
1:L:11:GLN:HB2	1:L:14:ASP:OD2	2.21	0.40
1:L:38:SER:HG	1:L:75:LYS:NZ	2.19	0.40
1:L:62:PHE:O	1:L:66:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:SER:C	1:L:101:MET:HE2	2.46	0.40
1:L:183:LEU:HD22	1:L:186:CYS:SG	2.61	0.40
1:L:268:PHE:HB2	1:L:271:VAL:HG23	2.03	0.40
1:L:453:PHE:CE2	1:L:461:PRO:HG2	2.56	0.40
1:L:455:SER:N	1:L:460:PRO:HG3	2.35	0.40
1:L:1062:LYS:HE2	1:L:1068:ILE:HB	2.02	0.40
1:M:44:GLU:HB2	1:M:60:ARG:NH1	2.37	0.40
1:M:408:TYR:O	1:M:409:SER:HB3	2.21	0.40
1:M:663:GLN:N	1:M:663:GLN:OE1	2.54	0.40
1:M:878:THR:OG1	1:M:888:LYS:NZ	2.54	0.40
1:M:896:SER:HB3	1:M:908:TYR:OH	2.21	0.40
1:O:134:LEU:O	1:O:138:LEU:HG	2.21	0.40
1:O:157:LYS:HB2	1:O:157:LYS:HE2	1.86	0.40
1:O:542:ILE:O	1:O:546:LEU:HG	2.21	0.40
1:O:718:TYR:HB2	1:O:726:PRO:HG2	2.03	0.40
1:O:719:LEU:HD23	1:O:725:LEU:HG	2.04	0.40
1:O:719:LEU:HD13	1:O:749:GLN:CD	2.46	0.40
1:O:764:MET:C	1:O:766:SER:H	2.29	0.40
1:O:882:LEU:H	1:O:882:LEU:HD12	1.86	0.40
2:C:25:LEU:HB3	2:C:76:LEU:HD21	2.03	0.40
2:G:32:GLU:OE1	2:G:68:ARG:NH2	2.54	0.40
1:Q:129:GLN:HE22	1:Q:290:MET:HE2	1.86	0.40
1:Q:361:GLU:HG3	1:Q:365:TYR:CD2	2.57	0.40
1:Q:382:PRO:HD2	1:Q:385:LEU:HD12	2.03	0.40
1:Q:630:ILE:N	1:Q:642:THR:O	2.54	0.40
1:Q:666:LEU:HD23	1:Q:666:LEU:HA	1.95	0.40
1:Q:784:SER:OG	1:Q:822:ARG:NH2	2.53	0.40
1:Q:934:LEU:HD22	1:Q:952:HIS:HB2	2.03	0.40
1:Q:1059:ASP:OD1	1:Q:1060:TYR:N	2.49	0.40
1:I:76:PHE:O	1:I:81:LEU:N	2.50	0.40
1:I:157:LYS:HD2	1:I:267:ARG:NH2	2.36	0.40
1:I:377:PRO:HA	1:I:427:LEU:HD22	2.04	0.40
1:I:522:LYS:CE	1:I:525:LYS:NZ	2.84	0.40
1:I:989:SER:HB3	1:I:1018:CYS:HB2	2.03	0.40
1:K:28:ASP:OD1	1:K:29:CYS:N	2.54	0.40
1:K:192:VAL:O	1:K:196:LEU:HD23	2.22	0.40
1:K:383:THR:O	1:K:386:LEU:HG	2.22	0.40
1:K:482:GLU:H	1:K:482:GLU:CD	2.28	0.40
1:K:517:THR:HA	1:K:520:GLN:CD	2.46	0.40
1:K:635:VAL:HA	1:K:659:VAL:HG13	2.02	0.40
1:K:726:PRO:HA	1:K:737:ILE:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:866:LYS:HE2	1:K:875:LEU:O	2.22	0.40
1:H:106:TYR:HD1	1:H:176:PHE:HZ	1.70	0.40
1:H:372:LEU:O	1:H:375:PHE:HD2	2.05	0.40
1:H:382:PRO:HD3	1:H:466:TYR:CD2	2.56	0.40
1:H:426:TYR:O	1:H:430:LYS:HB3	2.20	0.40
1:H:480:HIS:HA	1:H:530:ASP:CG	2.45	0.40
1:H:954:ALA:CB	1:H:976:ASP:CG	2.95	0.40
1:H:1031:ILE:HB	1:H:1032:PHE:H	1.69	0.40
1:J:39:ILE:HG22	1:J:72:MET:SD	2.62	0.40
1:J:142:ARG:NH2	1:K:10:TYR:HA	2.37	0.40
1:J:330:SER:O	1:J:340:ASN:ND2	2.55	0.40
1:J:732:LEU:HD23	1:J:732:LEU:HA	1.88	0.40
1:J:743:ILE:HD12	1:J:743:ILE:HA	1.89	0.40
1:J:987:VAL:HG11	1:J:1032:PHE:CG	2.56	0.40
1:J:1186:ALA:HA	1:J:1193:TYR:CD1	2.57	0.40
1:J:1218:GLU:H	1:J:1237:ARG:HD3	1.86	0.40
1:L:229:ARG:O	1:L:233:LYS:HG2	2.21	0.40
1:L:935:ARG:O	1:L:937:VAL:HG23	2.22	0.40
1:M:349:LEU:O	1:M:353:ILE:HG12	2.22	0.40
1:M:433:LEU:HD12	1:M:434:GLU:HB3	2.03	0.40
1:M:549:ILE:HG13	1:M:607:ASP:HB2	2.03	0.40
1:M:666:LEU:HD11	1:M:671:CYS:HB2	2.03	0.40
1:M:939:GLY:HA2	1:M:947:GLU:N	2.36	0.40
1:M:977:MET:O	1:M:978:THR:OG1	2.19	0.40
1:M:986:ALA:HA	1:M:999:ALA:H	1.85	0.40
1:M:1065:SER:CA	1:M:1105:LYS:NZ	2.85	0.40
1:M:1131:PRO:HG3	1:M:1147:PHE:HB3	2.03	0.40
1:O:633:THR:HA	1:O:639:GLY:HA2	2.03	0.40
1:O:828:VAL:O	1:O:830:LEU:HG	2.21	0.40
2:N:34:LEU:HD13	2:N:97:ILE:HG13	2.04	0.40
2:C:24:ILE:HG23	2:C:28:TRP:CE2	2.56	0.40
2:F:24:ILE:HG22	2:F:25:LEU:HD12	2.03	0.40
2:F:104:VAL:HA	2:F:107:GLU:HG3	2.02	0.40
2:G:33:ARG:NE	2:G:97:ILE:HG23	2.36	0.40
1:Q:287:HIS:O	1:Q:291:THR:N	2.55	0.40
1:Q:295:ASP:HA	1:Q:298:LYS:HG2	2.04	0.40
1:Q:623:ILE:HG13	1:Q:895:ARG:NH1	2.36	0.40
1:Q:637:LEU:CD1	1:Q:658:ALA:N	2.77	0.40
1:Q:681:TRP:CB	1:Q:705:PHE:CZ	3.04	0.40
1:Q:856:LEU:HA	1:Q:857:PRO:HD3	1.67	0.40
1:Q:1108:SER:HA	1:Q:1129:ALA:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:299:SER:O	1:I:303:LYS:HG2	2.20	0.40
1:I:463:LEU:HD23	1:I:464:ASP:N	2.37	0.40
1:I:625:LEU:HD12	1:I:626:ALA:N	2.36	0.40
1:I:1049:LEU:HB2	1:I:1061:LEU:HD22	2.03	0.40
1:K:142:ARG:HD3	1:K:142:ARG:HA	1.86	0.40
1:K:183:LEU:HA	1:K:183:LEU:HD23	1.78	0.40
1:K:326:ILE:HD11	1:K:348:LYS:HB3	2.02	0.40
1:K:406:HIS:HD1	1:K:412:GLU:HA	1.87	0.40
1:K:542:ILE:O	1:K:546:LEU:HG	2.21	0.40
1:K:723:ALA:HB2	1:K:746:TRP:CZ2	2.57	0.40
1:H:194:GLU:O	1:H:198:LYS:HG2	2.22	0.40
1:H:672:ASN:ND2	1:H:684:CYS:O	2.54	0.40
1:H:825:THR:OG1	1:H:829:LEU:N	2.53	0.40
1:H:1187:GLN:HG3	1:H:1188:LYS:H	1.86	0.40
1:J:111:ASP:CG	1:I:142:ARG:HE	2.30	0.40
1:J:470:HIS:O	1:J:474:HIS:ND1	2.54	0.40
1:J:751:GLN:O	1:J:758:VAL:HA	2.22	0.40
1:J:845:LEU:HD21	1:J:888:LYS:HE3	2.03	0.40
1:J:845:LEU:CD2	1:J:887:LEU:HA	2.51	0.40
1:L:1007:SER:CB	1:L:1021:ASN:HD21	2.09	0.40
1:M:320:ASN:H	1:M:323:ARG:NH2	2.19	0.40
1:M:413:LYS:NZ	1:M:418:SER:HB3	2.37	0.40
1:M:443:ILE:HD12	1:M:443:ILE:HA	1.99	0.40
1:M:1007:SER:N	1:M:1023:ILE:HD12	2.36	0.40
1:O:302:LEU:HD12	1:O:302:LEU:HA	1.90	0.40
1:O:937:VAL:C	1:O:948:ILE:HD12	2.47	0.40
1:O:970:TYR:HB3	1:O:975:MET:HG3	2.02	0.40
2:N:50:ARG:HH21	2:N:54:ASP:HB3	1.87	0.40
2:C:43:ILE:HG21	2:C:79:ILE:HD11	2.04	0.40
2:D:56:ASN:OD1	2:D:59:PRO:HD3	2.21	0.40
2:E:59:PRO:HA	2:E:62:MET:SD	2.61	0.40
2:G:50:ARG:C	2:G:52:THR:H	2.29	0.40
1:Q:722:ASP:HA	1:Q:746:TRP:CD1	2.57	0.40
1:Q:866:LYS:CD	1:Q:876:LEU:CB	2.34	0.40
1:Q:927:GLN:HG3	1:Q:968:ASN:ND2	2.37	0.40
1:I:174:MET:HE2	1:I:241:LEU:N	2.37	0.40
1:I:330:SER:HB3	1:I:340:ASN:HD22	1.85	0.40
1:I:496:PHE:O	1:I:499:GLN:HG3	2.22	0.40
1:I:987:VAL:CA	1:I:999:ALA:HB2	2.49	0.40
1:I:1056:GLU:HB2	1:I:1057:PRO:HD3	2.03	0.40
1:I:1067:ASN:HD22	1:I:1082:PHE:HE2	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1069:LEU:HB2	1:I:1078:LYS:HB2	2.03	0.40
1:K:685:PRO:HD3	1:K:690:SER:O	2.21	0.40
1:K:941:ASN:HB3	1:K:942:SER:H	1.78	0.40
1:K:979:ARG:HH21	1:K:1010:THR:HG22	1.87	0.40
1:K:1231:VAL:O	1:K:1231:VAL:HG12	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	H	992/1237 (80%)	793 (80%)	173 (17%)	26 (3%)	4	25
1	I	1002/1237 (81%)	843 (84%)	128 (13%)	31 (3%)	3	22
1	J	1004/1237 (81%)	823 (82%)	147 (15%)	34 (3%)	3	21
1	K	984/1237 (80%)	841 (86%)	129 (13%)	14 (1%)	9	40
1	L	1004/1237 (81%)	824 (82%)	156 (16%)	24 (2%)	4	27
1	M	988/1237 (80%)	839 (85%)	128 (13%)	21 (2%)	5	30
1	O	984/1237 (80%)	840 (85%)	127 (13%)	17 (2%)	7	36
1	Q	990/1237 (80%)	812 (82%)	145 (15%)	33 (3%)	3	21
2	A	100/102 (98%)	94 (94%)	6 (6%)	0	100	100
2	B	100/102 (98%)	95 (95%)	5 (5%)	0	100	100
2	C	100/102 (98%)	93 (93%)	7 (7%)	0	100	100
2	D	100/102 (98%)	95 (95%)	5 (5%)	0	100	100
2	E	100/102 (98%)	96 (96%)	4 (4%)	0	100	100
2	F	100/102 (98%)	97 (97%)	3 (3%)	0	100	100
2	G	100/102 (98%)	87 (87%)	12 (12%)	1 (1%)	12	48
2	N	100/102 (98%)	95 (95%)	5 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	8748/10712 (82%)	7367 (84%)	1180 (14%)	201 (2%)	7	28

All (201) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	52	LYS
1	H	99	PRO
1	H	409	SER
1	H	662	GLN
1	H	783	THR
1	H	785	ASN
1	H	991	GLU
1	H	997	LYS
1	H	1150	LYS
1	H	1236	ILE
1	J	99	PRO
1	J	409	SER
1	J	721	GLU
1	J	738	ASN
1	J	740	ASP
1	J	752	GLU
1	J	1057	PRO
1	J	1065	SER
1	J	1066	PRO
1	J	1102	VAL
1	J	1152	SER
1	L	42	LYS
1	L	99	PRO
1	L	1012	THR
1	L	1067	ASN
1	L	1121	HIS
1	M	99	PRO
1	M	235	LYS
1	M	313	PRO
1	M	409	SER
1	M	774	VAL
1	M	1104	THR
1	O	99	PRO
1	O	235	LYS
1	O	409	SER
1	O	652	SER
1	O	812	THR

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Mol	Chain	Res	Type
1	O	813	PRO
1	O	880	GLU
1	O	1065	SER
1	O	1220	ARG
2	G	46	VAL
1	Q	37	LYS
1	Q	99	PRO
1	Q	613	ALA
1	Q	852	GLU
1	Q	884	VAL
1	Q	914	VAL
1	Q	1041	ILE
1	Q	1065	SER
1	Q	1185	ILE
1	Q	1221	LYS
1	I	99	PRO
1	I	409	SER
1	I	529	CYS
1	I	531	ASN
1	I	533	PRO
1	I	634	ASP
1	I	755	LEU
1	I	757	HIS
1	I	781	VAL
1	I	921	CYS
1	I	987	VAL
1	I	1040	ILE
1	I	1128	ILE
1	I	1203	LEU
1	K	99	PRO
1	K	409	SER
1	K	812	THR
1	K	930	HIS
1	K	1065	SER
1	K	1068	ILE
1	H	531	ASN
1	H	677	LEU
1	H	722	ASP
1	H	921	CYS
1	H	957	ILE
1	J	717	PHE
1	J	727	GLU

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Mol	Chain	Res	Type
1	J	743	ILE
1	J	818	VAL
1	J	825	THR
1	J	1027	ASN
1	J	1043	VAL
1	J	1222	VAL
1	L	409	SER
1	L	669	LEU
1	L	1025	ALA
1	L	1043	VAL
1	L	1128	ILE
1	L	1228	ILE
1	M	42	LYS
1	M	318	THR
1	M	818	VAL
1	M	875	LEU
1	M	1105	LYS
1	M	1108	SER
1	M	1131	PRO
1	O	691	GLY
1	O	750	ASP
1	Q	608	ASN
1	Q	612	HIS
1	Q	632	LEU
1	Q	831	ILE
1	Q	902	ILE
1	Q	1080	VAL
1	I	993	ILE
1	I	1058	ILE
1	K	818	VAL
1	K	1009	ILE
1	K	1131	PRO
1	K	1185	ILE
1	H	632	LEU
1	H	679	SER
1	J	36	PRO
1	J	487	PHE
1	J	682	PRO
1	J	726	PRO
1	J	751	GLN
1	J	760	VAL
1	J	761	LEU

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Mol	Chain	Res	Type
1	L	534	LYS
1	L	690	SER
1	L	818	VAL
1	L	1047	THR
1	L	1063	GLN
1	L	1124	CYS
1	M	155	SER
1	M	978	THR
1	O	656	ARG
1	Q	618	ASN
1	Q	661	ASN
1	Q	897	ASN
1	I	615	TYR
1	I	977	MET
1	I	998	PRO
1	I	1100	MET
1	K	784	SER
1	K	1010	THR
1	H	635	VAL
1	J	530	ASP
1	J	1052	GLN
1	J	1101	ASP
1	L	408	TYR
1	L	695	GLN
1	L	964	CYS
1	L	1129	ALA
1	M	1103	SER
1	O	1236	ILE
1	Q	679	SER
1	Q	704	ARG
1	Q	853	ALA
1	Q	893	VAL
1	Q	901	HIS
1	I	619	ASP
1	I	818	VAL
1	I	990	LYS
1	I	1109	LEU
1	I	1135	VAL
1	H	118	GLN
1	H	634	ASP
1	H	636	SER
1	H	901	HIS

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Mol	Chain	Res	Type
1	H	902	ILE
1	J	705	PHE
1	J	737	ILE
1	J	747	ASP
1	L	318	THR
1	L	1082	PHE
1	M	1218	GLU
1	O	845	LEU
1	O	1218	GLU
1	Q	628	GLY
1	Q	633	THR
1	Q	656	ARG
1	Q	857	PRO
1	Q	898	VAL
1	I	532	ASP
1	I	684	CYS
1	I	1066	PRO
1	H	992	ARG
1	M	118	GLN
1	M	890	SER
1	M	1239	LEU
1	Q	659	VAL
1	Q	836	VAL
1	Q	1084	LEU
1	K	118	GLN
1	H	996	ILE
1	J	813	PRO
1	L	667	ILE
1	Q	818	VAL
1	J	828	VAL
1	I	685	PRO
1	O	857	PRO
1	I	682	PRO
1	K	1128	ILE
1	H	1031	ILE
1	M	1231	VAL
1	I	967	PRO
1	O	884	VAL

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 PDB entries followed by that with respect to all EM entries.

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	H	973/1140 (85%)	917 (94%)	56 (6%)	18	40
1	I	977/1140 (86%)	943 (96%)	34 (4%)	32	53
1	J	980/1140 (86%)	910 (93%)	70 (7%)	13	35
1	K	970/1140 (85%)	957 (99%)	13 (1%)	61	74
1	L	976/1140 (86%)	936 (96%)	40 (4%)	27	48
1	M	971/1140 (85%)	954 (98%)	17 (2%)	51	68
1	O	970/1140 (85%)	959 (99%)	11 (1%)	65	76
1	Q	972/1140 (85%)	918 (94%)	54 (6%)	19	40
2	A	94/94 (100%)	94 (100%)	0	100	100
2	B	94/94 (100%)	94 (100%)	0	100	100
2	C	94/94 (100%)	94 (100%)	0	100	100
2	D	94/94 (100%)	94 (100%)	0	100	100
2	E	94/94 (100%)	94 (100%)	0	100	100
2	F	94/94 (100%)	94 (100%)	0	100	100
2	G	94/94 (100%)	94 (100%)	0	100	100
2	N	94/94 (100%)	94 (100%)	0	100	100
All	All	8541/9872 (86%)	8246 (96%)	295 (4%)	32	53

All (295) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	219	LEU
1	H	293	THR
1	H	532	ASP
1	H	619	ASP
1	H	632	LEU
1	H	633	THR
1	H	634	ASP
1	H	636	SER

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Mol	Chain	Res	Type
1	H	637	LEU
1	H	638	GLU
1	H	641	ASP
1	H	650	ASP
1	H	653	ASP
1	H	657	MET
1	H	660	PHE
1	H	662	GLN
1	H	663	GLN
1	H	672	ASN
1	H	675	VAL
1	H	676	LYS
1	H	677	LEU
1	H	678	TRP
1	H	681	TRP
1	H	703	LYS
1	H	719	LEU
1	H	720	ASN
1	H	854	VAL
1	H	900	GLU
1	H	928	VAL
1	H	929	VAL
1	H	930	HIS
1	H	948	ILE
1	H	951	VAL
1	H	952	HIS
1	H	956	GLU
1	H	958	SER
1	H	959	VAL
1	H	975	MET
1	H	977	MET
1	H	978	THR
1	H	985	LEU
1	H	987	VAL
1	H	990	LYS
1	H	992	ARG
1	H	993	ILE
1	H	996	ILE
1	H	1008	THR
1	H	1010	THR
1	H	1013	HIS
1	H	1020	ILE

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Mol	Chain	Res	Type
1	H	1030	GLN
1	H	1031	ILE
1	H	1225	ILE
1	H	1226	TYR
1	H	1234	HIS
1	H	1235	CYS
1	J	127	ARG
1	J	425	ILE
1	J	471	ILE
1	J	475	LEU
1	J	483	ARG
1	J	484	MET
1	J	486	LEU
1	J	528	ILE
1	J	531	ASN
1	J	620	PHE
1	J	633	THR
1	J	662	GLN
1	J	664	LYS
1	J	681	TRP
1	J	683	ASP
1	J	687	ARG
1	J	688	ARG
1	J	689	HIS
1	J	702	VAL
1	J	703	LYS
1	J	705	PHE
1	J	708	SER
1	J	714	ILE
1	J	719	LEU
1	J	720	ASN
1	J	721	GLU
1	J	722	ASP
1	J	737	ILE
1	J	743	ILE
1	J	744	LEU
1	J	745	ASN
1	J	748	GLU
1	J	749	GLN
1	J	750	ASP
1	J	751	GLN
1	J	752	GLU

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Mol	Chain	Res	Type
1	J	757	HIS
1	J	758	VAL
1	J	760	VAL
1	J	761	LEU
1	J	762	LYS
1	J	769	ARG
1	J	770	CYS
1	J	778	TYR
1	J	779	TYR
1	J	780	VAL
1	J	781	VAL
1	J	803	LEU
1	J	805	VAL
1	J	812	THR
1	J	824	LYS
1	J	828	VAL
1	J	829	LEU
1	J	830	LEU
1	J	831	ILE
1	J	833	LYS
1	J	981	ARG
1	J	1009	ILE
1	J	1044	ILE
1	J	1045	HIS
1	J	1051	GLN
1	J	1052	GLN
1	J	1059	ASP
1	J	1090	LEU
1	J	1091	GLN
1	J	1098	LEU
1	J	1100	MET
1	J	1102	VAL
1	J	1104	THR
1	J	1153	LEU
1	L	101	MET
1	L	165	CYS
1	L	449	ILE
1	L	531	ASN
1	L	663	GLN
1	L	664	LYS
1	L	667	ILE
1	L	668	THR

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Mol	Chain	Res	Type
1	L	669	LEU
1	L	670	HIS
1	L	674	SER
1	L	690	SER
1	L	694	LYS
1	L	712	LEU
1	L	770	CYS
1	L	782	CYS
1	L	899	SER
1	L	946	ARG
1	L	961	THR
1	L	964	CYS
1	L	1009	ILE
1	L	1010	THR
1	L	1012	THR
1	L	1041	ILE
1	L	1042	ASP
1	L	1044	ILE
1	L	1045	HIS
1	L	1062	LYS
1	L	1067	ASN
1	L	1068	ILE
1	L	1080	VAL
1	L	1083	GLN
1	L	1084	LEU
1	L	1091	GLN
1	L	1105	LYS
1	L	1110	GLN
1	L	1126	LEU
1	L	1128	ILE
1	L	1130	ASN
1	L	1234	HIS
1	M	65	LEU
1	M	153	LEU
1	M	465	GLN
1	M	687	ARG
1	M	694	LYS
1	M	695	GLN
1	M	938	SER
1	M	1042	ASP
1	M	1061	LEU
1	M	1084	LEU

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Mol	Chain	Res	Type
1	M	1104	THR
1	M	1105	LYS
1	M	1108	SER
1	M	1110	GLN
1	M	1126	LEU
1	M	1218	GLU
1	M	1238	GLN
1	O	150	ASP
1	O	348	LYS
1	O	410	LEU
1	O	439	LEU
1	O	529	CYS
1	O	534	LYS
1	O	656	ARG
1	O	659	VAL
1	O	845	LEU
1	O	1043	VAL
1	O	1220	ARG
1	Q	41	SER
1	Q	609	GLU
1	Q	611	ARG
1	Q	615	TYR
1	Q	619	ASP
1	Q	623	ILE
1	Q	632	LEU
1	Q	634	ASP
1	Q	636	SER
1	Q	637	LEU
1	Q	640	GLU
1	Q	642	THR
1	Q	644	LEU
1	Q	645	LEU
1	Q	654	ILE
1	Q	656	ARG
1	Q	659	VAL
1	Q	660	PHE
1	Q	661	ASN
1	Q	662	GLN
1	Q	664	LYS
1	Q	674	SER
1	Q	675	VAL
1	Q	676	LYS

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Mol	Chain	Res	Type
1	Q	679	SER
1	Q	680	LEU
1	Q	683	ASP
1	Q	705	PHE
1	Q	706	ILE
1	Q	809	GLU
1	Q	810	ASN
1	Q	825	THR
1	Q	830	LEU
1	Q	849	LEU
1	Q	850	GLN
1	Q	852	GLU
1	Q	856	LEU
1	Q	862	ILE
1	Q	866	LYS
1	Q	869	THR
1	Q	883	ILE
1	Q	886	ASP
1	Q	887	LEU
1	Q	888	LYS
1	Q	889	ILE
1	Q	893	VAL
1	Q	902	ILE
1	Q	903	GLU
1	Q	907	ILE
1	Q	908	TYR
1	Q	978	THR
1	Q	979	ARG
1	Q	981	ARG
1	Q	1008	THR
1	I	158	THR
1	I	266	THR
1	I	409	SER
1	I	410	LEU
1	I	443	ILE
1	I	529	CYS
1	I	536	GLU
1	I	693	SER
1	I	694	LYS
1	I	753	PHE
1	I	758	VAL
1	I	776	LYS

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Mol	Chain	Res	Type
1	I	968	ASN
1	I	970	TYR
1	I	975	MET
1	I	976	ASP
1	I	977	MET
1	I	985	LEU
1	I	987	VAL
1	I	989	SER
1	I	992	ARG
1	I	993	ILE
1	I	995	LEU
1	I	996	ILE
1	I	1000	ILE
1	I	1018	CYS
1	I	1019	LYS
1	I	1020	ILE
1	I	1021	ASN
1	I	1065	SER
1	I	1104	THR
1	I	1105	LYS
1	I	1128	ILE
1	I	1147	PHE
1	K	65	LEU
1	K	77	VAL
1	K	101	MET
1	K	270	GLN
1	K	1008	THR
1	K	1009	ILE
1	K	1012	THR
1	K	1026	PHE
1	K	1060	TYR
1	K	1061	LEU
1	K	1065	SER
1	K	1068	ILE
1	K	1167	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (192) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	11	GLN
1	H	115	ASN
1	H	117	ASN

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Mol	Chain	Res	Type
1	H	136	GLN
1	H	171	GLN
1	H	358	ASN
1	H	448	ASN
1	H	503	HIS
1	H	531	ASN
1	H	608	ASN
1	H	612	HIS
1	H	618	ASN
1	H	662	GLN
1	H	665	HIS
1	H	672	ASN
1	H	751	GLN
1	H	785	ASN
1	H	901	HIS
1	H	930	HIS
1	H	1030	GLN
1	H	1045	HIS
1	H	1052	GLN
1	H	1063	GLN
1	H	1151	ASN
1	J	74	GLN
1	J	340	ASN
1	J	358	ASN
1	J	473	HIS
1	J	519	GLN
1	J	520	GLN
1	J	531	ASN
1	J	578	HIS
1	J	612	HIS
1	J	661	ASN
1	J	745	ASN
1	J	749	GLN
1	J	757	HIS
1	J	804	HIS
1	J	855	GLN
1	J	941	ASN
1	J	1045	HIS
1	J	1067	ASN
1	J	1083	GLN
1	J	1091	GLN
1	J	1093	ASN

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Mol	Chain	Res	Type
1	J	1130	ASN
1	J	1223	GLN
1	J	1232	HIS
1	L	11	GLN
1	L	136	GLN
1	L	187	ASN
1	L	202	GLN
1	L	287	HIS
1	L	340	ASN
1	L	448	ASN
1	L	470	HIS
1	L	520	GLN
1	L	689	HIS
1	L	711	ASN
1	L	720	ASN
1	L	733	HIS
1	L	927	GLN
1	L	930	HIS
1	L	941	ASN
1	L	1021	ASN
1	L	1045	HIS
1	L	1083	GLN
1	L	1091	GLN
1	L	1151	ASN
1	M	115	ASN
1	M	118	GLN
1	M	129	GLN
1	M	171	GLN
1	M	182	ASN
1	M	197	GLN
1	M	254	ASN
1	M	282	HIS
1	M	287	HIS
1	M	288	HIS
1	M	435	ASN
1	M	440	HIS
1	M	465	GLN
1	M	499	GLN
1	M	519	GLN
1	M	580	GLN
1	M	1083	GLN
1	M	1091	GLN

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Mol	Chain	Res	Type
1	M	1110	GLN
1	M	1130	ASN
1	M	1234	HIS
1	O	109	GLN
1	O	136	GLN
1	O	197	GLN
1	O	287	HIS
1	O	288	HIS
1	O	403	ASN
1	O	608	ASN
1	O	617	HIS
1	O	689	HIS
1	O	773	GLN
1	O	785	ASN
1	O	1045	HIS
1	O	1052	GLN
1	O	1067	ASN
1	O	1121	HIS
1	O	1130	ASN
1	O	1219	ASN
1	O	1234	HIS
2	N	17	HIS
2	N	47	GLN
2	A	17	HIS
2	A	40	GLN
2	A	47	GLN
2	B	40	GLN
2	B	51	ASN
2	B	61	ASN
2	C	41	GLN
2	D	17	HIS
2	D	21	ASN
2	D	47	GLN
2	D	96	ASN
2	E	71	GLN
2	E	98	ASN
2	F	17	HIS
2	F	61	ASN
2	F	96	ASN
2	F	98	ASN
1	Q	47	HIS
1	Q	124	ASN

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Mol	Chain	Res	Type
1	Q	187	ASN
1	Q	197	GLN
1	Q	239	ASN
1	Q	270	GLN
1	Q	320	ASN
1	Q	414	GLN
1	Q	473	HIS
1	Q	503	HIS
1	Q	608	ASN
1	Q	612	HIS
1	Q	618	ASN
1	Q	661	ASN
1	Q	807	ASN
1	Q	810	ASN
1	Q	850	GLN
1	Q	968	ASN
1	Q	1045	HIS
1	Q	1121	HIS
1	Q	1234	HIS
1	I	69	GLN
1	I	115	ASN
1	I	118	GLN
1	I	202	GLN
1	I	246	ASN
1	I	249	ASN
1	I	270	GLN
1	I	340	ASN
1	I	345	ASN
1	I	440	HIS
1	I	448	ASN
1	I	465	GLN
1	I	695	GLN
1	I	749	GLN
1	I	757	HIS
1	I	773	GLN
1	I	807	ASN
1	I	810	ASN
1	I	968	ASN
1	I	1063	GLN
1	I	1083	GLN
1	I	1121	HIS
1	I	1130	ASN

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Mol	Chain	Res	Type
1	K	33	GLN
1	K	96	GLN
1	K	115	ASN
1	K	118	GLN
1	K	216	ASN
1	K	248	GLN
1	K	287	HIS
1	K	340	ASN
1	K	345	ASN
1	K	448	ASN
1	K	465	GLN
1	K	474	HIS
1	K	503	HIS
1	K	516	ASN
1	K	612	HIS
1	K	855	GLN
1	K	930	HIS
1	K	1021	ASN
1	K	1027	ASN
1	K	1091	GLN
1	K	1130	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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.

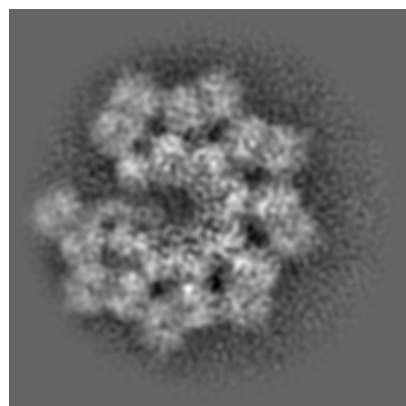
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-38995. These allow visual inspection of the internal detail of the map and identification of artifacts.

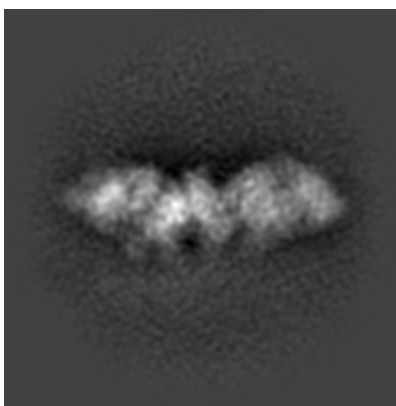
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

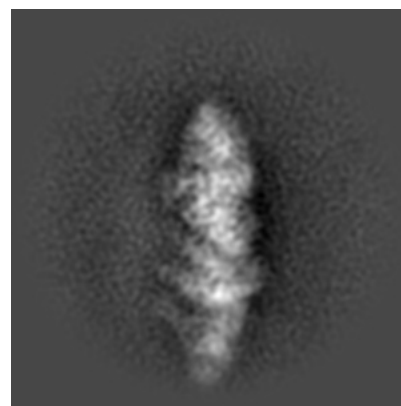
6.1.1 Primary map



X

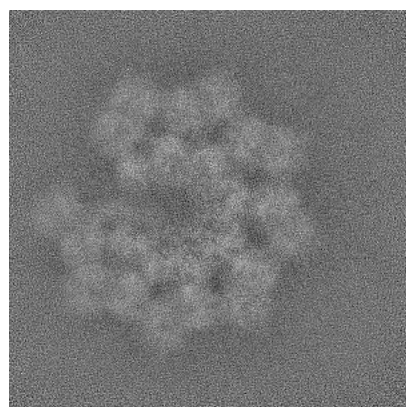


Y

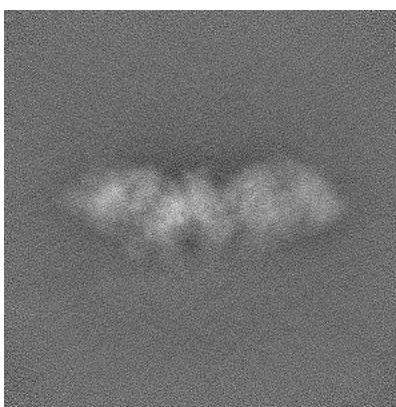


Z

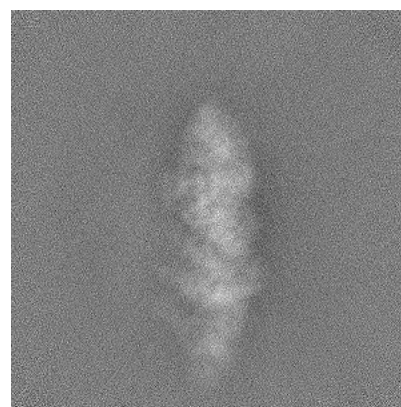
6.1.2 Raw map



X



Y

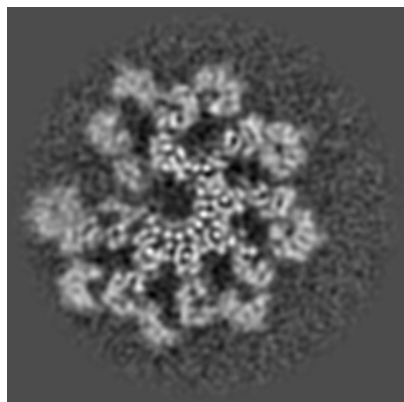


Z

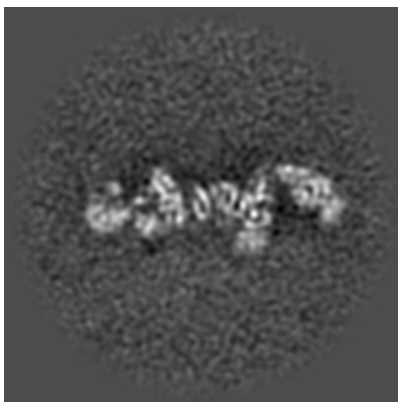
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

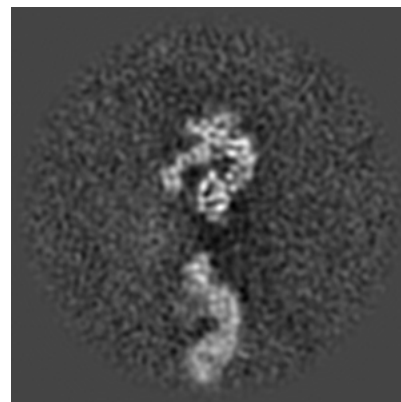
6.2.1 Primary map



X Index: 220

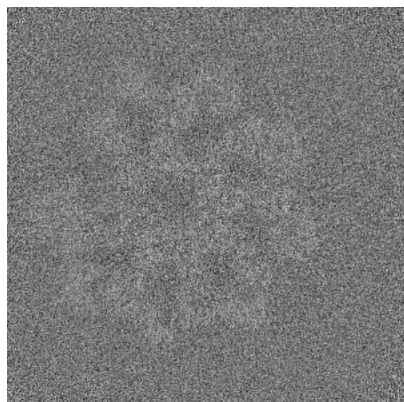


Y Index: 220

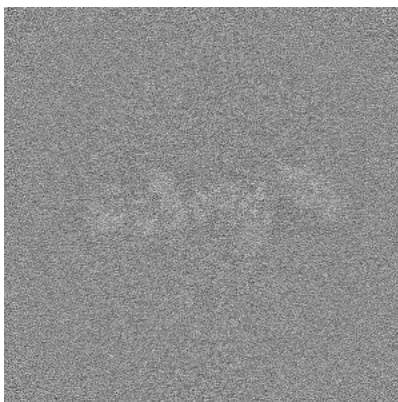


Z Index: 220

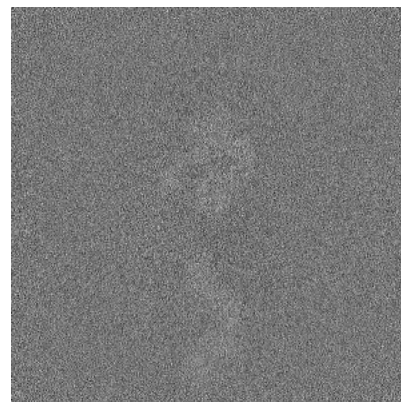
6.2.2 Raw map



X Index: 220



Y Index: 220

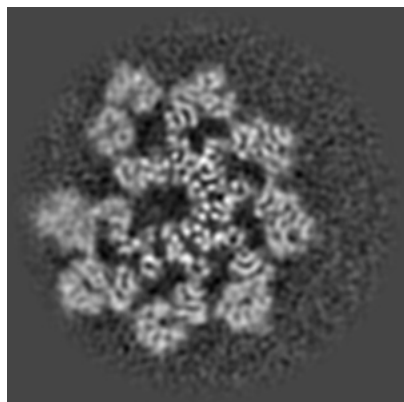


Z Index: 220

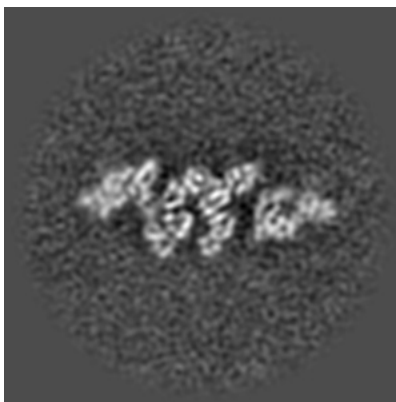
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

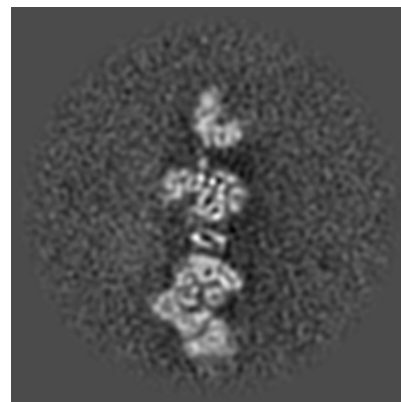
6.3.1 Primary map



X Index: 229

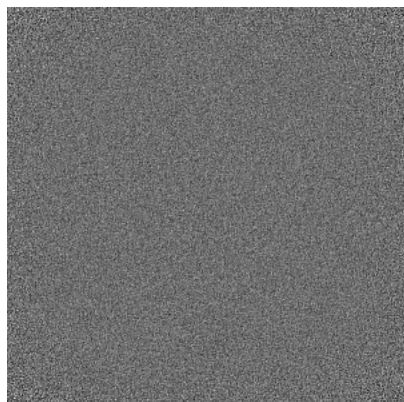


Y Index: 249

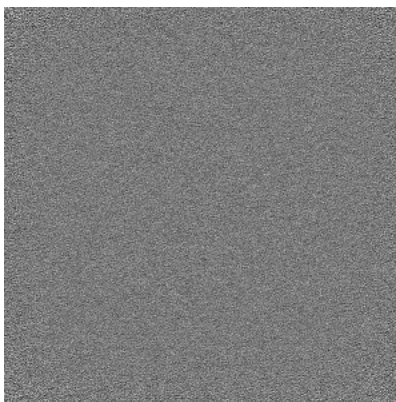


Z Index: 183

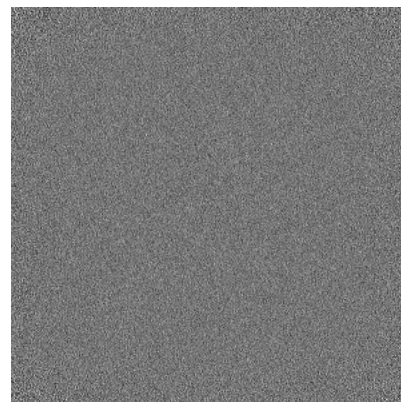
6.3.2 Raw map



X Index: 0



Y Index: 0

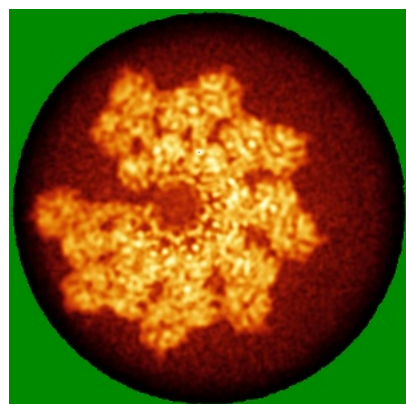


Z Index: 0

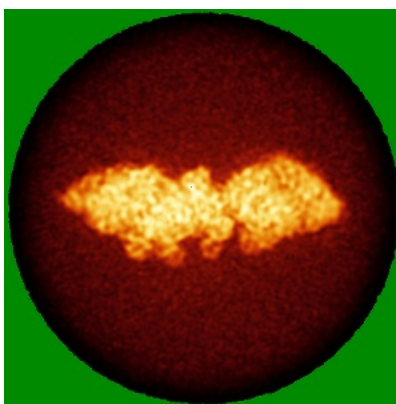
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

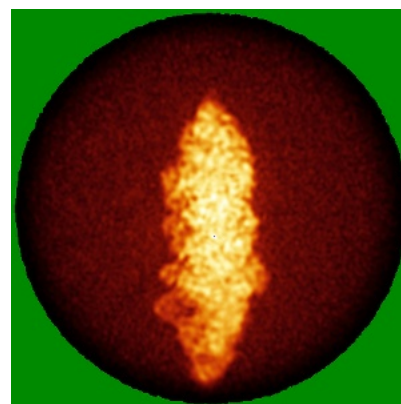
6.4.1 Primary map



X

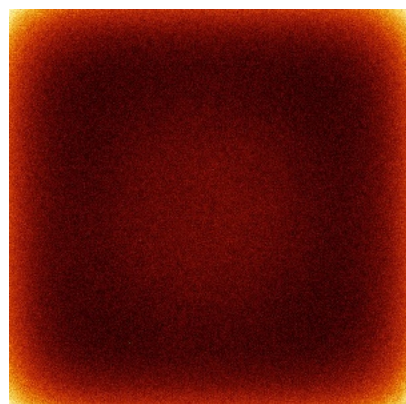


Y

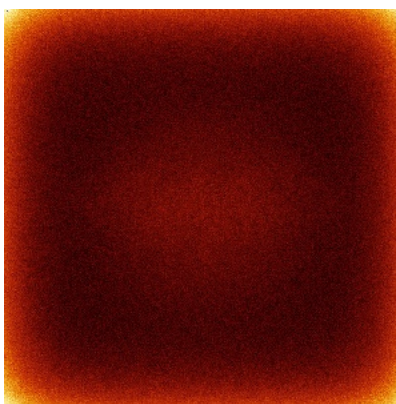


Z

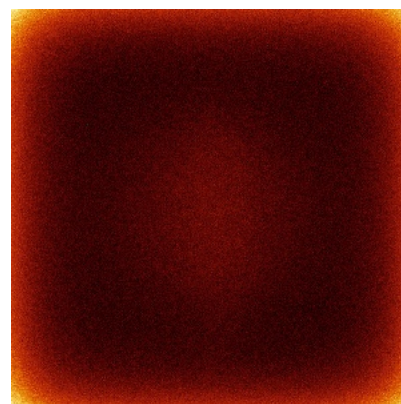
6.4.2 Raw map



X



Y

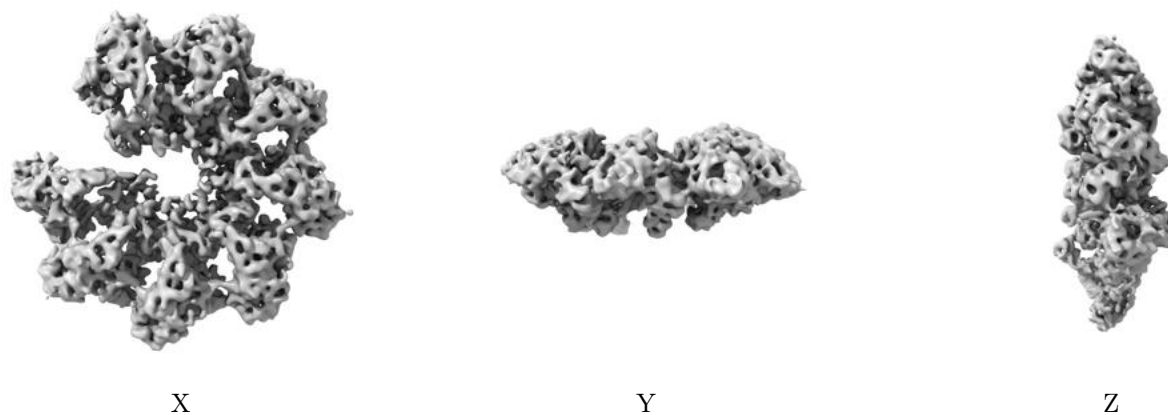


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

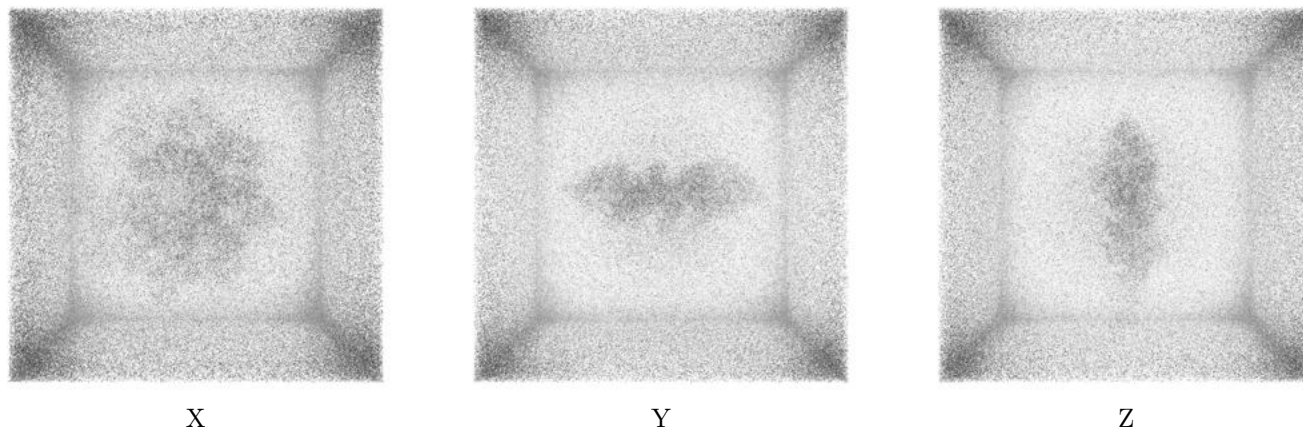
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.18. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

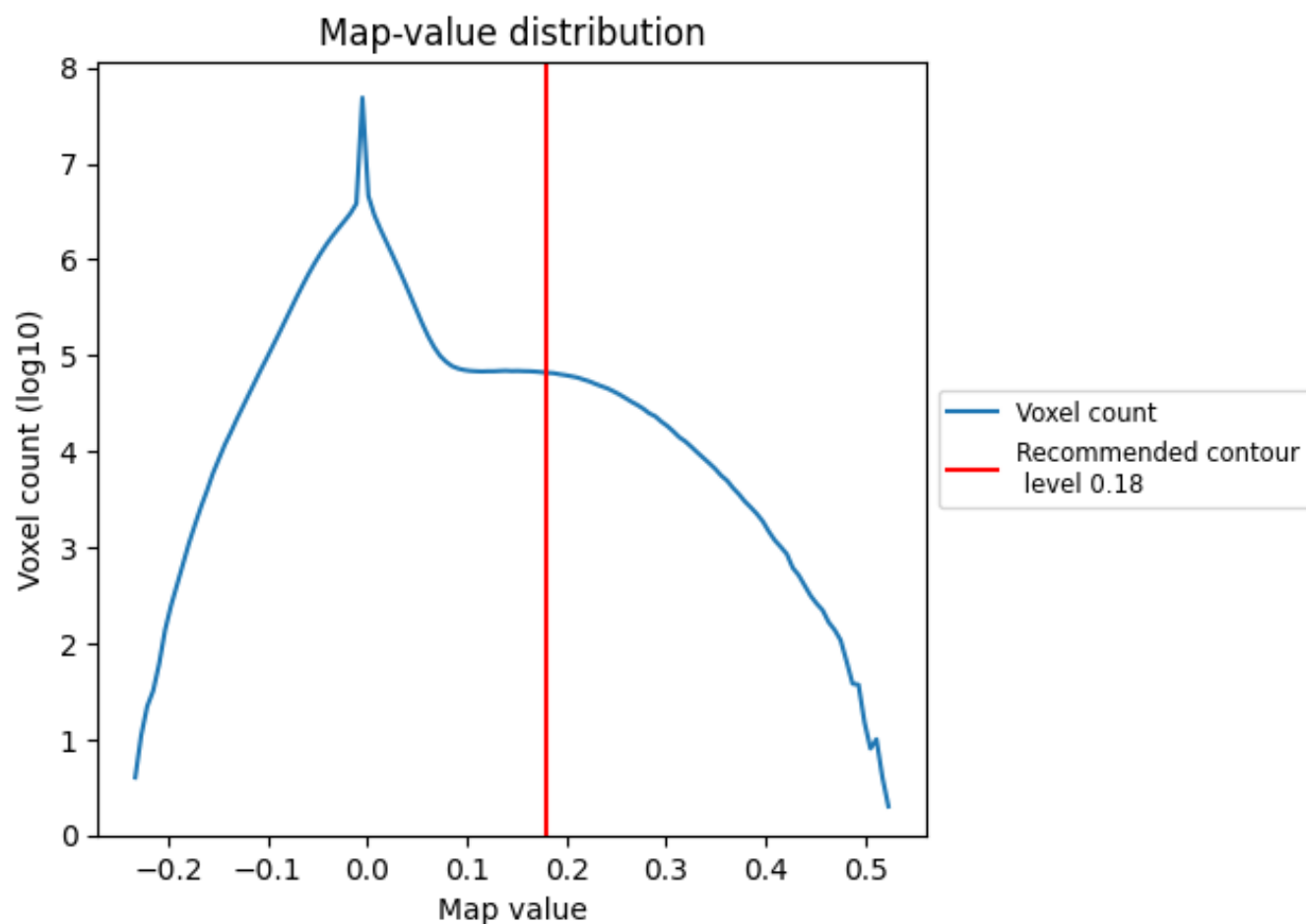
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

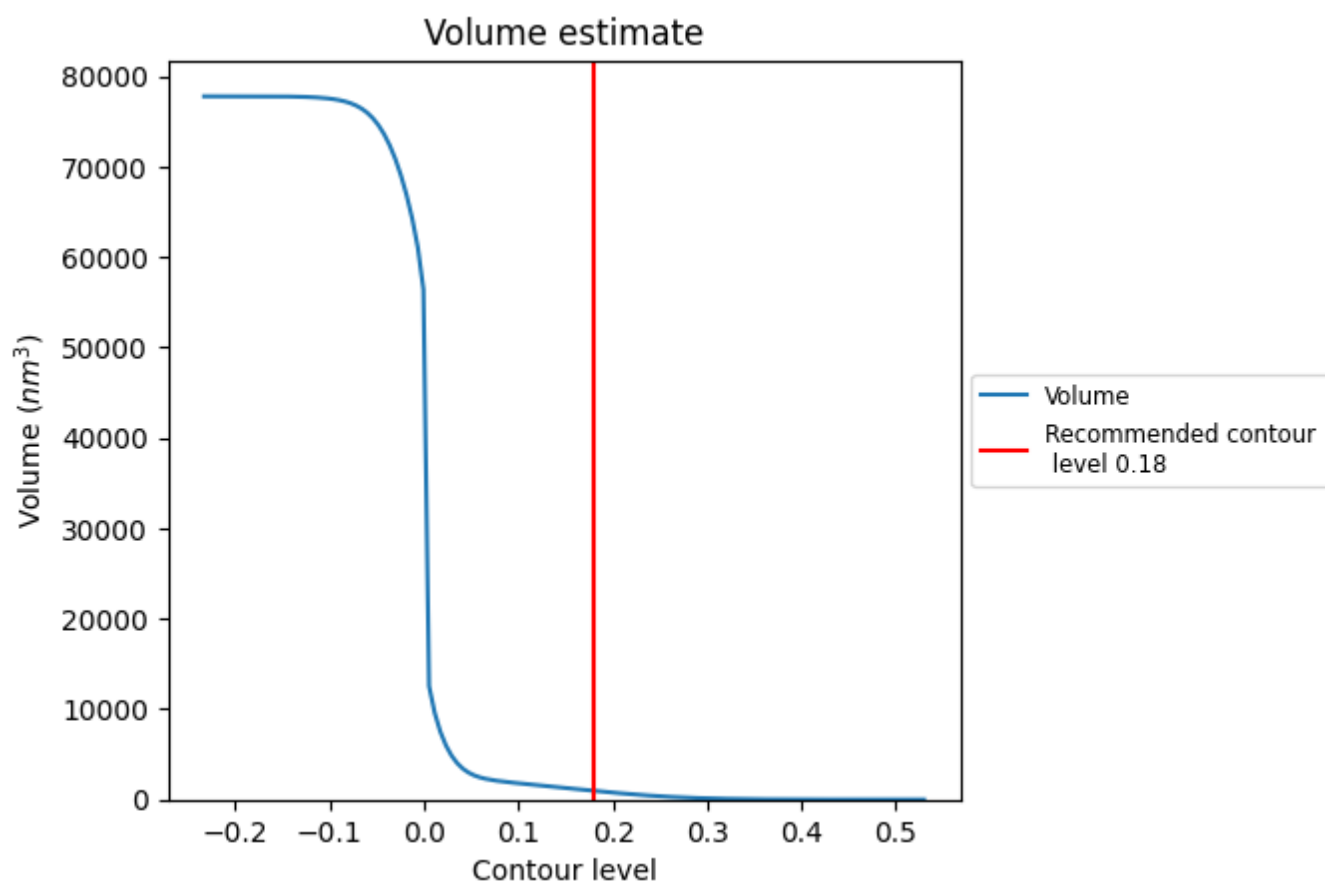
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

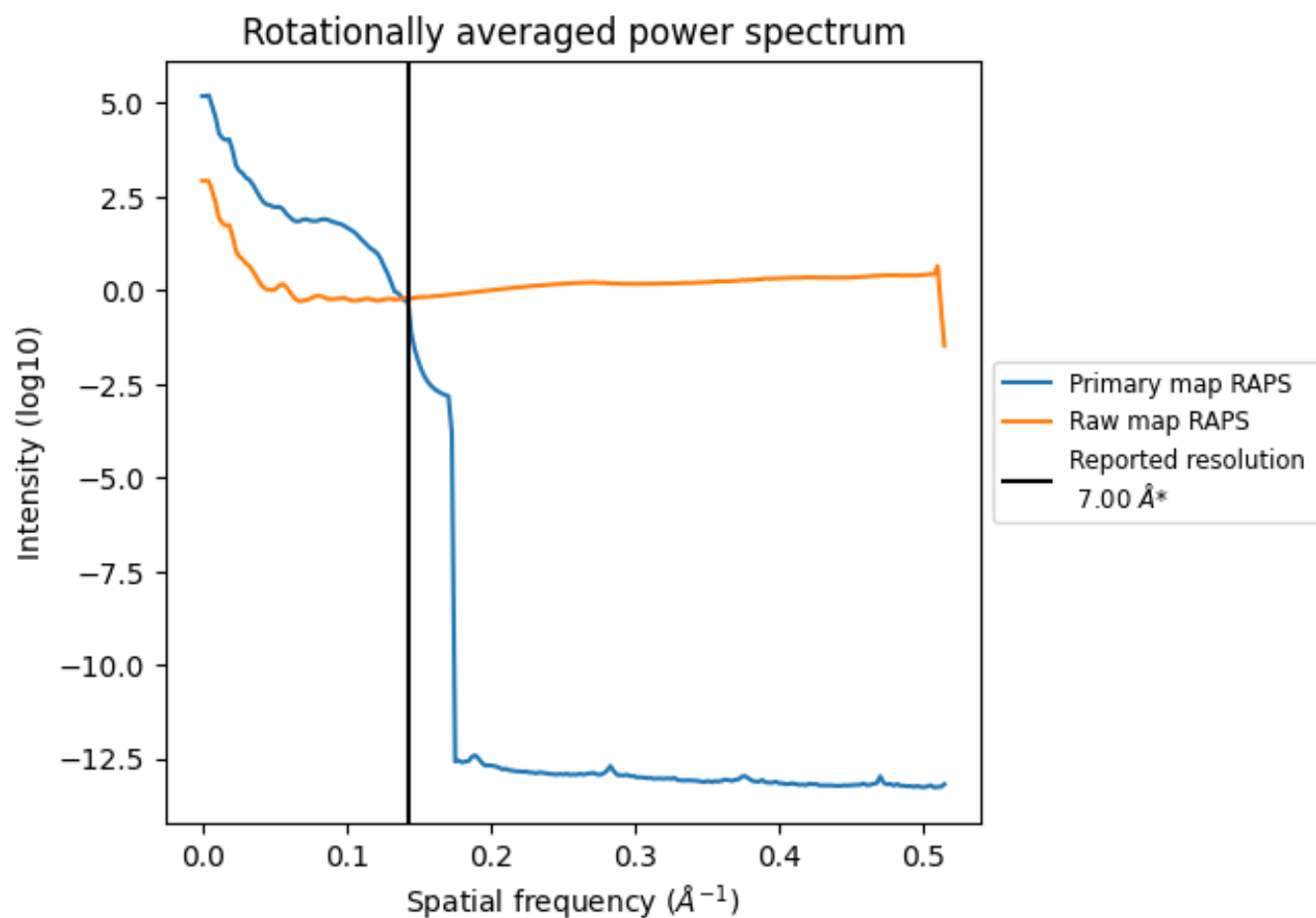
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 968 nm³; this corresponds to an approximate mass of 875 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

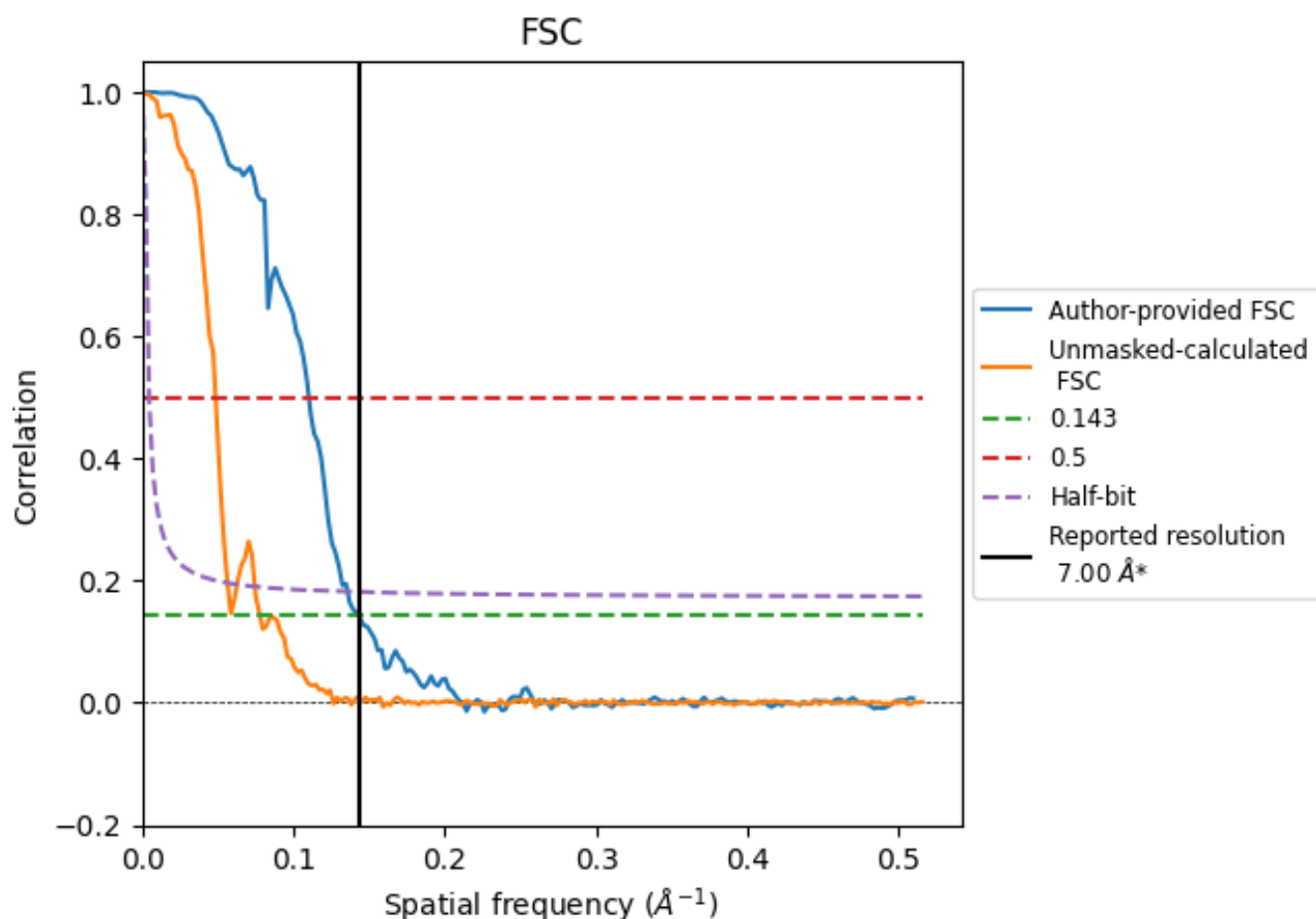


*Reported resolution corresponds to spatial frequency of 0.143 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.143 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

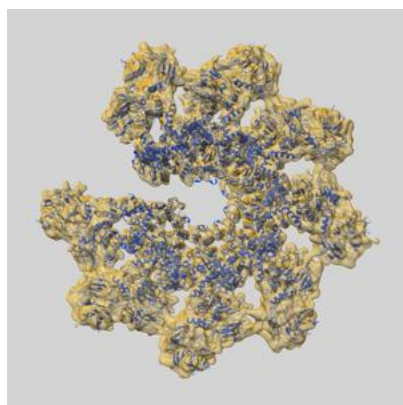
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	7.00	-	-
Author-provided FSC curve	7.01	9.08	7.37
Unmasked-calculated*	12.87	20.62	17.73

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 12.87 differs from the reported value 7.0 by more than 10 %

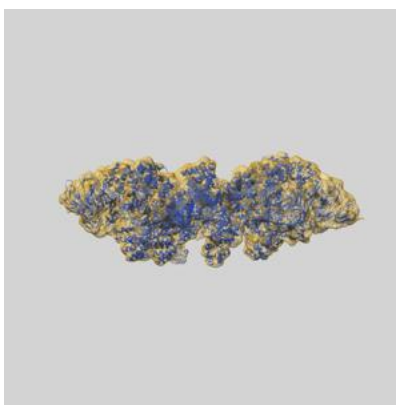
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-38995 and PDB model 8Y6Q. Per-residue inclusion information can be found in [section 3](#) on [page 6](#).

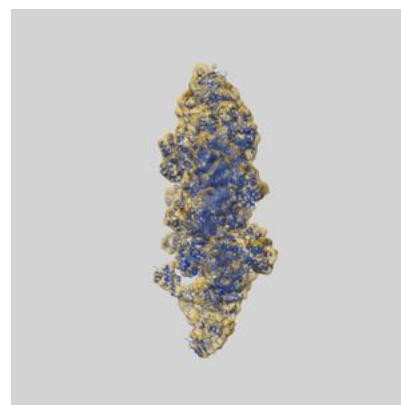
9.1 Map-model overlay [i](#)



X



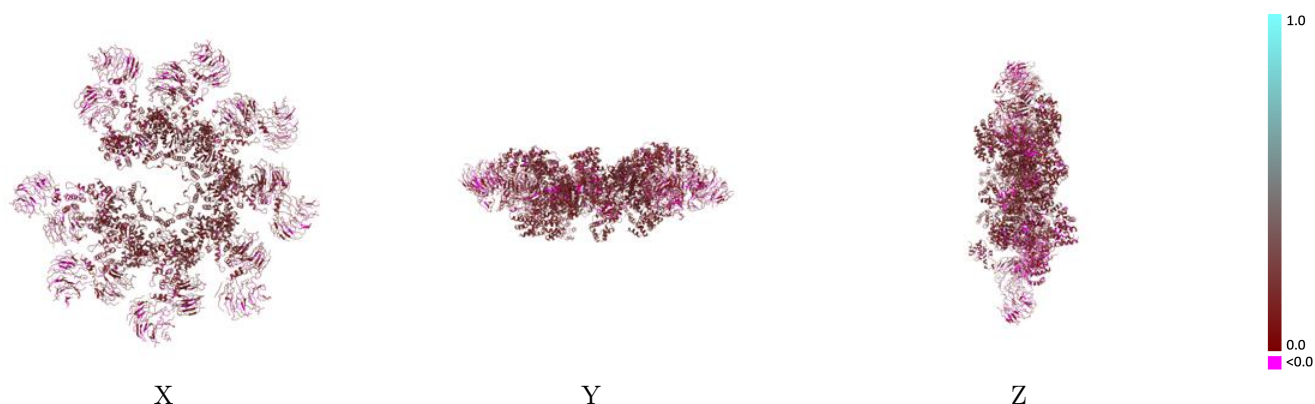
Y



Z

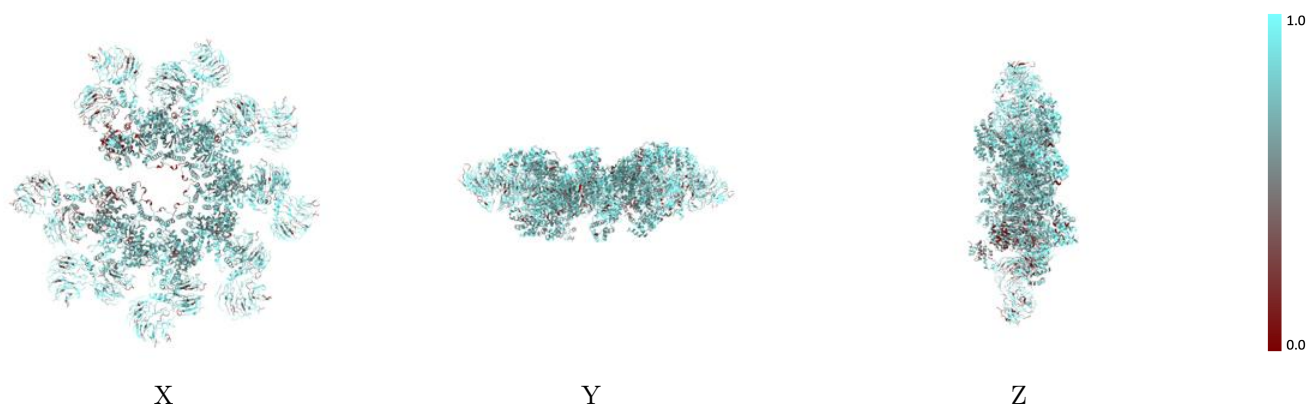
The images above show the 3D surface view of the map at the recommended contour level 0.18 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



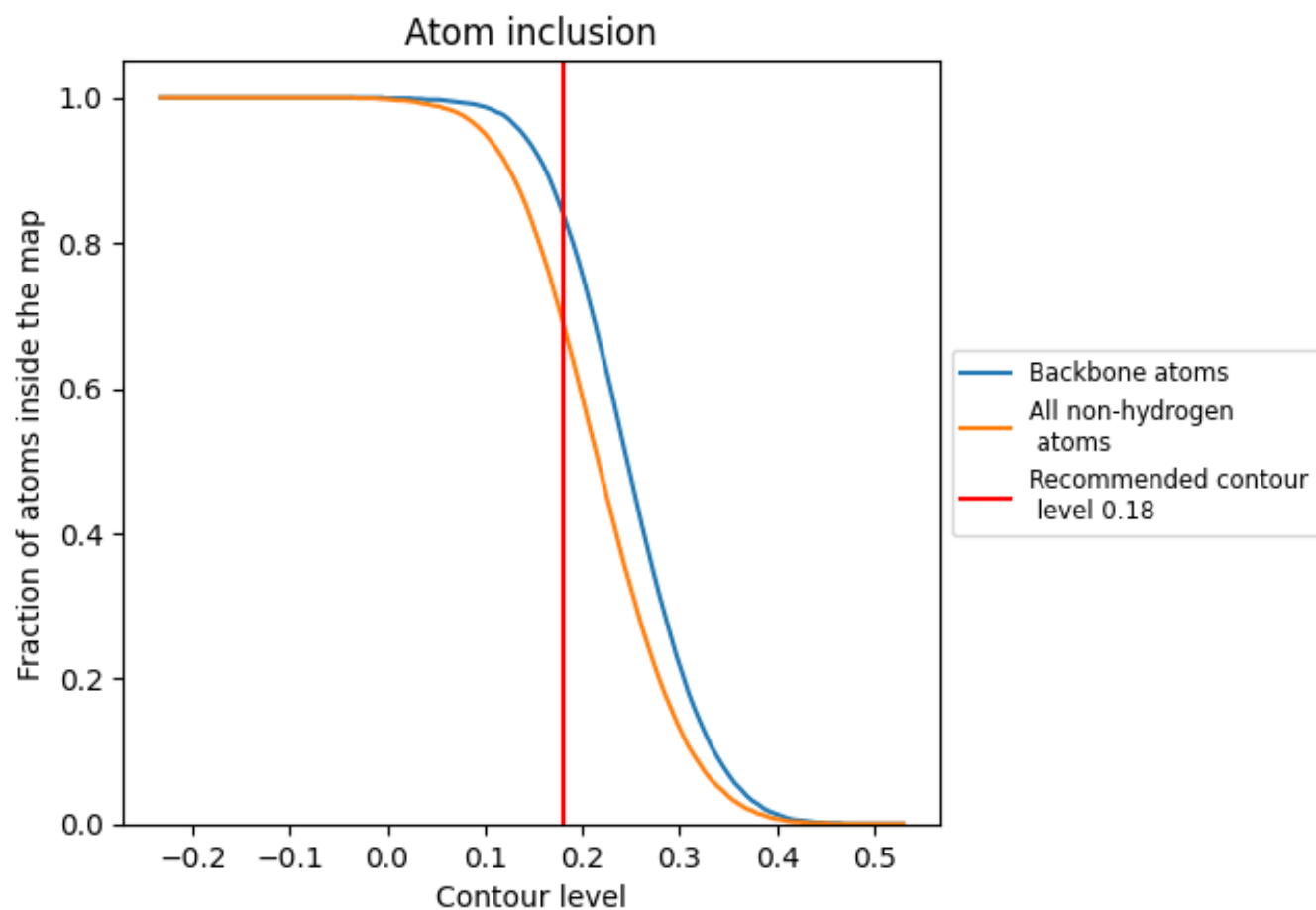
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.18).

9.4 Atom inclusion [i](#)



At the recommended contour level, 84% of all backbone atoms, 69% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.18) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6920	 0.1540
A	 0.6550	 0.1840
B	 0.6940	 0.1990
C	 0.7000	 0.1890
D	 0.7230	 0.1940
E	 0.7310	 0.1850
F	 0.5310	 0.1670
G	 0.3330	 0.1390
H	 0.5980	 0.1310
I	 0.7150	 0.1540
J	 0.7330	 0.1560
K	 0.7450	 0.1660
L	 0.7130	 0.1590
M	 0.7260	 0.1600
N	 0.7590	 0.1960
O	 0.7210	 0.1570
Q	 0.6240	 0.1260

