



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 06:02 PM UTC

PDB ID : 8ZJM / pdb_00008zjm
EMDB ID : EMD-60150
Title : Structure of DOCK5/ELMO1/Rac1 core (RhoG/DOCK5/ELMO1/Rac1 dataset, class 5)
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Mishima-Tsumagari, C.; Yonemochi, M.; Inoue, M.; Nakagawa, R.; Kaushik, R.; Zhang, K.Y.J.; Shirouzu, M.
Deposited on : 2024-05-15
Resolution : 4.52 Å(reported)
Based on initial model : 7DPA

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

We welcome your comments at validation@mail.wwpdb.org

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

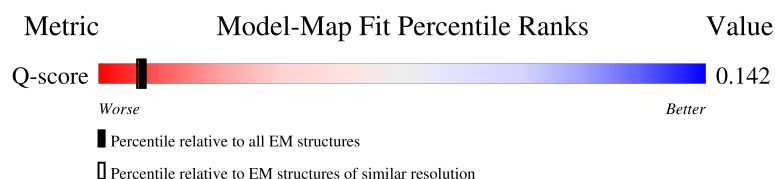
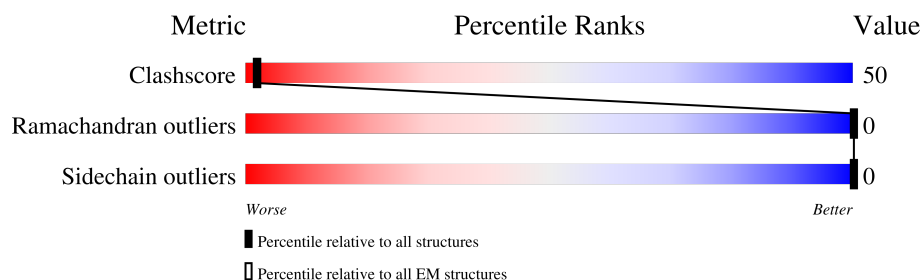
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.52 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	2506 (4.02 - 5.02)

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	A	733	 10% 17% 73%
1	D	733	 10% 17% 73%
2	B	1648	 10% 31% 69%
2	E	1648	 10% 30% 70%

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Mol	Chain	Length	Quality of chain
3	C	184	8% 33% 63% .
3	F	184	6% 34% 62% .

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 32858 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 Engulfment and cell motility protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	198	Total	C	N	O	S	0	0
			1608	1018	277	303	10		
1	D	198	Total	C	N	O	S	0	0
			1608	1018	277	303	10		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q92556
A	-4	GLY	-	expression tag	UNP Q92556
A	-3	SER	-	expression tag	UNP Q92556
A	-2	GLY	-	expression tag	UNP Q92556
A	-1	GLY	-	expression tag	UNP Q92556
A	0	SER	-	expression tag	UNP Q92556
D	-5	GLY	-	expression tag	UNP Q92556
D	-4	GLY	-	expression tag	UNP Q92556
D	-3	SER	-	expression tag	UNP Q92556
D	-2	GLY	-	expression tag	UNP Q92556
D	-1	GLY	-	expression tag	UNP Q92556
D	0	SER	-	expression tag	UNP Q92556

- Molecule 2 is a protein called Deducator of cytokinesis protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		
2	E	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-5	GLY	-	expression tag	UNP Q9H7D0

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-4	GLY	-	expression tag	UNP Q9H7D0
B	-3	SER	-	expression tag	UNP Q9H7D0
B	-2	GLY	-	expression tag	UNP Q9H7D0
B	-1	GLY	-	expression tag	UNP Q9H7D0
B	0	SER	-	expression tag	UNP Q9H7D0
B	1285	ARG	LYS	variant	UNP Q9H7D0
E	-5	GLY	-	expression tag	UNP Q9H7D0
E	-4	GLY	-	expression tag	UNP Q9H7D0
E	-3	SER	-	expression tag	UNP Q9H7D0
E	-2	GLY	-	expression tag	UNP Q9H7D0
E	-1	GLY	-	expression tag	UNP Q9H7D0
E	0	SER	-	expression tag	UNP Q9H7D0
E	1285	ARG	LYS	variant	UNP Q9H7D0

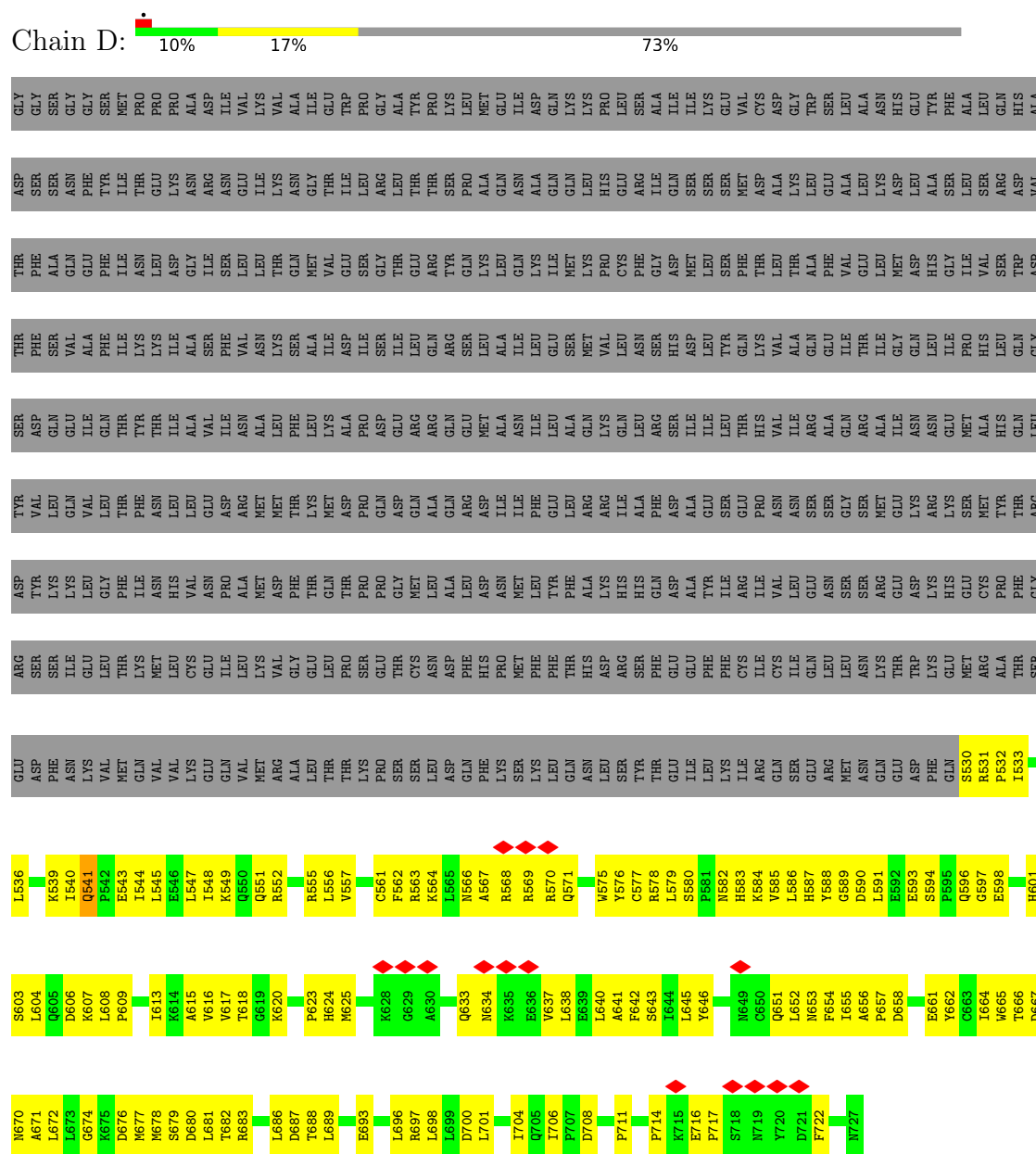
- Molecule 3 is a protein called Ras-related C3 botulinum toxin substrate 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
3	F	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		

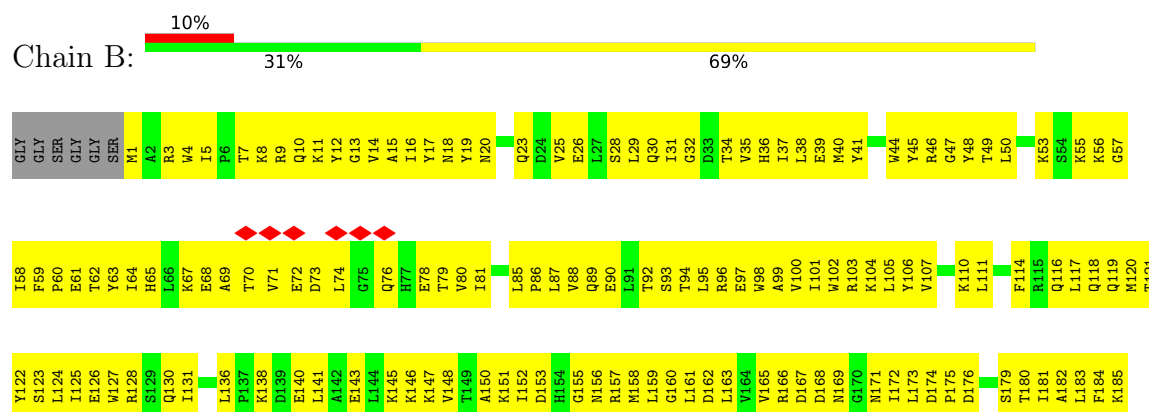
There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	-6	GLY	-	expression tag	UNP P63000
C	-5	SER	-	expression tag	UNP P63000
C	-4	SER	-	expression tag	UNP P63000
C	-3	GLY	-	expression tag	UNP P63000
C	-2	SER	-	expression tag	UNP P63000
C	-1	SER	-	expression tag	UNP P63000
C	0	GLY	-	expression tag	UNP P63000
C	15	ALA	GLY	engineered mutation	UNP P63000
F	-6	GLY	-	expression tag	UNP P63000
F	-5	SER	-	expression tag	UNP P63000
F	-4	SER	-	expression tag	UNP P63000
F	-3	GLY	-	expression tag	UNP P63000
F	-2	SER	-	expression tag	UNP P63000
F	-1	SER	-	expression tag	UNP P63000
F	0	GLY	-	expression tag	UNP P63000
F	15	ALA	GLY	engineered mutation	UNP P63000

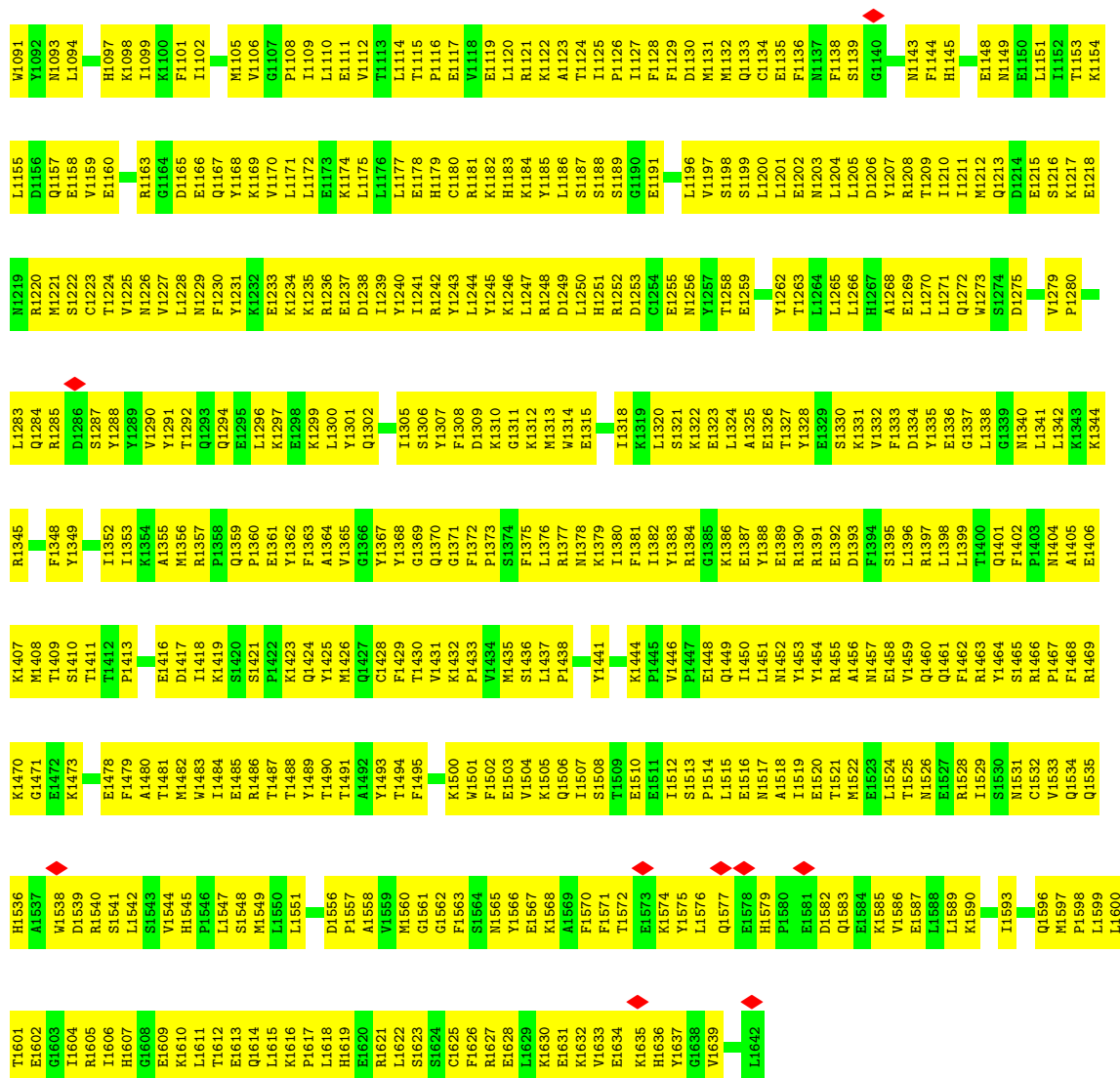
- Molecule 1: Engulfment and cell motility protein 1



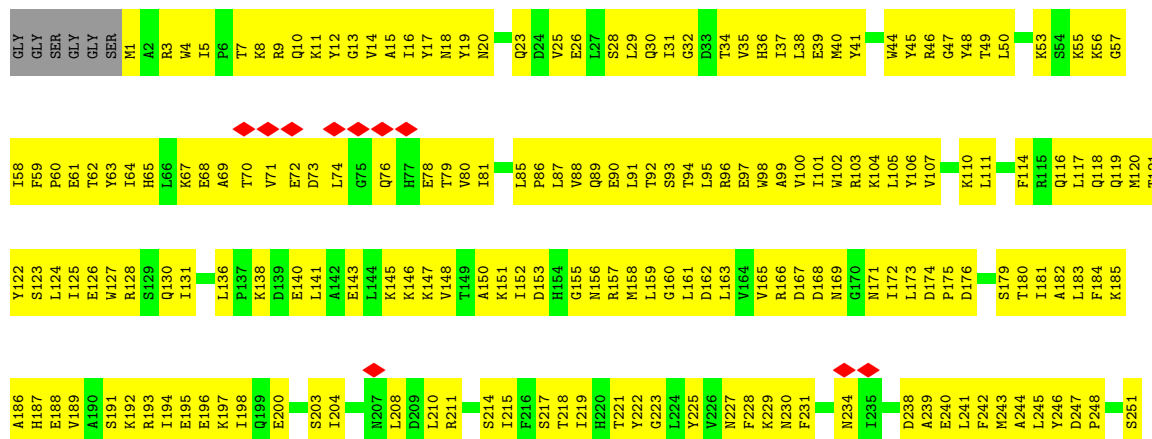
- Molecule 2: Dedicator of cytokinesis protein 5



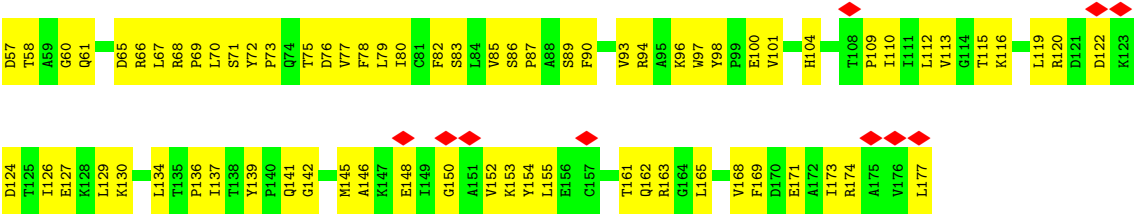
L1028	D965	S902	L836	S770	Q710	L640	M579	V515	E454	I387	R319	N957	A186
T1029	D966	S903	S837	R771	H711	L641	E580	S816	F455	A388	R320	Y258	H187
R1030	S967	Q904	W838	W772	F712	W642	E581	A517	D456	A389	F321	L259	E188
F1031	H968	L905	L839	L773	N713	W643	D581	A518	D457	K390	F322	L260	V189
F1032	Y969	L906	F840	W774	F714	W644	A582	L519	K457	E391	V326	W262	A190
L1033	S907	L907	C841	L775	W715	S845	X583	E520	K458	N392	K327	G263	S191
D1034	N908	L908	K842	R776	L716	W646	F584	E521	K459	N393	D328	G264	K192
Q1035	Y972	L909	F843	F777	E717	W647	W585	W522	K460	H394	L329	S264	A193
L1036	S974	L910	W844	W778	W718	W648	L586	W523	K461	K395	T330	G265	E195
F1037	Q845	E911	Q846	Q779	W719	W649	T587	C525	T462	W400	I332	G266	E196
S1038	Q846	W912	Q847	Q780	W720	W650	L588	C526	T463	W401	I333	G267	K197
E1039	L847	L913	L848	S781	W721	W651	L589	H526	P463	S402	I334	G268	I198
L1040	Q851	D914	Q852	F787	K722	W652	P589	H527	K464	L403	I335	G269	Q199
Q1041	L852	R915	L853	W789	H723	W653	G590	L528	W465	L404	E270	E271	E200
L1042	W853	W918	W854	W790	W724	W654	T591	W530	W466	L405	E272	E273	S203
W1043	R854	L919	R855	W791	F725	W655	K592	F531	W467	L406	E274	E275	I204
L1044	Q855	A920	Q856	L792	W726	W656	W593	R532	W468	Q343	K273	K274	L208
L1045	W856	A921	K857	W793	T727	W657	E594	R533	W469	H344	L275	L276	D209
Y1046	L857	T921	L858	Q794	W728	W658	E595	H534	W470	L210	N276	N277	L211
F1047	W858	A922	W859	Q795	A729	W659	E596	R535	W471	L211	G212	G213	G214
L986	C859	Y923	W860	L796	W730	W660	E597	S536	W472	L212	G214	G215	S214
H1048	W861	H924	W862	L797	W731	W661	E598	Q537	W473	L213	G215	G216	F216
L1049	T861	H925	K862	A797	W732	W662	E599	W538	W474	L214	G216	G217	S217
W988	Q862	Q926	W863	W798	W733	W663	E600	W539	W475	L215	G217	G218	T218
T989	W864	L927	W865	W799	W734	W664	E601	W540	W476	L216	G218	G219	I219
F990	R865	L928	W866	W800	W735	W665	E602	W541	W477	L217	G219	G220	H220
A1052	W866	Y929	W867	L801	W736	W666	E603	W542	W478	L218	G220	G221	W221
F1053	Q867	E930	W868	W802	W737	W667	E604	W543	W479	L219	G221	G222	Y222
H1056	R868	R931	W869	W803	W738	W668	E605	W544	W480	L220	G222	G223	Y223
E1057	W870	L932	W871	W804	W739	W669	E606	W545	W481	L221	G223	G224	T218
S1058	L869	Y933	W872	W805	W740	W670	E607	W546	W482	L222	G224	G225	I219
L1059	W873	R934	W873	W806	W741	W671	E608	W547	W483	L223	G225	G226	H220
Q1060	Q870	A935	W874	L806	A742	W672	E609	W548	W484	L224	G226	G227	W221
G998	W871	R936	W875	W807	W743	W673	E610	W549	W485	L225	G227	G228	Y222
K999	Q872	L937	W876	E807	W744	W674	E611	W550	W486	L226	G228	G229	Y223
Y1002	C874	E938	W877	W808	W745	W675	E612	W551	W487	L227	G229	G230	Y224
A1003	R875	T939	W878	W809	W746	W676	E613	W552	W488	L228	G230	G231	N230
S1065	E876	L940	W879	W810	W747	W677	E614	W553	W489	L229	G231	G232	F231
Q1066	F877	Y941	W880	W811	W748	W678	E615	W554	W490	L230	G232	G233	Y225
A1067	L878	Q942	W881	W812	W749	W679	E616	W555	W491	L231	G233	G234	Y226
K1068	L879	H943	W882	W813	W750	W680	E617	W556	W492	L232	G234	G235	N227
R1069	W880	Y944	W883	W814	W751	W681	E618	W557	W493	L233	G235	G236	K229
W1070	L881	R945	W884	W815	W752	W682	E619	W558	W494	L234	G236	G237	N230
K1071	Q882	Y946	W885	W816	W753	W683	E620	W559	W495	L235	G237	G238	F231
I1072	W883	S947	W886	W817	W754	W684	E621	W560	W496	L236	G238	G239	Y226
Y1076	L884	H947	W887	W818	W755	W685	E622	W561	W497	L237	G239	G240	N234
G1077	Q885	L948	W888	W819	W756	W686	E623	W562	W498	L238	G240	G241	D238
D1078	W886	H949	W889	W820	W757	W687	E624	W563	W499	L239	G241	G242	A239
M1079	L887	Y950	W890	W821	W758	W688	E625	W564	W500	L240	G242	G243	L241
R1080	Q888	L950	W891	W822	W759	W689	E626	W565	W501	L241	G243	G244	F242
K1081	W889	F953	W892	W823	W760	W690	E627	W566	W502	L242	G244	G245	M243
E1082	L890	Y954	W893	W824	W761	W691	E628	W567	W503	L243	G245	G246	A244
I1083	W891	H957	W894	W825	W762	W692	E629	W568	W504	L244	G246	G247	L245
G1084	L892	L958	W895	W826	W763	W693	E630	W569	W505	L245	G247	G248	Y246
F1085	Q893	Y959	W896	W827	W764	W694	E631	W570	W506	L246	G248	G249	P248
L1086	W897	L960	W897	W828	W765	W695	E632	W571	W507	L247	G249	G250	Y247
F1024	F897	L961	W898	W829	W766	W696	E633	W572	W508	L248	G250	G251	G252
I1087	Q898	Y962	W899	W830	W767	W697	E634	W573	W509	L249	G251	G252	I254
A1026	L898	Q963	W900	W831	W768	W698	E635	W574	W510	L250	G252	G253	S255
D1089	W899	Y964	W901	W832	W769	W699	E636	W575	W511	L251	G253	G254	E256
M1090	V1027	L964	W902	W833	W770	W700	E637	W576	W512	L252	G254	G255	Y257
L1028	D965	S902	L836	S770	Q710	L640	M579	V515	E454	I387	R319	N957	A186
T1029	D966	S903	S837	R771	H711	L641	E580	S816	F455	A388	R320	Y258	H187
R1030	S967	Q904	W838	W772	F712	W642	E581	A517	D456	A389	F321	L259	E188
F1031	H968	L905	L839	L773	N713	W643	D581	A518	D457	K390	F322	L260	V189
F1032	Y969	L906	F840	W774	F714	W644	A582	L519	K457	E391	V326	W262	A190
L1033	S907	L907	C841	L775	W715	S845	X583	E520	K458	N392	K327	G263	S191
D1034	N908	L908	K842	R776	L716	W646	F584	E521	K459	N393	D328	G264	K192
Q1035	Y972	L909	F843	F777	E717	W647	W585	W522	K460	H394	L329	S264	A193
L1036	S974	L910	W844	W778	W718	W648	L586	W523	K461	K395	T330	G265	E195
F1037	Q845	E911	Q846	Q779	W719	W649	T587	C525	T462	W400	I332	G266	E196
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E1039	L847	L913	L848	S781	W721	W651	L589	H526	P463	S402	I334	G268	I198
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Q1041	L852	R915	L853	W789	H723	W653	G590	L528	W465	L404	E270	E271	E200
L1042	W853	W918	W854	W790	W724	W654	T591	W530	W466	L405	E272	E273	S203
W1043	R854	L919	R855	W791	F725	W655	K592	F531	W467	L406	E274	E275	I204
L1044	Q855	A920	Q856	L792	W726	W656	W593	R532	W468	Q343	K273	K274	L208
L1045	W856	A921	K857	W793	T727	W657	E594	R533	W469	H344	L275	L276	D209
Y1046	L857	T921	L858	Q794	W728	W658	E595	H534	W470	L210	N276	N277	L211
F1047	W858	A922	W859	Q795	A729	W659	E596	R535	W471	L211	G212	G213	G214
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L1049	T861	H925	K862	W798	W732	W662	E599	W538	W474	L214	G216	G217	S217
W988	Q862	Q926	W863	W799	W733	W663	E600	W539	W475	L215	G217	G218	T218
T989	W864	L927	W865	W799	W734	W664	E601	W540	W476	L216	G218	G219	I219
F990	R865	L928	W866	W800	W735	W665	E602	W541	W477	L217	G219	G220	H220
A1052	W866	Y929	W867	L801	W736	W666	E603	W542	W478	L218	G220	G221	W221
F1053	Q867	E930	W868	W802	W737	W667	E604	W543	W479	L219	G221	G222	Y222
H1056	R868	R931	W869	W803	W738	W668	E605	W544	W480	L220	G222	G223	Y223
E1057	W870	L932	W871	W804	W739	W669	E606	W545	W481	L221	G223	G224	T218
S1058	L869	Y933	W872	W805	W740	W670	E607	W546	W482	L222	G224	G225	I219
L1059	W873	R934	W873	W806	W741	W671	E608	W547	W483	L223	G225	G226	H220
Q1060	Q870	A935	W874	L806	A742	W672	E609	W548	W484	L224	G226	G227	W221
G998	W871	R936	W875	W807	W743	W673	E610	W549	W485	L225	G227	G228	Y222
K999	Q872	L937	W876	E807	W744	W674	E611	W550	W486	L226	G228	G229	Y223
Y1002	C874	E938	W877	W808	W745	W675	E612	W551	W487	L227	G229	G230	Y224
A1003	R875	T939	W878	W809	W746	W676	E613	W552	W488	L228	G230	G231	N230
S1065	E876	L940	W879	W810	W747	W677	E614	W553	W489	L229	G231	G232	F231
Q1066	F877	Y941	W880	W811	W748	W678	E615	W554	W490	L230	G23		



• Molecule 2: Dedicator of cytokinesis protein 5



I1087	R1088	D1089	M1090	Y1091	Y1092	N1093	L1094	G1095	H1096	H1097	K1098	K1099	K1100	F1101	I1102	M1105	V1106	G1107	P1108	I1109	L1110	E1111	V1112	T1113	L1114	E1115	P1116	E1117	V1118	E1119	L1120	R1121	K1122	A1123	T1124	I1125	P1126	I1127	F1128	F1129	D1130	M1131	M1132	Q1133	C1134	E1135	F1136	M1137	F1138	S1139	G1140	M1143	F1144	H1145	E1148	N1149																																	
Q1023	F1024	A1025	E1026	L1027	Y1028	T1029	A1030	F1031	Y0969	M1032	F1033	D1034	Q1035	A1036	E1039	L1040	Q1041	L1042	V1043	I982	I983	D984	F985	L986	L987	I988	F989	I990	I991	M992	F993	K994	D995	L996	I997	G998	K999	Y1002	A1003	K1004	D1005	M1006	M1007	V1008	M1009	D1010	M1011	T1012	Q1013	N1014	R1015	V1016	F1017	L1018	R1019	F1085	R1086																																
V830	F831	D832	E835	L836	S837	V838	L905	F840	C841	K842	F843	L844	Q845	S846	L847	D851	L852	V853	R854	A920	T921	A922	V923	H924	I925	Q926	L927	K862	T863	V864	E865	S866	K867	L868	F869	R870	Q871	C874	R875	E876	V877	L878	P880	L881	L882	T883	D884	Q885	L886	Q889	L890	N893	S894	A959																																			
K896	F897	D898	H899	S902	S903	Q904	L905	F906	S907	N908	F909	L910	E911	V912	L913	D914	R915	V918	G919	A920	T921	A922	V923	H924	I925	Q926	L927	K862	T863	V864	E865	S866	K867	L868	F869	R870	Q871	C874	R875	E876	V877	L878	P880	L881	L882	T883	D884	Q885	L886	Q889	L890	N893	S894	A959																																			
L960	L961	Q962	M1090	M964	D965	D966	S967	H968	Y969	M1032	F1033	D1034	Q1035	A1036	S974	T975	F976	K977	T978	R979	I982	I983	D984	F985	L986	L987	I988	F989	I990	I991	M992	F993	K994	D995	L996	I997	G998	K999	Y1002	A1003	K1004	D1005	M1006	M1007	V1008	M1009	D1010	M1011	T1012	Q1013	N1014	R1015	V1016	F1017	L1018	R1019	F1085	R1086																															
Q1023	F1024	A1025	E1026	L1027	Y1028	T1029	A1030	F1031	Y0969	M1032	F1033	D1034	Q1035	A1036	E1039	L1040	Q1041	L1042	V1043	I982	I983	D984	F985	L986	L987	I988	F989	I990	I991	M992	F993	K994	D995	L996	I997	G998	K999	Y1002	A1003	K1004	D1005	M1006	M1007	V1008	M1009	D1010	M1011	T1012	Q1013	N1014	R1015	V1016	F1017	L1018	R1019	F1085	R1086																																
I1087	R1088	D1089	M1090	Y1091	Y1092	N1093	L1094	G1095	H1096	H1097	K1098	K1099	K1100	F1101	I1102	M1105	V1106	G1107	P1108	I1109	L1110	E1111	V1112	T1113	L1114	E1115	P1116	E1117	V1118	E1119	L1120	R1121	K1122	A1123	T1124	I1125	P1126	I1127	F1128	F1129	D1130	M1131	M1132	Q1133	C1134	E1135	F1136	M1137	F1138	S1139	G1140	M1143	F1144	H1145	E1148	N1149																																	
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	E377
I284	S285	E286	N287	Y288	L289	L290	R291	W292	G293	S294	N295	G296	M297	I298	P299	K302	G304	H305	M306	E307	L308	K309	E310	G311	K312	K313	H314	T315	C316	R319	R320	P321	F322	V326	M327	D328	I329	T330	D331	I332	P333	K336	V337	D338	D339	E340	E341	K342	Q343	H344	F345	I346	A347	F348	Q349	Q350	I351	A352	M353	E354	T355	Y356	L420	V421	I357	R358	Q359	R360	Q361	L362	A426	I427	A428	R429	K430	M431	G432	F433	P434	E435	T369	S370	H371	V372	I373	G374	E375	N376	



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	156585	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)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.052	Depositor
Minimum map value	-0.015	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	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	A	0.25	0/1641	0.50	0/2218
1	D	0.25	0/1641	0.50	0/2218
2	B	0.30	0/13722	0.53	0/18514
2	E	0.30	0/13722	0.53	0/18514
3	C	0.22	0/1415	0.51	1/1924 (0.1%)
3	F	0.22	0/1415	0.51	1/1924 (0.1%)
All	All	0.29	0/33556	0.53	2/45312 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	D	0	1
2	B	0	1
2	E	0	1
All	All	0	4

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	46	VAL	N-CA-C	-6.60	106.58	112.12
3	F	46	VAL	N-CA-C	-6.54	106.62	112.12

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	541	GLN	Peptide

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Mol	Chain	Res	Type	Group
2	B	1041	GLN	Peptide
1	D	541	GLN	Peptide
2	E	1041	GLN	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1608	0	1617	142	0
1	D	1608	0	1617	156	0
2	B	13436	0	13516	1413	0
2	E	13436	0	13516	1434	0
3	C	1385	0	1407	136	0
3	F	1385	0	1407	132	0
All	All	32858	0	33080	3322	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 (3322) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:929:MET:HA	2:E:933:LEU:HD13	1.43	1.01
1:A:701:LEU:HD23	2:B:31:ILE:HG23	1.43	1.00
2:B:929:MET:HA	2:B:933:LEU:HD13	1.43	0.99
2:E:1545:HIS:HB2	3:F:5:LYS:HE2	1.49	0.95
2:B:929:MET:HB2	2:B:964:MET:HE1	1.50	0.94
2:E:657:LEU:HD23	2:E:696:ALA:HB1	1.51	0.93
1:A:711:PRO:HG2	2:B:16:ILE:HG21	1.50	0.92
2:B:657:LEU:HD23	2:B:696:ALA:HB1	1.51	0.92
2:E:929:MET:HB2	2:E:964:MET:HE1	1.50	0.91
2:E:1587:GLU:HA	2:E:1590:LYS:HD2	1.53	0.91
2:E:102:TRP:HB2	2:E:114:PHE:HE1	1.36	0.91
2:B:5:ILE:H	2:B:40:MET:H	1.19	0.90
2:E:1484:ILE:HB	2:E:1512:ILE:HD12	1.53	0.90
2:B:657:LEU:HD21	2:B:700:ILE:HD11	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1587:GLU:HA	2:B:1590:LYS:HD2	1.53	0.89
2:B:102:TRP:HB2	2:B:114:PHE:HE1	1.36	0.89
2:E:5:ILE:H	2:E:40:MET:H	1.19	0.88
2:B:1526:ASN:HA	2:B:1529:ILE:HD12	1.56	0.88
2:E:929:MET:HE1	2:E:972:TYR:HB3	1.56	0.88
2:B:1484:ILE:HB	2:B:1512:ILE:HD12	1.53	0.88
2:E:10:GLN:HG3	2:E:37:ILE:HB	1.56	0.87
2:E:1526:ASN:HA	2:E:1529:ILE:HD12	1.56	0.87
2:B:239:ALA:HB3	2:B:262:TRP:HB3	1.57	0.87
2:E:657:LEU:HD21	2:E:700:ILE:HD11	1.54	0.87
2:B:929:MET:HE1	2:B:972:TYR:HB3	1.56	0.87
2:B:10:GLN:HG3	2:B:37:ILE:HB	1.56	0.85
3:C:87:PRO:HG2	3:C:134:LEU:HB3	1.58	0.85
1:D:580:SER:HA	1:D:587:HIS:HE1	1.41	0.85
2:E:239:ALA:HB3	2:E:262:TRP:HB3	1.57	0.85
2:B:764:PHE:HD2	2:B:767:ILE:HD12	1.41	0.85
2:E:738:ASN:HA	2:E:794:LEU:HD13	1.58	0.85
1:A:580:SER:HA	1:A:587:HIS:HE1	1.42	0.85
2:B:376:ASN:ND2	2:B:502:TYR:O	2.10	0.84
2:B:738:ASN:HA	2:B:794:LEU:HD13	1.59	0.84
3:C:171:GLU:HA	3:C:174:ARG:HG2	1.59	0.83
2:E:677:PHE:HB3	2:E:726:ALA:HB2	1.60	0.83
2:E:764:PHE:HD2	2:E:767:ILE:HD12	1.41	0.83
2:E:166:ARG:NH1	2:E:167:ASP:OD1	2.11	0.83
2:E:376:ASN:ND2	2:E:502:TYR:O	2.11	0.83
3:C:65:ASP:HA	3:C:68:ARG:HG2	1.61	0.83
2:B:166:ARG:NH1	2:B:167:ASP:OD1	2.11	0.83
2:B:1567:GLU:HA	2:B:1571:PHE:HB2	1.61	0.83
3:F:87:PRO:HG2	3:F:134:LEU:HB3	1.58	0.83
2:B:242:PHE:HB2	2:B:299:GLN:HB2	1.61	0.83
2:E:4:TRP:HB3	2:E:39:GLU:HB3	1.61	0.82
2:E:1418:ILE:HG13	2:E:1425:TYR:CD2	2.15	0.82
2:B:1418:ILE:HG13	2:B:1425:TYR:CD2	2.15	0.82
3:C:1:MET:SD	3:C:49:LYS:NZ	2.51	0.82
2:B:677:PHE:HB3	2:B:726:ALA:HB2	1.60	0.82
2:E:242:PHE:HB2	2:E:299:GLN:HB2	1.61	0.82
3:F:65:ASP:HA	3:F:68:ARG:HG2	1.61	0.82
3:F:1:MET:SD	3:F:49:LYS:NZ	2.51	0.82
2:E:1522:MET:HE1	2:E:1589:LEU:HB3	1.62	0.82
2:B:1557:PRO:HB2	2:B:1561:GLY:HA2	1.62	0.82
3:C:7:VAL:HA	3:C:56:TRP:HB2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:730:TYR:HA	2:E:767:ILE:HG23	1.61	0.82
2:E:1006:TRP:O	2:E:1010:ASN:N	2.12	0.81
3:F:96:LYS:HD2	3:F:100:GLU:HG3	1.62	0.81
2:B:4:TRP:HB3	2:B:39:GLU:HB3	1.61	0.81
2:E:1557:PRO:HB2	2:E:1561:GLY:HA2	1.62	0.81
2:B:1432:LYS:N	2:B:1463:ARG:O	2.12	0.81
1:D:551:GLN:OE1	1:D:552:ARG:NH2	2.14	0.81
3:C:96:LYS:HD2	3:C:100:GLU:HG3	1.62	0.81
3:F:171:GLU:HA	3:F:174:ARG:HG2	1.59	0.81
2:B:1251:HIS:HB3	2:B:1256:ASN:HB2	1.62	0.81
2:B:1006:TRP:O	2:B:1010:ASN:N	2.12	0.81
2:E:1314:TRP:HB3	2:E:1348:PHE:HB3	1.61	0.81
3:F:7:VAL:HA	3:F:56:TRP:HB2	1.61	0.81
2:B:730:TYR:HA	2:B:767:ILE:HG23	1.61	0.81
2:E:1567:GLU:HA	2:E:1571:PHE:HB2	1.61	0.80
1:A:551:GLN:OE1	1:A:552:ARG:NH2	2.14	0.80
2:B:165:VAL:HG23	2:B:175:PRO:HD3	1.62	0.80
2:B:1314:TRP:HB3	2:B:1348:PHE:HB3	1.61	0.80
2:B:241:LEU:HB2	2:B:260:ILE:HB	1.63	0.80
2:E:347:PRO:HB2	2:E:392:VAL:HB	1.64	0.80
2:E:1561:GLY:O	2:E:1565:ASN:N	2.15	0.80
2:B:1522:MET:HE1	2:B:1589:LEU:HB3	1.61	0.80
2:E:1251:HIS:HB3	2:E:1256:ASN:HB2	1.62	0.80
2:B:1382:ILE:N	2:B:1502:PHE:O	2.15	0.79
2:E:1488:THR:HB	2:E:1508:SER:HB2	1.64	0.79
2:B:658:MET:HE1	2:B:696:ALA:HA	1.64	0.79
2:E:1169:LYS:HA	2:E:1172:LEU:HD12	1.65	0.79
1:A:724:TYR:HB3	2:B:4:TRP:HB2	1.63	0.79
2:E:165:VAL:HG23	2:E:175:PRO:HD3	1.62	0.79
2:E:241:LEU:HB2	2:E:260:ILE:HB	1.63	0.79
2:E:1382:ILE:N	2:E:1502:PHE:O	2.15	0.79
2:E:467:GLU:HB2	2:E:500:VAL:HG22	1.65	0.79
2:E:740:TYR:HA	2:E:749:LYS:HD3	1.65	0.79
2:E:1357:ARG:HH22	2:E:1456:ALA:H	1.31	0.79
2:E:1283:LEU:O	2:E:1285:ARG:NH1	2.16	0.79
3:C:77:VAL:HG12	3:C:109:PRO:HG2	1.65	0.79
2:B:1128:PHE:HA	2:B:1131:MET:SD	2.23	0.79
2:E:1128:PHE:HA	2:E:1131:MET:SD	2.23	0.79
2:B:347:PRO:HB2	2:B:392:VAL:HB	1.64	0.79
2:E:18:ASN:HB3	2:E:28:SER:HB2	1.63	0.78
2:E:658:MET:HE1	2:E:696:ALA:HA	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1378:ASN:ND2	2:E:1419:LYS:O	2.16	0.78
2:E:889:GLN:OE1	2:E:895:ASN:ND2	2.17	0.78
2:B:1169:LYS:HA	2:B:1172:LEU:HD12	1.65	0.78
2:B:889:GLN:OE1	2:B:895:ASN:ND2	2.17	0.78
2:B:929:MET:HG2	2:B:933:LEU:HD22	1.66	0.78
2:B:1291:TYR:HB3	2:B:1296:LEU:HD21	1.65	0.78
1:A:637:VAL:HG12	1:A:640:LEU:HD12	1.65	0.78
2:B:18:ASN:HB3	2:B:28:SER:HB2	1.63	0.78
1:D:637:VAL:HG12	1:D:640:LEU:HD12	1.65	0.77
2:B:740:TYR:HA	2:B:749:LYS:HD3	1.65	0.77
2:E:46:ARG:HB3	2:E:58:ILE:HG13	1.67	0.77
3:F:77:VAL:HG12	3:F:109:PRO:HG2	1.65	0.77
2:B:1283:LEU:O	2:B:1285:ARG:NH1	2.16	0.77
1:D:640:LEU:HB3	1:D:656:ALA:H	1.49	0.77
2:B:467:GLU:HB2	2:B:500:VAL:HG22	1.65	0.77
2:E:929:MET:HG2	2:E:933:LEU:HD22	1.66	0.77
2:B:1378:ASN:ND2	2:B:1419:LYS:O	2.16	0.77
2:E:1291:TYR:HB3	2:E:1296:LEU:HD21	1.65	0.77
2:B:1444:LYS:NZ	2:E:1330:SER:O	2.13	0.77
1:D:698:LEU:HA	2:E:31:ILE:HG21	1.66	0.77
2:E:764:PHE:CD2	2:E:767:ILE:HD12	2.20	0.77
2:E:1407:LYS:HG3	2:E:1426:MET:HB2	1.67	0.77
2:E:1056:HIS:ND1	2:E:1057:GLU:OE2	2.17	0.77
2:B:764:PHE:CD2	2:B:767:ILE:HD12	2.20	0.77
2:B:1056:HIS:ND1	2:B:1057:GLU:OE2	2.17	0.77
2:B:1488:THR:HB	2:B:1508:SER:HB2	1.64	0.77
2:E:1524:LEU:HD12	2:E:1528:ARG:HH21	1.49	0.77
1:D:701:LEU:HD11	2:E:16:ILE:HA	1.66	0.77
2:E:964:MET:HE3	2:E:968:HIS:HB3	1.66	0.77
3:F:2:GLN:HG2	3:F:51:VAL:HG23	1.67	0.77
2:B:1357:ARG:HE	2:B:1453:TYR:HA	1.50	0.76
2:E:37:ILE:HA	2:E:47:GLY:HA3	1.68	0.76
1:A:670:ASN:ND2	1:A:676:ASP:O	2.19	0.76
1:A:640:LEU:HB3	1:A:656:ALA:H	1.50	0.76
2:B:816:ALA:O	2:B:820:LEU:HB2	1.86	0.76
2:B:1028:LEU:HD21	2:B:1042:LEU:HD23	1.68	0.76
2:E:1155:LEU:HD11	2:E:1201:LEU:HD21	1.68	0.76
2:B:904:GLN:O	2:B:908:ASN:ND2	2.19	0.76
2:E:921:THR:O	2:E:925:ILE:N	2.19	0.76
2:B:37:ILE:HA	2:B:47:GLY:HA3	1.68	0.76
2:B:61:GLU:HA	2:B:64:ILE:HB	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1524:LEU:HD12	2:B:1528:ARG:HH21	1.49	0.76
2:E:1357:ARG:HE	2:E:1453:TYR:HA	1.50	0.76
2:E:1252:ARG:NH1	2:E:1253:ASP:OD1	2.19	0.76
2:B:676:LEU:HA	2:B:679:ILE:HD12	1.68	0.76
2:B:1407:LYS:HG3	2:B:1426:MET:HB2	1.67	0.76
2:B:921:THR:O	2:B:925:ILE:N	2.19	0.76
2:B:1357:ARG:HH22	2:B:1456:ALA:H	1.31	0.76
2:B:1490:THR:O	2:B:1505:LYS:N	2.19	0.76
2:B:1561:GLY:O	2:B:1565:ASN:N	2.15	0.76
2:E:13:GLY:HA3	2:E:35:VAL:HG22	1.67	0.76
2:E:1490:THR:O	2:E:1505:LYS:N	2.19	0.76
2:B:1436:SER:HB3	2:B:1454:TYR:HB3	1.68	0.75
2:E:816:ALA:O	2:E:820:LEU:HB2	1.86	0.75
2:B:964:MET:HE3	2:B:968:HIS:HB3	1.66	0.75
2:B:1155:LEU:HD11	2:B:1201:LEU:HD21	1.68	0.75
2:E:25:VAL:HG23	2:E:57:GLY:HA2	1.69	0.75
2:E:592:LYS:HZ3	2:E:619:SER:HB2	1.50	0.75
2:B:46:ARG:HB3	2:B:58:ILE:HG13	1.67	0.75
2:E:1028:LEU:HD21	2:E:1042:LEU:HD23	1.68	0.75
2:E:904:GLN:O	2:E:908:ASN:ND2	2.19	0.75
2:B:13:GLY:HA3	2:B:35:VAL:HG22	1.67	0.75
2:B:1252:ARG:NH1	2:B:1253:ASP:OD1	2.19	0.75
2:B:1379:LYS:HZ1	2:B:1503:GLU:HB2	1.52	0.75
3:C:2:GLN:HG2	3:C:51:VAL:HG23	1.67	0.75
2:E:163:LEU:HD21	2:E:194:ILE:HD11	1.69	0.75
2:E:1432:LYS:N	2:E:1463:ARG:O	2.12	0.75
2:B:519:ILE:HG21	2:B:630:LYS:HB3	1.68	0.74
2:E:61:GLU:HA	2:E:64:ILE:HB	1.68	0.74
2:E:519:ILE:HG21	2:E:630:LYS:HB3	1.68	0.74
1:D:530:SER:HA	1:D:533:ILE:HD12	1.69	0.74
2:B:809:ALA:HB1	2:B:812:ILE:HB	1.70	0.74
2:E:676:LEU:HA	2:E:679:ILE:HD12	1.68	0.74
2:E:925:ILE:HA	2:E:928:ILE:HD12	1.69	0.74
2:E:1057:GLU:O	2:E:1080:ARG:NH1	2.21	0.74
2:B:297:VAL:HG22	2:B:326:VAL:HG22	1.69	0.74
2:B:319:ARG:O	2:B:500:VAL:N	2.20	0.74
1:D:670:ASN:ND2	1:D:676:ASP:O	2.19	0.74
2:E:1059:LEU:HD12	2:E:1116:PRO:HB2	1.70	0.74
2:B:288:ASP:HA	2:B:291:ARG:HE	1.52	0.74
2:B:1135:GLU:HA	2:B:1138:PHE:HB3	1.68	0.74
1:D:607:LYS:HG3	1:D:609:PRO:HD3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1586:VAL:HG23	2:E:1589:LEU:HD12	1.69	0.74
2:B:925:ILE:HA	2:B:928:ILE:HD12	1.69	0.74
2:B:1028:LEU:HA	2:B:1032:PHE:HD1	1.52	0.74
2:B:254:ILE:O	2:B:431:MET:N	2.20	0.74
2:B:1114:LEU:HB3	2:B:1163:ARG:HD2	1.70	0.74
2:B:1545:HIS:HB2	3:C:5:LYS:HE2	1.70	0.74
2:B:1567:GLU:HG3	2:B:1636:HIS:HE1	1.53	0.74
1:D:561:CYS:SG	1:D:594:SER:OG	2.46	0.74
2:E:1381:PHE:HA	2:E:1503:GLU:HA	1.69	0.74
2:E:1436:SER:HB3	2:E:1454:TYR:HB3	1.68	0.74
3:F:39:ASN:H	3:F:57:ASP:HB3	1.53	0.74
1:A:561:CYS:SG	1:A:594:SER:OG	2.46	0.73
2:B:1217:LYS:HD3	2:B:1220:ARG:HH12	1.52	0.73
3:C:93:VAL:HA	3:C:97:TRP:HB2	1.70	0.73
2:E:80:VAL:HG22	2:E:85:LEU:HD11	1.70	0.73
2:E:319:ARG:O	2:E:500:VAL:N	2.20	0.73
2:E:1217:LYS:HD3	2:E:1220:ARG:HH12	1.52	0.73
2:E:1028:LEU:HA	2:E:1032:PHE:HD1	1.52	0.73
2:B:1059:LEU:HD12	2:B:1116:PRO:HB2	1.70	0.73
2:B:1586:VAL:HG23	2:B:1589:LEU:HD12	1.69	0.73
2:E:12:TYR:HB2	2:E:67:LYS:HB2	1.69	0.73
1:A:530:SER:HA	1:A:533:ILE:HD12	1.69	0.73
2:E:256:GLU:OE1	2:E:447:TYR:OH	2.06	0.73
2:E:288:ASP:HA	2:E:291:ARG:HE	1.52	0.73
2:E:1379:LYS:HZ2	2:E:1503:GLU:HB2	1.52	0.73
2:B:12:TYR:HB2	2:B:67:LYS:HB2	1.69	0.73
2:B:1381:PHE:HA	2:B:1503:GLU:HA	1.69	0.73
3:C:39:ASN:H	3:C:57:ASP:HB3	1.53	0.73
2:E:1114:LEU:HB3	2:E:1163:ARG:HD2	1.70	0.73
2:E:1488:THR:N	2:E:1508:SER:O	2.22	0.73
1:D:722:PHE:HE1	2:E:1:MET:HB3	1.52	0.73
2:B:25:VAL:HG23	2:B:57:GLY:HA2	1.69	0.73
2:B:163:LEU:HD21	2:B:194:ILE:HD11	1.69	0.73
2:E:1135:GLU:HA	2:E:1138:PHE:HB3	1.68	0.73
2:B:256:GLU:OE1	2:B:447:TYR:OH	2.06	0.73
2:B:105:LEU:HD22	2:B:110:LYS:HD3	1.71	0.72
2:E:1567:GLU:HG3	2:E:1636:HIS:HE1	1.53	0.72
2:E:225:TYR:HA	2:E:280:VAL:HG22	1.70	0.72
2:E:809:ALA:HB1	2:E:812:ILE:HB	1.70	0.72
3:F:9:VAL:HG21	3:F:101:VAL:HG21	1.71	0.72
1:A:607:LYS:HG3	1:A:609:PRO:HD3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1488:THR:N	2:B:1508:SER:O	2.22	0.72
2:B:1633:VAL:HA	2:B:1637:TYR:HB2	1.71	0.72
2:E:105:LEU:HD22	2:E:110:LYS:HD3	1.71	0.72
2:E:297:VAL:HG22	2:E:326:VAL:HG22	1.69	0.72
2:B:225:TYR:HA	2:B:280:VAL:HG22	1.70	0.72
2:E:1536:HIS:NE2	2:E:1609:GLU:OE2	2.21	0.72
2:B:1057:GLU:O	2:B:1080:ARG:NH1	2.21	0.72
2:E:1633:VAL:HA	2:E:1637:TYR:HB2	1.71	0.72
3:F:93:VAL:HA	3:F:97:TRP:HB2	1.70	0.72
2:B:80:VAL:HG22	2:B:85:LEU:HD11	1.70	0.72
2:B:737:LEU:HD12	2:B:740:TYR:HB2	1.72	0.72
2:E:737:LEU:HD12	2:E:740:TYR:HB2	1.72	0.72
2:E:896:LYS:HG3	2:E:897:PRO:HD3	1.71	0.72
2:B:1081:LYS:HE3	2:B:1119:GLU:HB2	1.72	0.72
2:B:771:ARG:NH1	2:B:781:SER:OG	2.23	0.71
3:C:9:VAL:HG21	3:C:101:VAL:HG21	1.72	0.71
2:E:771:ARG:NH1	2:E:781:SER:OG	2.23	0.71
2:B:928:ILE:HA	2:B:932:LEU:HD13	1.72	0.71
2:E:979:ARG:NH2	2:E:1035:GLN:OE1	2.24	0.71
2:E:1110:LEU:HD21	2:E:1151:LEU:HG	1.72	0.71
2:B:482:LYS:HE2	2:B:491:GLU:HG2	1.73	0.71
2:B:1080:ARG:NH2	2:B:1117:GLU:OE2	2.23	0.71
2:E:695:ASP:OD1	2:E:740:TYR:OH	2.08	0.71
2:E:1080:ARG:NH2	2:E:1117:GLU:OE2	2.23	0.71
2:E:1081:LYS:HE3	2:E:1119:GLU:HB2	1.72	0.71
2:B:979:ARG:NH2	2:B:1035:GLN:OE1	2.24	0.71
2:E:1019:ARG:O	2:E:1023:GLN:NE2	2.21	0.71
2:B:1099:ILE:HA	2:B:1102:ILE:HD12	1.72	0.71
2:E:879:LEU:HD23	2:E:927:LEU:HD22	1.73	0.71
2:E:1099:ILE:HA	2:E:1102:ILE:HD12	1.72	0.71
2:B:12:TYR:HA	2:B:34:THR:HG23	1.72	0.71
2:B:1102:ILE:HG12	2:B:1131:MET:HB2	1.73	0.71
2:B:103:ARG:HH12	2:B:104:LYS:HE3	1.55	0.71
2:B:896:LYS:HG3	2:B:897:PRO:HD3	1.71	0.71
2:E:928:ILE:HA	2:E:932:LEU:HD13	1.72	0.70
2:E:1102:ILE:HG12	2:E:1131:MET:HB2	1.73	0.70
2:E:1328:TYR:HB3	2:E:1338:LEU:HD22	1.72	0.70
2:E:1388:TYR:HB2	3:F:45:MET:HE3	1.71	0.70
2:E:1033:MET:SD	2:E:1093:ASN:ND2	2.65	0.70
1:A:701:LEU:HD11	2:B:16:ILE:HA	1.72	0.70
2:B:1059:LEU:O	2:B:1063:THR:OG1	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1410:SER:OG	2:E:1413:PRO:O	2.08	0.70
2:B:575:ASP:HB3	2:B:578:LYS:HB2	1.73	0.70
2:B:1328:TYR:HB3	2:B:1338:LEU:HD22	1.72	0.70
2:B:1410:SER:OG	2:B:1413:PRO:O	2.08	0.70
2:E:103:ARG:HH12	2:E:104:LYS:HE3	1.55	0.70
2:E:472:VAL:HG22	2:E:527:ILE:HG12	1.73	0.70
3:F:66:ARG:HG2	3:F:67:LEU:HG	1.74	0.70
3:F:87:PRO:HA	3:F:137:ILE:HD11	1.73	0.70
2:B:964:MET:HG2	2:B:969:TYR:CE1	2.27	0.70
2:B:1110:LEU:HD21	2:B:1151:LEU:HG	1.72	0.70
2:B:1622:LEU:O	2:B:1626:PHE:HB3	1.91	0.70
2:E:12:TYR:HA	2:E:34:THR:HG23	1.72	0.70
2:E:1322:LYS:HD3	2:E:1345:ARG:NH1	2.06	0.70
2:B:879:LEU:HD23	2:B:927:LEU:HD22	1.73	0.70
2:E:1622:LEU:O	2:E:1626:PHE:HB3	1.91	0.70
2:E:1630:LYS:O	2:E:1634:GLU:HG2	1.92	0.70
2:E:98:TRP:O	2:E:101:ILE:HG22	1.91	0.70
2:E:254:ILE:O	2:E:431:MET:N	2.20	0.70
2:B:472:VAL:HG22	2:B:527:ILE:HG12	1.73	0.70
2:B:1521:THR:OG1	2:B:1566:TYR:OH	2.06	0.70
2:E:1218:GLU:OE1	2:E:1218:GLU:N	2.25	0.70
2:B:695:ASP:OD1	2:B:740:TYR:OH	2.08	0.70
2:B:1630:LYS:O	2:B:1634:GLU:HG2	1.92	0.70
2:E:451:ILE:HD11	2:E:623:ALA:HB2	1.74	0.70
2:E:575:ASP:HB3	2:E:578:LYS:HB2	1.73	0.70
2:E:1294:GLN:N	2:E:1294:GLN:OE1	2.25	0.70
2:E:1521:THR:OG1	2:E:1566:TYR:OH	2.05	0.69
2:B:451:ILE:HD12	2:B:621:GLN:HG2	1.74	0.69
2:E:482:LYS:HE2	2:E:491:GLU:HG2	1.73	0.69
2:B:775:LEU:HD23	2:B:781:SER:HB2	1.74	0.69
2:B:1231:TYR:O	2:B:1235:LYS:N	2.25	0.69
2:B:1322:LYS:HD3	2:B:1345:ARG:NH1	2.06	0.69
3:C:71:SER:O	3:C:75:THR:OG1	2.09	0.69
2:E:11:LYS:HZ1	2:E:36:HIS:HB2	1.57	0.69
2:E:964:MET:HG2	2:E:969:TYR:CE1	2.27	0.69
2:E:1121:ARG:O	2:E:1125:ILE:HD12	1.91	0.69
2:E:1231:TYR:O	2:E:1235:LYS:N	2.25	0.69
2:E:1428:CYS:SG	2:E:1429:PHE:N	2.65	0.69
2:B:1006:TRP:HB3	2:B:1009:MET:HB2	1.73	0.69
2:B:1033:MET:SD	2:B:1093:ASN:ND2	2.65	0.69
2:E:1231:TYR:HD1	2:E:1236:ARG:HB3	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1121:ARG:O	2:B:1125:ILE:HD12	1.91	0.69
2:E:451:ILE:HD12	2:E:621:GLN:HG2	1.74	0.69
2:B:98:TRP:O	2:B:101:ILE:HG22	1.92	0.69
2:B:677:PHE:HD1	2:B:680:MET:HE2	1.58	0.69
2:B:1218:GLU:OE1	2:B:1218:GLU:N	2.25	0.69
3:F:39:ASN:HA	3:F:57:ASP:H	1.57	0.69
2:B:1294:GLN:OE1	2:B:1294:GLN:N	2.24	0.69
2:E:1006:TRP:HB3	2:E:1009:MET:HB2	1.73	0.69
3:C:119:LEU:HA	3:C:122:ASP:HB2	1.75	0.69
2:E:183:LEU:HB3	2:E:1009:MET:HE1	1.75	0.69
2:E:445:ASP:HB3	2:E:447:TYR:HE2	1.58	0.69
2:B:1231:TYR:HD1	2:B:1236:ARG:HB3	1.58	0.69
2:B:1428:CYS:SG	2:B:1429:PHE:N	2.65	0.69
3:C:39:ASN:HA	3:C:57:ASP:H	1.57	0.69
3:C:66:ARG:HG2	3:C:67:LEU:HG	1.73	0.69
1:D:584:LYS:HD2	2:E:1403:PRO:HA	1.74	0.69
2:B:105:LEU:HD13	2:B:110:LYS:HZ2	1.58	0.69
2:E:1356:MET:HE1	2:E:1449:GLN:HG3	1.75	0.69
2:E:105:LEU:HD13	2:E:110:LYS:HZ2	1.58	0.68
2:E:954:VAL:O	2:E:958:ILE:HG12	1.93	0.68
1:A:722:PHE:HE1	2:B:1:MET:HB3	1.56	0.68
2:B:451:ILE:HD11	2:B:623:ALA:HB2	1.74	0.68
3:C:87:PRO:HA	3:C:137:ILE:HD11	1.73	0.68
2:E:41:TYR:HD2	2:E:44:TRP:HB2	1.59	0.68
2:E:474:ASP:HA	2:E:525:CYS:HA	1.75	0.68
2:E:1357:ARG:HH12	2:E:1456:ALA:HB3	1.58	0.68
2:B:928:ILE:HG23	2:B:932:LEU:HD22	1.76	0.68
2:B:1357:ARG:HH12	2:B:1456:ALA:HB3	1.58	0.68
2:E:954:VAL:HA	2:E:957:MET:SD	2.33	0.68
2:E:871:GLN:HE22	2:E:913:LEU:HA	1.58	0.68
2:E:1404:ASN:OD1	2:E:1424:GLN:HB2	1.93	0.68
2:E:36:HIS:N	2:E:48:TYR:O	2.27	0.68
2:E:879:LEU:HD22	2:E:924:HIS:CE1	2.29	0.68
3:F:71:SER:O	3:F:75:THR:OG1	2.09	0.68
2:B:183:LEU:HB3	2:B:1009:MET:HE1	1.75	0.68
2:B:1024:PHE:HA	2:B:1027:VAL:HG12	1.76	0.68
2:E:1307:TYR:O	2:E:1311:GLY:N	2.27	0.68
3:F:119:LEU:HA	3:F:122:ASP:HB2	1.75	0.68
2:E:166:ARG:O	2:E:171:ASN:HA	1.94	0.68
2:E:485:HIS:HB2	2:E:514:LYS:HB3	1.76	0.68
1:A:585:VAL:HG12	1:A:607:LYS:HZ3	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:166:ARG:O	2:B:171:ASN:HA	1.94	0.68
2:B:445:ASP:HB3	2:B:447:TYR:HE2	1.58	0.68
2:E:449:THR:HB	2:E:623:ALA:HB3	1.76	0.68
2:E:1135:GLU:O	2:E:1139:SER:N	2.27	0.68
2:B:871:GLN:HE22	2:B:913:LEU:HA	1.58	0.67
2:B:1404:ASN:OD1	2:B:1424:GLN:HB2	1.93	0.67
2:B:41:TYR:HD2	2:B:44:TRP:HB2	1.59	0.67
2:E:95:LEU:HD21	2:E:124:LEU:HD13	1.75	0.67
2:E:775:LEU:HD23	2:E:781:SER:HB2	1.74	0.67
2:E:1597:MET:HG3	2:E:1600:LEU:HD12	1.76	0.67
2:B:327:MET:HE1	2:B:344:HIS:HB3	1.76	0.67
2:B:954:VAL:HA	2:B:957:MET:SD	2.34	0.67
2:B:1120:LEU:O	2:B:1124:THR:OG1	2.11	0.67
2:B:1597:MET:HG3	2:B:1600:LEU:HD12	1.76	0.67
3:C:37:PHE:HB2	3:C:40:TYR:HE1	1.60	0.67
2:E:928:ILE:HG23	2:E:932:LEU:HD22	1.76	0.67
2:B:36:HIS:N	2:B:48:TYR:O	2.27	0.67
2:B:471:SER:O	2:B:528:ARG:N	2.27	0.67
2:B:474:ASP:HA	2:B:525:CYS:HA	1.75	0.67
2:B:1333:PHE:HZ	2:E:1444:LYS:HD3	1.60	0.67
2:E:5:ILE:HB	2:E:40:MET:HB2	1.75	0.67
2:E:1059:LEU:O	2:E:1063:THR:OG1	2.09	0.67
3:F:37:PHE:HB2	3:F:40:TYR:HE1	1.60	0.67
1:A:613:ILE:HD13	1:A:646:TYR:HB3	1.76	0.67
3:C:130:LYS:HE3	3:C:136:PRO:HD3	1.76	0.67
2:E:929:MET:CB	2:E:964:MET:HE1	2.25	0.67
1:D:613:ILE:HD13	1:D:646:TYR:HB3	1.76	0.67
2:E:471:SER:O	2:E:528:ARG:N	2.27	0.67
2:E:485:HIS:N	2:E:514:LYS:O	2.22	0.67
2:B:1356:MET:HE1	2:B:1449:GLN:HG3	1.75	0.67
2:B:1388:TYR:HB2	3:C:45:MET:HE3	1.74	0.67
2:B:4:TRP:CE2	2:B:46:ARG:HD3	2.30	0.67
2:B:240:GLU:OE2	2:B:319:ARG:NE	2.26	0.67
2:B:954:VAL:O	2:B:958:ILE:HG12	1.93	0.67
2:B:1307:TYR:O	2:B:1311:GLY:N	2.27	0.67
2:E:102:TRP:HB2	2:E:114:PHE:CE1	2.27	0.67
2:E:1364:ALA:HA	2:E:1382:ILE:HA	1.77	0.67
2:B:5:ILE:HB	2:B:40:MET:HB2	1.76	0.67
2:B:879:LEU:HD22	2:B:924:HIS:CE1	2.29	0.67
2:B:1135:GLU:O	2:B:1139:SER:N	2.27	0.67
2:B:1536:HIS:NE2	2:B:1609:GLU:OE2	2.21	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:61:GLN:O	3:C:68:ARG:NH2	2.28	0.67
2:E:890:LEU:HD12	2:E:935:ARG:HG3	1.77	0.67
2:E:972:TYR:OH	2:E:977:LYS:NZ	2.27	0.67
1:A:567:ALA:HA	1:A:571:GLN:HB2	1.78	0.66
2:B:95:LEU:HD21	2:B:124:LEU:HD13	1.75	0.66
2:B:485:HIS:HB2	2:B:514:LYS:HB3	1.76	0.66
2:B:1491:THR:HG22	2:B:1493:TYR:H	1.59	0.66
2:B:1536:HIS:HD2	2:B:1606:ILE:HB	1.60	0.66
2:E:1120:LEU:O	2:E:1124:THR:OG1	2.11	0.66
2:B:96:ARG:NH1	2:B:97:GLU:OE2	2.28	0.66
2:E:79:THR:HA	2:E:85:LEU:HD22	1.78	0.66
2:E:95:LEU:HA	2:E:98:TRP:HD1	1.60	0.66
2:E:172:ILE:HA	2:E:175:PRO:HG2	1.77	0.66
3:F:61:GLN:O	3:F:68:ARG:NH2	2.28	0.66
2:B:172:ILE:HA	2:B:175:PRO:HG2	1.77	0.66
2:B:860:MET:HA	2:B:863:ILE:HD12	1.76	0.66
2:B:890:LEU:HD12	2:B:935:ARG:HG3	1.77	0.66
3:C:100:GLU:O	3:C:104:HIS:ND1	2.27	0.66
2:E:677:PHE:HD1	2:E:680:MET:HE2	1.58	0.66
2:E:938:ARG:HA	2:E:941:ILE:HD12	1.78	0.66
2:E:946:GLN:HA	2:E:950:ILE:HG21	1.77	0.66
2:B:449:THR:HB	2:B:623:ALA:HB3	1.76	0.66
2:B:1364:ALA:HA	2:B:1382:ILE:HA	1.77	0.66
2:B:95:LEU:HA	2:B:98:TRP:HD1	1.60	0.66
2:E:860:MET:HA	2:E:863:ILE:HD12	1.77	0.66
2:E:1491:THR:HG22	2:E:1493:TYR:H	1.59	0.66
3:F:100:GLU:O	3:F:104:HIS:ND1	2.27	0.66
3:F:130:LYS:HE3	3:F:136:PRO:HD3	1.76	0.66
2:B:11:LYS:HZ1	2:B:36:HIS:HB2	1.61	0.66
2:B:450:LEU:O	2:B:510:TYR:N	2.28	0.66
2:B:938:ARG:HA	2:B:941:ILE:HD12	1.78	0.66
2:B:987:MET:HE2	2:B:1042:LEU:HD13	1.78	0.66
2:E:1536:HIS:HD2	2:E:1606:ILE:HB	1.60	0.66
1:D:578:ARG:HB3	1:D:587:HIS:HB2	1.77	0.66
2:E:96:ARG:NH1	2:E:97:GLU:OE2	2.28	0.66
1:A:615:ALA:HB3	1:A:645:LEU:HD12	1.78	0.66
2:B:1631:GLU:OE1	2:B:1635:LYS:NZ	2.28	0.66
2:E:1024:PHE:HA	2:E:1027:VAL:HG12	1.76	0.66
2:B:35:VAL:HG12	2:B:49:THR:HA	1.77	0.66
2:B:561:THR:HG21	2:B:631:LEU:HB3	1.77	0.66
2:B:1314:TRP:HB2	2:B:1352:ILE:HD11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1596:GLN:O	2:B:1600:LEU:N	2.26	0.66
2:E:561:THR:HG21	2:E:631:LEU:HB3	1.77	0.66
2:B:946:GLN:HA	2:B:950:ILE:HG21	1.77	0.65
2:B:1369:GLY:N	2:B:1418:ILE:O	2.30	0.65
3:C:4:ILE:HG13	3:C:76:ASP:HB2	1.76	0.65
2:E:35:VAL:HG12	2:E:49:THR:HA	1.77	0.65
2:E:757:LEU:HD23	2:E:760:LEU:HD11	1.79	0.65
2:E:1369:GLY:N	2:E:1418:ILE:O	2.30	0.65
2:E:1631:GLU:OE1	2:E:1635:LYS:NZ	2.28	0.65
1:A:578:ARG:HB3	1:A:587:HIS:HB2	1.77	0.65
1:D:567:ALA:HA	1:D:571:GLN:HB2	1.77	0.65
2:E:136:LEU:HD12	2:E:140:GLU:HG2	1.78	0.65
3:F:4:ILE:HG13	3:F:76:ASP:HB2	1.77	0.65
2:B:79:THR:HG22	2:B:85:LEU:HB2	1.77	0.65
2:B:204:ILE:HG13	2:B:211:ARG:HB3	1.79	0.65
2:E:964:MET:HE3	2:E:968:HIS:CB	2.27	0.65
2:E:987:MET:HE2	2:E:1042:LEU:HD13	1.78	0.65
2:E:1367:TYR:O	2:E:1378:ASN:N	2.27	0.65
2:B:94:THR:HG21	2:B:152:ILE:HG12	1.79	0.65
2:B:1586:VAL:HA	2:B:1589:LEU:HG	1.79	0.65
2:E:4:TRP:CE2	2:E:46:ARG:HD3	2.30	0.65
2:E:450:LEU:O	2:E:510:TYR:N	2.28	0.65
2:B:136:LEU:HD12	2:B:140:GLU:HG2	1.78	0.65
2:B:1124:THR:HG23	2:B:1127:ILE:HD12	1.79	0.65
2:B:1372:PHE:O	2:B:1377:ARG:NH2	2.28	0.65
3:C:23:TYR:HB2	3:C:165:LEU:HD21	1.79	0.65
1:D:615:ALA:HB3	1:D:645:LEU:HD12	1.78	0.65
2:E:79:THR:HG22	2:E:85:LEU:HB2	1.77	0.65
2:B:79:THR:HA	2:B:85:LEU:HD22	1.78	0.65
2:B:964:MET:HE3	2:B:968:HIS:CB	2.27	0.65
2:B:1248:ARG:NH1	2:B:1249:ASP:OD1	2.30	0.65
2:E:157:ARG:NH1	2:E:157:ARG:O	2.29	0.65
2:E:243:MET:HG3	2:E:281:PHE:HZ	1.62	0.65
2:E:1314:TRP:HB2	2:E:1352:ILE:HD11	1.78	0.65
2:E:1579:HIS:HB3	2:E:1582:ASP:OD1	1.96	0.65
2:E:204:ILE:HG13	2:E:211:ARG:HB3	1.79	0.65
2:B:1463:ARG:HA	2:B:1487:THR:O	1.96	0.65
2:E:327:MET:HE1	2:E:344:HIS:HB3	1.76	0.65
2:E:821:PRO:HG3	2:E:863:ILE:HG13	1.79	0.65
2:E:1057:GLU:HA	2:E:1061:LEU:HD13	1.79	0.65
1:A:624:HIS:HD2	1:A:633:GLN:HG3	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:481:GLU:OE1	2:B:494:SER:OG	2.13	0.65
2:B:1315:GLU:OE1	2:B:1315:GLU:N	2.28	0.65
2:E:1124:THR:HG23	2:E:1127:ILE:HD12	1.79	0.65
2:E:1353:ILE:HA	2:E:1449:GLN:HG2	1.79	0.65
2:E:1463:ARG:HA	2:E:1487:THR:O	1.96	0.65
1:D:576:TYR:HB2	1:D:598:GLU:HG2	1.79	0.65
2:E:1533:VAL:HA	2:E:1606:ILE:HD13	1.79	0.65
2:B:1167:GLN:OE1	2:B:1167:GLN:N	2.31	0.64
2:B:302:ARG:HD3	2:B:322:PHE:HD1	1.61	0.64
2:B:1579:HIS:HB3	2:B:1582:ASP:OD1	1.96	0.64
2:E:302:ARG:HD3	2:E:322:PHE:HD1	1.61	0.64
3:F:12:GLY:H	3:F:60:GLY:HA3	1.62	0.64
3:F:80:ILE:HG23	3:F:112:LEU:HA	1.79	0.64
2:B:102:TRP:HB2	2:B:114:PHE:CE1	2.27	0.64
3:F:23:TYR:HB2	3:F:165:LEU:HD21	1.79	0.64
2:B:1357:ARG:HH21	2:B:1453:TYR:C	2.05	0.64
1:D:667:ASP:OD1	1:D:678:MET:N	2.31	0.64
2:E:1197:VAL:O	2:E:1201:LEU:HG	1.98	0.64
2:E:1357:ARG:HH21	2:E:1453:TYR:C	2.05	0.64
2:B:187:HIS:CE1	2:B:1006:TRP:HA	2.33	0.64
3:C:80:ILE:HG23	3:C:112:LEU:HA	1.79	0.64
2:E:268:PRO:HG2	2:E:274:LEU:HB2	1.80	0.64
2:B:757:LEU:HD23	2:B:760:LEU:HD11	1.79	0.64
1:D:624:HIS:HD2	1:D:633:GLN:HG3	1.62	0.64
1:D:625:MET:HE3	1:D:641:ALA:HB2	1.80	0.64
2:E:166:ARG:O	2:E:171:ASN:ND2	2.28	0.64
2:E:187:HIS:CE1	2:E:1006:TRP:HA	2.33	0.64
2:E:1586:VAL:HA	2:E:1589:LEU:HG	1.79	0.64
2:B:268:PRO:HG2	2:B:274:LEU:HB2	1.80	0.64
2:B:1336:GLU:OE1	2:B:1336:GLU:N	2.19	0.64
2:E:821:PRO:HB2	2:E:862:LYS:HB3	1.80	0.64
2:B:757:LEU:HD13	2:B:815:ALA:HB3	1.80	0.64
2:B:1390:ARG:NH2	3:C:26:ASN:OD1	2.30	0.64
2:E:1596:GLN:O	2:E:1600:LEU:N	2.26	0.64
1:A:625:MET:HE3	1:A:641:ALA:HB2	1.80	0.64
3:C:12:GLY:H	3:C:60:GLY:HA3	1.62	0.64
1:D:584:LYS:HG3	1:D:585:VAL:HG13	1.80	0.64
2:E:225:TYR:N	2:E:404:LYS:O	2.28	0.64
2:E:481:GLU:OE1	2:E:494:SER:OG	2.13	0.64
2:B:821:PRO:HB2	2:B:862:LYS:HB3	1.80	0.63
2:B:1353:ILE:HA	2:B:1449:GLN:HG2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:116:LYS:HD2	3:C:119:LEU:HD12	1.80	0.63
2:E:187:HIS:NE2	2:E:1006:TRP:HA	2.12	0.63
2:E:1248:ARG:NH1	2:E:1249:ASP:OD1	2.30	0.63
2:E:1495:PHE:HE1	2:E:1502:PHE:HD2	1.45	0.63
3:F:146:ALA:O	3:F:150:GLY:N	2.30	0.63
1:A:667:ASP:OD1	1:A:678:MET:N	2.31	0.63
2:B:821:PRO:HG3	2:B:863:ILE:HG13	1.79	0.63
2:B:1197:VAL:O	2:B:1201:LEU:HG	1.98	0.63
2:E:1280:PRO:HA	2:E:1283:LEU:HB2	1.80	0.63
1:A:576:TYR:HB2	1:A:598:GLU:HG2	1.79	0.63
2:B:243:MET:HG3	2:B:281:PHE:HZ	1.62	0.63
2:B:244:ALA:HB2	2:B:257:ASN:HA	1.80	0.63
2:B:857:LEU:HD22	2:B:905:LEU:HD11	1.80	0.63
2:E:1315:GLU:OE1	2:E:1315:GLU:N	2.29	0.63
1:A:584:LYS:HG3	1:A:585:VAL:HG13	1.80	0.63
2:B:929:MET:CB	2:B:964:MET:HE1	2.25	0.63
2:B:1135:GLU:OE1	2:B:1144:PHE:HA	1.99	0.63
2:B:1361:GLU:OE1	2:B:1361:GLU:N	2.30	0.63
2:B:1533:VAL:HA	2:B:1606:ILE:HD13	1.79	0.63
2:E:569:LEU:N	2:E:620:PHE:O	2.32	0.63
2:E:676:LEU:HB3	2:E:693:VAL:HG13	1.80	0.63
2:B:1057:GLU:HA	2:B:1061:LEU:HD13	1.79	0.63
2:B:1221:MET:HA	2:B:1224:THR:HG22	1.81	0.63
2:B:182:ALA:HA	2:B:185:LYS:NZ	2.14	0.63
2:B:839:LEU:HA	2:B:842:LYS:HD2	1.81	0.63
2:B:1019:ARG:O	2:B:1023:GLN:NE2	2.21	0.63
2:B:1241:ILE:HA	2:B:1244:LEU:HD12	1.81	0.63
2:E:69:ALA:HB2	2:E:78:GLU:HG2	1.81	0.63
2:E:1135:GLU:OE1	2:E:1144:PHE:HA	1.99	0.63
1:A:722:PHE:CE1	2:B:1:MET:HB3	2.33	0.63
2:B:225:TYR:N	2:B:404:LYS:O	2.28	0.63
2:B:973:ILE:HA	2:B:976:PHE:CE2	2.34	0.63
2:B:1368:TYR:O	2:B:1425:TYR:N	2.31	0.63
2:B:1571:PHE:HA	2:B:1586:VAL:HG21	1.81	0.63
2:E:94:THR:HG21	2:E:152:ILE:HG12	1.79	0.63
2:E:746:ASP:O	2:E:750:THR:OG1	2.10	0.63
2:E:1167:GLN:OE1	2:E:1167:GLN:N	2.31	0.63
2:E:1221:MET:HA	2:E:1224:THR:HG22	1.81	0.63
2:B:285:SER:N	2:B:288:ASP:OD2	2.32	0.63
3:C:21:ILE:HD13	3:C:34:PRO:HA	1.80	0.63
1:D:548:ILE:HG21	1:D:682:THR:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:182:ALA:HA	2:E:185:LYS:NZ	2.14	0.63
2:E:760:LEU:HB3	2:E:823:ILE:HG21	1.80	0.63
3:F:94:ARG:HG3	3:F:145:MET:HE2	1.81	0.63
2:B:187:HIS:NE2	2:B:1006:TRP:HA	2.13	0.63
2:B:569:LEU:N	2:B:620:PHE:O	2.32	0.63
2:B:761:LYS:HB2	2:B:822:SER:HB2	1.80	0.63
2:B:1126:PRO:HB3	2:B:1179:HIS:CE1	2.34	0.63
1:D:551:GLN:HG3	2:E:106:TYR:CE2	2.34	0.63
2:E:244:ALA:HB2	2:E:257:ASN:HA	1.80	0.63
2:E:798:PHE:O	2:E:802:MET:HG3	1.99	0.63
2:E:970:SER:O	2:E:974:SER:OG	2.15	0.63
2:E:973:ILE:HA	2:E:976:PHE:CE2	2.34	0.63
2:B:719:TYR:CD1	2:B:723:HIS:HB2	2.34	0.62
2:B:798:PHE:O	2:B:802:MET:HG3	1.99	0.62
2:B:1280:PRO:HA	2:B:1283:LEU:HB2	1.80	0.62
2:E:719:TYR:CD1	2:E:723:HIS:HB2	2.34	0.62
2:E:1336:GLU:OE1	2:E:1336:GLU:N	2.18	0.62
2:E:757:LEU:HD13	2:E:815:ALA:HB3	1.80	0.62
2:E:1126:PRO:HB3	2:E:1179:HIS:CE1	2.34	0.62
2:E:1372:PHE:O	2:E:1377:ARG:NH2	2.28	0.62
2:E:1571:PHE:HA	2:E:1586:VAL:HG21	1.81	0.62
3:F:171:GLU:HG3	3:F:174:ARG:HH11	1.64	0.62
2:B:69:ALA:HB2	2:B:78:GLU:HG2	1.81	0.62
2:B:70:THR:HG22	2:B:71:VAL:H	1.64	0.62
2:E:1361:GLU:OE1	2:E:1361:GLU:N	2.30	0.62
3:F:21:ILE:HD13	3:F:34:PRO:HA	1.81	0.62
1:A:716:GLU:HG3	2:B:44:TRP:CZ2	2.34	0.62
2:B:1495:PHE:HE1	2:B:1502:PHE:HD2	1.45	0.62
2:E:761:LYS:HB2	2:E:822:SER:HB2	1.81	0.62
2:B:243:MET:O	2:B:258:TYR:N	2.23	0.62
2:B:1247:LEU:HA	2:B:1250:LEU:HD12	1.81	0.62
2:B:1367:TYR:O	2:B:1378:ASN:N	2.27	0.62
2:E:243:MET:O	2:E:258:TYR:N	2.24	0.62
2:E:839:LEU:HA	2:E:842:LYS:HD2	1.81	0.62
2:B:95:LEU:HA	2:B:98:TRP:CD1	2.34	0.62
2:B:166:ARG:HD3	2:B:173:LEU:HB2	1.82	0.62
2:B:1330:SER:O	2:E:1444:LYS:NZ	2.26	0.62
1:D:536:LEU:HD21	2:E:17:TYR:HB2	1.80	0.62
2:E:15:ALA:HA	2:E:59:PHE:CE2	2.35	0.62
2:E:95:LEU:HA	2:E:98:TRP:CD1	2.34	0.62
2:E:138:LYS:HA	2:E:141:LEU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:493:ILE:HD11	2:E:496:TYR:HD1	1.65	0.62
2:E:285:SER:N	2:E:288:ASP:OD2	2.32	0.62
2:E:866:SER:O	2:E:868:LEU:N	2.32	0.62
2:E:1247:LEU:HA	2:E:1250:LEU:HD12	1.81	0.62
3:F:116:LYS:HD2	3:F:119:LEU:HD12	1.80	0.62
2:B:157:ARG:NH1	2:B:157:ARG:O	2.29	0.62
2:B:496:TYR:CZ	2:B:513:VAL:HG11	2.35	0.62
2:B:972:TYR:OH	2:B:977:LYS:NZ	2.27	0.62
2:E:1122:LYS:HD3	2:E:1175:LEU:HD21	1.82	0.62
2:B:5:ILE:H	2:B:40:MET:N	1.95	0.62
2:B:509:TRP:HB3	2:B:511:GLU:HG3	1.82	0.62
2:B:1016:VAL:HG23	2:B:1017:PHE:HD1	1.65	0.62
2:B:1372:PHE:CE2	2:B:1424:GLN:HB3	2.34	0.62
2:E:1372:PHE:CE2	2:E:1424:GLN:HB3	2.34	0.62
2:E:1463:ARG:NE	2:E:1486:ARG:HE	1.98	0.62
2:B:443:ARG:HG3	2:B:628:SER:HA	1.82	0.62
2:E:857:LEU:HD22	2:E:905:LEU:HD11	1.80	0.62
2:E:879:LEU:HG	2:E:931:ARG:HH21	1.65	0.62
2:E:1016:VAL:HG23	2:E:1017:PHE:HD1	1.65	0.62
2:B:180:THR:O	2:B:184:PHE:N	2.33	0.61
2:B:760:LEU:HB3	2:B:823:ILE:HG21	1.80	0.61
2:E:240:GLU:OE2	2:E:319:ARG:NE	2.26	0.61
2:E:1241:ILE:HA	2:E:1244:LEU:HD12	1.81	0.61
2:E:1375:PHE:CE2	2:E:1376:LEU:HG	2.35	0.61
1:A:617:VAL:HG13	1:A:645:LEU:HD21	1.81	0.61
2:B:15:ALA:HA	2:B:59:PHE:CE2	2.35	0.61
2:B:802:MET:SD	2:B:846:SER:OG	2.58	0.61
2:B:1463:ARG:NE	2:B:1486:ARG:HE	1.98	0.61
2:E:1170:VAL:HG12	2:E:1174:LYS:HE2	1.82	0.61
2:E:1227:VAL:HA	2:E:1230:PHE:CD2	2.35	0.61
2:E:1238:ASP:OD1	2:E:1239:ILE:N	2.31	0.61
2:E:1532:CYS:O	2:E:1535:GLN:NE2	2.30	0.61
2:B:719:TYR:HA	2:B:723:HIS:HD2	1.66	0.61
2:B:1122:LYS:HD3	2:B:1175:LEU:HD21	1.82	0.61
3:C:171:GLU:HG3	3:C:174:ARG:HH11	1.64	0.61
2:E:496:TYR:CZ	2:E:513:VAL:HG11	2.35	0.61
2:E:936:ILE:HD12	2:E:939:THR:HB	1.82	0.61
2:E:1065:SER:O	2:E:1069:ARG:NH1	2.34	0.61
2:E:1080:ARG:HA	2:E:1083:ILE:HD12	1.82	0.61
2:B:138:LYS:HA	2:B:141:LEU:HB2	1.81	0.61
1:D:701:LEU:HD23	2:E:31:ILE:HG23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:802:MET:SD	2:E:846:SER:OG	2.58	0.61
2:B:166:ARG:O	2:B:171:ASN:ND2	2.28	0.61
2:B:592:LYS:HA	2:B:595:MET:HE2	1.82	0.61
2:B:1065:SER:O	2:B:1069:ARG:NH1	2.34	0.61
1:D:580:SER:HA	1:D:587:HIS:CE1	2.30	0.61
2:B:676:LEU:HB3	2:B:693:VAL:HG13	1.80	0.61
2:B:879:LEU:HG	2:B:931:ARG:HH21	1.65	0.61
2:E:100:VAL:HA	2:E:103:ARG:HG2	1.83	0.61
2:B:523:THR:HA	2:B:555:MET:SD	2.40	0.61
2:B:979:ARG:HD3	2:B:1039:GLU:OE2	2.01	0.61
2:E:914:ASP:CG	2:E:963:GLN:HG2	2.26	0.61
1:A:726:CYS:HA	2:B:46:ARG:NH2	2.15	0.61
2:B:493:ILE:HD11	2:B:496:TYR:HD1	1.65	0.61
3:C:94:ARG:HG3	3:C:145:MET:HE2	1.81	0.61
2:E:1125:ILE:HG12	2:E:1172:LEU:HA	1.83	0.61
1:A:548:ILE:HG21	1:A:682:THR:HG23	1.81	0.61
2:B:936:ILE:HD12	2:B:939:THR:HB	1.82	0.61
3:C:42:ALA:HB3	3:C:53:LEU:HD11	1.82	0.61
2:E:166:ARG:HD3	2:E:173:LEU:HB2	1.81	0.61
2:E:443:ARG:HG3	2:E:628:SER:HA	1.82	0.61
2:E:523:THR:HA	2:E:555:MET:SD	2.41	0.61
2:B:1227:VAL:HA	2:B:1230:PHE:CD2	2.35	0.61
2:B:326:VAL:HB	2:B:386:VAL:HG12	1.83	0.60
2:B:828:LYS:HZ3	2:B:867:THR:HA	1.66	0.60
2:B:1480:ALA:HA	2:B:1514:PRO:HB3	1.83	0.60
3:C:94:ARG:CZ	3:C:145:MET:HG2	2.31	0.60
1:D:697:ARG:NH1	2:E:30:GLN:HG3	2.16	0.60
2:E:70:THR:HG22	2:E:71:VAL:H	1.64	0.60
2:E:828:LYS:HZ3	2:E:867:THR:HA	1.67	0.60
2:E:1243:TYR:HA	2:E:1246:LYS:HG2	1.83	0.60
3:F:7:VAL:HG21	3:F:71:SER:HB3	1.83	0.60
1:D:711:PRO:O	2:E:63:TYR:OH	2.06	0.60
2:E:701:ILE:HG21	2:E:763:LEU:HD21	1.83	0.60
2:E:857:LEU:HB3	2:E:905:LEU:HD21	1.83	0.60
2:E:961:LEU:O	2:E:969:TYR:OH	2.19	0.60
2:E:1371:GLY:C	2:E:1424:GLN:HE21	2.09	0.60
2:B:882:LEU:O	2:B:885:GLN:HG2	2.02	0.60
2:B:1170:VAL:HG12	2:B:1174:LYS:HE2	1.83	0.60
2:B:1371:GLY:C	2:B:1424:GLN:HE21	2.09	0.60
2:B:1375:PHE:CE2	2:B:1376:LEU:HG	2.35	0.60
2:E:326:VAL:HB	2:E:386:VAL:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:719:TYR:HA	2:E:723:HIS:HD2	1.65	0.60
3:F:94:ARG:CZ	3:F:145:MET:HG2	2.31	0.60
2:B:485:HIS:N	2:B:514:LYS:O	2.22	0.60
2:B:914:ASP:CG	2:B:963:GLN:HG2	2.26	0.60
2:B:1243:TYR:HA	2:B:1246:LYS:HG2	1.83	0.60
2:B:1532:CYS:O	2:B:1535:GLN:NE2	2.30	0.60
2:E:1258:THR:HG22	2:E:1262:TYR:CE2	2.36	0.60
2:E:1459:VAL:HG23	2:E:1495:PHE:HB2	1.84	0.60
2:B:85:LEU:O	2:B:88:VAL:HG22	2.02	0.60
2:B:565:GLY:N	2:B:624:THR:O	2.34	0.60
2:B:866:SER:O	2:B:868:LEU:N	2.33	0.60
2:B:1006:TRP:HE3	2:B:1009:MET:HG3	1.67	0.60
2:B:1080:ARG:HA	2:B:1083:ILE:HD12	1.82	0.60
2:B:1206:ASP:O	2:B:1209:THR:HG22	2.02	0.60
2:B:1258:THR:HG22	2:B:1262:TYR:CE2	2.37	0.60
2:E:467:GLU:OE2	2:E:534:ARG:NH1	2.35	0.60
2:B:94:THR:HG22	2:B:98:TRP:NE1	2.16	0.60
2:B:857:LEU:HB3	2:B:905:LEU:HD21	1.83	0.60
2:B:961:LEU:O	2:B:969:TYR:OH	2.19	0.60
2:B:964:MET:O	2:B:1019:ARG:NH2	2.34	0.60
3:C:11:ASP:OD1	3:C:16:LYS:NZ	2.35	0.60
1:D:617:VAL:HG13	1:D:645:LEU:HD21	1.81	0.60
1:D:711:PRO:HG2	2:E:16:ILE:HG21	1.82	0.60
2:E:34:THR:HB	2:E:50:LEU:HD12	1.83	0.60
2:E:94:THR:HG22	2:E:98:TRP:NE1	2.16	0.60
1:A:580:SER:HB3	1:A:584:LYS:H	1.67	0.60
2:B:256:GLU:HG3	2:B:488:ALA:HB2	1.83	0.60
2:B:701:ILE:HG21	2:B:763:LEU:HD21	1.83	0.60
2:B:911:GLU:O	2:B:915:ARG:N	2.34	0.60
2:E:592:LYS:HA	2:E:595:MET:HE2	1.82	0.60
2:E:565:GLY:N	2:E:624:THR:O	2.34	0.60
2:E:937:ASN:HA	2:E:940:VAL:HG12	1.84	0.60
2:E:509:TRP:HB3	2:E:511:GLU:HG3	1.82	0.60
2:E:964:MET:O	2:E:1019:ARG:NH2	2.34	0.60
2:E:1059:LEU:HA	2:E:1062:GLU:HG2	1.84	0.60
2:E:1067:ALA:O	2:E:1071:LYS:N	2.23	0.60
2:E:1206:ASP:O	2:E:1209:THR:HG22	2.02	0.60
2:E:1368:TYR:O	2:E:1425:TYR:N	2.31	0.60
3:F:42:ALA:HB3	3:F:53:LEU:HD11	1.83	0.60
2:B:470:MET:HG3	2:B:484:ILE:HD13	1.84	0.60
2:B:1367:TYR:HE1	2:B:1398:LEU:HD23	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1408:MET:N	2:B:1426:MET:O	2.33	0.60
1:D:562:PHE:N	1:D:575:TRP:O	2.35	0.60
1:D:580:SER:HB3	1:D:584:LYS:H	1.67	0.60
2:E:99:ALA:HA	2:E:102:TRP:NE1	2.17	0.60
2:E:911:GLU:O	2:E:915:ARG:N	2.34	0.60
1:A:580:SER:HA	1:A:587:HIS:CE1	2.30	0.59
3:C:146:ALA:O	3:C:150:GLY:N	2.30	0.59
1:D:643:SER:HB3	1:D:651:GLN:HB3	1.84	0.59
2:B:1313:MET:HA	2:B:1453:TYR:OH	2.02	0.59
2:B:1321:SER:O	2:B:1345:ARG:NH2	2.35	0.59
3:C:82:PHE:O	3:C:115:THR:N	2.24	0.59
1:D:601:HIS:CE1	1:D:603:SER:HA	2.38	0.59
2:E:36:HIS:O	2:E:48:TYR:N	2.35	0.59
2:E:85:LEU:O	2:E:88:VAL:HG22	2.02	0.59
2:E:166:ARG:NH1	2:E:168:ASP:H	2.00	0.59
2:E:166:ARG:HH21	2:E:169:ASN:HD21	1.49	0.59
3:F:11:ASP:OD1	3:F:16:LYS:NZ	2.35	0.59
1:A:562:PHE:N	1:A:575:TRP:O	2.35	0.59
1:A:580:SER:HB2	1:A:585:VAL:HG22	1.83	0.59
1:A:601:HIS:CE1	1:A:603:SER:HA	2.38	0.59
2:B:1067:ALA:O	2:B:1071:LYS:N	2.23	0.59
2:E:757:LEU:HA	2:E:760:LEU:HG	1.84	0.59
2:E:882:LEU:O	2:E:885:GLN:HG2	2.02	0.59
2:B:1183:HIS:CG	2:B:1184:LYS:H	2.21	0.59
2:E:1006:TRP:HE3	2:E:1009:MET:HG3	1.67	0.59
2:E:1321:SER:O	2:E:1345:ARG:NH2	2.35	0.59
2:E:1367:TYR:HE1	2:E:1398:LEU:HD23	1.67	0.59
2:E:1462:PHE:O	2:E:1489:TYR:N	2.33	0.59
2:E:1480:ALA:HA	2:E:1514:PRO:HB3	1.83	0.59
1:A:549:LYS:HE3	1:A:677:MET:HE3	1.85	0.59
1:A:617:VAL:HG21	1:A:623:PRO:HD3	1.84	0.59
2:B:467:GLU:OE2	2:B:534:ARG:NH1	2.35	0.59
2:B:1125:ILE:HG12	2:B:1172:LEU:HA	1.83	0.59
2:B:1466:ARG:NH1	3:C:31:GLU:OE2	2.35	0.59
1:D:585:VAL:HG12	1:D:607:LYS:HZ3	1.66	0.59
2:E:256:GLU:HG3	2:E:488:ALA:HB2	1.83	0.59
2:E:392:VAL:O	2:E:394:HIS:ND1	2.35	0.59
2:E:569:LEU:HD12	2:E:620:PHE:HD2	1.68	0.59
2:E:879:LEU:HG	2:E:931:ARG:NH2	2.17	0.59
2:B:34:THR:HB	2:B:50:LEU:HD12	1.83	0.59
2:B:99:ALA:HA	2:B:102:TRP:NE1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:879:LEU:HG	2:B:931:ARG:NH2	2.18	0.59
2:B:937:ASN:HA	2:B:940:VAL:HG12	1.84	0.59
2:B:1381:PHE:HB2	2:B:1383:TYR:HE1	1.66	0.59
1:D:580:SER:HB2	1:D:585:VAL:HG22	1.83	0.59
1:D:617:VAL:HG21	1:D:623:PRO:HD3	1.84	0.59
2:E:37:ILE:HD13	2:E:45:TYR:HB3	1.85	0.59
2:E:197:LYS:HA	2:E:200:GLU:HG2	1.84	0.59
2:E:470:MET:HG3	2:E:484:ILE:HD13	1.84	0.59
2:E:789:ASN:O	2:E:792:ARG:N	2.36	0.59
2:E:1183:HIS:CG	2:E:1184:LYS:H	2.21	0.59
2:E:1381:PHE:HB2	2:E:1383:TYR:HE1	1.66	0.59
1:A:693:GLU:HA	1:A:696:LEU:HG	1.85	0.59
2:B:100:VAL:HA	2:B:103:ARG:HG2	1.83	0.59
2:B:789:ASN:O	2:B:792:ARG:N	2.36	0.59
2:E:979:ARG:HD3	2:E:1039:GLU:OE2	2.01	0.59
2:E:1313:MET:HA	2:E:1453:TYR:OH	2.02	0.59
2:E:1390:ARG:NH1	3:F:26:ASN:OD1	2.36	0.59
1:A:711:PRO:CG	2:B:16:ILE:HG21	2.28	0.59
2:B:166:ARG:HH21	2:B:169:ASN:HD21	1.49	0.59
2:B:392:VAL:O	2:B:394:HIS:ND1	2.35	0.59
2:B:945:ARG:NH1	2:B:946:GLN:HB2	2.18	0.59
2:B:1238:ASP:OD1	2:B:1239:ILE:N	2.31	0.59
2:E:1438:PRO:HB2	2:E:1441:TYR:HB2	1.85	0.59
2:B:1256:ASN:HB3	2:B:1259:GLU:HB2	1.85	0.59
2:B:1468:PHE:CE2	2:B:1470:LYS:HB2	2.38	0.59
3:C:7:VAL:HG21	3:C:71:SER:HB3	1.83	0.59
2:E:1115:THR:HB	2:E:1120:LEU:HD11	1.85	0.59
2:E:1275:ASP:O	2:E:1292:THR:OG1	2.21	0.59
2:E:1336:GLU:H	2:E:1336:GLU:CD	2.11	0.59
2:E:1362:TYR:O	2:E:1431:VAL:N	2.32	0.59
2:E:1468:PHE:CE2	2:E:1470:LYS:HB2	2.38	0.59
1:A:576:TYR:O	1:A:588:TYR:HA	2.03	0.59
2:B:187:HIS:CD2	2:B:1009:MET:HG2	2.38	0.59
2:B:1270:LEU:O	2:B:1272:GLN:NE2	2.36	0.59
2:B:1467:PRO:HG2	3:C:31:GLU:O	2.03	0.59
2:E:181:ILE:HA	2:E:184:PHE:HB3	1.85	0.59
2:E:1217:LYS:HA	2:E:1220:ARG:CZ	2.33	0.59
2:B:958:ILE:HD12	2:B:1016:VAL:HG21	1.85	0.58
2:B:1459:VAL:HG23	2:B:1495:PHE:HB2	1.84	0.58
3:C:80:ILE:HD11	3:C:97:TRP:HB3	1.84	0.58
2:E:921:THR:HG23	2:E:925:ILE:HG13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:958:ILE:HD12	2:E:1016:VAL:HG21	1.85	0.58
2:E:1259:GLU:OE1	2:E:1259:GLU:N	2.35	0.58
2:B:36:HIS:O	2:B:48:TYR:N	2.35	0.58
2:B:757:LEU:HA	2:B:760:LEU:HG	1.84	0.58
2:B:1115:THR:HB	2:B:1120:LEU:HD11	1.85	0.58
2:B:181:ILE:HA	2:B:184:PHE:HB3	1.85	0.58
2:B:554:LEU:O	2:B:562:LEU:N	2.36	0.58
2:B:921:THR:HG23	2:B:925:ILE:HG13	1.84	0.58
2:B:1102:ILE:HD13	2:B:1135:GLU:HG3	1.85	0.58
2:B:1397:ARG:O	2:B:1401:GLN:N	2.35	0.58
2:B:1515:LEU:HG	2:B:1575:TYR:CE2	2.39	0.58
2:E:1262:TYR:O	2:E:1266:LEU:HG	2.03	0.58
2:E:1515:LEU:HG	2:E:1575:TYR:CE2	2.39	0.58
2:B:569:LEU:HD12	2:B:620:PHE:HD2	1.68	0.58
2:B:1059:LEU:HA	2:B:1062:GLU:HG2	1.84	0.58
2:B:1197:VAL:O	2:B:1200:LEU:HB3	2.03	0.58
2:B:1462:PHE:O	2:B:1489:TYR:N	2.33	0.58
2:E:180:THR:O	2:E:184:PHE:N	2.33	0.58
2:E:1265:LEU:O	2:E:1269:GLU:N	2.30	0.58
2:B:166:ARG:NH1	2:B:168:ASP:H	2.00	0.58
2:B:1438:PRO:HB2	2:B:1441:TYR:HB2	1.85	0.58
2:B:1539:ASP:OD1	2:B:1540:ARG:N	2.36	0.58
3:C:43:ASN:ND2	3:C:52:ASN:OD1	2.36	0.58
2:E:1357:ARG:NH2	2:E:1456:ALA:H	1.99	0.58
2:B:792:ARG:O	2:B:795:PHE:HB2	2.03	0.58
2:B:817:LEU:HB3	2:B:859:CYS:HB2	1.86	0.58
3:F:80:ILE:HD11	3:F:97:TRP:HB3	1.84	0.58
3:F:82:PHE:O	3:F:115:THR:N	2.24	0.58
2:B:1111:GLU:OE2	2:B:1163:ARG:NH2	2.32	0.58
2:B:1185:TYR:O	2:B:1188:SER:OG	2.18	0.58
2:B:1262:TYR:O	2:B:1266:LEU:HG	2.03	0.58
2:B:1526:ASN:O	2:B:1599:LEU:HD21	2.04	0.58
2:E:1470:LYS:HB3	2:E:1483:TRP:CD1	2.39	0.58
2:E:1485:GLU:OE1	2:E:1485:GLU:N	2.36	0.58
3:F:43:ASN:ND2	3:F:52:ASN:OD1	2.36	0.58
2:B:1259:GLU:HA	2:B:1262:TYR:HD2	1.68	0.58
2:B:1485:GLU:OE1	2:B:1485:GLU:N	2.36	0.58
2:E:522:VAL:HG23	2:E:554:LEU:HD13	1.85	0.58
2:E:1197:VAL:O	2:E:1200:LEU:HB3	2.03	0.58
2:B:1217:LYS:HA	2:B:1220:ARG:CZ	2.33	0.58
2:B:1470:LYS:HB3	2:B:1483:TRP:CD1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:81:ILE:HG21	2:E:141:LEU:HD21	1.85	0.58
2:E:189:VAL:HG13	2:E:193:ARG:NH1	2.19	0.58
2:E:450:LEU:HB3	2:E:620:PHE:HZ	1.69	0.58
2:E:945:ARG:NH1	2:E:946:GLN:HB2	2.18	0.58
2:E:1256:ASN:HB3	2:E:1259:GLU:HB2	1.85	0.58
2:E:1518:ALA:HA	2:E:1566:TYR:OH	2.04	0.58
2:E:1557:PRO:HA	3:F:36:VAL:CG1	2.33	0.58
2:B:189:VAL:HG13	2:B:193:ARG:NH1	2.19	0.58
2:B:430:LYS:NZ	2:B:433:PHE:O	2.28	0.58
2:B:450:LEU:HB3	2:B:620:PHE:HZ	1.69	0.58
1:D:711:PRO:HB2	2:E:63:TYR:CE1	2.39	0.58
2:E:187:HIS:CD2	2:E:1009:MET:HG2	2.38	0.58
2:E:1397:ARG:O	2:E:1401:GLN:N	2.35	0.58
2:B:1259:GLU:HA	2:B:1262:TYR:CD2	2.39	0.57
2:B:1272:GLN:C	2:B:1297:LYS:HD2	2.29	0.57
1:D:693:GLU:HA	1:D:696:LEU:HG	1.85	0.57
2:E:5:ILE:H	2:E:40:MET:N	1.95	0.57
2:E:1379:LYS:NZ	2:E:1504:VAL:O	2.36	0.57
3:F:90:PHE:CD1	3:F:137:ILE:HG12	2.40	0.57
2:B:939:THR:HG22	2:B:943:MET:HE2	1.86	0.57
2:B:1367:TYR:CE2	2:B:1402:PHE:HE2	2.21	0.57
1:D:576:TYR:O	1:D:588:TYR:HA	2.03	0.57
2:E:554:LEU:O	2:E:562:LEU:N	2.36	0.57
2:E:677:PHE:O	2:E:681:MET:HG2	2.04	0.57
2:E:874:CYS:HA	2:E:877:VAL:HG12	1.87	0.57
2:E:1539:ASP:OD1	2:E:1540:ARG:N	2.36	0.57
2:B:81:ILE:HG21	2:B:141:LEU:HD21	1.85	0.57
2:B:556:ASN:ND2	2:B:561:THR:O	2.37	0.57
2:B:643:TRP:CE2	2:B:679:ILE:HG13	2.40	0.57
2:B:1518:ALA:HA	2:B:1566:TYR:OH	2.04	0.57
2:E:939:THR:HG22	2:E:943:MET:HE2	1.86	0.57
1:A:594:SER:HB2	1:A:596:GLN:HE21	1.69	0.57
2:B:197:LYS:HA	2:B:200:GLU:HG2	1.84	0.57
2:B:303:VAL:HG22	2:B:319:ARG:HG2	1.86	0.57
2:B:1275:ASP:O	2:B:1292:THR:OG1	2.21	0.57
2:E:155:GLY:HA2	2:E:158:MET:HE3	1.87	0.57
2:E:520:GLU:O	2:E:523:THR:OG1	2.15	0.57
2:E:643:TRP:CE2	2:E:679:ILE:HG13	2.40	0.57
2:E:1359:GLN:HB3	2:E:1456:ALA:HB2	1.87	0.57
1:A:643:SER:HB3	1:A:651:GLN:HB3	1.85	0.57
2:B:990:PHE:HB3	2:B:1045:ASN:CG	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1256:ASN:HD21	2:B:1500:LYS:HE2	1.70	0.57
2:E:719:TYR:HA	2:E:723:HIS:CD2	2.40	0.57
2:B:37:ILE:HD13	2:B:45:TYR:HB3	1.85	0.57
2:B:677:PHE:O	2:B:681:MET:HG2	2.05	0.57
2:B:765:ARG:NE	2:B:826:ASP:OD1	2.36	0.57
2:B:910:LEU:HB3	2:B:963:GLN:HE22	1.70	0.57
2:B:1099:ILE:HG13	2:B:1134:CYS:HB3	1.87	0.57
2:B:1515:LEU:HD13	2:B:1585:LYS:HB2	1.87	0.57
2:E:166:ARG:NH2	2:E:168:ASP:HB2	2.20	0.57
2:E:792:ARG:O	2:E:795:PHE:HB2	2.03	0.57
2:E:1099:ILE:HG13	2:E:1134:CYS:HB3	1.86	0.57
2:E:1165:ASP:HB2	2:E:1167:GLN:HE22	1.69	0.57
2:E:1242:ARG:HG2	2:E:1246:LYS:NZ	2.20	0.57
3:C:161:THR:O	3:C:163:ARG:NH1	2.37	0.57
1:D:693:GLU:O	1:D:697:ARG:HG2	2.05	0.57
2:E:556:ASN:ND2	2:E:561:THR:O	2.37	0.57
2:E:1205:LEU:HA	2:E:1208:ARG:HH21	1.70	0.57
2:E:1367:TYR:CE2	2:E:1402:PHE:HE2	2.21	0.57
3:F:8:VAL:O	3:F:58:THR:OG1	2.23	0.57
1:A:568:ARG:NH2	1:A:634:ASN:OD1	2.38	0.57
2:B:155:GLY:HA2	2:B:158:MET:HE3	1.87	0.57
2:B:179:SER:OG	2:B:182:ALA:HB3	2.05	0.57
2:B:772:VAL:HA	2:B:775:LEU:HD12	1.86	0.57
2:B:838:VAL:HG12	2:B:877:VAL:HG21	1.87	0.57
2:B:1098:LYS:O	2:B:1102:ILE:HG13	2.05	0.57
2:B:1109:ILE:HA	2:B:1112:VAL:HG22	1.86	0.57
2:B:1242:ARG:HG2	2:B:1246:LYS:NZ	2.20	0.57
2:B:1284:GLN:NE2	2:B:1287:SER:O	2.37	0.57
3:C:7:VAL:HG23	3:C:75:THR:HG21	1.86	0.57
3:C:90:PHE:CD1	3:C:137:ILE:HG12	2.39	0.57
2:E:727:THR:HA	2:E:773:LEU:HD22	1.87	0.57
2:E:1102:ILE:HD13	2:E:1135:GLU:HG3	1.85	0.57
2:B:522:VAL:HG23	2:B:554:LEU:HD13	1.85	0.57
2:B:719:TYR:HA	2:B:723:HIS:CD2	2.40	0.57
2:B:1259:GLU:OE1	2:B:1259:GLU:N	2.35	0.57
2:E:772:VAL:HA	2:E:775:LEU:HD12	1.87	0.57
2:E:1259:GLU:HA	2:E:1262:TYR:HD2	1.68	0.57
2:E:1259:GLU:HA	2:E:1262:TYR:CD2	2.39	0.57
2:E:1335:TYR:HA	2:E:1338:LEU:HD23	1.86	0.57
3:F:161:THR:O	3:F:163:ARG:NH1	2.37	0.57
2:E:1526:ASN:O	2:E:1599:LEU:HD21	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:7:VAL:HG23	3:F:75:THR:HG21	1.86	0.57
3:F:8:VAL:HG22	3:F:79:LEU:HD12	1.87	0.57
1:A:541:GLN:O	1:A:544:ILE:HG22	2.04	0.56
2:B:874:CYS:HA	2:B:877:VAL:HG12	1.86	0.56
1:D:568:ARG:NH2	1:D:634:ASN:OD1	2.38	0.56
2:E:1109:ILE:HA	2:E:1112:VAL:HG22	1.86	0.56
2:E:1284:GLN:NE2	2:E:1287:SER:O	2.37	0.56
2:B:727:THR:HA	2:B:773:LEU:HD22	1.87	0.56
2:B:1362:TYR:O	2:B:1431:VAL:N	2.32	0.56
2:B:1388:TYR:CE2	3:C:50:PRO:HG3	2.40	0.56
2:E:73:ASP:O	2:E:79:THR:N	2.38	0.56
2:E:760:LEU:HD12	2:E:819:TYR:HB2	1.87	0.56
2:E:817:LEU:HB3	2:E:859:CYS:HB2	1.86	0.56
2:E:990:PHE:HB3	2:E:1045:ASN:CG	2.30	0.56
2:E:1034:ASP:OD1	2:E:1097:HIS:NE2	2.38	0.56
2:E:1452:ASN:OD1	2:E:1453:TYR:N	2.38	0.56
2:B:73:ASP:O	2:B:79:THR:N	2.38	0.56
2:B:143:GLU:O	2:B:147:LYS:HG2	2.05	0.56
2:B:182:ALA:HA	2:B:185:LYS:HZ3	1.67	0.56
2:B:772:VAL:HG13	2:B:776:ARG:HH12	1.71	0.56
2:B:1207:TYR:O	2:B:1211:ILE:HG12	2.05	0.56
2:B:1235:LYS:O	2:B:1237:GLU:N	2.39	0.56
2:B:1359:GLN:HB3	2:B:1456:ALA:HB2	1.87	0.56
2:B:1452:ASN:OD1	2:B:1453:TYR:N	2.38	0.56
1:D:549:LYS:HE3	1:D:677:MET:HE3	1.85	0.56
2:E:59:PHE:HD2	2:E:64:ILE:HG12	1.70	0.56
2:E:843:PHE:O	2:E:846:SER:OG	2.19	0.56
2:E:903:SER:HB3	2:E:953:PHE:CE2	2.40	0.56
2:E:1207:TYR:O	2:E:1211:ILE:HG12	2.06	0.56
2:E:1240:TYR:O	2:E:1244:LEU:HG	2.05	0.56
2:E:1391:ARG:HG3	2:E:1429:PHE:HA	1.87	0.56
2:B:1034:ASP:OD1	2:B:1097:HIS:NE2	2.38	0.56
2:B:1088:ARG:HG3	2:B:1127:ILE:HD11	1.87	0.56
2:B:1325:ALA:HB2	2:B:1341:LEU:HD23	1.87	0.56
2:B:1448:GLU:OE1	2:B:1452:ASN:ND2	2.38	0.56
3:C:8:VAL:HG22	3:C:79:LEU:HD12	1.87	0.56
2:E:772:VAL:HG13	2:E:776:ARG:HH12	1.71	0.56
2:E:1408:MET:N	2:E:1426:MET:O	2.33	0.56
2:E:1525:THR:HA	2:E:1528:ARG:NH2	2.21	0.56
2:B:19:TYR:CG	2:B:59:PHE:HE1	2.24	0.56
2:B:208:LEU:HA	2:B:211:ARG:HD3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1167:GLN:O	2:B:1171:LEU:HG	2.05	0.56
1:D:541:GLN:O	1:D:544:ILE:HG22	2.04	0.56
1:D:586:LEU:HB2	1:D:608:LEU:HB3	1.88	0.56
1:D:594:SER:HB2	1:D:596:GLN:HE21	1.69	0.56
2:E:196:GLU:O	2:E:200:GLU:HB3	2.05	0.56
2:E:1072:ILE:O	2:E:1076:TYR:N	2.37	0.56
2:E:1098:LYS:O	2:E:1102:ILE:HG13	2.05	0.56
2:E:1325:ALA:HB2	2:E:1341:LEU:HD23	1.87	0.56
1:A:714:PRO:HG3	2:B:60:PRO:HB3	1.88	0.56
2:B:1165:ASP:HB2	2:B:1167:GLN:HE22	1.69	0.56
2:E:303:VAL:HG22	2:E:319:ARG:HG2	1.86	0.56
2:E:838:VAL:HG12	2:E:877:VAL:HG21	1.87	0.56
2:E:1178:GLU:HA	2:E:1181:ARG:HD3	1.88	0.56
2:E:1270:LEU:O	2:E:1272:GLN:NE2	2.36	0.56
1:A:580:SER:HB2	1:A:585:VAL:H	1.71	0.56
1:A:596:GLN:NE2	1:A:597:GLY:O	2.39	0.56
2:B:1178:GLU:HA	2:B:1181:ARG:HD3	1.88	0.56
2:B:1240:TYR:O	2:B:1244:LEU:HG	2.05	0.56
1:D:708:ASP:OD1	1:D:708:ASP:N	2.39	0.56
1:D:711:PRO:HB2	2:E:63:TYR:HE1	1.70	0.56
2:E:143:GLU:O	2:E:147:LYS:HG2	2.05	0.56
2:E:910:LEU:HB3	2:E:963:GLN:HE22	1.70	0.56
3:F:27:ALA:O	3:F:162:GLN:NE2	2.38	0.56
1:A:677:MET:CB	1:A:682:THR:HG21	2.36	0.56
2:B:899:HIS:CD2	2:B:943:MET:HG2	2.41	0.56
2:B:1205:LEU:HA	2:B:1208:ARG:HH21	1.70	0.56
2:B:1357:ARG:NH2	2:B:1456:ALA:H	1.99	0.56
3:C:27:ALA:O	3:C:162:GLN:NE2	2.38	0.56
1:D:677:MET:CB	1:D:682:THR:HG21	2.36	0.56
2:E:484:ILE:O	2:E:493:ILE:N	2.39	0.56
2:E:1167:GLN:O	2:E:1171:LEU:HG	2.05	0.56
2:E:1484:ILE:H	2:E:1512:ILE:HB	1.71	0.56
2:E:1515:LEU:HD13	2:E:1585:LYS:HB2	1.87	0.56
2:B:166:ARG:NH2	2:B:168:ASP:HB2	2.20	0.56
2:B:261:ARG:HD3	2:B:269:LYS:HD3	1.88	0.56
1:D:711:PRO:HG2	2:E:16:ILE:HD13	1.88	0.56
2:E:208:LEU:HA	2:E:211:ARG:HD3	1.86	0.56
2:E:473:HIS:HB2	2:E:526:HIS:CE1	2.41	0.56
2:E:979:ARG:NH2	2:E:1031:PHE:O	2.39	0.56
2:B:484:ILE:O	2:B:493:ILE:N	2.39	0.56
2:B:818:LYS:HZ3	2:B:858:ASN:HB3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:903:SER:HB3	2:B:953:PHE:CE2	2.40	0.56
2:B:970:SER:O	2:B:974:SER:OG	2.15	0.56
2:B:1041:GLN:NE2	2:B:1044:ASN:OD1	2.39	0.56
2:B:1072:ILE:O	2:B:1076:TYR:N	2.37	0.56
2:E:1041:GLN:NE2	2:E:1044:ASN:OD1	2.39	0.56
2:E:1256:ASN:HD21	2:E:1500:LYS:HE2	1.70	0.56
2:E:1272:GLN:C	2:E:1297:LYS:HD2	2.29	0.56
1:A:562:PHE:CE1	1:A:577:CYS:HB3	2.41	0.55
1:A:693:GLU:O	1:A:697:ARG:HG2	2.05	0.55
2:B:933:LEU:H	2:B:935:ARG:HH21	1.53	0.55
2:B:979:ARG:NH2	2:B:1031:PHE:O	2.39	0.55
2:B:1441:TYR:CD2	2:B:1450:ILE:HG21	2.41	0.55
2:B:1484:ILE:H	2:B:1512:ILE:HB	1.71	0.55
2:B:1525:THR:HA	2:B:1528:ARG:NH2	2.21	0.55
3:C:137:ILE:HG23	3:C:141:GLN:HB2	1.88	0.55
2:E:761:LYS:O	2:E:765:ARG:HG2	2.06	0.55
2:E:1615:LEU:O	2:E:1619:HIS:N	2.29	0.55
2:B:273:LYS:HD3	2:B:277:LEU:HD23	1.88	0.55
2:B:760:LEU:HD12	2:B:819:TYR:HB2	1.87	0.55
2:B:828:LYS:NZ	2:B:867:THR:HA	2.21	0.55
2:B:855:GLN:OE1	2:B:855:GLN:N	2.39	0.55
2:B:1045:ASN:O	2:B:1049:LEU:HB3	2.06	0.55
2:B:1335:TYR:HA	2:B:1338:LEU:HD23	1.86	0.55
2:B:1379:LYS:NZ	2:B:1504:VAL:O	2.36	0.55
2:B:1391:ARG:HG3	2:B:1429:PHE:HA	1.87	0.55
1:D:596:GLN:NE2	1:D:597:GLY:O	2.39	0.55
2:E:828:LYS:NZ	2:E:867:THR:HA	2.21	0.55
2:E:1029:THR:HA	2:E:1033:MET:HB2	1.87	0.55
2:E:1235:LYS:O	2:E:1237:GLU:N	2.39	0.55
2:E:1441:TYR:CD2	2:E:1450:ILE:HG21	2.41	0.55
2:B:59:PHE:HD2	2:B:64:ILE:HG12	1.70	0.55
2:B:196:GLU:O	2:B:200:GLU:HB3	2.05	0.55
2:B:825:ASN:ND2	2:B:866:SER:HB2	2.22	0.55
2:B:896:LYS:CG	2:B:897:PRO:HD3	2.35	0.55
2:B:1198:SER:HA	2:B:1201:LEU:HD12	1.89	0.55
2:B:1340:ASN:OD1	2:B:1341:LEU:N	2.40	0.55
1:D:578:ARG:HB2	1:D:598:GLU:OE1	2.07	0.55
1:D:580:SER:HB2	1:D:585:VAL:H	1.71	0.55
2:E:435:GLU:HA	2:E:708:LYS:NZ	2.21	0.55
2:E:1467:PRO:HG2	3:F:31:GLU:O	2.07	0.55
2:B:761:LYS:O	2:B:765:ARG:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:126:ILE:HD12	3:C:136:PRO:HB3	1.88	0.55
2:E:273:LYS:HD3	2:E:277:LEU:HD23	1.88	0.55
2:E:1340:ASN:OD1	2:E:1341:LEU:N	2.40	0.55
2:E:1571:PHE:CE2	2:E:1590:LYS:HG3	2.42	0.55
3:F:137:ILE:HG23	3:F:141:GLN:HB2	1.88	0.55
2:B:156:ASN:O	2:B:160:GLY:N	2.40	0.55
2:E:19:TYR:CG	2:E:59:PHE:HE1	2.24	0.55
2:B:17:TYR:OH	2:B:20:ASN:OD1	2.23	0.55
2:B:473:HIS:HB2	2:B:526:HIS:CE1	2.41	0.55
2:B:1336:GLU:H	2:B:1336:GLU:CD	2.11	0.55
1:D:557:VAL:HA	1:D:579:LEU:HB3	1.89	0.55
2:E:17:TYR:OH	2:E:20:ASN:OD1	2.23	0.55
2:E:156:ASN:O	2:E:160:GLY:N	2.40	0.55
2:E:1045:ASN:O	2:E:1049:LEU:HB3	2.06	0.55
2:E:1159:VAL:O	2:E:1208:ARG:NH1	2.40	0.55
2:E:1328:TYR:HB3	2:E:1338:LEU:CD2	2.37	0.55
2:E:1460:GLN:O	2:E:1491:THR:N	2.39	0.55
3:F:126:ILE:HD12	3:F:136:PRO:HB3	1.88	0.55
1:A:669:LEU:HA	1:A:672:LEU:HD12	1.89	0.55
2:B:306:MET:HE1	2:B:500:VAL:HG12	1.88	0.55
2:B:746:ASP:O	2:B:750:THR:OG1	2.10	0.55
2:B:856:LYS:HD2	2:B:857:LEU:HD23	1.89	0.55
2:B:965:ASP:OD1	2:B:966:ASP:N	2.40	0.55
2:B:1601:THR:HG22	2:B:1605:ARG:NE	2.21	0.55
2:E:179:SER:OG	2:E:182:ALA:HB3	2.05	0.55
2:E:839:LEU:HG	2:E:842:LYS:HZ2	1.72	0.55
2:E:1028:LEU:HD23	2:E:1032:PHE:CD1	2.42	0.55
2:E:1328:TYR:HA	2:E:1332:VAL:HG12	1.89	0.55
2:E:1601:THR:HG22	2:E:1605:ARG:NE	2.21	0.55
1:A:557:VAL:HA	1:A:579:LEU:HB3	1.89	0.55
2:B:435:GLU:HA	2:B:708:LYS:NZ	2.21	0.55
2:B:1029:THR:HA	2:B:1033:MET:HB2	1.87	0.55
2:B:1109:ILE:HG23	2:B:1128:PHE:HE1	1.72	0.55
2:B:1345:ARG:HA	2:B:1348:PHE:CD2	2.42	0.55
2:E:48:TYR:HB3	2:E:53:LYS:HD2	1.88	0.55
2:E:90:GLU:O	2:E:94:THR:OG1	2.13	0.55
2:E:1012:THR:HA	2:E:1015:ARG:NH1	2.21	0.55
2:E:1043:TRP:CD1	2:E:1094:LEU:HD21	2.42	0.55
2:E:1448:GLU:OE1	2:E:1452:ASN:ND2	2.38	0.55
2:B:76:GLN:NE2	2:B:78:GLU:OE1	2.36	0.55
2:B:958:ILE:HB	2:B:1016:VAL:HG21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1506:GLN:NE2	2:B:1507:ILE:O	2.40	0.55
1:D:562:PHE:CE1	1:D:577:CYS:HB3	2.41	0.55
2:E:45:TYR:O	2:E:59:PHE:N	2.31	0.55
2:E:714:PRO:HA	2:E:717:GLU:HG2	1.89	0.55
2:E:1483:TRP:CZ2	2:E:1514:PRO:HD3	2.42	0.55
2:B:19:TYR:O	2:B:28:SER:HA	2.07	0.55
2:B:1251:HIS:O	2:B:1255:GLU:N	2.39	0.55
2:B:1458:GLU:N	2:B:1495:PHE:O	2.40	0.55
2:B:1615:LEU:HA	2:B:1618:LEU:HB2	1.89	0.55
2:E:1088:ARG:HG3	2:E:1127:ILE:HD11	1.88	0.55
2:E:1458:GLU:N	2:E:1495:PHE:O	2.40	0.55
3:F:83:SER:HB3	3:F:86:SER:HB3	1.89	0.55
2:B:562:LEU:O	2:B:633:GLN:NE2	2.40	0.54
2:B:843:PHE:O	2:B:846:SER:OG	2.19	0.54
2:B:1159:VAL:O	2:B:1208:ARG:NH1	2.40	0.54
2:B:1362:TYR:C	2:B:1431:VAL:HG22	2.32	0.54
2:E:283:ASP:HB2	2:E:430:LYS:HB3	1.89	0.54
2:E:1251:HIS:O	2:E:1255:GLU:N	2.39	0.54
2:E:1506:GLN:NE2	2:E:1507:ILE:O	2.40	0.54
2:B:48:TYR:HB3	2:B:53:LYS:HD2	1.88	0.54
2:B:958:ILE:HA	2:B:961:LEU:HD12	1.89	0.54
2:B:1328:TYR:HA	2:B:1332:VAL:HG12	1.89	0.54
2:B:1571:PHE:CE2	2:B:1590:LYS:HG3	2.42	0.54
3:C:83:SER:HB3	3:C:86:SER:HB3	1.89	0.54
3:C:85:VAL:HG11	3:C:119:LEU:HB2	1.89	0.54
2:E:832:ASP:OD2	2:E:835:GLU:N	2.24	0.54
2:E:1216:SER:O	2:E:1220:ARG:NH1	2.41	0.54
1:A:586:LEU:HB2	1:A:608:LEU:HB3	1.88	0.54
2:B:105:LEU:HD13	2:B:110:LYS:NZ	2.22	0.54
2:B:832:ASP:OD2	2:B:835:GLU:N	2.24	0.54
2:B:880:PRO:HA	2:B:931:ARG:HH12	1.73	0.54
1:D:669:LEU:HA	1:D:672:LEU:HD12	1.89	0.54
2:E:306:MET:HE1	2:E:500:VAL:HG12	1.88	0.54
2:E:958:ILE:HA	2:E:961:LEU:HD12	1.89	0.54
3:F:68:ARG:HG3	3:F:72:TYR:CE1	2.43	0.54
2:B:1535:GLN:HE22	2:B:1542:LEU:HD21	1.71	0.54
2:E:76:GLN:NE2	2:E:78:GLU:OE1	2.36	0.54
2:E:261:ARG:HD3	2:E:269:LYS:HD3	1.88	0.54
2:E:795:PHE:CD1	2:E:839:LEU:HB3	2.43	0.54
2:E:825:ASN:ND2	2:E:866:SER:HB2	2.22	0.54
2:E:899:HIS:CD2	2:E:943:MET:HG2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:958:ILE:HB	2:E:1016:VAL:HG21	1.89	0.54
2:E:1418:ILE:HA	2:E:1421:SER:HB3	1.89	0.54
2:E:1615:LEU:HA	2:E:1618:LEU:HB2	1.89	0.54
1:A:708:ASP:N	1:A:708:ASP:OD1	2.39	0.54
2:B:97:GLU:OE2	2:B:1065:SER:HB2	2.08	0.54
2:B:1216:SER:O	2:B:1220:ARG:NH1	2.41	0.54
2:E:562:LEU:O	2:E:633:GLN:NE2	2.40	0.54
2:E:677:PHE:CD1	2:E:680:MET:HE2	2.41	0.54
2:E:1109:ILE:HG23	2:E:1128:PHE:HE1	1.72	0.54
2:E:1111:GLU:OE2	2:E:1163:ARG:NH2	2.32	0.54
2:B:1165:ASP:O	2:B:1168:TYR:HB3	2.08	0.54
2:B:1409:THR:HA	3:C:28:PHE:HZ	1.72	0.54
2:B:1557:PRO:HB2	2:B:1561:GLY:CA	2.36	0.54
2:E:933:LEU:H	2:E:935:ARG:HH21	1.54	0.54
2:B:732:LYS:O	2:B:736:VAL:HG23	2.08	0.54
2:B:1012:THR:HA	2:B:1015:ARG:NH1	2.21	0.54
2:B:1328:TYR:HB3	2:B:1338:LEU:CD2	2.37	0.54
3:C:153:LYS:NZ	3:C:154:TYR:O	2.37	0.54
2:E:473:HIS:ND1	2:E:477:GLY:O	2.41	0.54
2:E:896:LYS:CG	2:E:897:PRO:HD3	2.36	0.54
2:E:965:ASP:OD1	2:E:966:ASP:N	2.40	0.54
2:E:1217:LYS:HD3	2:E:1220:ARG:NH1	2.22	0.54
2:E:1535:GLN:HE22	2:E:1542:LEU:HD21	1.71	0.54
2:E:1593:ILE:HA	2:E:1596:GLN:HB3	1.90	0.54
1:A:578:ARG:HB2	1:A:598:GLU:OE1	2.07	0.54
2:B:1242:ARG:HG2	2:B:1246:LYS:HZ1	1.73	0.54
2:E:93:SER:O	2:E:96:ARG:HB3	2.08	0.54
2:E:105:LEU:HD13	2:E:110:LYS:NZ	2.22	0.54
2:E:940:VAL:HG13	2:E:992:MET:CE	2.37	0.54
2:E:1623:SER:HA	2:E:1627:ARG:NH1	2.23	0.54
2:B:283:ASP:HB2	2:B:430:LYS:HB3	1.89	0.54
2:B:899:HIS:HB3	2:B:949:HIS:NE2	2.23	0.54
2:B:940:VAL:HG13	2:B:992:MET:CE	2.37	0.54
2:B:1028:LEU:HD23	2:B:1032:PHE:CD1	2.42	0.54
2:B:1065:SER:OG	2:B:1068:LYS:HB2	2.08	0.54
2:B:1362:TYR:OH	2:B:1456:ALA:O	2.20	0.54
3:C:68:ARG:HG3	3:C:72:TYR:CE1	2.43	0.54
2:E:97:GLU:OE2	2:E:1065:SER:HB2	2.08	0.54
2:E:662:GLY:HA2	2:E:665:ILE:HB	1.90	0.54
2:E:855:GLN:OE1	2:E:855:GLN:N	2.39	0.54
2:E:1212:MET:HA	2:E:1215:GLU:OE2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:85:VAL:HG11	3:F:119:LEU:HB2	1.89	0.54
2:B:570:VAL:HA	2:B:592:LYS:HZ2	1.72	0.54
2:B:1460:GLN:O	2:B:1491:THR:N	2.39	0.54
2:B:1483:TRP:CZ2	2:B:1514:PRO:HD3	2.42	0.54
2:E:19:TYR:HB3	2:E:29:LEU:H	1.73	0.54
2:E:1065:SER:OG	2:E:1068:LYS:HB2	2.08	0.54
2:E:1198:SER:HA	2:E:1201:LEU:HD12	1.88	0.54
2:E:1345:ARG:HA	2:E:1348:PHE:CD2	2.42	0.54
2:B:561:THR:HB	2:B:631:LEU:HD22	1.90	0.53
2:B:938:ARG:O	2:B:941:ILE:HB	2.09	0.53
2:B:1043:TRP:CD1	2:B:1094:LEU:HD21	2.42	0.53
2:B:1449:GLN:HA	2:B:1452:ASN:ND2	2.24	0.53
2:E:19:TYR:O	2:E:28:SER:HA	2.07	0.53
2:E:23:GLN:HG2	2:E:58:ILE:HD13	1.89	0.53
2:E:649:ASN:OD1	2:E:652:HIS:HB3	2.08	0.53
2:E:732:LYS:O	2:E:736:VAL:HG23	2.08	0.53
1:A:624:HIS:NE2	1:A:625:MET:HE2	2.23	0.53
2:B:4:TRP:CZ3	2:B:46:ARG:HG2	2.43	0.53
2:B:23:GLN:HG2	2:B:58:ILE:HD13	1.89	0.53
2:B:649:ASN:OD1	2:B:652:HIS:HB3	2.08	0.53
2:B:662:GLY:HA2	2:B:665:ILE:HB	1.90	0.53
2:B:714:PRO:HA	2:B:717:GLU:HG2	1.89	0.53
2:B:934:ARG:HB3	2:B:935:ARG:NH1	2.24	0.53
2:B:1418:ILE:HA	2:B:1421:SER:HB3	1.90	0.53
3:C:6:CYS:SG	3:C:79:LEU:HG	2.48	0.53
1:D:618:THR:HB	1:D:662:TYR:OH	2.08	0.53
1:D:670:ASN:O	1:D:674:GLY:N	2.41	0.53
2:E:856:LYS:HD2	2:E:857:LEU:HD23	1.89	0.53
2:E:992:MET:O	2:E:996:LEU:HD23	2.08	0.53
2:E:1363:PHE:O	2:E:1383:TYR:N	2.31	0.53
2:E:1579:HIS:O	2:E:1583:GLN:NE2	2.37	0.53
2:B:1091:TRP:CH2	2:B:1131:MET:HB3	2.44	0.53
2:B:1623:SER:HA	2:B:1627:ARG:NH1	2.23	0.53
2:E:4:TRP:CZ3	2:E:46:ARG:HG2	2.42	0.53
2:E:122:TYR:HA	2:E:125:ILE:HG12	1.91	0.53
2:E:899:HIS:HB3	2:E:949:HIS:NE2	2.23	0.53
2:E:1593:ILE:HB	2:E:1597:MET:HE1	1.91	0.53
2:B:1395:SER:O	2:B:1399:LEU:HG	2.09	0.53
2:B:1463:ARG:HH21	2:B:1484:ILE:HG21	1.73	0.53
2:B:1518:ALA:HB2	2:B:1570:PHE:CE2	2.44	0.53
1:D:624:HIS:NE2	1:D:625:MET:HE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:704:ILE:HD11	2:E:65:HIS:CG	2.43	0.53
2:E:46:ARG:HA	2:E:57:GLY:O	2.09	0.53
2:E:820:LEU:O	2:E:823:ILE:HG12	2.09	0.53
2:E:1006:TRP:CD1	2:E:1006:TRP:N	2.77	0.53
2:E:1368:TYR:HB2	2:E:1408:MET:HE1	1.90	0.53
3:F:142:GLY:HA3	3:F:154:TYR:CZ	2.44	0.53
2:B:473:HIS:ND1	2:B:477:GLY:O	2.41	0.53
2:B:795:PHE:CD1	2:B:839:LEU:HB3	2.43	0.53
2:B:824:ILE:O	2:B:828:LYS:HG2	2.09	0.53
2:B:831:PHE:HD2	2:B:836:LEU:HB2	1.74	0.53
2:B:886:LEU:HD13	2:B:932:LEU:HD23	1.90	0.53
2:B:1228:LEU:HD13	2:B:1244:LEU:HD23	1.90	0.53
2:B:1368:TYR:HB2	2:B:1408:MET:HE1	1.90	0.53
2:E:938:ARG:O	2:E:941:ILE:HB	2.09	0.53
2:E:1228:LEU:HD13	2:E:1244:LEU:HD23	1.90	0.53
2:E:1399:LEU:HD13	2:E:1405:ALA:HB1	1.90	0.53
2:E:1632:LYS:O	2:E:1636:HIS:N	2.41	0.53
3:F:69:PRO:HA	3:F:72:TYR:HD1	1.74	0.53
2:B:929:MET:HA	2:B:933:LEU:CD1	2.29	0.53
2:B:1212:MET:HA	2:B:1215:GLU:OE2	2.08	0.53
2:E:7:THR:O	2:E:10:GLN:NE2	2.42	0.53
2:E:281:PHE:HD1	2:E:428:ALA:HB3	1.74	0.53
2:E:886:LEU:HD13	2:E:932:LEU:HD23	1.90	0.53
2:E:1362:TYR:C	2:E:1431:VAL:HG22	2.32	0.53
2:E:1626:PHE:HD2	2:E:1627:ARG:HD2	1.74	0.53
3:F:6:CYS:SG	3:F:79:LEU:HG	2.48	0.53
1:A:670:ASN:O	1:A:674:GLY:N	2.41	0.53
2:B:296:LEU:HD23	2:B:346:ILE:HD11	1.90	0.53
2:B:820:LEU:O	2:B:823:ILE:HG12	2.09	0.53
3:C:69:PRO:HA	3:C:72:TYR:HD1	1.74	0.53
2:E:730:TYR:CD1	2:E:771:ARG:HD3	2.44	0.53
2:E:929:MET:HA	2:E:933:LEU:CD1	2.29	0.53
2:E:1185:TYR:O	2:E:1188:SER:OG	2.18	0.53
2:E:1348:PHE:O	2:E:1352:ILE:HG12	2.09	0.53
3:F:72:TYR:CE2	3:F:101:VAL:HG22	2.44	0.53
1:A:618:THR:HB	1:A:662:TYR:OH	2.08	0.53
2:B:19:TYR:HB3	2:B:29:LEU:H	1.73	0.53
2:B:46:ARG:HA	2:B:57:GLY:O	2.09	0.53
2:B:90:GLU:O	2:B:94:THR:OG1	2.13	0.53
2:B:320:ARG:NH1	2:B:375:GLU:OE1	2.42	0.53
2:B:992:MET:O	2:B:996:LEU:HD23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1391:ARG:NH2	2:B:1392:GLU:OE2	2.42	0.53
2:B:1399:LEU:HD13	2:B:1405:ALA:HB1	1.89	0.53
2:E:102:TRP:HA	2:E:105:LEU:HG	1.90	0.53
2:E:880:PRO:HA	2:E:931:ARG:HH12	1.73	0.53
2:E:945:ARG:HH12	2:E:946:GLN:HB2	1.73	0.53
2:B:73:ASP:O	2:B:78:GLU:N	2.42	0.53
2:B:122:TYR:HA	2:B:125:ILE:HG12	1.90	0.53
2:B:1321:SER:OG	2:B:1345:ARG:NH2	2.42	0.53
2:B:1495:PHE:CE1	2:B:1502:PHE:HD2	2.26	0.53
2:B:1601:THR:C	2:B:1605:ARG:HE	2.15	0.53
3:C:66:ARG:NH1	3:C:67:LEU:HB2	2.24	0.53
2:E:881:LEU:O	2:E:884:ASP:HB2	2.09	0.53
2:E:997:ILE:HG21	2:E:1053:PHE:HB2	1.90	0.53
1:A:536:LEU:HA	1:A:539:LYS:HE3	1.91	0.53
2:B:93:SER:O	2:B:96:ARG:HB3	2.08	0.53
2:B:243:MET:HG3	2:B:281:PHE:CZ	2.44	0.53
2:B:294:VAL:HG11	2:B:333:ILE:HD12	1.91	0.53
2:B:1006:TRP:N	2:B:1006:TRP:CD1	2.77	0.53
2:B:1203:ASN:O	2:B:1207:TYR:HB3	2.09	0.53
2:B:1407:LYS:HA	2:B:1426:MET:H	1.74	0.53
2:B:1545:HIS:O	2:B:1548:SER:OG	2.21	0.53
3:C:68:ARG:HG2	3:C:69:PRO:HD3	1.91	0.53
2:E:189:VAL:HA	2:E:192:LYS:HE2	1.91	0.53
2:E:222:TYR:CZ	2:E:289:LEU:HD11	2.44	0.53
2:E:561:THR:HB	2:E:631:LEU:HD22	1.90	0.53
2:E:765:ARG:NE	2:E:826:ASP:OD1	2.35	0.53
2:E:1091:TRP:CH2	2:E:1131:MET:HB3	2.44	0.53
2:E:1386:LYS:H	2:E:1389:GLU:HG3	1.74	0.53
2:E:1398:LEU:HA	2:E:1401:GLN:HB3	1.91	0.53
2:E:1518:ALA:HB2	2:E:1570:PHE:CE2	2.44	0.53
2:B:730:TYR:CZ	2:B:731:VAL:HG23	2.43	0.52
2:B:789:ASN:HA	2:B:792:ARG:HD2	1.91	0.52
2:B:881:LEU:O	2:B:884:ASP:HB2	2.09	0.52
2:B:1593:ILE:HB	2:B:1597:MET:HE1	1.91	0.52
2:B:1600:LEU:O	2:B:1604:ILE:HG12	2.09	0.52
2:E:14:VAL:HB	2:E:65:HIS:HB3	1.91	0.52
2:E:1391:ARG:NH2	2:E:1392:GLU:OE2	2.42	0.52
2:E:1407:LYS:HA	2:E:1426:MET:H	1.74	0.52
1:A:576:TYR:HE1	1:A:591:LEU:HG	1.75	0.52
2:B:30:GLN:NE2	2:B:32:GLY:H	2.08	0.52
2:B:102:TRP:HA	2:B:105:LEU:HG	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:281:PHE:HD1	2:B:428:ALA:HB3	1.74	0.52
2:B:839:LEU:HG	2:B:842:LYS:HZ2	1.74	0.52
2:B:945:ARG:HH12	2:B:946:GLN:HB2	1.74	0.52
2:B:997:ILE:HG21	2:B:1053:PHE:HB2	1.90	0.52
2:B:1027:VAL:HG22	2:B:1032:PHE:CE1	2.44	0.52
2:B:1207:TYR:HD2	2:B:1208:ARG:HG3	1.74	0.52
2:B:1348:PHE:O	2:B:1352:ILE:HG12	2.09	0.52
2:B:1404:ASN:HB2	2:B:1406:GLU:OE2	2.09	0.52
2:B:1626:PHE:CD2	2:B:1627:ARG:HD2	2.45	0.52
1:D:536:LEU:HD21	2:E:17:TYR:HA	1.91	0.52
1:D:584:LYS:NZ	2:E:1399:LEU:O	2.42	0.52
2:E:46:ARG:HD2	2:E:58:ILE:HG13	1.91	0.52
2:E:99:ALA:HA	2:E:102:TRP:HE1	1.75	0.52
2:E:296:LEU:HD23	2:E:346:ILE:HD11	1.90	0.52
2:E:320:ARG:NH1	2:E:375:GLU:OE1	2.42	0.52
2:E:533:HIS:CE1	2:E:535:SER:HB3	2.44	0.52
2:E:730:TYR:CZ	2:E:731:VAL:HG23	2.43	0.52
2:E:1165:ASP:O	2:E:1168:TYR:HB3	2.08	0.52
2:E:1233:GLU:O	2:E:1235:LYS:NZ	2.22	0.52
2:E:1370:GLN:N	2:E:1421:SER:O	2.40	0.52
2:E:1395:SER:O	2:E:1399:LEU:HG	2.09	0.52
2:E:1545:HIS:O	2:E:1548:SER:OG	2.21	0.52
2:B:1363:PHE:O	2:B:1383:TYR:N	2.30	0.52
2:B:1386:LYS:H	2:B:1389:GLU:HG3	1.74	0.52
2:B:1626:PHE:HD2	2:B:1627:ARG:HD2	1.74	0.52
3:C:8:VAL:O	3:C:58:THR:OG1	2.23	0.52
2:E:528:ARG:HA	2:E:551:PHE:HA	1.92	0.52
2:E:831:PHE:HD2	2:E:836:LEU:HB2	1.74	0.52
2:E:1027:VAL:HG22	2:E:1032:PHE:CE1	2.44	0.52
2:E:1203:ASN:O	2:E:1207:TYR:HB3	2.09	0.52
2:E:1242:ARG:HG2	2:E:1246:LYS:HZ1	1.74	0.52
2:E:1463:ARG:HH21	2:E:1484:ILE:HG21	1.73	0.52
2:E:1521:THR:O	2:E:1524:LEU:HG	2.09	0.52
2:E:1522:MET:HG3	2:E:1566:TYR:HE2	1.75	0.52
3:F:68:ARG:HG2	3:F:69:PRO:HD3	1.91	0.52
1:A:544:ILE:O	1:A:547:LEU:HG	2.09	0.52
2:B:44:TRP:CE3	2:B:58:ILE:HG22	2.45	0.52
2:B:871:GLN:HG2	2:B:875:ARG:HD3	1.91	0.52
2:B:1398:LEU:HA	2:B:1401:GLN:HB3	1.92	0.52
3:C:72:TYR:CE2	3:C:101:VAL:HG22	2.44	0.52
1:D:536:LEU:HA	1:D:539:LYS:HE3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:871:GLN:HG2	2:E:875:ARG:HD3	1.91	0.52
2:E:1058:SER:O	2:E:1062:GLU:HG2	2.09	0.52
2:B:646:ASN:HD21	2:B:649:ASN:HD22	1.57	0.52
2:B:853:VAL:O	2:B:856:LYS:HG3	2.10	0.52
2:B:1265:LEU:O	2:B:1269:GLU:N	2.30	0.52
2:B:1593:ILE:HA	2:B:1596:GLN:HB3	1.90	0.52
2:B:1615:LEU:O	2:B:1619:HIS:N	2.29	0.52
3:C:12:GLY:N	3:C:60:GLY:HA3	2.25	0.52
2:E:200:GLU:HA	2:E:203:SER:HB3	1.91	0.52
2:E:262:TRP:CZ3	2:E:268:PRO:HG3	2.44	0.52
2:E:789:ASN:HA	2:E:792:ARG:HD2	1.91	0.52
2:E:1249:ASP:HA	2:E:1252:ARG:NE	2.25	0.52
2:E:1404:ASN:HB2	2:E:1406:GLU:OE2	2.09	0.52
2:E:1626:PHE:CD2	2:E:1627:ARG:HD2	2.45	0.52
2:B:39:GLU:CD	2:B:46:ARG:HE	2.17	0.52
2:B:94:THR:HG22	2:B:98:TRP:HE1	1.74	0.52
2:B:730:TYR:CD1	2:B:771:ARG:HD3	2.44	0.52
1:D:589:GLY:O	1:D:591:LEU:N	2.42	0.52
2:E:889:GLN:HA	2:E:895:ASN:HD21	1.75	0.52
2:E:934:ARG:HB3	2:E:935:ARG:NH1	2.24	0.52
3:F:2:GLN:NE2	3:F:50:PRO:O	2.42	0.52
2:B:105:LEU:HD11	2:B:117:LEU:HD13	1.91	0.52
2:B:677:PHE:CD1	2:B:680:MET:HE2	2.41	0.52
2:B:860:MET:SD	2:B:905:LEU:HD22	2.50	0.52
2:B:929:MET:CA	2:B:933:LEU:HD13	2.30	0.52
2:B:1129:PHE:CG	2:B:1179:HIS:HB3	2.45	0.52
2:B:1249:ASP:HA	2:B:1252:ARG:NE	2.25	0.52
2:B:1373:PRO:HG2	2:B:1376:LEU:HD12	1.91	0.52
1:D:536:LEU:HD21	2:E:17:TYR:CB	2.38	0.52
1:D:544:ILE:O	1:D:547:LEU:HG	2.09	0.52
2:E:496:TYR:OH	2:E:511:GLU:OE2	2.22	0.52
3:F:82:PHE:HE1	3:F:154:TYR:HE1	1.58	0.52
2:B:222:TYR:CE1	2:B:289:LEU:HD11	2.45	0.52
2:B:496:TYR:OH	2:B:511:GLU:OE2	2.22	0.52
2:B:528:ARG:HA	2:B:551:PHE:HA	1.92	0.52
2:B:1129:PHE:HA	2:B:1132:MET:HG3	1.92	0.52
3:C:2:GLN:NE2	3:C:50:PRO:O	2.42	0.52
2:E:94:THR:HG22	2:E:98:TRP:HE1	1.75	0.52
2:E:105:LEU:HD11	2:E:117:LEU:HD13	1.91	0.52
2:E:166:ARG:HH22	2:E:168:ASP:HB2	1.75	0.52
2:E:421:VAL:HG13	2:E:425:THR:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:853:VAL:O	2:E:856:LYS:HG3	2.10	0.52
2:E:860:MET:SD	2:E:905:LEU:HD22	2.50	0.52
2:E:984:ASP:O	2:E:988:GLU:HG3	2.09	0.52
2:E:1102:ILE:CG1	2:E:1131:MET:HB2	2.39	0.52
2:E:1109:ILE:HD13	2:E:1131:MET:HE1	1.91	0.52
2:E:1207:TYR:HD2	2:E:1208:ARG:HG3	1.74	0.52
2:E:1359:GLN:NE2	2:E:1455:ARG:HB2	2.25	0.52
2:E:1449:GLN:HA	2:E:1452:ASN:ND2	2.23	0.52
2:E:1618:LEU:HD22	2:E:1621:ARG:HH21	1.75	0.52
3:F:12:GLY:N	3:F:60:GLY:HA3	2.25	0.52
1:A:700:ASP:HB2	2:B:32:GLY:HA2	1.92	0.52
2:B:1058:SER:O	2:B:1062:GLU:HG2	2.09	0.52
2:B:1370:GLN:N	2:B:1421:SER:O	2.40	0.52
3:C:2:GLN:OE1	3:C:2:GLN:N	2.43	0.52
3:C:53:LEU:HD22	3:C:169:PHE:CE1	2.45	0.52
3:C:174:ARG:HA	3:C:177:LEU:HD12	1.92	0.52
2:E:32:GLY:O	2:E:50:LEU:HD13	2.09	0.52
2:E:430:LYS:NZ	2:E:433:PHE:O	2.28	0.52
2:E:824:ILE:O	2:E:828:LYS:HG2	2.09	0.52
2:B:189:VAL:HA	2:B:192:LYS:HE2	1.91	0.52
2:B:222:TYR:CZ	2:B:289:LEU:HD11	2.44	0.52
2:B:228:PHE:HB3	2:B:277:LEU:HB3	1.92	0.52
2:B:889:GLN:HA	2:B:895:ASN:HD21	1.75	0.52
2:B:902:SER:O	2:B:906:LEU:HG	2.10	0.52
2:B:984:ASP:O	2:B:988:GLU:HG3	2.10	0.52
2:B:1490:THR:OG1	2:B:1506:GLN:N	2.43	0.52
2:B:1521:THR:O	2:B:1524:LEU:HG	2.09	0.52
2:E:228:PHE:HB3	2:E:277:LEU:HB3	1.92	0.52
2:E:681:MET:SD	2:E:726:ALA:HB1	2.50	0.52
2:E:741:VAL:HG11	2:E:798:PHE:HD1	1.75	0.52
2:E:795:PHE:O	2:E:798:PHE:HB2	2.10	0.52
2:E:934:ARG:NH1	2:E:938:ARG:HB2	2.25	0.52
2:E:1129:PHE:CG	2:E:1179:HIS:HB3	2.45	0.52
2:E:1544:VAL:HG13	2:E:1547:LEU:HD22	1.92	0.52
3:F:2:GLN:OE1	3:F:2:GLN:N	2.43	0.52
3:F:66:ARG:NH1	3:F:67:LEU:HB2	2.24	0.52
2:B:1153:THR:O	2:B:1157:GLN:NE2	2.43	0.51
2:B:1406:GLU:C	2:B:1407:LYS:HD3	2.36	0.51
1:D:711:PRO:HD2	2:E:17:TYR:CE1	2.45	0.51
2:E:39:GLU:CD	2:E:46:ARG:HE	2.17	0.51
2:E:646:ASN:HD21	2:E:649:ASN:HD22	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1536:HIS:CD2	2:E:1606:ILE:HB	2.43	0.51
1:A:578:ARG:HH22	1:A:601:HIS:H	1.58	0.51
1:A:624:HIS:CD2	1:A:625:MET:HE2	2.45	0.51
2:B:7:THR:O	2:B:10:GLN:NE2	2.42	0.51
2:B:60:PRO:O	2:B:64:ILE:N	2.37	0.51
2:B:1079:MET:N	2:B:1079:MET:SD	2.83	0.51
3:C:142:GLY:HA3	3:C:154:TYR:CZ	2.44	0.51
2:E:294:VAL:HG11	2:E:333:ILE:HD12	1.91	0.51
2:E:902:SER:O	2:E:906:LEU:HG	2.10	0.51
2:B:32:GLY:O	2:B:50:LEU:HD13	2.09	0.51
2:B:1109:ILE:HD13	2:B:1131:MET:HE1	1.91	0.51
2:B:1217:LYS:HB3	2:B:1221:MET:HE1	1.92	0.51
2:B:1306:SER:O	2:B:1310:LYS:HG2	2.11	0.51
2:B:1322:LYS:HD3	2:B:1345:ARG:HH11	1.74	0.51
2:B:1601:THR:HG1	2:B:1626:PHE:HZ	1.59	0.51
2:E:44:TRP:CE3	2:E:58:ILE:HG22	2.45	0.51
2:E:222:TYR:CE1	2:E:289:LEU:HD11	2.45	0.51
2:E:637:LEU:O	2:E:641:LEU:HG	2.11	0.51
2:E:1153:THR:O	2:E:1157:GLN:NE2	2.43	0.51
2:E:1600:LEU:O	2:E:1604:ILE:HG12	2.09	0.51
3:F:163:ARG:C	3:F:165:LEU:H	2.19	0.51
2:B:173:LEU:O	2:B:176:ASP:HB2	2.11	0.51
2:B:262:TRP:CZ3	2:B:268:PRO:HG3	2.44	0.51
2:B:295:SER:HB2	2:B:326:VAL:HG13	1.93	0.51
2:B:533:HIS:CE1	2:B:535:SER:HB3	2.44	0.51
2:B:741:VAL:HG11	2:B:798:PHE:HD1	1.75	0.51
2:B:1145:HIS:O	2:B:1149:ASN:ND2	2.44	0.51
2:B:1359:GLN:NE2	2:B:1455:ARG:HB2	2.25	0.51
2:B:1574:LYS:O	2:B:1577:GLN:HB2	2.11	0.51
1:D:576:TYR:CE1	1:D:591:LEU:HG	2.46	0.51
2:E:818:LYS:HZ3	2:E:858:ASN:HB3	1.74	0.51
2:E:929:MET:CA	2:E:933:LEU:HD13	2.30	0.51
2:E:1322:LYS:HD3	2:E:1345:ARG:HH11	1.74	0.51
2:E:1557:PRO:HB2	2:E:1561:GLY:CA	2.36	0.51
2:E:1601:THR:C	2:E:1605:ARG:HE	2.15	0.51
1:A:532:PRO:HG3	1:A:708:ASP:HA	1.93	0.51
1:A:576:TYR:CE1	1:A:591:LEU:HG	2.46	0.51
2:B:192:LYS:O	2:B:195:GLU:HG2	2.10	0.51
2:B:637:LEU:O	2:B:641:LEU:HG	2.11	0.51
2:B:795:PHE:O	2:B:798:PHE:HB2	2.11	0.51
3:C:82:PHE:HE1	3:C:154:TYR:HE1	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:73:ASP:O	2:E:78:GLU:N	2.42	0.51
2:E:295:SER:HB2	2:E:326:VAL:HG13	1.93	0.51
2:E:673:LEU:HD13	2:E:719:TYR:CG	2.45	0.51
2:E:1217:LYS:HB3	2:E:1221:MET:HE1	1.92	0.51
1:A:551:GLN:NE2	1:A:555:ARG:HD3	2.25	0.51
2:B:1308:PHE:CD1	2:B:1313:MET:HB2	2.46	0.51
2:B:1438:PRO:HB2	2:B:1441:TYR:CD2	2.46	0.51
1:D:582:ASN:HB2	1:D:584:LYS:HG2	1.91	0.51
1:D:624:HIS:CD2	1:D:625:MET:HE2	2.45	0.51
2:E:25:VAL:HG21	2:E:56:LYS:HG3	1.93	0.51
2:E:243:MET:HG3	2:E:281:PHE:CZ	2.44	0.51
2:E:1079:MET:N	2:E:1079:MET:SD	2.83	0.51
2:E:1129:PHE:HA	2:E:1132:MET:HG3	1.92	0.51
2:E:1145:HIS:O	2:E:1149:ASN:ND2	2.44	0.51
2:E:1406:GLU:C	2:E:1407:LYS:HD3	2.35	0.51
2:E:1490:THR:OG1	2:E:1506:GLN:N	2.44	0.51
3:F:53:LEU:HD22	3:F:169:PHE:CE1	2.45	0.51
2:B:451:ILE:HG23	2:B:510:TYR:CZ	2.46	0.51
2:B:472:VAL:HA	2:B:527:ILE:HA	1.93	0.51
2:B:681:MET:SD	2:B:726:ALA:HB1	2.51	0.51
2:B:880:PRO:HA	2:B:931:ARG:NH1	2.25	0.51
2:B:1478:GLU:OE1	3:C:34:PRO:HG2	2.11	0.51
2:E:30:GLN:NE2	2:E:32:GLY:H	2.08	0.51
2:E:88:VAL:HB	2:E:128:ARG:NH2	2.26	0.51
2:E:179:SER:H	2:E:183:LEU:HD13	1.76	0.51
2:E:730:TYR:CE1	2:E:731:VAL:HG23	2.46	0.51
2:E:979:ARG:HG3	2:E:1032:PHE:HE2	1.76	0.51
2:E:1321:SER:OG	2:E:1345:ARG:NH2	2.42	0.51
1:A:544:ILE:HD11	1:A:686:LEU:O	2.10	0.51
1:A:582:ASN:HB2	1:A:584:LYS:HG2	1.91	0.51
2:B:46:ARG:HD2	2:B:58:ILE:HG13	1.91	0.51
2:B:166:ARG:HH22	2:B:168:ASP:HB2	1.75	0.51
1:D:532:PRO:HG3	1:D:708:ASP:HA	1.93	0.51
1:D:578:ARG:HH22	1:D:601:HIS:H	1.58	0.51
2:E:195:GLU:HA	2:E:198:ILE:HG22	1.92	0.51
2:E:880:PRO:HA	2:E:931:ARG:NH1	2.25	0.51
2:E:958:ILE:HG21	2:E:1017:PHE:CE1	2.46	0.51
2:E:1441:TYR:CE2	2:E:1450:ILE:HD13	2.46	0.51
3:F:41:SER:OG	3:F:53:LEU:O	2.15	0.51
1:A:677:MET:O	1:A:683:ARG:NH1	2.44	0.51
2:B:116:GLN:HA	2:B:119:GLN:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:421:VAL:HG13	2:B:425:THR:HG21	1.92	0.51
2:B:934:ARG:NH1	2:B:938:ARG:HB2	2.25	0.51
2:B:1032:PHE:HA	2:B:1036:ALA:HB2	1.93	0.51
2:B:1181:ARG:C	2:B:1183:HIS:H	2.19	0.51
1:D:576:TYR:HE1	1:D:591:LEU:HG	1.75	0.51
1:D:677:MET:O	1:D:683:ARG:NH1	2.44	0.51
2:E:192:LYS:O	2:E:195:GLU:HG2	2.10	0.51
2:E:203:SER:OG	2:E:210:LEU:HD22	2.11	0.51
2:E:1308:PHE:CD1	2:E:1313:MET:HB2	2.46	0.51
2:E:1373:PRO:HG2	2:E:1376:LEU:HD12	1.91	0.51
2:E:1438:PRO:HB2	2:E:1441:TYR:CD2	2.46	0.51
2:E:1488:THR:O	2:E:1508:SER:N	2.39	0.51
2:B:14:VAL:HB	2:B:65:HIS:HB3	1.91	0.51
2:B:520:GLU:O	2:B:523:THR:OG1	2.15	0.51
2:B:1334:ASP:O	2:B:1338:LEU:N	2.33	0.51
2:B:1563:PHE:HB3	2:B:1637:TYR:OH	2.11	0.51
2:E:46:ARG:HD2	2:E:58:ILE:CG1	2.41	0.51
2:E:238:ASP:O	2:E:303:VAL:N	2.36	0.51
2:E:966:ASP:HA	2:E:969:TYR:CD2	2.46	0.51
2:E:1166:GLU:O	2:E:1169:LYS:HG2	2.10	0.51
2:E:1411:THR:HB	3:F:28:PHE:CZ	2.46	0.51
2:E:1495:PHE:CE1	2:E:1502:PHE:HD2	2.26	0.51
2:E:1614:GLN:HG2	3:F:70:LEU:HD22	1.93	0.51
3:F:174:ARG:HA	3:F:177:LEU:HD12	1.92	0.51
2:B:179:SER:H	2:B:183:LEU:HD13	1.76	0.50
2:B:228:PHE:HB3	2:B:277:LEU:CB	2.41	0.50
2:B:1056:HIS:HD1	2:B:1057:GLU:CD	2.17	0.50
2:B:1102:ILE:CD1	2:B:1131:MET:HB2	2.41	0.50
2:B:1166:GLU:O	2:B:1169:LYS:HG2	2.10	0.50
2:B:1544:VAL:HG13	2:B:1547:LEU:HD22	1.91	0.50
2:E:1181:ARG:C	2:E:1183:HIS:H	2.19	0.50
1:A:577:CYS:SG	1:A:586:LEU:HD12	2.51	0.50
2:B:98:TRP:O	2:B:102:TRP:HD1	1.94	0.50
2:B:1522:MET:HG3	2:B:1566:TYR:HE2	1.75	0.50
1:D:697:ARG:HA	2:E:30:GLN:HE21	1.76	0.50
2:E:121:THR:HA	2:E:124:LEU:HG	1.93	0.50
2:E:866:SER:C	2:E:868:LEU:H	2.19	0.50
2:E:1032:PHE:HA	2:E:1036:ALA:HB2	1.93	0.50
2:E:1563:PHE:HB3	2:E:1637:TYR:OH	2.11	0.50
2:E:1633:VAL:HG12	2:E:1637:TYR:CG	2.46	0.50
2:B:45:TYR:O	2:B:59:PHE:N	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:45:TYR:HD2	2:B:64:ILE:HG13	1.77	0.50
2:B:200:GLU:HA	2:B:203:SER:HB3	1.91	0.50
2:B:589:PRO:HB3	2:B:594:GLU:HB3	1.94	0.50
2:B:757:LEU:HB3	2:B:815:ALA:HB1	1.94	0.50
2:B:958:ILE:HG21	2:B:1017:PHE:CE1	2.46	0.50
3:C:163:ARG:C	3:C:165:LEU:H	2.19	0.50
2:E:98:TRP:O	2:E:102:TRP:HD1	1.94	0.50
2:E:644:ARG:NH2	2:E:678:ASN:OD1	2.43	0.50
1:A:584:LYS:CE	2:B:1405:ALA:HB2	2.41	0.50
1:A:677:MET:HB2	1:A:682:THR:HG21	1.93	0.50
2:B:99:ALA:HA	2:B:102:TRP:HE1	1.75	0.50
2:B:332:ILE:HD13	2:B:403:LEU:HB2	1.94	0.50
2:B:836:LEU:HG	2:B:840:PHE:HE2	1.76	0.50
2:B:1051:VAL:HG11	2:B:1108:PRO:HB3	1.93	0.50
2:B:1618:LEU:HD22	2:B:1621:ARG:HH21	1.75	0.50
1:D:551:GLN:NE2	1:D:555:ARG:HD3	2.26	0.50
1:D:577:CYS:SG	1:D:586:LEU:HD12	2.51	0.50
2:E:188:GLU:HG3	2:E:192:LYS:HZ3	1.75	0.50
2:E:768:ILE:HG21	2:E:829:LEU:HB2	1.94	0.50
2:E:876:GLU:OE1	2:E:876:GLU:N	2.40	0.50
2:E:1180:CYS:HB3	2:E:1187:SER:HB3	1.94	0.50
2:E:1334:ASP:O	2:E:1338:LEU:N	2.33	0.50
3:F:14:VAL:HG13	3:F:116:LYS:NZ	2.27	0.50
1:A:696:LEU:HD12	1:A:697:ARG:NE	2.26	0.50
2:B:121:THR:HA	2:B:124:LEU:HG	1.93	0.50
2:B:673:LEU:HD13	2:B:719:TYR:CG	2.45	0.50
2:B:740:TYR:CE2	2:B:752:LEU:HB3	2.46	0.50
2:B:979:ARG:HG3	2:B:1032:PHE:HE2	1.76	0.50
2:B:1207:TYR:CD2	2:B:1208:ARG:HG3	2.47	0.50
2:B:1632:LYS:O	2:B:1636:HIS:N	2.41	0.50
2:E:321:PRO:HB2	2:E:351:ILE:HD11	1.93	0.50
2:E:757:LEU:HB3	2:E:815:ALA:HB1	1.94	0.50
2:E:931:ARG:HB3	2:E:932:LEU:HD12	1.94	0.50
2:E:1388:TYR:HD2	3:F:45:MET:CE	2.24	0.50
2:E:1574:LYS:O	2:E:1577:GLN:HB2	2.11	0.50
3:F:153:LYS:NZ	3:F:154:TYR:O	2.37	0.50
2:B:195:GLU:HA	2:B:198:ILE:HG22	1.92	0.50
2:B:444:ASN:ND2	2:B:517:ILE:O	2.45	0.50
2:B:644:ARG:NH2	2:B:678:ASN:OD1	2.43	0.50
2:B:730:TYR:CE1	2:B:731:VAL:HG23	2.46	0.50
2:B:966:ASP:HA	2:B:969:TYR:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1102:ILE:CG1	2:B:1131:MET:HB2	2.40	0.50
2:B:1418:ILE:HG13	2:B:1425:TYR:CE2	2.47	0.50
2:B:1602:GLU:N	2:B:1605:ARG:HH21	2.10	0.50
1:D:677:MET:HB2	1:D:682:THR:HG21	1.94	0.50
1:D:696:LEU:HD12	1:D:697:ARG:NE	2.26	0.50
2:E:37:ILE:HG21	2:E:45:TYR:HB3	1.94	0.50
2:E:836:LEU:HG	2:E:840:PHE:HE2	1.76	0.50
2:E:1482:MET:HG3	2:E:1517:ASN:HB3	1.93	0.50
3:F:25:THR:HG21	3:F:32:TYR:HA	1.93	0.50
2:B:1435:MET:HE1	2:B:1455:ARG:HG2	1.94	0.50
2:B:1441:TYR:CE2	2:B:1450:ILE:HD13	2.46	0.50
2:B:1444:LYS:HD3	2:E:1333:PHE:HZ	1.77	0.50
1:D:544:ILE:HD11	1:D:686:LEU:O	2.10	0.50
2:E:116:GLN:HA	2:E:119:GLN:HG3	1.93	0.50
2:E:1046:TYR:OH	2:E:1090:MET:HG3	2.11	0.50
2:E:1306:SER:O	2:E:1310:LYS:HG2	2.11	0.50
2:E:1602:GLU:N	2:E:1605:ARG:HH21	2.10	0.50
2:B:88:VAL:HB	2:B:128:ARG:NH2	2.26	0.50
2:B:285:SER:HB2	2:B:435:GLU:CD	2.37	0.50
2:B:468:VAL:HB	2:B:498:SER:HB3	1.94	0.50
2:B:800:MET:HE1	2:B:804:ARG:HH21	1.76	0.50
2:B:871:GLN:OE1	2:B:918:VAL:HG12	2.12	0.50
2:B:931:ARG:HB3	2:B:932:LEU:HD12	1.94	0.50
2:B:1062:GLU:O	2:B:1068:LYS:HB3	2.12	0.50
2:B:1378:ASN:HB3	2:B:1419:LYS:HD3	1.94	0.50
2:B:1562:GLY:HA2	2:B:1565:ASN:HB2	1.94	0.50
2:E:451:ILE:HG23	2:E:510:TYR:CZ	2.46	0.50
2:E:468:VAL:HB	2:E:498:SER:HB3	1.94	0.50
2:E:1102:ILE:CD1	2:E:1131:MET:HB2	2.41	0.50
2:E:1102:ILE:O	2:E:1106:VAL:HG23	2.12	0.50
2:E:1126:PRO:HD3	2:E:1175:LEU:HD12	1.94	0.50
2:E:1355:ALA:O	2:E:1356:MET:HE2	2.12	0.50
2:E:1463:ARG:HG2	2:E:1487:THR:H	1.77	0.50
2:B:1008:VAL:O	2:B:1012:THR:HG23	2.12	0.50
2:B:1598:PRO:O	2:B:1601:THR:HB	2.12	0.50
1:D:717:PRO:HB2	2:E:1:MET:N	2.27	0.50
2:E:45:TYR:HD2	2:E:64:ILE:HG13	1.77	0.50
2:E:173:LEU:O	2:E:176:ASP:HB2	2.11	0.50
2:E:319:ARG:HB2	2:E:499:VAL:HA	1.94	0.50
2:E:472:VAL:HA	2:E:527:ILE:HA	1.93	0.50
2:E:589:PRO:HB3	2:E:594:GLU:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:899:HIS:HB3	2:E:949:HIS:CE1	2.46	0.50
2:E:1062:GLU:O	2:E:1068:LYS:HB3	2.12	0.50
2:E:1200:LEU:O	2:E:1204:LEU:HG	2.12	0.50
2:B:25:VAL:CG2	2:B:57:GLY:HA2	2.40	0.49
2:B:46:ARG:HD2	2:B:58:ILE:CG1	2.41	0.49
2:B:450:LEU:HD21	2:B:470:MET:SD	2.52	0.49
2:B:945:ARG:HH11	2:B:946:GLN:H	1.60	0.49
2:B:1180:CYS:HB3	2:B:1187:SER:HB3	1.93	0.49
2:B:1299:LYS:HE2	2:B:1302:GLN:OE1	2.12	0.49
1:D:539:LYS:HZ1	1:D:540:ILE:HD11	1.77	0.49
1:D:570:ARG:HH22	1:D:593:GLU:HG3	1.77	0.49
2:E:228:PHE:HB3	2:E:277:LEU:CB	2.41	0.49
2:E:1063:THR:HA	2:E:1069:ARG:HH11	1.77	0.49
1:A:552:ARG:HE	1:A:664:ILE:HG23	1.77	0.49
2:B:741:VAL:HG11	2:B:798:PHE:CD1	2.47	0.49
2:B:1046:TYR:OH	2:B:1090:MET:HG3	2.11	0.49
2:B:1619:HIS:HA	2:B:1622:LEU:HG	1.93	0.49
2:E:150:ALA:HB1	2:E:197:LYS:NZ	2.27	0.49
2:E:285:SER:HB2	2:E:435:GLU:CD	2.37	0.49
2:E:444:ASN:ND2	2:E:517:ILE:O	2.45	0.49
2:E:741:VAL:HG21	2:E:798:PHE:HE1	1.78	0.49
2:E:1028:LEU:HD23	2:E:1032:PHE:HD1	1.77	0.49
2:E:1619:HIS:HA	2:E:1622:LEU:HG	1.93	0.49
2:B:25:VAL:HG21	2:B:56:LYS:HG3	1.93	0.49
2:B:95:LEU:HD13	2:B:98:TRP:CD1	2.47	0.49
2:B:1633:VAL:HG12	2:B:1637:TYR:CG	2.46	0.49
2:E:417:PHE:HA	2:E:419:HIS:CE1	2.48	0.49
2:E:740:TYR:CE2	2:E:752:LEU:HB3	2.46	0.49
2:E:800:MET:HE1	2:E:804:ARG:HH21	1.76	0.49
2:E:1483:TRP:CE2	2:E:1514:PRO:HD3	2.47	0.49
2:B:156:ASN:HD22	2:B:161:LEU:HD12	1.77	0.49
2:B:1611:LEU:HD21	2:B:1616:LYS:NZ	2.27	0.49
2:E:25:VAL:CG2	2:E:57:GLY:HA2	2.40	0.49
2:E:754:PHE:CZ	2:E:812:ILE:HG13	2.48	0.49
1:A:625:MET:HE1	1:A:637:VAL:HG23	1.94	0.49
2:B:130:GLN:HG3	2:B:131:ILE:HG12	1.95	0.49
2:B:203:SER:OG	2:B:210:LEU:HD22	2.11	0.49
2:B:321:PRO:HB2	2:B:351:ILE:HD11	1.93	0.49
2:B:436:ILE:HG22	2:B:438:LEU:HD22	1.95	0.49
2:B:768:ILE:HG21	2:B:829:LEU:HB2	1.94	0.49
2:B:866:SER:C	2:B:868:LEU:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:899:HIS:HB3	2:B:949:HIS:CE1	2.46	0.49
2:B:1196:LEU:O	2:B:1199:SER:OG	2.26	0.49
2:B:1355:ALA:O	2:B:1356:MET:HE2	2.12	0.49
2:B:1463:ARG:HG2	2:B:1487:THR:H	1.77	0.49
2:B:1468:PHE:HE2	2:B:1470:LYS:HB2	1.78	0.49
3:C:14:VAL:HG13	3:C:116:LYS:NZ	2.27	0.49
1:D:625:MET:HE1	1:D:637:VAL:HG23	1.94	0.49
2:E:95:LEU:HD13	2:E:98:TRP:CD1	2.47	0.49
2:E:332:ILE:HD13	2:E:403:LEU:HB2	1.94	0.49
2:E:436:ILE:HG22	2:E:438:LEU:HD22	1.95	0.49
2:E:945:ARG:HH11	2:E:946:GLN:H	1.60	0.49
2:E:1207:TYR:CD2	2:E:1208:ARG:HG3	2.47	0.49
2:E:1242:ARG:NH1	2:E:1246:LYS:HZ1	2.10	0.49
2:E:1451:LEU:O	2:E:1455:ARG:HG3	2.12	0.49
2:E:1515:LEU:HG	2:E:1575:TYR:HE2	1.77	0.49
2:E:1562:GLY:HA2	2:E:1565:ASN:HB2	1.94	0.49
2:E:1611:LEU:HD21	2:E:1616:LYS:NZ	2.27	0.49
1:A:570:ARG:HH22	1:A:593:GLU:HG3	1.77	0.49
2:B:1483:TRP:CE2	2:B:1514:PRO:HD3	2.47	0.49
2:B:1536:HIS:CD2	2:B:1606:ILE:HB	2.43	0.49
2:B:1597:MET:HA	2:B:1600:LEU:HB2	1.94	0.49
2:B:1613:GLU:OE2	2:B:1614:GLN:HG3	2.13	0.49
2:B:1633:VAL:C	2:B:1639:VAL:HG22	2.37	0.49
1:D:680:ASP:OD1	1:D:681:LEU:N	2.45	0.49
2:E:529:PHE:O	2:E:550:ALA:N	2.41	0.49
2:E:1597:MET:HA	2:E:1600:LEU:HB2	1.94	0.49
3:F:129:LEU:HB3	3:F:134:LEU:O	2.13	0.49
1:A:616:VAL:HG23	1:A:643:SER:C	2.38	0.49
2:B:19:TYR:CE2	2:B:26:GLU:HB3	2.48	0.49
2:B:444:ASN:HB2	2:B:519:ILE:HG12	1.95	0.49
2:B:1102:ILE:O	2:B:1106:VAL:HG23	2.12	0.49
3:C:7:VAL:HB	3:C:78:PHE:CE1	2.48	0.49
3:C:25:THR:HG21	3:C:32:TYR:HA	1.94	0.49
2:E:1008:VAL:O	2:E:1012:THR:HG23	2.12	0.49
2:E:1202:GLU:HA	2:E:1205:LEU:HB2	1.95	0.49
2:B:417:PHE:HA	2:B:419:HIS:CE1	2.48	0.49
2:B:647:SER:HA	2:B:650:ILE:HG13	1.94	0.49
3:C:41:SER:OG	3:C:53:LEU:O	2.15	0.49
2:E:19:TYR:CE2	2:E:26:GLU:HB3	2.48	0.49
2:E:187:HIS:HB3	2:E:1006:TRP:CZ3	2.48	0.49
2:E:741:VAL:HG11	2:E:798:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:GLY:O	1:A:591:LEU:N	2.42	0.49
2:B:1435:MET:HE2	2:B:1435:MET:HA	1.94	0.49
2:E:552:VAL:HB	2:E:569:LEU:HD22	1.95	0.49
2:E:592:LYS:HZ3	2:E:619:SER:CB	2.24	0.49
2:E:646:ASN:ND2	2:E:649:ASN:HD22	2.11	0.49
2:E:871:GLN:OE1	2:E:918:VAL:HG12	2.12	0.49
2:E:1291:TYR:CB	2:E:1296:LEU:HD21	2.40	0.49
2:E:1598:PRO:O	2:E:1601:THR:HB	2.12	0.49
1:A:680:ASP:OD1	1:A:681:LEU:N	2.45	0.49
2:B:4:TRP:CD2	2:B:46:ARG:HD3	2.47	0.49
2:B:552:VAL:HB	2:B:569:LEU:HD22	1.95	0.49
2:B:570:VAL:HG22	2:B:592:LYS:HZ2	1.78	0.49
2:B:716:LEU:O	2:B:720:ILE:HG13	2.13	0.49
2:B:741:VAL:HG21	2:B:798:PHE:HE1	1.78	0.49
2:B:932:LEU:N	2:B:935:ARG:HH21	2.11	0.49
2:B:1114:LEU:CB	2:B:1163:ARG:HD2	2.41	0.49
2:B:1217:LYS:HD3	2:B:1220:ARG:NH1	2.22	0.49
2:B:1222:SER:O	2:B:1225:VAL:HG22	2.13	0.49
2:B:1242:ARG:NH1	2:B:1246:LYS:HZ1	2.10	0.49
2:B:1359:GLN:HE21	2:B:1455:ARG:HB2	1.77	0.49
2:B:1451:LEU:O	2:B:1455:ARG:HG3	2.13	0.49
2:B:1623:SER:O	2:B:1627:ARG:HD3	2.13	0.49
3:C:60:GLY:HA2	3:C:97:TRP:HZ2	1.78	0.49
3:C:129:LEU:HB3	3:C:134:LEU:O	2.13	0.49
1:D:557:VAL:O	1:D:578:ARG:HG3	2.13	0.49
2:E:46:ARG:HB3	2:E:58:ILE:HA	1.95	0.49
2:E:444:ASN:HB2	2:E:519:ILE:HG12	1.95	0.49
2:E:730:TYR:HD1	2:E:787:PHE:CG	2.31	0.49
2:E:764:PHE:O	2:E:768:ILE:HG12	2.13	0.49
2:E:883:THR:HG21	2:E:931:ARG:HG2	1.95	0.49
2:E:1051:VAL:HG11	2:E:1108:PRO:HB3	1.93	0.49
2:E:1186:LEU:HD12	2:E:1189:SER:HB2	1.95	0.49
2:E:1378:ASN:HB3	2:E:1419:LYS:HD3	1.94	0.49
2:B:319:ARG:HB2	2:B:499:VAL:HA	1.94	0.48
2:B:526:HIS:HB2	2:B:552:VAL:O	2.13	0.48
2:B:1126:PRO:HD3	2:B:1175:LEU:HD12	1.94	0.48
2:B:1390:ARG:HD3	3:C:44:VAL:CG1	2.42	0.48
2:B:1463:ARG:HG3	2:B:1486:ARG:HB3	1.95	0.48
1:D:552:ARG:HE	1:D:664:ILE:HG23	1.77	0.48
2:E:166:ARG:HG2	2:E:173:LEU:H	1.77	0.48
2:E:471:SER:HB3	2:E:495:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:560:THR:HG22	2:E:638:LEU:HD23	1.95	0.48
2:E:643:TRP:CD1	2:E:675:ALA:HB1	2.48	0.48
2:E:647:SER:HA	2:E:650:ILE:HG13	1.93	0.48
2:E:759:ALA:O	2:E:763:LEU:HG	2.13	0.48
2:E:1299:LYS:HE2	2:E:1302:GLN:OE1	2.12	0.48
1:A:584:LYS:NZ	2:B:1405:ALA:HB2	2.28	0.48
2:B:111:LEU:HD13	2:B:114:PHE:HD2	1.78	0.48
2:B:646:ASN:ND2	2:B:649:ASN:HD22	2.11	0.48
2:B:670:GLN:HG3	2:B:719:TYR:HD1	1.78	0.48
2:B:759:ALA:O	2:B:763:LEU:HG	2.13	0.48
2:B:1057:GLU:O	2:B:1080:ARG:HD3	2.12	0.48
2:B:1063:THR:HA	2:B:1069:ARG:HH11	1.77	0.48
2:B:1233:GLU:O	2:B:1235:LYS:NZ	2.22	0.48
2:B:1452:ASN:HA	2:B:1455:ARG:CZ	2.43	0.48
2:E:4:TRP:CD2	2:E:46:ARG:HD3	2.47	0.48
2:E:182:ALA:HA	2:E:185:LYS:HZ2	1.78	0.48
2:E:245:LEU:HB3	2:E:254:ILE:HD12	1.95	0.48
2:E:532:ARG:HB3	2:E:534:ARG:HD3	1.95	0.48
2:E:716:LEU:O	2:E:720:ILE:HG13	2.13	0.48
2:E:743:ASN:HB2	2:E:749:LYS:HD2	1.95	0.48
2:E:932:LEU:N	2:E:935:ARG:HH21	2.11	0.48
2:E:1623:SER:O	2:E:1627:ARG:HD3	2.13	0.48
2:E:1633:VAL:C	2:E:1639:VAL:HG22	2.37	0.48
3:F:94:ARG:HA	3:F:98:TYR:HB3	1.95	0.48
1:A:557:VAL:O	1:A:578:ARG:HG3	2.13	0.48
2:B:734:SER:HB3	2:B:787:PHE:HE1	1.79	0.48
2:B:1186:LEU:HD12	2:B:1189:SER:HB2	1.95	0.48
2:B:1200:LEU:O	2:B:1204:LEU:HG	2.12	0.48
1:D:616:VAL:HG23	1:D:643:SER:C	2.38	0.48
2:E:182:ALA:HA	2:E:185:LYS:HZ3	1.77	0.48
2:E:450:LEU:HD21	2:E:470:MET:SD	2.52	0.48
2:B:150:ALA:HB1	2:B:197:LYS:NZ	2.27	0.48
2:B:238:ASP:O	2:B:303:VAL:N	2.36	0.48
2:B:242:PHE:HB3	2:B:257:ASN:HB3	1.96	0.48
2:B:643:TRP:CD1	2:B:675:ALA:HB1	2.48	0.48
2:B:730:TYR:HD1	2:B:787:PHE:CG	2.31	0.48
2:B:743:ASN:HB2	2:B:749:LYS:HD2	1.95	0.48
2:B:754:PHE:CZ	2:B:812:ILE:HG13	2.48	0.48
2:B:1202:GLU:HA	2:B:1205:LEU:HB2	1.95	0.48
2:B:1470:LYS:N	2:B:1481:THR:O	2.37	0.48
2:B:1596:GLN:O	2:B:1600:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2:GLN:HE22	3:C:49:LYS:HG3	1.78	0.48
3:C:58:THR:HB	3:C:68:ARG:HH12	1.78	0.48
3:C:94:ARG:HA	3:C:98:TYR:HB3	1.95	0.48
1:D:539:LYS:HE3	2:E:18:ASN:OD1	2.13	0.48
2:E:156:ASN:HD22	2:E:161:LEU:HD12	1.77	0.48
2:E:921:THR:OG1	2:E:924:HIS:HB3	2.14	0.48
2:E:1057:GLU:O	2:E:1080:ARG:HD3	2.12	0.48
2:E:1145:HIS:HA	2:E:1148:GLU:HG3	1.96	0.48
2:E:1362:TYR:CE2	2:E:1459:VAL:HG21	2.49	0.48
2:E:1383:TYR:CD2	2:E:1501:TRP:HB3	2.49	0.48
2:E:1596:GLN:O	2:E:1600:LEU:HG	2.13	0.48
2:E:1618:LEU:HD22	2:E:1621:ARG:NH2	2.28	0.48
3:F:39:ASN:OD1	3:F:57:ASP:N	2.47	0.48
2:B:72:GLU:HG3	2:B:74:LEU:H	1.79	0.48
2:B:187:HIS:HB3	2:B:1006:TRP:CZ3	2.48	0.48
2:B:764:PHE:O	2:B:768:ILE:HG12	2.13	0.48
2:B:1481:THR:O	2:B:1483:TRP:HD1	1.97	0.48
3:C:6:CYS:SG	3:C:77:VAL:HG23	2.54	0.48
3:C:39:ASN:OD1	3:C:57:ASP:N	2.47	0.48
1:D:584:LYS:CD	2:E:1403:PRO:HA	2.43	0.48
2:E:4:TRP:HZ3	2:E:45:TYR:HA	1.78	0.48
2:E:431:MET:HE1	2:E:447:TYR:CZ	2.48	0.48
2:E:734:SER:HB3	2:E:787:PHE:HE1	1.78	0.48
2:E:1056:HIS:HD1	2:E:1057:GLU:CD	2.17	0.48
2:E:1196:LEU:HD22	2:E:1234:LYS:HD2	1.95	0.48
2:E:1275:ASP:OD2	2:E:1275:ASP:N	2.45	0.48
2:E:1383:TYR:CG	2:E:1501:TRP:HB3	2.49	0.48
2:E:1435:MET:HE2	2:E:1435:MET:HA	1.95	0.48
2:E:1463:ARG:HG3	2:E:1486:ARG:HB3	1.95	0.48
2:E:1539:ASP:OD1	2:E:1541:SER:N	2.47	0.48
3:F:7:VAL:HB	3:F:78:PHE:CE1	2.48	0.48
2:B:98:TRP:HA	2:B:101:ILE:HG22	1.96	0.48
2:B:273:LYS:O	2:B:277:LEU:HG	2.14	0.48
2:B:471:SER:HB3	2:B:495:GLU:HG2	1.95	0.48
2:B:883:THR:HG21	2:B:931:ARG:HG2	1.95	0.48
2:B:1256:ASN:HB3	2:B:1259:GLU:OE1	2.14	0.48
2:B:1460:GLN:OE1	2:B:1494:THR:HA	2.13	0.48
2:B:1482:MET:HG3	2:B:1517:ASN:HB3	1.94	0.48
2:B:1517:ASN:O	2:B:1520:GLU:HG3	2.14	0.48
2:B:1557:PRO:O	2:B:1561:GLY:HA2	2.14	0.48
2:B:1618:LEU:HD22	2:B:1621:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:569:ARG:NH2	1:D:571:GLN:OE1	2.47	0.48
1:D:697:ARG:HD3	2:E:30:GLN:HG2	1.95	0.48
2:E:98:TRP:O	2:E:102:TRP:CD1	2.67	0.48
2:E:191:SER:HA	2:E:194:ILE:HD12	1.96	0.48
2:E:248:PRO:HD2	2:E:293:ARG:HG3	1.96	0.48
2:E:728:LEU:HA	2:E:730:TYR:CE2	2.49	0.48
2:E:915:ARG:HA	2:E:915:ARG:HH11	1.79	0.48
2:E:1359:GLN:HE21	2:E:1455:ARG:HB2	1.77	0.48
2:E:1618:LEU:O	2:E:1622:LEU:HG	2.14	0.48
3:F:58:THR:HB	3:F:68:ARG:HH12	1.78	0.48
2:B:431:MET:HE1	2:B:447:TYR:CZ	2.48	0.48
2:B:669:LEU:HD11	2:B:716:LEU:HD13	1.95	0.48
2:B:915:ARG:HA	2:B:915:ARG:HH11	1.78	0.48
2:B:931:ARG:C	2:B:932:LEU:HD12	2.38	0.48
2:B:987:MET:CE	2:B:1042:LEU:HD13	2.44	0.48
2:B:1028:LEU:HD23	2:B:1032:PHE:HD1	1.77	0.48
2:B:1033:MET:HE2	2:B:1034:ASP:HB2	1.96	0.48
2:B:1098:LYS:HD2	2:B:1134:CYS:SG	2.54	0.48
2:B:1357:ARG:NH1	2:B:1456:ALA:HB3	2.28	0.48
2:E:72:GLU:HG3	2:E:74:LEU:H	1.79	0.48
2:E:230:ASN:HA	2:E:274:LEU:HD11	1.96	0.48
2:E:751:GLU:OE2	2:E:751:GLU:N	2.38	0.48
2:E:792:ARG:HA	2:E:795:PHE:HD2	1.78	0.48
2:E:1006:TRP:CE3	2:E:1009:MET:HG3	2.49	0.48
2:E:1372:PHE:HE1	2:E:1402:PHE:CD2	2.32	0.48
2:B:4:TRP:HZ3	2:B:45:TYR:HA	1.78	0.48
2:B:37:ILE:HG21	2:B:45:TYR:HB3	1.94	0.48
2:B:98:TRP:O	2:B:102:TRP:CD1	2.67	0.48
2:B:166:ARG:HG2	2:B:173:LEU:H	1.77	0.48
2:B:191:SER:HA	2:B:194:ILE:HD12	1.96	0.48
2:B:230:ASN:HA	2:B:274:LEU:HD11	1.96	0.48
2:B:529:PHE:O	2:B:550:ALA:N	2.41	0.48
2:B:532:ARG:HB3	2:B:534:ARG:HD3	1.95	0.48
2:B:728:LEU:O	2:B:732:LYS:HG2	2.14	0.48
2:B:737:LEU:HD23	2:B:764:PHE:CZ	2.49	0.48
2:B:983:ILE:HD11	2:B:1032:PHE:CD2	2.48	0.48
2:E:130:GLN:HG3	2:E:131:ILE:HG12	1.95	0.48
2:E:584:PHE:O	2:E:588:LEU:HG	2.14	0.48
2:E:670:GLN:HG3	2:E:719:TYR:HD1	1.78	0.48
2:E:1222:SER:O	2:E:1225:VAL:HG22	2.13	0.48
2:E:1408:MET:HB3	2:E:1410:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1435:MET:HE1	2:E:1455:ARG:HG2	1.94	0.48
3:F:110:ILE:O	3:F:152:VAL:HG12	2.14	0.48
3:F:145:MET:O	3:F:148:GLU:HB3	2.14	0.48
2:B:248:PRO:HD2	2:B:293:ARG:HG3	1.96	0.48
2:B:257:ASN:O	2:B:487:GLY:HA3	2.14	0.48
2:B:1078:ASP:OD1	2:B:1081:LYS:HG2	2.13	0.48
2:B:1145:HIS:HA	2:B:1148:GLU:HG3	1.96	0.48
2:B:1468:PHE:N	2:B:1483:TRP:O	2.47	0.48
2:B:1633:VAL:O	2:B:1639:VAL:HG22	2.14	0.48
1:D:536:LEU:HD21	2:E:17:TYR:CA	2.43	0.48
2:E:118:GLN:HB3	2:E:122:TYR:CZ	2.49	0.48
2:E:242:PHE:HB3	2:E:257:ASN:HB3	1.96	0.48
2:E:983:ILE:HD11	2:E:1032:PHE:CD2	2.48	0.48
2:E:1452:ASN:HA	2:E:1455:ARG:CZ	2.43	0.48
2:B:72:GLU:OE1	2:B:86:PRO:HG3	2.14	0.48
2:B:302:ARG:HD3	2:B:322:PHE:CD1	2.47	0.48
2:B:1387:GLU:HG2	2:B:1388:TYR:N	2.28	0.48
1:D:687:ASP:OD1	1:D:688:THR:N	2.47	0.48
1:D:716:GLU:HG3	2:E:44:TRP:CZ2	2.48	0.48
2:E:111:LEU:HD13	2:E:114:PHE:HD2	1.78	0.48
2:E:556:ASN:N	2:E:560:THR:O	2.41	0.48
2:E:728:LEU:O	2:E:732:LYS:HG2	2.14	0.48
2:E:754:PHE:CZ	2:E:811:LYS:HB2	2.49	0.48
2:E:754:PHE:HZ	2:E:811:LYS:HB2	1.78	0.48
2:E:1114:LEU:CB	2:E:1163:ARG:HD2	2.41	0.48
2:E:1344:LYS:HB3	2:E:1348:PHE:CZ	2.49	0.48
2:E:1468:PHE:N	2:E:1483:TRP:O	2.47	0.48
1:A:544:ILE:HG12	1:A:686:LEU:HG	1.95	0.47
2:B:754:PHE:CZ	2:B:811:LYS:HB2	2.49	0.47
2:B:792:ARG:HA	2:B:795:PHE:HD2	1.78	0.47
2:B:1133:GLN:NE2	2:B:1133:GLN:O	2.47	0.47
2:B:1362:TYR:CE2	2:B:1459:VAL:HG21	2.49	0.47
2:B:1368:TYR:CE2	2:B:1419:LYS:HE3	2.49	0.47
2:B:1408:MET:HB3	2:B:1410:SER:HB3	1.96	0.47
2:B:1417:ASP:CG	2:B:1418:ILE:HG12	2.39	0.47
2:B:1483:TRP:CZ2	2:B:1513:SER:HA	2.49	0.47
2:B:1539:ASP:OD1	2:B:1541:SER:N	2.47	0.47
2:B:1560:MET:HG3	3:C:36:VAL:HG22	1.95	0.47
2:B:1622:LEU:O	2:B:1626:PHE:CB	2.61	0.47
2:E:1196:LEU:O	2:E:1199:SER:OG	2.26	0.47
2:E:1206:ASP:HA	2:E:1209:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1256:ASN:HB3	2:E:1259:GLU:OE1	2.14	0.47
2:E:1417:ASP:CG	2:E:1418:ILE:HG12	2.39	0.47
2:E:1460:GLN:OE1	2:E:1494:THR:HA	2.13	0.47
2:E:1517:ASN:O	2:E:1520:GLU:HG3	2.14	0.47
2:E:1557:PRO:O	2:E:1561:GLY:HA2	2.14	0.47
2:E:1613:GLU:OE2	2:E:1614:GLN:HG3	2.13	0.47
3:F:43:ASN:HA	3:F:51:VAL:O	2.14	0.47
3:F:155:LEU:HD13	3:F:168:VAL:HG22	1.95	0.47
2:B:179:SER:HA	2:B:962:GLN:HE22	1.79	0.47
2:B:893:ASN:O	2:B:896:LYS:NZ	2.47	0.47
2:B:1196:LEU:HD22	2:B:1234:LYS:HD2	1.94	0.47
3:C:120:ARG:HH12	3:C:139:TYR:HB2	1.79	0.47
2:E:724:PHE:CZ	2:E:726:ALA:HB3	2.49	0.47
2:E:1123:ALA:O	2:E:1126:PRO:HG2	2.14	0.47
2:E:1125:ILE:CG1	2:E:1172:LEU:HD23	2.44	0.47
2:E:1280:PRO:HA	2:E:1283:LEU:HD23	1.96	0.47
2:E:1318:ILE:HD11	2:E:1348:PHE:HB2	1.97	0.47
2:E:1401:GLN:HG3	2:E:1402:PHE:CE2	2.49	0.47
2:E:1418:ILE:HG13	2:E:1425:TYR:CE2	2.47	0.47
3:F:120:ARG:HH12	3:F:139:TYR:HB2	1.79	0.47
1:A:642:PHE:HB3	1:A:662:TYR:HE1	1.79	0.47
1:A:687:ASP:OD1	1:A:688:THR:N	2.47	0.47
2:B:118:GLN:HB3	2:B:122:TYR:CZ	2.49	0.47
2:B:728:LEU:HA	2:B:730:TYR:CE2	2.49	0.47
2:B:921:THR:OG1	2:B:924:HIS:HB3	2.14	0.47
2:B:997:ILE:HG13	2:B:998:GLY:H	1.79	0.47
2:B:1515:LEU:HD23	2:B:1589:LEU:HD11	1.96	0.47
2:E:188:GLU:HG3	2:E:192:LYS:NZ	2.29	0.47
2:E:273:LYS:O	2:E:277:LEU:HG	2.14	0.47
2:E:856:LYS:HZ3	2:E:885:GLN:HB2	1.78	0.47
2:E:893:ASN:O	2:E:896:LYS:NZ	2.47	0.47
2:E:1078:ASP:OD1	2:E:1081:LYS:HG2	2.13	0.47
2:E:1416:GLU:O	2:E:1419:LYS:HB2	2.15	0.47
3:F:60:GLY:HA2	3:F:97:TRP:HZ2	1.78	0.47
1:A:643:SER:HA	1:A:652:LEU:O	2.15	0.47
2:B:473:HIS:HB3	2:B:477:GLY:HA2	1.96	0.47
2:B:751:GLU:OE2	2:B:751:GLU:N	2.38	0.47
2:B:802:MET:HG2	2:B:843:PHE:HE1	1.79	0.47
2:B:928:ILE:O	2:B:932:LEU:HB2	2.15	0.47
2:B:1123:ALA:O	2:B:1126:PRO:HG2	2.14	0.47
2:B:1583:GLN:HG3	2:B:1586:VAL:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1590:LYS:HB3	2:B:1639:VAL:HG12	1.97	0.47
3:C:155:LEU:HD13	3:C:168:VAL:HG22	1.95	0.47
1:D:563:ARG:HB2	1:D:655:ILE:O	2.14	0.47
1:D:585:VAL:HG12	1:D:607:LYS:HD2	1.96	0.47
2:E:257:ASN:O	2:E:487:GLY:HA3	2.14	0.47
2:E:288:ASP:OD1	2:E:291:ARG:NH2	2.47	0.47
2:E:526:HIS:HB2	2:E:552:VAL:O	2.13	0.47
2:E:669:LEU:HD11	2:E:716:LEU:HD13	1.95	0.47
2:E:737:LEU:HD23	2:E:764:PHE:CZ	2.49	0.47
2:E:795:PHE:HZ	2:E:836:LEU:HD12	1.79	0.47
2:E:1387:GLU:HG2	2:E:1388:TYR:N	2.28	0.47
2:E:1607:HIS:NE2	2:E:1619:HIS:HB2	2.29	0.47
3:F:2:GLN:HE22	3:F:49:LYS:HG3	1.79	0.47
3:F:6:CYS:SG	3:F:77:VAL:HG23	2.54	0.47
2:B:902:SER:HA	2:B:905:LEU:HD12	1.96	0.47
2:B:940:VAL:HG13	2:B:992:MET:HE1	1.97	0.47
2:B:1122:LYS:HE2	2:B:1171:LEU:HD22	1.97	0.47
2:B:1280:PRO:HA	2:B:1283:LEU:HD23	1.96	0.47
2:B:1301:TYR:O	2:B:1305:ILE:HG12	2.15	0.47
2:B:1383:TYR:CD2	2:B:1501:TRP:HB3	2.49	0.47
2:B:1384:ARG:HE	2:B:1495:PHE:HB3	1.80	0.47
3:C:43:ASN:HA	3:C:51:VAL:O	2.14	0.47
2:E:802:MET:HG2	2:E:843:PHE:HE1	1.79	0.47
2:E:909:ILE:HA	2:E:912:VAL:HG22	1.97	0.47
2:E:931:ARG:C	2:E:932:LEU:HD12	2.38	0.47
2:E:1468:PHE:HE2	2:E:1470:LYS:HB2	1.78	0.47
2:E:1515:LEU:HD23	2:E:1589:LEU:HD11	1.96	0.47
2:E:1534:GLN:HB3	2:E:1538:TRP:HZ3	1.80	0.47
2:E:1562:GLY:HA3	3:F:36:VAL:HG21	1.96	0.47
3:F:24:THR:HG21	3:F:40:TYR:HB3	1.97	0.47
2:B:46:ARG:HB3	2:B:58:ILE:HA	1.95	0.47
2:B:1044:ASN:HA	2:B:1101:PHE:HZ	1.80	0.47
2:B:1169:LYS:HE3	2:B:1202:GLU:HB3	1.97	0.47
2:B:1383:TYR:CG	2:B:1501:TRP:HB3	2.49	0.47
2:B:1614:GLN:O	2:B:1618:LEU:HD23	2.15	0.47
1:D:642:PHE:HB3	1:D:662:TYR:HE1	1.79	0.47
2:E:158:MET:C	2:E:159:LEU:HD22	2.39	0.47
2:E:902:SER:HA	2:E:905:LEU:HD12	1.96	0.47
2:E:1098:LYS:HD2	2:E:1134:CYS:SG	2.54	0.47
2:E:1570:PHE:HA	2:E:1575:TYR:CG	2.50	0.47
2:E:1590:LYS:HB3	2:E:1639:VAL:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:585:VAL:HG12	1:A:607:LYS:HD2	1.96	0.47
2:B:48:TYR:HB3	2:B:53:LYS:HA	1.96	0.47
2:B:105:LEU:CD1	2:B:117:LEU:HD13	2.45	0.47
2:B:158:MET:C	2:B:159:LEU:HD22	2.39	0.47
2:B:166:ARG:HB2	2:B:174:ASP:H	1.79	0.47
2:B:188:GLU:HG3	2:B:192:LYS:HZ3	1.79	0.47
2:B:245:LEU:HB3	2:B:254:ILE:HD12	1.95	0.47
2:B:560:THR:HG22	2:B:638:LEU:HD23	1.95	0.47
2:B:584:PHE:O	2:B:588:LEU:HG	2.14	0.47
2:B:737:LEU:HD23	2:B:764:PHE:HZ	1.80	0.47
2:B:771:ARG:CZ	2:B:787:PHE:HB3	2.44	0.47
2:B:801:LEU:HA	2:B:804:ARG:NE	2.30	0.47
2:B:868:LEU:HD11	2:B:871:GLN:HG3	1.97	0.47
2:B:909:ILE:HA	2:B:912:VAL:HG22	1.97	0.47
2:B:1249:ASP:HA	2:B:1252:ARG:CD	2.45	0.47
2:B:1323:GLU:HA	2:B:1326:GLU:HB3	1.97	0.47
2:B:1372:PHE:HE1	2:B:1402:PHE:CD2	2.32	0.47
2:B:1401:GLN:HG3	2:B:1402:PHE:CE2	2.49	0.47
2:B:1545:HIS:CB	3:C:5:LYS:HE2	2.43	0.47
2:B:1576:LEU:HG	2:B:1583:GLN:HG2	1.97	0.47
2:B:1599:LEU:HA	2:B:1602:GLU:OE1	2.15	0.47
2:B:1609:GLU:O	2:B:1610:LYS:HD2	2.15	0.47
2:B:1618:LEU:O	2:B:1622:LEU:HG	2.14	0.47
3:C:82:PHE:CE1	3:C:154:TYR:HE1	2.32	0.47
3:C:110:ILE:O	3:C:152:VAL:HG12	2.14	0.47
1:D:625:MET:HE1	1:D:637:VAL:CG2	2.45	0.47
1:D:714:PRO:HD3	2:E:62:THR:HG21	1.96	0.47
2:E:60:PRO:O	2:E:64:ILE:N	2.37	0.47
2:E:98:TRP:HA	2:E:101:ILE:HG22	1.96	0.47
2:E:179:SER:HA	2:E:962:GLN:HE22	1.79	0.47
2:E:737:LEU:HD23	2:E:764:PHE:HZ	1.79	0.47
2:E:792:ARG:O	2:E:796:LEU:HG	2.15	0.47
2:E:895:ASN:O	2:E:899:HIS:N	2.48	0.47
2:E:979:ARG:HG3	2:E:1032:PHE:CE2	2.50	0.47
2:E:987:MET:O	2:E:991:ILE:HG12	2.15	0.47
2:E:997:ILE:HG13	2:E:998:GLY:H	1.79	0.47
2:E:1061:LEU:HA	2:E:1064:PHE:CE1	2.50	0.47
2:E:1406:GLU:OE2	2:E:1423:LYS:HG3	2.14	0.47
2:E:1599:LEU:HA	2:E:1602:GLU:OE1	2.15	0.47
2:E:1622:LEU:O	2:E:1626:PHE:CB	2.61	0.47
1:A:563:ARG:HB2	1:A:655:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:569:ARG:NH2	1:A:571:GLN:OE1	2.47	0.47
2:B:26:GLU:OE1	2:B:29:LEU:HD11	2.14	0.47
2:B:222:TYR:CD1	2:B:289:LEU:HD21	2.50	0.47
2:B:331:ASP:HB3	2:B:336:LYS:HB2	1.97	0.47
2:B:450:LEU:O	2:B:509:TRP:HB2	2.15	0.47
2:B:720:ILE:HG12	2:B:766:PHE:CZ	2.50	0.47
2:B:754:PHE:HZ	2:B:811:LYS:HB2	1.78	0.47
2:B:1133:GLN:O	2:B:1136:PHE:HB3	2.15	0.47
2:B:1291:TYR:CB	2:B:1296:LEU:HD21	2.40	0.47
2:B:1318:ILE:HD11	2:B:1348:PHE:HB2	1.97	0.47
2:B:1570:PHE:HA	2:B:1575:TYR:CG	2.50	0.47
1:D:544:ILE:HG12	1:D:686:LEU:HG	1.95	0.47
2:E:26:GLU:OE1	2:E:29:LEU:HD11	2.14	0.47
2:E:45:TYR:N	2:E:59:PHE:O	2.48	0.47
2:E:166:ARG:HB2	2:E:174:ASP:H	1.79	0.47
2:E:1028:LEU:HD22	2:E:1043:TRP:CH2	2.50	0.47
2:E:1633:VAL:O	2:E:1639:VAL:HG22	2.14	0.47
1:A:584:LYS:HZ1	2:B:1405:ALA:HB2	1.78	0.47
2:B:724:PHE:CZ	2:B:726:ALA:HB3	2.49	0.47
2:B:1221:MET:O	2:B:1225:VAL:HG13	2.15	0.47
2:B:1570:PHE:HA	2:B:1575:TYR:CD2	2.50	0.47
2:E:95:LEU:HD21	2:E:124:LEU:CD1	2.45	0.47
2:E:163:LEU:HD22	2:E:187:HIS:HE1	1.80	0.47
2:E:940:VAL:HG13	2:E:992:MET:HE1	1.97	0.47
2:E:1033:MET:HE2	2:E:1034:ASP:HB2	1.96	0.47
2:E:1283:LEU:HD11	2:E:1291:TYR:HB2	1.97	0.47
2:E:1370:GLN:OE1	2:E:1377:ARG:NH1	2.48	0.47
2:E:1609:GLU:O	2:E:1610:LYS:HD2	2.15	0.47
3:F:7:VAL:CG2	3:F:71:SER:HB3	2.45	0.47
2:B:45:TYR:N	2:B:59:PHE:O	2.48	0.47
2:B:150:ALA:HB1	2:B:197:LYS:HZ1	1.79	0.47
2:B:157:ARG:HH21	2:B:198:ILE:HG12	1.80	0.47
2:B:225:TYR:CZ	2:B:227:ASN:HB2	2.50	0.47
2:B:531:PHE:CE2	2:B:571:VAL:HG22	2.50	0.47
2:B:869:PHE:HA	2:B:918:VAL:HA	1.97	0.47
2:B:1007:MET:O	2:B:1011:MET:HG2	2.15	0.47
2:B:1344:LYS:HB3	2:B:1348:PHE:CZ	2.49	0.47
2:B:1406:GLU:OE2	2:B:1423:LYS:HG3	2.14	0.47
3:C:145:MET:O	3:C:148:GLU:HB3	2.14	0.47
2:E:890:LEU:CD1	2:E:935:ARG:HA	2.45	0.47
2:E:928:ILE:O	2:E:932:LEU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:986:LEU:HB3	2:E:1042:LEU:HD21	1.97	0.47
2:E:1308:PHE:HD1	2:E:1313:MET:HB2	1.79	0.47
2:E:1399:LEU:HD22	2:E:1405:ALA:HA	1.97	0.47
2:E:1481:THR:O	2:E:1483:TRP:HD1	1.97	0.47
3:F:113:VAL:HA	3:F:155:LEU:O	2.15	0.47
1:A:591:LEU:HD22	1:A:604:LEU:HD23	1.97	0.46
1:A:625:MET:HE1	1:A:637:VAL:CG2	2.45	0.46
2:B:143:GLU:HA	2:B:146:LYS:HE2	1.97	0.46
2:B:188:GLU:HG3	2:B:192:LYS:NZ	2.29	0.46
2:B:521:GLU:HG3	2:B:524:ARG:CZ	2.45	0.46
2:B:876:GLU:OE1	2:B:876:GLU:N	2.40	0.46
2:B:890:LEU:CD1	2:B:935:ARG:HA	2.45	0.46
2:B:1308:PHE:HD1	2:B:1313:MET:HB2	1.79	0.46
3:C:113:VAL:HA	3:C:155:LEU:O	2.15	0.46
1:D:701:LEU:HD21	2:E:15:ALA:C	2.40	0.46
2:E:72:GLU:OE1	2:E:86:PRO:HG3	2.14	0.46
2:E:105:LEU:CD1	2:E:117:LEU:HD13	2.45	0.46
2:E:479:LEU:HD11	2:E:494:SER:HB3	1.97	0.46
2:E:800:MET:CE	2:E:804:ARG:HH21	2.28	0.46
2:E:869:PHE:HA	2:E:918:VAL:HA	1.97	0.46
2:E:1169:LYS:HE3	2:E:1202:GLU:HB3	1.97	0.46
2:E:1249:ASP:HA	2:E:1252:ARG:CD	2.45	0.46
2:E:1273:TRP:CD2	2:E:1297:LYS:HD3	2.50	0.46
2:E:1323:GLU:HA	2:E:1326:GLU:HB3	1.97	0.46
2:B:479:LEU:HD11	2:B:494:SER:HB3	1.97	0.46
2:B:485:HIS:O	2:B:514:LYS:N	2.48	0.46
2:B:640:LEU:HD21	2:B:676:LEU:HD21	1.97	0.46
2:E:179:SER:H	2:E:183:LEU:CD1	2.28	0.46
2:E:450:LEU:O	2:E:509:TRP:HB2	2.15	0.46
2:E:521:GLU:HG3	2:E:524:ARG:CZ	2.45	0.46
2:E:720:ILE:HG12	2:E:766:PHE:CZ	2.50	0.46
2:E:1132:MET:HE1	2:E:1187:SER:HA	1.97	0.46
2:E:1337:GLY:HA2	2:E:1340:ASN:HD21	1.80	0.46
2:E:1432:LYS:HD3	2:E:1433:PRO:HD2	1.98	0.46
3:F:82:PHE:CE1	3:F:154:TYR:HE1	2.33	0.46
2:B:45:TYR:HE2	2:B:61:GLU:HG3	1.81	0.46
2:B:124:LEU:HD12	2:B:125:ILE:N	2.31	0.46
2:B:166:ARG:HB3	2:B:171:ASN:HA	1.97	0.46
2:B:530:THR:HA	2:B:549:VAL:HG22	1.96	0.46
2:B:1028:LEU:HD22	2:B:1043:TRP:CH2	2.50	0.46
2:B:1127:ILE:HA	2:B:1130:ASP:OD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1136:PHE:HD1	2:B:1186:LEU:HD23	1.80	0.46
2:B:1367:TYR:C	2:B:1368:TYR:HD1	2.24	0.46
2:B:1399:LEU:HD22	2:B:1405:ALA:HA	1.97	0.46
3:C:24:THR:HG21	3:C:40:TYR:HB3	1.97	0.46
2:E:225:TYR:CZ	2:E:227:ASN:HB2	2.50	0.46
2:E:526:HIS:CE1	2:E:586:LEU:HD21	2.50	0.46
2:E:771:ARG:CZ	2:E:787:PHE:HB3	2.44	0.46
2:E:823:ILE:O	2:E:827:VAL:HG23	2.16	0.46
2:E:868:LEU:HD11	2:E:871:GLN:HG3	1.97	0.46
2:E:987:MET:CE	2:E:1042:LEU:HD13	2.44	0.46
2:E:1127:ILE:HA	2:E:1130:ASP:OD2	2.15	0.46
2:E:1133:GLN:NE2	2:E:1133:GLN:O	2.47	0.46
2:E:1470:LYS:N	2:E:1481:THR:O	2.37	0.46
2:E:1563:PHE:O	2:E:1567:GLU:HG2	2.16	0.46
2:E:1576:LEU:HG	2:E:1583:GLN:HG2	1.97	0.46
2:E:1583:GLN:HG3	2:E:1586:VAL:HG12	1.97	0.46
2:E:1614:GLN:O	2:E:1618:LEU:HD23	2.15	0.46
3:F:53:LEU:HD22	3:F:169:PHE:HE1	1.80	0.46
3:F:122:ASP:O	3:F:126:ILE:HG12	2.16	0.46
1:A:566:ASN:OD1	1:A:633:GLN:NE2	2.49	0.46
1:A:624:HIS:HB3	1:A:653:ASN:HB3	1.97	0.46
1:A:727:ASN:H	2:B:46:ARG:HH21	1.62	0.46
2:B:62:THR:HG23	2:B:63:TYR:CD1	2.50	0.46
2:B:296:LEU:HB2	2:B:329:ILE:HG21	1.97	0.46
2:B:1515:LEU:HG	2:B:1575:TYR:HE2	1.76	0.46
3:C:21:ILE:HB	3:C:40:TYR:CE2	2.51	0.46
1:D:617:VAL:O	1:D:642:PHE:HA	2.15	0.46
1:D:643:SER:HA	1:D:652:LEU:O	2.15	0.46
2:E:124:LEU:HD12	2:E:125:ILE:N	2.31	0.46
2:E:296:LEU:HB2	2:E:329:ILE:HG21	1.97	0.46
2:E:473:HIS:HB3	2:E:477:GLY:HA2	1.96	0.46
2:E:640:LEU:HD21	2:E:676:LEU:HD21	1.97	0.46
2:E:802:MET:HG2	2:E:843:PHE:CE1	2.51	0.46
2:E:1057:GLU:HA	2:E:1061:LEU:HD22	1.98	0.46
2:E:1221:MET:O	2:E:1225:VAL:HG13	2.15	0.46
2:E:1483:TRP:CZ2	2:E:1513:SER:HA	2.49	0.46
2:E:1491:THR:HG21	2:E:1495:PHE:CE1	2.51	0.46
2:B:526:HIS:HE1	2:B:585:TYR:OH	1.99	0.46
2:B:840:PHE:O	2:B:844:ILE:HG13	2.16	0.46
2:B:895:ASN:O	2:B:899:HIS:N	2.48	0.46
2:B:979:ARG:HG3	2:B:1032:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1061:LEU:HA	2:B:1064:PHE:CE1	2.50	0.46
2:B:1125:ILE:CG1	2:B:1172:LEU:HD23	2.44	0.46
2:B:1129:PHE:HZ	2:B:1183:HIS:HB2	1.81	0.46
2:B:1353:ILE:HG23	2:E:1335:TYR:CD2	2.51	0.46
2:B:1362:TYR:CE1	2:B:1384:ARG:HG3	2.50	0.46
2:B:1607:HIS:NE2	2:B:1619:HIS:HB2	2.29	0.46
3:C:7:VAL:CG2	3:C:71:SER:HB3	2.45	0.46
2:E:7:THR:HG22	2:E:9:ARG:H	1.80	0.46
2:E:820:LEU:HD12	2:E:823:ILE:HD11	1.98	0.46
2:E:958:ILE:HG21	2:E:1017:PHE:HE1	1.81	0.46
2:E:1007:MET:O	2:E:1011:MET:HG2	2.15	0.46
2:E:1133:GLN:O	2:E:1136:PHE:HB3	2.15	0.46
2:E:1362:TYR:CE1	2:E:1384:ARG:HG3	2.51	0.46
2:E:1368:TYR:CE2	2:E:1419:LYS:HE3	2.49	0.46
2:B:820:LEU:HD12	2:B:823:ILE:HD11	1.98	0.46
2:B:986:LEU:HB3	2:B:1042:LEU:HD21	1.97	0.46
2:B:1012:THR:O	2:B:1016:VAL:HG22	2.16	0.46
2:B:1057:GLU:HA	2:B:1061:LEU:HD22	1.98	0.46
2:B:1125:ILE:HA	2:B:1128:PHE:CD2	2.51	0.46
2:B:1206:ASP:HA	2:B:1209:THR:HG22	1.96	0.46
3:C:53:LEU:HD22	3:C:169:PHE:HE1	1.80	0.46
1:D:566:ASN:OD1	1:D:633:GLN:NE2	2.49	0.46
2:E:45:TYR:HE2	2:E:61:GLU:HG3	1.81	0.46
2:E:62:THR:HG23	2:E:63:TYR:CD1	2.50	0.46
2:E:157:ARG:HH21	2:E:198:ILE:HG12	1.80	0.46
2:E:485:HIS:O	2:E:514:LYS:N	2.48	0.46
2:E:529:PHE:HE2	2:E:552:VAL:HG12	1.81	0.46
2:E:801:LEU:HA	2:E:804:ARG:NE	2.30	0.46
2:E:907:SER:OG	2:E:908:ASN:N	2.49	0.46
2:E:1122:LYS:HE2	2:E:1171:LEU:HD22	1.97	0.46
2:E:1129:PHE:HZ	2:E:1183:HIS:HB2	1.81	0.46
2:E:1203:ASN:O	2:E:1207:TYR:CB	2.64	0.46
2:E:1249:ASP:O	2:E:1252:ARG:HD3	2.16	0.46
2:E:1383:TYR:HA	2:E:1501:TRP:HA	1.98	0.46
2:E:1486:ARG:HB2	2:E:1510:GLU:HB2	1.98	0.46
2:E:1623:SER:HA	2:E:1627:ARG:HH11	1.81	0.46
3:F:21:ILE:HB	3:F:40:TYR:CE2	2.51	0.46
1:A:543:GLU:OE1	1:A:543:GLU:N	2.48	0.46
2:B:81:ILE:HD11	2:B:138:LYS:HE2	1.98	0.46
2:B:871:GLN:HB2	2:B:918:VAL:O	2.16	0.46
2:B:1139:SER:OG	2:B:1143:ASN:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1390:ARG:HD3	3:C:44:VAL:HG13	1.96	0.46
2:B:1486:ARG:HB2	2:B:1510:GLU:HB2	1.98	0.46
2:B:1563:PHE:O	2:B:1567:GLU:HG2	2.16	0.46
3:C:122:ASP:O	3:C:126:ILE:HG12	2.16	0.46
1:D:544:ILE:HD11	1:D:689:LEU:HB2	1.98	0.46
2:E:222:TYR:CD1	2:E:289:LEU:HD21	2.50	0.46
2:E:932:LEU:CA	2:E:935:ARG:HE	2.29	0.46
2:E:1125:ILE:HA	2:E:1128:PHE:CD2	2.51	0.46
2:B:95:LEU:HD21	2:B:124:LEU:CD1	2.45	0.46
2:B:98:TRP:CE3	2:B:101:ILE:HG21	2.51	0.46
2:B:245:LEU:HB2	2:B:254:ILE:HB	1.98	0.46
2:B:441:ASP:O	2:B:629:THR:OG1	2.26	0.46
2:B:792:ARG:O	2:B:796:LEU:HG	2.15	0.46
2:B:856:LYS:NZ	2:B:885:GLN:HB2	2.31	0.46
2:B:932:LEU:CA	2:B:935:ARG:HE	2.29	0.46
2:B:990:PHE:HB3	2:B:1045:ASN:OD1	2.16	0.46
2:B:1111:GLU:HA	2:B:1114:LEU:HD12	1.98	0.46
2:B:1233:GLU:C	2:B:1234:LYS:HE2	2.41	0.46
2:B:1283:LEU:HD11	2:B:1291:TYR:HB2	1.97	0.46
2:B:1416:GLU:O	2:B:1419:LYS:HB2	2.15	0.46
2:B:1467:PRO:HA	2:B:1484:ILE:HD13	1.98	0.46
2:B:1491:THR:HG21	2:B:1495:PHE:CE1	2.51	0.46
2:E:245:LEU:HB2	2:E:254:ILE:HB	1.98	0.46
2:E:530:THR:HA	2:E:549:VAL:HG22	1.96	0.46
2:E:744:ALA:HB1	2:E:812:ILE:HD13	1.98	0.46
2:E:1044:ASN:HA	2:E:1101:PHE:HZ	1.80	0.46
2:E:1066:GLN:HA	2:E:1069:ARG:NH2	2.31	0.46
2:E:1404:ASN:HB3	2:E:1423:LYS:HD2	1.98	0.46
2:E:1570:PHE:HA	2:E:1575:TYR:CD2	2.50	0.46
2:E:1601:THR:HG22	2:E:1605:ARG:CZ	2.46	0.46
3:F:80:ILE:CD1	3:F:97:TRP:HB3	2.46	0.46
2:B:7:THR:HG22	2:B:9:ARG:H	1.80	0.46
2:B:823:ILE:HA	2:B:826:ASP:OD2	2.16	0.46
2:B:1203:ASN:O	2:B:1207:TYR:CB	2.64	0.46
2:B:1206:ASP:OD1	2:B:1207:TYR:N	2.49	0.46
3:C:80:ILE:CD1	3:C:97:TRP:HB3	2.46	0.46
2:E:48:TYR:HB3	2:E:53:LYS:HA	1.96	0.46
2:E:840:PHE:O	2:E:844:ILE:HG13	2.16	0.46
2:E:933:LEU:H	2:E:935:ARG:NH2	2.14	0.46
2:E:1139:SER:OG	2:E:1143:ASN:HA	2.16	0.46
2:E:1457:ASN:O	2:E:1459:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1466:ARG:O	2:E:1484:ILE:HA	2.16	0.46
3:F:53:LEU:HD22	3:F:173:ILE:HD11	1.97	0.46
1:A:556:LEU:HD11	1:A:668:GLY:C	2.41	0.46
2:B:526:HIS:CE1	2:B:586:LEU:HD21	2.50	0.46
2:B:578:LYS:HD3	2:B:584:PHE:CZ	2.51	0.46
2:B:1062:GLU:OE2	2:B:1080:ARG:NH1	2.49	0.46
2:B:1370:GLN:OE1	2:B:1377:ARG:NH1	2.48	0.46
2:B:1566:TYR:HB3	2:B:1571:PHE:CE1	2.51	0.46
2:B:1623:SER:HA	2:B:1627:ARG:HH11	1.80	0.46
3:C:60:GLY:HA2	3:C:97:TRP:CZ2	2.51	0.46
2:E:554:LEU:HA	2:E:562:LEU:HB2	1.97	0.46
2:E:680:MET:HG3	2:E:681:MET:HE3	1.98	0.46
2:E:1002:TYR:OH	2:E:1013:GLN:HB2	2.16	0.46
2:E:1136:PHE:HD1	2:E:1186:LEU:HD23	1.80	0.46
2:E:1301:TYR:O	2:E:1305:ILE:HG12	2.15	0.46
2:E:1467:PRO:HA	2:E:1484:ILE:HD13	1.98	0.46
2:B:456:ASP:HB3	2:B:573:LYS:NZ	2.32	0.45
2:B:802:MET:HG2	2:B:843:PHE:CE1	2.51	0.45
2:B:1273:TRP:CD2	2:B:1297:LYS:HD3	2.50	0.45
2:B:1432:LYS:HD3	2:B:1433:PRO:HD2	1.98	0.45
2:B:1534:GLN:HB3	2:B:1538:TRP:HZ3	1.80	0.45
2:E:166:ARG:HB3	2:E:171:ASN:HA	1.97	0.45
2:E:285:SER:OG	2:E:288:ASP:OD2	2.33	0.45
2:E:446:ILE:HG12	2:E:626:ILE:HG12	1.98	0.45
2:E:531:PHE:CE2	2:E:571:VAL:HG22	2.50	0.45
2:E:1209:THR:O	2:E:1213:GLN:HB2	2.15	0.45
2:E:1357:ARG:NH1	2:E:1456:ALA:HB3	2.28	0.45
2:E:1566:TYR:HB3	2:E:1571:PHE:CE1	2.51	0.45
3:F:9:VAL:HG23	3:F:80:ILE:HA	1.98	0.45
1:A:545:LEU:HB2	1:A:686:LEU:HD11	1.98	0.45
2:B:19:TYR:HE2	2:B:26:GLU:HB3	1.82	0.45
2:B:127:TRP:HD1	2:B:130:GLN:NE2	2.14	0.45
2:B:554:LEU:HA	2:B:562:LEU:HB2	1.97	0.45
2:B:792:ARG:NE	2:B:835:GLU:OE1	2.50	0.45
2:B:795:PHE:HZ	2:B:836:LEU:HD12	1.79	0.45
2:B:844:ILE:O	2:B:847:ILE:HB	2.16	0.45
2:B:899:HIS:HD2	2:B:943:MET:HG2	1.81	0.45
2:B:907:SER:OG	2:B:908:ASN:N	2.49	0.45
2:B:987:MET:O	2:B:991:ILE:HG12	2.15	0.45
2:B:1066:GLN:HA	2:B:1069:ARG:NH2	2.31	0.45
2:B:1337:GLY:HA2	2:B:1340:ASN:HD21	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1382:ILE:HD11	2:B:1489:TYR:HB3	1.99	0.45
2:E:119:GLN:HE22	2:E:120:MET:HE3	1.82	0.45
2:E:127:TRP:HD1	2:E:130:GLN:NE2	2.14	0.45
2:E:1482:MET:C	2:E:1517:ASN:HD22	2.24	0.45
1:A:711:PRO:HD2	2:B:17:TYR:CE1	2.51	0.45
2:B:464:LYS:HE2	2:B:464:LYS:HA	1.99	0.45
2:B:1516:GLU:HA	2:B:1519:ILE:HD12	1.98	0.45
2:B:1606:ILE:HG13	2:B:1607:HIS:N	2.31	0.45
2:E:143:GLU:HA	2:E:146:LYS:HE2	1.97	0.45
2:E:823:ILE:HA	2:E:826:ASP:OD2	2.16	0.45
2:E:934:ARG:HD2	2:E:985:PHE:CD1	2.52	0.45
2:E:1157:GLN:O	2:E:1160:GLU:HB3	2.17	0.45
2:E:1334:ASP:OD2	2:E:1337:GLY:HA3	2.17	0.45
2:E:1566:TYR:HD1	2:E:1566:TYR:HA	1.62	0.45
2:B:529:PHE:HE2	2:B:552:VAL:HG12	1.81	0.45
2:B:654:LEU:HD13	2:B:692:LEU:HB2	1.99	0.45
2:B:680:MET:HG3	2:B:681:MET:HE3	1.98	0.45
2:B:1209:THR:O	2:B:1213:GLN:HB2	2.15	0.45
2:B:1249:ASP:O	2:B:1252:ARG:HD3	2.16	0.45
3:C:93:VAL:O	3:C:98:TYR:HB3	2.16	0.45
1:D:591:LEU:HD22	1:D:604:LEU:HD23	1.97	0.45
2:E:19:TYR:HE2	2:E:26:GLU:HB3	1.82	0.45
2:E:331:ASP:HB3	2:E:336:LYS:HB2	1.97	0.45
2:E:419:HIS:CD2	2:E:420:LEU:HG	2.51	0.45
2:E:643:TRP:HD1	2:E:675:ALA:HB1	1.82	0.45
2:E:787:PHE:O	2:E:791:ILE:HG12	2.17	0.45
2:E:806:LEU:HD22	2:E:851:GLN:HB3	1.99	0.45
2:E:853:VAL:O	2:E:857:LEU:HG	2.17	0.45
2:E:1384:ARG:HE	2:E:1495:PHE:HB3	1.80	0.45
2:E:1516:GLU:HA	2:E:1519:ILE:HD12	1.98	0.45
1:A:551:GLN:HE22	1:A:555:ARG:HD3	1.81	0.45
2:B:68:GLU:HB3	2:B:76:GLN:HE22	1.82	0.45
2:B:89:GLN:O	2:B:92:THR:OG1	2.31	0.45
2:B:179:SER:H	2:B:183:LEU:CD1	2.28	0.45
2:B:446:ILE:HG12	2:B:626:ILE:HG12	1.98	0.45
2:B:1078:ASP:OD1	2:B:1080:ARG:HB2	2.16	0.45
2:B:1155:LEU:O	2:B:1159:VAL:HG23	2.17	0.45
2:B:1229:ASN:O	2:B:1233:GLU:HG3	2.16	0.45
2:B:1404:ASN:HB3	2:B:1423:LYS:HD2	1.98	0.45
2:B:1482:MET:C	2:B:1517:ASN:HD22	2.24	0.45
3:C:39:ASN:HB3	3:C:56:TRP:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:53:LEU:HD22	3:C:173:ILE:HD11	1.97	0.45
1:D:545:LEU:HB2	1:D:686:LEU:HD11	1.98	0.45
1:D:662:TYR:HA	1:D:665:TRP:HE3	1.82	0.45
1:D:722:PHE:CE1	2:E:1:MET:HB3	2.42	0.45
2:E:98:TRP:CE3	2:E:101:ILE:HG21	2.51	0.45
2:E:526:HIS:HE1	2:E:585:TYR:OH	1.99	0.45
2:E:658:MET:SD	2:E:699:PHE:HD2	2.40	0.45
2:E:844:ILE:O	2:E:847:ILE:HB	2.16	0.45
2:E:990:PHE:HB3	2:E:1045:ASN:OD1	2.16	0.45
2:E:1233:GLU:C	2:E:1234:LYS:HE2	2.41	0.45
2:E:1479:PHE:HB3	2:E:1482:MET:HE2	1.99	0.45
2:E:1479:PHE:HA	2:E:1482:MET:HG2	1.99	0.45
3:F:39:ASN:HA	3:F:57:ASP:N	2.30	0.45
1:A:617:VAL:O	1:A:642:PHE:HA	2.15	0.45
2:B:3:ARG:O	2:B:3:ARG:HD3	2.16	0.45
2:B:163:LEU:HD22	2:B:187:HIS:HE1	1.80	0.45
2:B:419:HIS:CD2	2:B:420:LEU:HG	2.51	0.45
2:B:823:ILE:O	2:B:827:VAL:HG23	2.16	0.45
2:B:1132:MET:HE1	2:B:1187:SER:HA	1.97	0.45
2:B:1168:TYR:CZ	2:B:1172:LEU:HD11	2.52	0.45
2:B:1258:THR:HG22	2:B:1262:TYR:HE2	1.81	0.45
2:B:1411:THR:HB	3:C:28:PHE:CE1	2.52	0.45
2:B:1479:PHE:HA	2:B:1482:MET:HG2	1.99	0.45
2:B:1551:LEU:HB3	2:B:1622:LEU:HD21	1.99	0.45
2:B:1579:HIS:O	2:B:1583:GLN:NE2	2.36	0.45
1:D:711:PRO:HG2	2:E:16:ILE:CD1	2.46	0.45
2:E:5:ILE:N	2:E:40:MET:H	2.01	0.45
2:E:68:GLU:HB3	2:E:76:GLN:HE22	1.82	0.45
2:E:302:ARG:HH22	2:E:375:GLU:HG2	1.82	0.45
2:E:456:ASP:HB3	2:E:573:LYS:NZ	2.32	0.45
2:E:816:ALA:O	2:E:820:LEU:CB	2.63	0.45
2:E:969:TYR:CD2	2:E:1023:GLN:HG3	2.52	0.45
2:E:1206:ASP:OD1	2:E:1207:TYR:N	2.49	0.45
2:E:1367:TYR:C	2:E:1368:TYR:HD1	2.24	0.45
1:A:617:VAL:HG13	1:A:645:LEU:HD11	1.98	0.45
2:B:485:HIS:HA	2:B:492:GLY:HA2	1.98	0.45
2:B:1466:ARG:O	2:B:1484:ILE:HA	2.17	0.45
3:C:9:VAL:HG23	3:C:80:ILE:HA	1.98	0.45
2:E:229:LYS:HE3	2:E:343:GLN:HG2	1.99	0.45
2:E:470:MET:CG	2:E:496:TYR:HB3	2.46	0.45
2:E:640:LEU:HD23	2:E:672:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1114:LEU:HA	2:E:1168:TYR:CZ	2.52	0.45
2:E:1120:LEU:HD12	2:E:1121:ARG:N	2.32	0.45
2:E:1268:ALA:HA	2:E:1271:LEU:HD13	1.99	0.45
2:E:1361:GLU:HB3	2:E:1430:THR:HG23	1.99	0.45
3:F:7:VAL:HB	3:F:78:PHE:CD1	2.52	0.45
3:F:39:ASN:HB3	3:F:56:TRP:HA	1.98	0.45
1:A:588:TYR:HE2	1:A:608:LEU:HB2	1.82	0.45
2:B:197:LYS:O	2:B:200:GLU:N	2.45	0.45
2:B:215:ILE:O	2:B:218:THR:OG1	2.32	0.45
2:B:800:MET:CE	2:B:804:ARG:HH21	2.28	0.45
2:B:969:TYR:CD2	2:B:1023:GLN:HG3	2.52	0.45
2:B:1002:TYR:OH	2:B:1013:GLN:HB2	2.16	0.45
2:B:1170:VAL:O	2:B:1174:LYS:HG3	2.17	0.45
2:B:1365:VAL:N	2:B:1381:PHE:O	2.42	0.45
2:B:1444:LYS:HZ1	2:E:1330:SER:C	2.15	0.45
2:B:1601:THR:HG22	2:B:1605:ARG:CZ	2.46	0.45
1:D:711:PRO:CG	2:E:16:ILE:HG21	2.47	0.45
2:E:821:PRO:O	2:E:824:ILE:HG12	2.17	0.45
2:E:1062:GLU:OE2	2:E:1080:ARG:NH1	2.49	0.45
2:E:1065:SER:OG	2:E:1068:LYS:HE3	2.17	0.45
2:E:1111:GLU:HA	2:E:1114:LEU:HD12	1.98	0.45
2:E:1168:TYR:CZ	2:E:1172:LEU:HD11	2.52	0.45
3:F:93:VAL:O	3:F:98:TYR:HB3	2.16	0.45
1:A:544:ILE:HD11	1:A:689:LEU:HB2	1.98	0.45
1:A:662:TYR:HA	1:A:665:TRP:HE3	1.82	0.45
2:B:101:ILE:O	2:B:105:LEU:HG	2.17	0.45
2:B:103:ARG:HG3	2:B:104:LYS:N	2.32	0.45
2:B:470:MET:CG	2:B:496:TYR:HB3	2.46	0.45
2:B:957:MET:O	2:B:960:LEU:HB3	2.17	0.45
2:B:1283:LEU:HB3	2:B:1288:TYR:HE1	1.82	0.45
1:D:551:GLN:HE22	1:D:555:ARG:HD3	1.82	0.45
1:D:624:HIS:HB3	1:D:653:ASN:HB3	1.98	0.45
2:E:856:LYS:NZ	2:E:885:GLN:HB2	2.31	0.45
2:E:862:LYS:O	2:E:865:GLU:HB3	2.17	0.45
2:E:871:GLN:HB2	2:E:918:VAL:O	2.16	0.45
2:E:1170:VAL:O	2:E:1174:LYS:HG3	2.17	0.45
2:E:1256:ASN:ND2	2:E:1500:LYS:HE2	2.32	0.45
2:B:680:MET:HE1	2:B:733:LEU:HD21	1.99	0.45
2:B:1632:LYS:HA	2:B:1632:LYS:HD2	1.80	0.45
2:E:3:ARG:O	2:E:3:ARG:HD3	2.16	0.45
2:E:81:ILE:HD11	2:E:138:LYS:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:87:LEU:HB2	2:E:145:LYS:HE2	1.99	0.45
2:E:187:HIS:CD2	2:E:1008:VAL:HB	2.52	0.45
2:E:485:HIS:HA	2:E:492:GLY:HA2	1.98	0.45
2:E:1012:THR:O	2:E:1016:VAL:HG22	2.16	0.45
2:E:1078:ASP:OD1	2:E:1080:ARG:HB2	2.16	0.45
2:E:1369:GLY:HA3	2:E:1424:GLN:HA	1.99	0.45
2:E:1551:LEU:HB3	2:E:1622:LEU:HD21	1.99	0.45
3:F:60:GLY:HA2	3:F:97:TRP:CZ2	2.51	0.45
2:B:73:ASP:OD2	2:B:85:LEU:HB3	2.17	0.44
2:B:302:ARG:HH22	2:B:375:GLU:HG2	1.82	0.44
2:B:469:THR:HG22	2:B:495:GLU:HB3	1.99	0.44
2:B:640:LEU:HD23	2:B:672:THR:HG23	1.98	0.44
2:B:1065:SER:OG	2:B:1068:LYS:HE3	2.17	0.44
2:B:1361:GLU:HB3	2:B:1430:THR:HG23	1.99	0.44
3:C:7:VAL:HB	3:C:78:PHE:CD1	2.52	0.44
1:D:577:CYS:SG	1:D:588:TYR:HB3	2.57	0.44
2:E:98:TRP:HE3	2:E:101:ILE:HG21	1.82	0.44
2:E:103:ARG:HG3	2:E:104:LYS:N	2.32	0.44
2:E:349:GLN:NE2	2:E:350:GLN:O	2.32	0.44
2:E:422:ASP:OD1	2:E:422:ASP:N	2.50	0.44
2:E:792:ARG:NE	2:E:835:GLU:OE1	2.50	0.44
2:E:800:MET:O	2:E:804:ARG:HG3	2.17	0.44
2:E:1229:ASN:O	2:E:1233:GLU:HG3	2.16	0.44
2:E:1417:ASP:OD1	2:E:1418:ILE:HG12	2.17	0.44
2:E:1606:ILE:HG13	2:E:1607:HIS:N	2.31	0.44
1:A:696:LEU:HD12	1:A:697:ARG:HE	1.83	0.44
2:B:288:ASP:OD1	2:B:291:ARG:NH2	2.47	0.44
2:B:744:ALA:HB1	2:B:812:ILE:HD13	1.98	0.44
2:B:821:PRO:O	2:B:824:ILE:HG12	2.17	0.44
2:B:853:VAL:O	2:B:857:LEU:HG	2.17	0.44
2:B:862:LYS:O	2:B:865:GLU:HB3	2.17	0.44
2:B:922:ALA:HA	2:B:925:ILE:HD12	2.00	0.44
2:B:933:LEU:H	2:B:935:ARG:NH2	2.14	0.44
2:B:1042:LEU:HD12	2:B:1042:LEU:O	2.18	0.44
2:B:1114:LEU:HA	2:B:1168:TYR:CZ	2.52	0.44
2:B:1183:HIS:CG	2:B:1187:SER:HG	2.30	0.44
2:B:1597:MET:CE	2:B:1633:VAL:HG11	2.47	0.44
1:D:556:LEU:HD11	1:D:668:GLY:C	2.41	0.44
1:D:617:VAL:HG13	1:D:645:LEU:HD11	1.97	0.44
2:E:19:TYR:CD1	2:E:20:ASN:N	2.86	0.44
2:E:690:ASP:OD2	2:E:732:LYS:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1199:SER:O	2:E:1202:GLU:HG2	2.18	0.44
2:E:1217:LYS:HD2	2:E:1220:ARG:HH22	1.82	0.44
2:E:1382:ILE:O	2:E:1502:PHE:N	2.42	0.44
2:E:1469:ARG:HB3	2:E:1473:LYS:HD2	1.98	0.44
2:B:119:GLN:HE22	2:B:120:MET:HE3	1.82	0.44
2:B:225:TYR:HD2	2:B:404:LYS:HB2	1.83	0.44
2:B:229:LYS:HE3	2:B:343:GLN:HG2	1.99	0.44
2:B:658:MET:SD	2:B:699:PHE:HD2	2.40	0.44
2:B:860:MET:SD	2:B:861:THR:N	2.91	0.44
2:B:1180:CYS:CB	2:B:1191:GLU:HG3	2.47	0.44
2:B:1369:GLY:HA3	2:B:1424:GLN:HA	1.99	0.44
2:B:1382:ILE:O	2:B:1502:PHE:N	2.42	0.44
2:B:1417:ASP:OD1	2:B:1418:ILE:HG12	2.17	0.44
2:B:1488:THR:O	2:B:1508:SER:N	2.39	0.44
3:C:11:ASP:OD1	3:C:11:ASP:N	2.49	0.44
2:E:680:MET:HE1	2:E:733:LEU:HD21	1.99	0.44
2:E:930:GLU:HG2	2:E:972:TYR:CD1	2.53	0.44
2:E:1098:LYS:O	2:E:1102:ILE:N	2.50	0.44
2:E:1177:LEU:O	2:E:1181:ARG:HD2	2.18	0.44
2:E:1180:CYS:CB	2:E:1191:GLU:HG3	2.47	0.44
2:B:19:TYR:OH	2:B:44:TRP:HZ3	2.00	0.44
2:B:328:ASP:OD1	2:B:390:LYS:HE2	2.17	0.44
2:B:480:LEU:HD23	2:B:483:ALA:HB2	2.00	0.44
2:B:806:LEU:HD22	2:B:851:GLN:HB3	1.99	0.44
2:B:934:ARG:HD2	2:B:985:PHE:CD1	2.52	0.44
2:B:934:ARG:HH12	2:B:938:ARG:HB2	1.83	0.44
2:B:974:SER:HB2	2:B:1031:PHE:CE1	2.52	0.44
2:B:1002:TYR:CE1	2:B:1010:ASN:HA	2.52	0.44
2:B:1120:LEU:HD12	2:B:1121:ARG:N	2.32	0.44
2:B:1320:LEU:HA	2:B:1323:GLU:OE2	2.18	0.44
2:B:1334:ASP:OD2	2:B:1337:GLY:HA3	2.17	0.44
2:B:1398:LEU:HB3	2:B:1426:MET:SD	2.58	0.44
2:B:1441:TYR:HD2	2:B:1450:ILE:HG21	1.82	0.44
2:E:23:GLN:HG2	2:E:58:ILE:HB	2.00	0.44
2:E:104:LYS:HD3	2:E:107:VAL:HB	2.00	0.44
2:E:464:LYS:HE2	2:E:464:LYS:HA	1.99	0.44
2:E:468:VAL:HG21	2:E:620:PHE:CE1	2.53	0.44
2:E:889:GLN:NE2	2:E:898:ASP:OD2	2.50	0.44
2:E:994:LYS:HA	2:E:997:ILE:HG12	1.99	0.44
2:E:1393:ASP:O	2:E:1396:LEU:HB3	2.18	0.44
3:F:42:ALA:O	3:F:53:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:816:ALA:O	2:B:820:LEU:CB	2.63	0.44
2:B:889:GLN:NE2	2:B:898:ASP:OD2	2.50	0.44
2:B:979:ARG:HA	2:B:982:ILE:HG22	2.00	0.44
2:B:1240:TYR:CE2	2:B:1244:LEU:HD11	2.53	0.44
2:B:1479:PHE:HB3	2:B:1482:MET:HE2	1.99	0.44
2:E:19:TYR:CG	2:E:59:PHE:CE1	3.05	0.44
2:E:319:ARG:NH1	2:E:511:GLU:OE2	2.48	0.44
2:E:438:LEU:HB2	2:E:441:ASP:OD1	2.17	0.44
2:E:578:LYS:HD3	2:E:584:PHE:CZ	2.51	0.44
2:E:764:PHE:HD1	2:E:823:ILE:HB	1.83	0.44
2:E:957:MET:O	2:E:960:LEU:HB3	2.17	0.44
2:E:1221:MET:SD	2:E:1250:LEU:HB3	2.58	0.44
2:E:1249:ASP:O	2:E:1252:ARG:NH1	2.51	0.44
2:E:1382:ILE:HD11	2:E:1489:TYR:HB3	1.99	0.44
2:E:1382:ILE:HD11	2:E:1504:VAL:HG23	1.99	0.44
2:E:1388:TYR:CB	3:F:45:MET:HE3	2.46	0.44
2:E:1610:LYS:HD2	2:E:1610:LYS:HA	1.73	0.44
1:A:577:CYS:SG	1:A:588:TYR:HB3	2.57	0.44
2:B:166:ARG:CD	2:B:173:LEU:HB2	2.47	0.44
2:B:179:SER:C	2:B:183:LEU:HD13	2.43	0.44
2:B:187:HIS:CD2	2:B:1008:VAL:HB	2.52	0.44
2:B:732:LYS:HA	2:B:732:LYS:HD3	1.84	0.44
2:B:819:TYR:O	2:B:822:SER:OG	2.23	0.44
2:B:868:LEU:O	2:B:918:VAL:HG13	2.18	0.44
2:B:958:ILE:HG21	2:B:1017:PHE:HE1	1.81	0.44
2:B:994:LYS:HA	2:B:997:ILE:HG12	2.00	0.44
2:B:1221:MET:SD	2:B:1250:LEU:HB3	2.58	0.44
2:B:1268:ALA:HB2	2:B:1300:LEU:HD13	1.99	0.44
2:B:1560:MET:O	3:C:36:VAL:HG13	2.18	0.44
2:B:1597:MET:HE3	2:B:1633:VAL:HG11	2.00	0.44
3:C:42:ALA:C	3:C:53:LEU:HG	2.43	0.44
2:E:101:ILE:O	2:E:105:LEU:HG	2.17	0.44
2:E:974:SER:HB2	2:E:1031:PHE:CE1	2.52	0.44
2:E:1027:VAL:HG22	2:E:1032:PHE:HE1	1.83	0.44
2:E:1320:LEU:HA	2:E:1323:GLU:OE2	2.17	0.44
2:E:1343:LYS:HE3	2:E:1343:LYS:HB3	1.85	0.44
2:E:1388:TYR:HD2	3:F:45:MET:HE3	1.83	0.44
1:A:551:GLN:HG3	2:B:106:TYR:CE2	2.53	0.44
2:B:166:ARG:HH21	2:B:169:ASN:ND2	2.14	0.44
2:B:1006:TRP:CE3	2:B:1009:MET:HG3	2.49	0.44
2:B:1383:TYR:HA	2:B:1501:TRP:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1495:PHE:HE1	2:B:1502:PHE:CD2	2.31	0.44
2:B:1567:GLU:O	2:B:1572:THR:N	2.47	0.44
3:C:42:ALA:O	3:C:53:LEU:HG	2.17	0.44
2:E:73:ASP:OD2	2:E:85:LEU:HB3	2.17	0.44
2:E:95:LEU:HA	2:E:98:TRP:HB2	2.00	0.44
2:E:145:LYS:O	2:E:148:VAL:HG12	2.17	0.44
2:E:166:ARG:HH21	2:E:169:ASN:ND2	2.14	0.44
2:E:247:ASP:O	2:E:251:SER:N	2.42	0.44
2:E:654:LEU:HD13	2:E:692:LEU:HB2	1.98	0.44
2:E:795:PHE:CZ	2:E:836:LEU:HD12	2.53	0.44
2:E:795:PHE:CE2	2:E:839:LEU:HD13	2.52	0.44
2:E:860:MET:SD	2:E:861:THR:N	2.90	0.44
2:E:1218:GLU:HB2	2:E:1501:TRP:CZ2	2.52	0.44
2:E:1417:ASP:OD1	2:E:1417:ASP:N	2.51	0.44
3:F:72:TYR:HB2	3:F:73:PRO:HD3	2.00	0.44
1:A:532:PRO:O	1:A:536:LEU:HD13	2.18	0.44
1:A:544:ILE:HG23	1:A:545:LEU:H	1.83	0.44
2:B:19:TYR:CD1	2:B:20:ASN:N	2.86	0.44
2:B:643:TRP:HD1	2:B:675:ALA:HB1	1.82	0.44
2:B:795:PHE:CE2	2:B:839:LEU:HD13	2.52	0.44
2:B:1393:ASP:O	2:B:1396:LEU:HB3	2.18	0.44
2:B:1469:ARG:HB3	2:B:1473:LYS:HD2	1.98	0.44
3:C:21:ILE:HD11	3:C:35:THR:HG23	2.00	0.44
3:C:72:TYR:HB2	3:C:73:PRO:HD3	2.00	0.44
3:C:85:VAL:O	3:C:129:LEU:HD21	2.18	0.44
1:D:585:VAL:HB	1:D:606:ASP:O	2.18	0.44
2:E:19:TYR:CZ	2:E:60:PRO:HD3	2.53	0.44
2:E:204:ILE:HG23	2:E:211:ARG:CZ	2.48	0.44
2:E:931:ARG:C	2:E:935:ARG:HE	2.26	0.44
2:E:1361:GLU:OE2	2:E:1388:TYR:HA	2.18	0.44
2:E:1567:GLU:O	2:E:1572:THR:N	2.47	0.44
2:E:1597:MET:CE	2:E:1633:VAL:HG11	2.47	0.44
2:B:285:SER:OG	2:B:288:ASP:OD2	2.33	0.44
2:B:663:GLY:O	2:B:667:LYS:HG3	2.17	0.44
2:B:690:ASP:OD2	2:B:732:LYS:HB3	2.17	0.44
2:B:787:PHE:O	2:B:791:ILE:HG12	2.17	0.44
2:B:820:LEU:HB3	2:B:821:PRO:HD3	2.00	0.44
2:B:1217:LYS:HD2	2:B:1220:ARG:HH22	1.82	0.44
2:B:1224:THR:HA	2:B:1227:VAL:HG12	1.99	0.44
2:B:1483:TRP:HA	2:B:1512:ILE:O	2.18	0.44
2:E:19:TYR:OH	2:E:44:TRP:HZ3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:162:ASP:OD2	2:E:1071:LYS:NZ	2.51	0.44
2:E:302:ARG:HG3	2:E:320:ARG:HB2	2.00	0.44
2:E:471:SER:N	2:E:528:ARG:O	2.35	0.44
2:E:663:GLY:O	2:E:667:LYS:HG3	2.17	0.44
2:E:911:GLU:O	2:E:915:ARG:HG2	2.18	0.44
2:E:958:ILE:HB	2:E:1016:VAL:CG2	2.48	0.44
2:E:1002:TYR:CE1	2:E:1010:ASN:HA	2.52	0.44
2:E:1268:ALA:HB2	2:E:1300:LEU:HD13	1.99	0.44
2:E:1337:GLY:HA2	2:E:1340:ASN:ND2	2.33	0.44
2:B:572:TYR:OH	2:B:589:PRO:HD2	2.17	0.43
2:B:800:MET:O	2:B:804:ARG:HG3	2.17	0.43
2:B:820:LEU:O	2:B:824:ILE:HG23	2.18	0.43
2:B:930:GLU:HG2	2:B:972:TYR:CD1	2.53	0.43
2:B:1256:ASN:ND2	2:B:1500:LYS:HE2	2.32	0.43
2:E:572:TYR:OH	2:E:589:PRO:HD2	2.17	0.43
2:E:654:LEU:O	2:E:658:MET:HE2	2.18	0.43
2:E:1062:GLU:O	2:E:1069:ARG:HD3	2.18	0.43
2:E:1063:THR:HA	2:E:1069:ARG:HD2	2.00	0.43
2:E:1398:LEU:HB3	2:E:1426:MET:SD	2.58	0.43
2:E:1483:TRP:HA	2:E:1512:ILE:O	2.18	0.43
3:F:42:ALA:C	3:F:53:LEU:HG	2.43	0.43
1:A:585:VAL:HB	1:A:606:ASP:O	2.18	0.43
1:A:711:PRO:HD2	2:B:17:TYR:CD1	2.53	0.43
2:B:87:LEU:HA	2:B:90:GLU:HG3	2.00	0.43
2:B:98:TRP:HE3	2:B:101:ILE:HG21	1.82	0.43
2:B:438:LEU:HB2	2:B:441:ASP:OD1	2.17	0.43
2:B:556:ASN:N	2:B:560:THR:O	2.41	0.43
2:B:853:VAL:HG23	2:B:854:ARG:N	2.33	0.43
2:B:908:ASN:O	2:B:912:VAL:HG22	2.18	0.43
2:B:1218:GLU:HB2	2:B:1501:TRP:CZ2	2.52	0.43
2:B:1263:THR:HA	2:B:1266:LEU:HD12	2.00	0.43
2:B:1545:HIS:O	2:B:1549:MET:HG2	2.18	0.43
1:D:532:PRO:O	1:D:536:LEU:HD13	2.18	0.43
1:D:588:TYR:HE2	1:D:608:LEU:HB2	1.82	0.43
2:E:87:LEU:HA	2:E:90:GLU:HG3	2.00	0.43
2:E:730:TYR:CE1	2:E:771:ARG:HD3	2.53	0.43
2:E:853:VAL:HG23	2:E:854:ARG:N	2.33	0.43
2:E:1240:TYR:CE2	2:E:1244:LEU:HD11	2.53	0.43
3:F:39:ASN:CA	3:F:57:ASP:H	2.27	0.43
2:B:5:ILE:N	2:B:40:MET:H	2.01	0.43
2:B:145:LYS:O	2:B:148:VAL:HG12	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:204:ILE:HG23	2:B:211:ARG:CZ	2.48	0.43
2:B:305:HIS:CD2	2:B:314:HIS:HB2	2.53	0.43
2:B:305:HIS:HA	2:B:315:THR:O	2.18	0.43
2:B:499:VAL:HB	2:B:509:TRP:HD1	1.84	0.43
2:B:821:PRO:HA	2:B:824:ILE:HG12	2.01	0.43
2:B:931:ARG:C	2:B:935:ARG:HE	2.26	0.43
2:B:948:PRO:C	2:B:950:ILE:H	2.27	0.43
2:B:1157:GLN:O	2:B:1160:GLU:HB3	2.17	0.43
2:B:1268:ALA:HA	2:B:1271:LEU:HD13	1.99	0.43
2:E:179:SER:C	2:E:183:LEU:HD13	2.43	0.43
2:E:225:TYR:HD2	2:E:404:LYS:HB2	1.83	0.43
2:E:1022:ASN:O	2:E:1026:GLU:OE1	2.36	0.43
2:E:1181:ARG:HH11	2:E:1191:GLU:CD	2.27	0.43
2:E:1324:LEU:HD23	2:E:1341:LEU:HD13	2.01	0.43
2:E:1365:VAL:N	2:E:1381:PHE:O	2.42	0.43
2:E:1583:GLN:O	2:E:1586:VAL:HG12	2.18	0.43
1:A:579:LEU:HD12	1:A:580:SER:H	1.84	0.43
2:B:438:LEU:N	2:B:441:ASP:OD2	2.51	0.43
2:B:500:VAL:HG11	2:B:534:ARG:HB2	2.00	0.43
2:B:714:PRO:O	2:B:718:THR:OG1	2.26	0.43
2:B:730:TYR:CE1	2:B:771:ARG:HD3	2.53	0.43
2:B:1003:ALA:C	2:B:1005:ASP:H	2.27	0.43
2:B:1063:THR:HA	2:B:1069:ARG:HD2	2.00	0.43
2:B:1249:ASP:O	2:B:1252:ARG:NH1	2.51	0.43
2:B:1382:ILE:HD11	2:B:1504:VAL:HG23	2.00	0.43
2:B:1457:ASN:O	2:B:1459:VAL:HG13	2.16	0.43
2:B:1471:GLY:C	2:B:1481:THR:HG22	2.44	0.43
1:D:544:ILE:HG23	1:D:545:LEU:H	1.83	0.43
2:E:1:MET:HE1	2:E:44:TRP:CE2	2.53	0.43
2:E:302:ARG:HD3	2:E:322:PHE:CD1	2.47	0.43
2:E:305:HIS:HA	2:E:315:THR:O	2.18	0.43
2:E:340:GLU:HG2	2:E:420:LEU:HD11	2.00	0.43
2:E:795:PHE:HE1	2:E:840:PHE:CD1	2.36	0.43
2:E:821:PRO:HA	2:E:824:ILE:HG12	2.00	0.43
2:E:857:LEU:CB	2:E:905:LEU:HD21	2.47	0.43
2:E:908:ASN:O	2:E:912:VAL:HG22	2.18	0.43
2:E:922:ALA:HA	2:E:925:ILE:HD12	2.00	0.43
2:E:926:GLN:HG2	2:E:971:HIS:ND1	2.34	0.43
2:E:979:ARG:HA	2:E:982:ILE:HG22	2.00	0.43
2:E:1258:THR:HG22	2:E:1262:TYR:HE2	1.80	0.43
2:E:1500:LYS:HB2	2:E:1501:TRP:CE3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:45:MET:HA	3:F:50:PRO:HA	2.00	0.43
2:B:19:TYR:CZ	2:B:60:PRO:HD3	2.53	0.43
2:B:23:GLN:HG2	2:B:58:ILE:HB	2.00	0.43
2:B:87:LEU:HB2	2:B:145:LYS:HE2	1.99	0.43
2:B:95:LEU:HA	2:B:98:TRP:HB2	2.00	0.43
2:B:643:TRP:HE1	2:B:675:ALA:HA	1.83	0.43
2:B:856:LYS:HZ3	2:B:885:GLN:HB2	1.83	0.43
2:B:895:ASN:O	2:B:898:ASP:N	2.51	0.43
2:B:911:GLU:O	2:B:915:ARG:HG2	2.18	0.43
2:B:1062:GLU:O	2:B:1069:ARG:HD3	2.18	0.43
2:B:1596:GLN:O	2:B:1599:LEU:HB3	2.18	0.43
2:E:156:ASN:HD22	2:E:161:LEU:HB2	1.84	0.43
2:E:469:THR:HG22	2:E:495:GLU:HB3	1.99	0.43
2:E:499:VAL:HB	2:E:509:TRP:HD1	1.84	0.43
2:E:528:ARG:HG3	2:E:551:PHE:HB3	2.01	0.43
2:E:831:PHE:CD2	2:E:836:LEU:HB2	2.54	0.43
2:E:1042:LEU:HD12	2:E:1042:LEU:O	2.18	0.43
2:B:8:LYS:HA	2:B:10:GLN:HE22	1.84	0.43
2:B:856:LYS:HZ1	2:B:857:LEU:HD21	1.84	0.43
2:B:1290:VAL:HG13	2:B:1291:TYR:N	2.34	0.43
2:E:248:PRO:HB3	2:E:387:ILE:CG2	2.49	0.43
2:E:328:ASP:OD1	2:E:390:LYS:HE2	2.17	0.43
2:E:673:LEU:HD13	2:E:719:TYR:CD2	2.53	0.43
2:E:735:LYS:HG2	2:E:739:PHE:CE2	2.54	0.43
2:E:836:LEU:HG	2:E:840:PHE:CE2	2.53	0.43
2:E:889:GLN:CA	2:E:895:ASN:HD21	2.31	0.43
2:E:976:PHE:HB2	2:E:982:ILE:HD12	2.01	0.43
2:E:1048:HIS:HE1	2:E:1105:MET:HA	1.84	0.43
2:E:1227:VAL:HG22	2:E:1231:TYR:CE2	2.54	0.43
2:E:1290:VAL:HG13	2:E:1291:TYR:N	2.34	0.43
2:E:1545:HIS:O	2:E:1549:MET:HG2	2.18	0.43
2:E:1556:ASP:O	2:E:1558:ALA:N	2.51	0.43
3:F:21:ILE:HD11	3:F:35:THR:HG23	2.00	0.43
3:F:85:VAL:O	3:F:129:LEU:HD21	2.18	0.43
2:B:167:ASP:OD1	2:B:168:ASP:N	2.52	0.43
2:B:214:SER:O	2:B:217:SER:OG	2.37	0.43
2:B:302:ARG:HG3	2:B:320:ARG:HB2	2.00	0.43
2:B:958:ILE:HB	2:B:1016:VAL:CG2	2.48	0.43
2:B:995:ASP:OD1	2:B:999:LYS:HE3	2.18	0.43
2:B:1061:LEU:HA	2:B:1064:PHE:CZ	2.53	0.43
2:B:1243:TYR:HD2	2:B:1246:LYS:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1337:GLY:HA2	2:B:1340:ASN:ND2	2.33	0.43
2:B:1500:LYS:HB2	2:B:1501:TRP:CE3	2.53	0.43
1:D:575:TRP:CZ3	1:D:588:TYR:HB2	2.54	0.43
1:D:693:GLU:OE1	1:D:696:LEU:HD11	2.19	0.43
2:E:53:LYS:HG3	2:E:53:LYS:O	2.19	0.43
2:E:123:SER:O	2:E:126:GLU:HG3	2.19	0.43
2:E:1061:LEU:HA	2:E:1064:PHE:CZ	2.53	0.43
2:E:1206:ASP:O	2:E:1210:ILE:HG12	2.19	0.43
2:E:1313:MET:SD	2:E:1453:TYR:OH	2.71	0.43
1:A:579:LEU:HA	1:A:586:LEU:HD13	2.01	0.43
2:B:528:ARG:HG3	2:B:551:PHE:HB3	2.00	0.43
2:B:764:PHE:HD1	2:B:823:ILE:HB	1.83	0.43
2:B:976:PHE:HB2	2:B:982:ILE:HD12	2.00	0.43
2:B:1059:LEU:HD21	2:B:1117:GLU:OE2	2.19	0.43
2:B:1177:LEU:O	2:B:1181:ARG:HD2	2.18	0.43
2:B:1239:ILE:HG23	2:B:1242:ARG:HH21	1.83	0.43
2:B:1275:ASP:OD2	2:B:1275:ASP:N	2.45	0.43
1:D:615:ALA:H	1:D:645:LEU:HB2	1.84	0.43
2:E:88:VAL:HB	2:E:128:ARG:HH22	1.84	0.43
2:E:91:LEU:HD12	2:E:91:LEU:HA	1.81	0.43
2:E:804:ARG:HD2	2:E:808:GLU:OE2	2.19	0.43
2:E:820:LEU:HB3	2:E:821:PRO:HD3	2.00	0.43
2:E:934:ARG:HH12	2:E:938:ARG:HB2	1.83	0.43
2:E:1155:LEU:O	2:E:1159:VAL:HG23	2.17	0.43
2:E:1283:LEU:HB3	2:E:1288:TYR:HE1	1.82	0.43
2:E:1495:PHE:HE1	2:E:1502:PHE:CD2	2.31	0.43
2:E:1617:PRO:HB2	2:E:1621:ARG:HH22	1.84	0.43
1:A:652:LEU:HD13	1:A:654:PHE:CZ	2.54	0.43
2:B:118:GLN:HB3	2:B:122:TYR:OH	2.19	0.43
2:B:380:THR:HG21	2:B:510:TYR:CD2	2.54	0.43
2:B:673:LEU:HD13	2:B:719:TYR:CD2	2.53	0.43
2:B:718:THR:HG23	2:B:722:LYS:NZ	2.34	0.43
2:B:795:PHE:HE1	2:B:840:PHE:CD1	2.36	0.43
2:B:1111:GLU:O	2:B:1114:LEU:HB2	2.19	0.43
2:B:1199:SER:O	2:B:1202:GLU:HG2	2.18	0.43
1:D:543:GLU:OE1	1:D:543:GLU:N	2.49	0.43
1:D:640:LEU:O	1:D:655:ILE:HA	2.19	0.43
2:E:305:HIS:CD2	2:E:314:HIS:HB2	2.53	0.43
2:E:500:VAL:HG11	2:E:534:ARG:HB2	2.00	0.43
2:E:710:GLN:HA	2:E:713:ASN:OD1	2.19	0.43
2:E:1224:THR:HA	2:E:1227:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1309:ASP:O	2:E:1312:LYS:HE2	2.19	0.43
2:E:1406:GLU:OE1	2:E:1423:LYS:NZ	2.52	0.43
2:E:1597:MET:HE3	2:E:1633:VAL:HG11	2.00	0.43
3:F:1:MET:HE2	3:F:43:ASN:HD21	1.84	0.43
1:A:615:ALA:H	1:A:645:LEU:HB2	1.84	0.43
1:A:640:LEU:O	1:A:655:ILE:HA	2.19	0.43
2:B:162:ASP:OD2	2:B:1071:LYS:NZ	2.50	0.43
2:B:468:VAL:HG21	2:B:620:PHE:CE1	2.53	0.43
2:B:470:MET:HA	2:B:529:PHE:HA	2.01	0.43
2:B:582:ALA:HA	2:B:585:TYR:CE2	2.54	0.43
2:B:773:LEU:HA	2:B:776:ARG:CZ	2.49	0.43
2:B:795:PHE:CZ	2:B:836:LEU:HD12	2.53	0.43
2:B:804:ARG:HD2	2:B:808:GLU:OE2	2.18	0.43
2:B:1115:THR:O	2:B:1121:ARG:NH2	2.52	0.43
2:B:1324:LEU:HD23	2:B:1341:LEU:HD13	2.01	0.43
2:B:1361:GLU:OE2	2:B:1388:TYR:HA	2.18	0.43
2:B:1406:GLU:OE1	2:B:1423:LYS:NZ	2.52	0.43
2:B:1556:ASP:O	2:B:1558:ALA:N	2.51	0.43
3:C:45:MET:HA	3:C:50:PRO:HA	2.00	0.43
1:D:704:ILE:HD11	2:E:65:HIS:CD2	2.54	0.43
2:E:166:ARG:CD	2:E:173:LEU:HB2	2.47	0.43
2:E:219:ILE:O	2:E:222:TYR:OH	2.21	0.43
2:E:287:MET:HA	2:E:290:ILE:HG12	2.01	0.43
2:E:326:VAL:H	2:E:386:VAL:HG11	1.84	0.43
2:E:480:LEU:HD23	2:E:483:ALA:HB2	1.99	0.43
2:E:519:ILE:HG23	2:E:631:LEU:HG	2.01	0.43
2:E:636:ASP:HB2	2:E:660:VAL:HG22	2.01	0.43
2:E:868:LEU:HD12	2:E:868:LEU:HA	1.78	0.43
2:E:868:LEU:O	2:E:918:VAL:HG13	2.18	0.43
2:E:1223:CYS:HA	2:E:1226:ASN:ND2	2.34	0.43
2:E:1362:TYR:OH	2:E:1456:ALA:O	2.20	0.43
2:E:1556:ASP:CG	2:E:1558:ALA:HB2	2.44	0.43
2:E:1568:LYS:O	2:E:1572:THR:OG1	2.37	0.43
3:F:9:VAL:HB	3:F:97:TRP:CE3	2.54	0.43
2:B:435:GLU:HA	2:B:708:LYS:HZ2	1.81	0.42
2:B:463:PRO:HD2	2:B:503:GLN:HB3	2.01	0.42
2:B:1386:LYS:HG3	2:B:1387:GLU:H	1.84	0.42
2:B:1617:PRO:HB2	2:B:1621:ARG:HH22	1.84	0.42
1:D:633:GLN:HB3	1:D:637:VAL:HG21	2.01	0.42
1:D:652:LEU:HD13	1:D:654:PHE:CZ	2.54	0.42
2:E:468:VAL:HG22	2:E:531:PHE:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:473:HIS:HD2	2:E:528:ARG:HB3	1.84	0.42
2:E:773:LEU:HA	2:E:776:ARG:CZ	2.49	0.42
2:E:995:ASP:OD1	2:E:999:LYS:HE3	2.18	0.42
2:E:1248:ARG:HD2	2:E:1249:ASP:N	2.34	0.42
2:E:1318:ILE:O	2:E:1322:LYS:HG2	2.19	0.42
2:E:1367:TYR:CZ	2:E:1402:PHE:HE2	2.36	0.42
2:E:1596:GLN:O	2:E:1599:LEU:HB3	2.18	0.42
2:E:1631:GLU:O	2:E:1635:LYS:HG2	2.19	0.42
3:F:20:LEU:O	3:F:24:THR:HG23	2.19	0.42
3:F:82:PHE:HB3	3:F:93:VAL:HG21	2.01	0.42
2:B:53:LYS:HG3	2:B:53:LYS:O	2.19	0.42
2:B:153:ASP:HA	2:B:156:ASN:OD1	2.19	0.42
2:B:248:PRO:HB3	2:B:387:ILE:HG21	2.01	0.42
2:B:857:LEU:CB	2:B:905:LEU:HD21	2.47	0.42
2:B:889:GLN:CA	2:B:895:ASN:HD21	2.31	0.42
2:B:930:GLU:HG2	2:B:972:TYR:CG	2.54	0.42
2:B:1048:HIS:CE1	2:B:1108:PRO:HG2	2.54	0.42
2:B:1181:ARG:HH11	2:B:1191:GLU:CD	2.27	0.42
2:B:1206:ASP:O	2:B:1210:ILE:HG12	2.19	0.42
2:B:1318:ILE:O	2:B:1322:LYS:HG2	2.19	0.42
2:B:1357:ARG:NE	2:B:1452:ASN:O	2.53	0.42
2:B:1367:TYR:CZ	2:B:1402:PHE:HE2	2.36	0.42
2:B:1372:PHE:N	2:B:1424:GLN:HG2	2.35	0.42
3:C:8:VAL:HG11	3:C:20:LEU:HD11	2.02	0.42
3:C:44:VAL:HG12	3:C:45:MET:O	2.18	0.42
1:D:696:LEU:HD12	1:D:697:ARG:HE	1.83	0.42
2:E:718:THR:HG23	2:E:722:LYS:NZ	2.34	0.42
2:E:1263:THR:HA	2:E:1266:LEU:HD12	2.00	0.42
2:E:1386:LYS:HG3	2:E:1387:GLU:H	1.84	0.42
1:A:693:GLU:OE1	1:A:696:LEU:HD11	2.19	0.42
1:A:711:PRO:O	2:B:63:TYR:OH	2.27	0.42
1:A:714:PRO:HD3	2:B:62:THR:HG21	2.00	0.42
2:B:104:LYS:HD3	2:B:107:VAL:HB	2.00	0.42
2:B:156:ASN:HD22	2:B:161:LEU:HB2	1.84	0.42
2:B:166:ARG:HG2	2:B:173:LEU:HB2	2.01	0.42
2:B:166:ARG:NE	2:B:169:ASN:OD1	2.52	0.42
2:B:248:PRO:HB3	2:B:387:ILE:CG2	2.49	0.42
2:B:468:VAL:HG22	2:B:531:PHE:CD1	2.55	0.42
2:B:792:ARG:HG2	2:B:839:LEU:HD11	2.01	0.42
3:C:82:PHE:HB3	3:C:93:VAL:HG21	2.01	0.42
1:D:693:GLU:OE2	1:D:697:ARG:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:153:ASP:HA	2:E:156:ASN:OD1	2.19	0.42
2:E:438:LEU:N	2:E:441:ASP:OD2	2.52	0.42
2:E:455:PHE:CD2	2:E:466:VAL:HG21	2.54	0.42
2:E:820:LEU:O	2:E:824:ILE:HG23	2.18	0.42
2:E:860:MET:SD	2:E:860:MET:C	3.03	0.42
2:E:1243:TYR:HD2	2:E:1246:LYS:HG3	1.83	0.42
2:E:1471:GLY:C	2:E:1481:THR:HG22	2.44	0.42
2:E:1625:CYS:O	2:E:1628:GLU:HB3	2.19	0.42
1:A:693:GLU:OE2	1:A:697:ARG:HD2	2.19	0.42
2:B:123:SER:O	2:B:126:GLU:HG3	2.19	0.42
2:B:156:ASN:HA	2:B:161:LEU:HD12	2.01	0.42
2:B:273:LYS:O	2:B:277:LEU:N	2.53	0.42
2:B:802:MET:HE1	2:B:847:ILE:N	2.34	0.42
2:B:1227:VAL:HG22	2:B:1231:TYR:CE2	2.53	0.42
2:B:1367:TYR:CE2	2:B:1402:PHE:CE2	3.06	0.42
2:B:1583:GLN:O	2:B:1586:VAL:HG12	2.18	0.42
3:C:20:LEU:O	3:C:24:THR:HG23	2.19	0.42
2:E:632:THR:HA	2:E:664:GLU:OE1	2.20	0.42
2:E:882:LEU:HD13	2:E:882:LEU:HA	1.87	0.42
2:E:895:ASN:O	2:E:898:ASP:N	2.51	0.42
2:E:1239:ILE:HG23	2:E:1242:ARG:HH21	1.83	0.42
3:F:11:ASP:OD1	3:F:11:ASP:N	2.49	0.42
2:B:1:MET:HE1	2:B:44:TRP:CE2	2.53	0.42
2:B:25:VAL:HG12	2:B:55:LYS:HE3	2.01	0.42
2:B:326:VAL:H	2:B:386:VAL:HG11	1.84	0.42
2:B:656:LYS:HG3	2:B:659:GLU:OE2	2.20	0.42
2:B:735:LYS:HG2	2:B:739:PHE:CE2	2.54	0.42
2:B:769:GLN:HA	2:B:772:VAL:HG12	2.02	0.42
2:B:831:PHE:CD2	2:B:836:LEU:HB2	2.54	0.42
2:B:1022:ASN:O	2:B:1026:GLU:OE1	2.37	0.42
2:B:1308:PHE:O	2:B:1312:LYS:N	2.53	0.42
2:B:1417:ASP:OD1	2:B:1417:ASP:N	2.51	0.42
2:B:1568:LYS:O	2:B:1572:THR:OG1	2.37	0.42
3:C:9:VAL:HB	3:C:97:TRP:CE3	2.54	0.42
1:D:657:PRO:HB2	1:D:661:GLU:OE2	2.20	0.42
2:E:25:VAL:HG12	2:E:55:LYS:HE3	2.01	0.42
2:E:150:ALA:HB1	2:E:197:LYS:HZ1	1.83	0.42
2:E:166:ARG:NE	2:E:169:ASN:OD1	2.52	0.42
2:E:197:LYS:O	2:E:200:GLU:N	2.45	0.42
2:E:278:GLN:O	2:E:426:ALA:N	2.49	0.42
2:E:582:ALA:HA	2:E:585:TYR:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:643:TRP:HE1	2:E:675:ALA:HA	1.83	0.42
2:E:658:MET:HE1	2:E:696:ALA:CA	2.41	0.42
2:E:1116:PRO:HA	2:E:1121:ARG:NH2	2.35	0.42
2:B:15:ALA:HA	2:B:59:PHE:CZ	2.54	0.42
2:B:632:THR:HA	2:B:664:GLU:OE1	2.20	0.42
2:B:641:LEU:HD22	2:B:671:ASP:CG	2.45	0.42
2:B:1027:VAL:HG22	2:B:1032:PHE:HE1	1.82	0.42
2:B:1245:TYR:O	2:B:1248:ARG:HG3	2.20	0.42
2:B:1318:ILE:HD13	2:B:1349:TYR:CE2	2.55	0.42
3:C:17:THR:O	3:C:21:ILE:HG22	2.19	0.42
2:E:1:MET:HG3	2:E:4:TRP:HE1	1.84	0.42
2:E:118:GLN:HB3	2:E:122:TYR:OH	2.19	0.42
2:E:930:GLU:HG2	2:E:972:TYR:CG	2.53	0.42
2:E:1059:LEU:HD21	2:E:1117:GLU:OE2	2.19	0.42
2:E:1367:TYR:CE2	2:E:1402:PHE:CE2	3.06	0.42
2:E:1583:GLN:C	2:E:1585:LYS:H	2.27	0.42
3:F:44:VAL:HG12	3:F:45:MET:O	2.18	0.42
1:A:588:TYR:CE2	1:A:608:LEU:HB2	2.54	0.42
2:B:4:TRP:CE3	2:B:39:GLU:HB2	2.55	0.42
2:B:287:MET:HA	2:B:290:ILE:HG12	2.01	0.42
2:B:455:PHE:CD2	2:B:466:VAL:HG21	2.55	0.42
2:B:464:LYS:HD3	2:B:533:HIS:CD2	2.55	0.42
2:B:570:VAL:HG22	2:B:592:LYS:HD2	2.02	0.42
2:B:632:THR:HG21	2:B:637:LEU:HD23	2.02	0.42
2:B:926:GLN:HG2	2:B:971:HIS:ND1	2.34	0.42
2:B:1098:LYS:O	2:B:1102:ILE:N	2.50	0.42
2:B:1110:LEU:HA	2:B:1128:PHE:HZ	1.85	0.42
2:B:1243:TYR:HA	2:B:1246:LYS:CG	2.50	0.42
2:B:1482:MET:HE3	2:B:1518:ALA:N	2.35	0.42
1:D:584:LYS:NZ	2:E:1405:ALA:HB2	2.34	0.42
1:D:700:ASP:CG	2:E:14:VAL:HG13	2.45	0.42
2:E:166:ARG:HG2	2:E:173:LEU:HB2	2.01	0.42
2:E:246:TYR:CE1	2:E:383:LEU:HD21	2.55	0.42
2:E:380:THR:HG21	2:E:510:TYR:CD2	2.54	0.42
2:E:545:ARG:HH11	2:E:576:ASN:HD21	1.66	0.42
2:E:948:PRO:C	2:E:950:ILE:H	2.27	0.42
2:E:1357:ARG:NE	2:E:1452:ASN:O	2.52	0.42
2:E:1401:GLN:HG3	2:E:1402:PHE:CD2	2.55	0.42
2:E:1482:MET:HE3	2:E:1518:ALA:N	2.35	0.42
2:E:1598:PRO:O	2:E:1602:GLU:OE1	2.38	0.42
2:E:1613:GLU:CD	2:E:1614:GLN:HG3	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:564:LYS:NZ	1:A:590:ASP:HA	2.35	0.42
2:B:219:ILE:HG13	2:B:222:TYR:OH	2.20	0.42
2:B:340:GLU:HG2	2:B:420:LEU:HD11	2.00	0.42
2:B:636:ASP:HB2	2:B:660:VAL:HG22	2.01	0.42
2:B:654:LEU:O	2:B:658:MET:HE2	2.18	0.42
2:B:879:LEU:HG	2:B:879:LEU:O	2.20	0.42
2:B:1059:LEU:HA	2:B:1059:LEU:HD23	1.77	0.42
2:B:1116:PRO:HA	2:B:1121:ARG:NH2	2.35	0.42
2:B:1155:LEU:HD21	2:B:1197:VAL:HG13	2.02	0.42
2:B:1248:ARG:HD2	2:B:1249:ASP:N	2.34	0.42
2:B:1309:ASP:O	2:B:1312:LYS:HE2	2.19	0.42
2:B:1392:GLU:OE2	3:C:166:LYS:HE2	2.19	0.42
2:B:1409:THR:HA	3:C:28:PHE:CZ	2.52	0.42
2:B:1583:GLN:C	2:B:1585:LYS:H	2.27	0.42
3:C:39:ASN:CA	3:C:57:ASP:H	2.27	0.42
1:D:551:GLN:O	1:D:555:ARG:HG2	2.20	0.42
2:E:214:SER:O	2:E:217:SER:OG	2.37	0.42
2:E:570:VAL:HG22	2:E:592:LYS:HD2	2.02	0.42
2:E:769:GLN:HA	2:E:772:VAL:HG12	2.02	0.42
2:E:909:ILE:O	2:E:913:LEU:HD12	2.20	0.42
2:E:926:GLN:NE2	2:E:930:GLU:OE2	2.48	0.42
2:E:1003:ALA:C	2:E:1005:ASP:H	2.27	0.42
2:E:1242:ARG:O	2:E:1246:LYS:HG2	2.20	0.42
2:E:1256:ASN:O	2:E:1260:ALA:N	2.29	0.42
2:E:1338:LEU:O	2:E:1342:LEU:HD23	2.20	0.42
3:F:129:LEU:O	3:F:134:LEU:N	2.29	0.42
1:A:532:PRO:HG2	1:A:706:ILE:O	2.20	0.42
1:A:633:GLN:HB3	1:A:637:VAL:HG21	2.01	0.42
1:A:657:PRO:HB2	1:A:661:GLU:OE2	2.20	0.42
1:A:695:LYS:NZ	2:B:122:TYR:CE1	2.88	0.42
2:B:95:LEU:CA	2:B:98:TRP:HD1	2.31	0.42
2:B:1022:ASN:OD1	2:B:1086:ARG:NH1	2.53	0.42
2:B:1028:LEU:HA	2:B:1032:PHE:CD1	2.43	0.42
2:B:1090:MET:O	2:B:1094:LEU:HD23	2.20	0.42
2:B:1362:TYR:HE2	2:B:1459:VAL:HG21	1.85	0.42
2:B:1506:GLN:NE2	2:B:1508:SER:OG	2.48	0.42
2:E:15:ALA:HA	2:E:59:PHE:CZ	2.54	0.42
2:E:156:ASN:HA	2:E:161:LEU:HD12	2.01	0.42
2:E:464:LYS:HD3	2:E:533:HIS:CD2	2.55	0.42
2:E:1115:THR:O	2:E:1121:ARG:NH2	2.52	0.42
2:E:1372:PHE:N	2:E:1424:GLN:HG2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:53:LEU:HD13	3:F:169:PHE:CZ	2.55	0.42
1:A:541:GLN:O	1:A:543:GLU:N	2.53	0.42
1:A:575:TRP:CZ3	1:A:588:TYR:HB2	2.54	0.42
2:B:246:TYR:CE1	2:B:383:LEU:HD21	2.54	0.42
2:B:344:HIS:N	2:B:401:VAL:O	2.53	0.42
2:B:519:ILE:HG23	2:B:631:LEU:HG	2.01	0.42
2:B:545:ARG:HH11	2:B:576:ASN:HD21	1.67	0.42
2:B:746:ASP:CG	2:B:748:SER:HG	2.26	0.42
2:B:768:ILE:HG13	2:B:826:ASP:O	2.20	0.42
2:B:860:MET:SD	2:B:860:MET:C	3.03	0.42
2:B:933:LEU:HA	2:B:936:ILE:HG22	2.02	0.42
2:B:1392:GLU:OE1	2:B:1392:GLU:N	2.51	0.42
2:B:1418:ILE:HD13	2:B:1421:SER:HB3	2.01	0.42
2:B:1556:ASP:CG	2:B:1558:ALA:HB2	2.44	0.42
3:C:53:LEU:HD13	3:C:169:PHE:CZ	2.55	0.42
1:D:532:PRO:HG2	1:D:706:ILE:O	2.20	0.42
2:E:4:TRP:CE3	2:E:39:GLU:HB2	2.55	0.42
2:E:44:TRP:HE3	2:E:58:ILE:HG22	1.85	0.42
2:E:127:TRP:O	2:E:131:ILE:HG12	2.20	0.42
2:E:273:LYS:O	2:E:277:LEU:N	2.53	0.42
2:E:656:LYS:HG3	2:E:659:GLU:OE2	2.20	0.42
2:E:854:ARG:HH11	2:E:858:ASN:HD21	1.68	0.42
2:E:1048:HIS:CE1	2:E:1108:PRO:HG2	2.55	0.42
2:E:1111:GLU:O	2:E:1114:LEU:HB2	2.19	0.42
2:E:1129:PHE:CZ	2:E:1183:HIS:HB2	2.55	0.42
2:E:1183:HIS:CG	2:E:1184:LYS:N	2.87	0.42
2:E:1245:TYR:O	2:E:1248:ARG:HG3	2.20	0.42
2:E:1441:TYR:HD2	2:E:1450:ILE:HG21	1.82	0.42
2:E:1444:LYS:HD3	2:E:1446:VAL:HG12	2.02	0.42
3:F:17:THR:O	3:F:21:ILE:HG22	2.20	0.42
3:F:58:THR:HB	3:F:68:ARG:NH1	2.35	0.42
3:F:124:ASP:O	3:F:127:GLU:HG2	2.20	0.42
1:A:620:LYS:HE2	1:A:638:LEU:HD11	2.02	0.41
2:B:38:LEU:HD21	2:B:48:TYR:CD2	2.55	0.41
2:B:473:HIS:HD2	2:B:528:ARG:HB3	1.84	0.41
2:B:778:TYR:O	2:B:780:GLN:N	2.53	0.41
2:B:1171:LEU:O	2:B:1175:LEU:HD23	2.20	0.41
2:B:1205:LEU:HD22	2:B:1208:ARG:NH2	2.35	0.41
2:B:1431:VAL:HG12	2:B:1464:TYR:HB2	2.02	0.41
1:D:588:TYR:CE2	1:D:608:LEU:HB2	2.54	0.41
2:E:38:LEU:HD21	2:E:48:TYR:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:105:LEU:HB3	2:E:114:PHE:HB2	2.02	0.41
2:E:1259:GLU:O	2:E:1263:THR:HG23	2.20	0.41
2:E:1308:PHE:O	2:E:1312:LYS:N	2.53	0.41
2:E:1360:PRO:HA	2:E:1387:GLU:HA	2.02	0.41
1:A:666:THR:HG23	1:A:678:MET:SD	2.60	0.41
2:B:147:LYS:O	2:B:151:LYS:HD3	2.21	0.41
2:B:157:ARG:NH2	2:B:198:ILE:HG12	2.35	0.41
2:B:875:ARG:NH1	2:B:920:ALA:O	2.52	0.41
2:B:1091:TRP:CD1	2:B:1127:ILE:HG23	2.55	0.41
2:B:1155:LEU:HA	2:B:1158:GLU:OE2	2.20	0.41
2:B:1323:GLU:O	2:B:1327:THR:HG23	2.21	0.41
2:B:1380:ILE:HB	2:B:1504:VAL:HG12	2.03	0.41
2:B:1401:GLN:HG3	2:B:1402:PHE:CD2	2.55	0.41
2:B:1613:GLU:CD	2:B:1614:GLN:HG3	2.45	0.41
1:D:579:LEU:HA	1:D:586:LEU:HD13	2.01	0.41
2:E:8:LYS:HA	2:E:10:GLN:HE22	1.84	0.41
2:E:441:ASP:O	2:E:629:THR:OG1	2.26	0.41
2:E:470:MET:HA	2:E:529:PHE:HA	2.01	0.41
2:E:641:LEU:HD22	2:E:671:ASP:CG	2.45	0.41
2:E:768:ILE:HG13	2:E:826:ASP:O	2.20	0.41
2:E:792:ARG:HG2	2:E:839:LEU:HD11	2.01	0.41
2:E:818:LYS:O	2:E:821:PRO:HD2	2.20	0.41
2:E:993:PHE:O	2:E:997:ILE:HG12	2.20	0.41
2:E:1109:ILE:HG12	2:E:1128:PHE:CE1	2.56	0.41
2:E:1155:LEU:HD21	2:E:1197:VAL:HG13	2.01	0.41
2:E:1171:LEU:O	2:E:1175:LEU:HD23	2.20	0.41
2:E:1238:ASP:OD1	2:E:1239:ILE:HG12	2.20	0.41
2:E:1418:ILE:HD13	2:E:1421:SER:HB3	2.01	0.41
2:E:1463:ARG:NH2	2:E:1465:SER:HA	2.35	0.41
1:A:551:GLN:O	1:A:555:ARG:HG2	2.20	0.41
1:A:652:LEU:HD23	1:A:652:LEU:HA	1.74	0.41
1:A:658:ASP:OD1	1:A:661:GLU:HG2	2.21	0.41
2:B:80:VAL:HG23	2:B:81:ILE:HG22	2.03	0.41
2:B:874:CYS:O	2:B:878:LEU:HG	2.20	0.41
2:B:926:GLN:NE2	2:B:930:GLU:OE2	2.48	0.41
2:B:993:PHE:O	2:B:997:ILE:HG12	2.20	0.41
2:B:1009:MET:C	2:B:1012:THR:HG1	2.28	0.41
2:B:1322:LYS:HE3	2:B:1345:ARG:HD3	2.02	0.41
2:B:1598:PRO:O	2:B:1602:GLU:OE1	2.38	0.41
3:C:21:ILE:HA	3:C:24:THR:OG1	2.20	0.41
1:D:579:LEU:HD12	1:D:580:SER:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:435:GLU:HA	2:E:708:LYS:HZ2	1.83	0.41
2:E:768:ILE:HD11	2:E:827:VAL:HG22	2.02	0.41
2:E:853:VAL:HG23	2:E:854:ARG:H	1.85	0.41
2:E:1269:GLU:OE1	2:E:1270:LEU:HD22	2.21	0.41
2:E:1506:GLN:NE2	2:E:1508:SER:OG	2.48	0.41
3:F:70:LEU:C	3:F:73:PRO:HD2	2.45	0.41
2:B:19:TYR:CG	2:B:59:PHE:CE1	3.05	0.41
2:B:44:TRP:HE3	2:B:58:ILE:HG22	1.85	0.41
2:B:228:PHE:CZ	2:B:231:PHE:HB2	2.55	0.41
2:B:818:LYS:O	2:B:821:PRO:HD2	2.20	0.41
2:B:931:ARG:C	2:B:935:ARG:NE	2.79	0.41
2:B:959:ALA:HB1	2:B:963:GLN:NE2	2.35	0.41
2:B:1019:ARG:O	2:B:1023:GLN:HG2	2.21	0.41
2:B:1223:CYS:HA	2:B:1226:ASN:ND2	2.34	0.41
2:B:1238:ASP:OD1	2:B:1239:ILE:HG12	2.20	0.41
2:B:1290:VAL:HG13	2:B:1291:TYR:H	1.85	0.41
2:B:1318:ILE:HD13	2:B:1349:TYR:CZ	2.55	0.41
2:B:1333:PHE:CZ	2:E:1444:LYS:HD3	2.47	0.41
2:B:1338:LEU:O	2:B:1342:LEU:HD23	2.20	0.41
2:B:1549:MET:HE1	3:C:56:TRP:CE3	2.56	0.41
3:C:1:MET:HE2	3:C:43:ASN:HD21	1.84	0.41
1:D:548:ILE:CG2	1:D:682:THR:HG23	2.50	0.41
1:D:564:LYS:NZ	1:D:590:ASP:HA	2.35	0.41
2:E:45:TYR:HB2	2:E:64:ILE:HG13	2.02	0.41
2:E:191:SER:O	2:E:194:ILE:HB	2.20	0.41
2:E:526:HIS:NE2	2:E:586:LEU:HD11	2.36	0.41
2:E:874:CYS:O	2:E:878:LEU:HG	2.20	0.41
2:E:875:ARG:NH1	2:E:920:ALA:O	2.52	0.41
2:E:1228:LEU:HD23	2:E:1228:LEU:HA	1.90	0.41
2:E:1322:LYS:HE3	2:E:1345:ARG:HD3	2.02	0.41
2:E:1392:GLU:OE1	2:E:1392:GLU:N	2.51	0.41
3:F:8:VAL:HG11	3:F:20:LEU:HD11	2.02	0.41
1:A:646:TYR:CE1	1:A:652:LEU:HG	2.56	0.41
2:B:221:THR:HG23	2:B:283:ASP:HA	2.02	0.41
2:B:471:SER:N	2:B:528:ARG:O	2.35	0.41
2:B:710:GLN:HA	2:B:713:ASN:OD1	2.19	0.41
2:B:937:ASN:O	2:B:941:ILE:HG13	2.21	0.41
2:B:1369:GLY:CA	2:B:1418:ILE:HG22	2.51	0.41
2:B:1461:GLN:HA	2:B:1489:TYR:O	2.21	0.41
2:B:1625:CYS:O	2:B:1628:GLU:HB3	2.19	0.41
1:D:541:GLN:O	1:D:543:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:667:ASP:HB3	1:D:677:MET:SD	2.60	0.41
2:E:65:HIS:ND1	2:E:65:HIS:O	2.53	0.41
2:E:219:ILE:HG13	2:E:222:TYR:OH	2.20	0.41
2:E:463:PRO:HD2	2:E:503:GLN:HB3	2.02	0.41
2:E:910:LEU:HD22	2:E:963:GLN:OE1	2.20	0.41
2:E:959:ALA:HB1	2:E:963:GLN:NE2	2.35	0.41
2:E:1044:ASN:HA	2:E:1101:PHE:CZ	2.55	0.41
2:E:1081:LYS:O	2:E:1085:PHE:HD1	2.04	0.41
2:E:1155:LEU:HA	2:E:1158:GLU:OE2	2.20	0.41
2:E:1531:ASN:O	2:E:1535:GLN:HG3	2.20	0.41
1:A:599:VAL:HA	1:A:600:PRO:HD3	1.86	0.41
1:A:614:LYS:H	1:A:614:LYS:HD2	1.85	0.41
1:A:640:LEU:HD13	1:A:656:ALA:O	2.21	0.41
2:B:570:VAL:HA	2:B:592:LYS:NZ	2.36	0.41
2:B:1048:HIS:HE1	2:B:1105:MET:HA	1.84	0.41
2:B:1063:THR:HA	2:B:1069:ARG:CD	2.51	0.41
2:B:1259:GLU:O	2:B:1263:THR:HG23	2.20	0.41
2:B:1436:SER:OG	2:B:1437:LEU:N	2.54	0.41
2:B:1449:GLN:OE1	2:B:1449:GLN:N	2.54	0.41
2:B:1463:ARG:NH2	2:B:1465:SER:HA	2.35	0.41
2:B:1489:TYR:HB3	2:B:1504:VAL:HG23	2.02	0.41
2:E:711:HIS:C	2:E:714:PRO:HD2	2.45	0.41
2:E:764:PHE:HA	2:E:767:ILE:HB	2.03	0.41
2:E:802:MET:HE1	2:E:847:ILE:N	2.34	0.41
2:E:933:LEU:HA	2:E:936:ILE:HG22	2.02	0.41
2:E:937:ASN:O	2:E:941:ILE:HG13	2.21	0.41
2:E:1034:ASP:OD1	2:E:1097:HIS:CD2	2.74	0.41
2:E:1090:MET:O	2:E:1094:LEU:HD23	2.20	0.41
2:E:1099:ILE:HD11	2:E:1134:CYS:O	2.21	0.41
2:E:1181:ARG:C	2:E:1183:HIS:N	2.78	0.41
2:E:1231:TYR:HB3	2:E:1240:TYR:HB2	2.03	0.41
2:E:1483:TRP:CE2	2:E:1513:SER:HA	2.55	0.41
2:E:1601:THR:HG1	2:E:1626:PHE:HZ	1.69	0.41
3:F:21:ILE:HA	3:F:24:THR:OG1	2.20	0.41
2:B:25:VAL:HB	2:B:56:LYS:O	2.20	0.41
2:B:836:LEU:HG	2:B:840:PHE:CE2	2.53	0.41
2:B:1129:PHE:CZ	2:B:1183:HIS:HB2	2.55	0.41
2:B:1154:LYS:O	2:B:1158:GLU:HG2	2.21	0.41
2:B:1279:VAL:HA	2:B:1280:PRO:HD3	1.93	0.41
2:B:1444:LYS:HD3	2:B:1446:VAL:HG12	2.02	0.41
2:B:1490:THR:N	2:B:1506:GLN:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1570:PHE:C	2:B:1586:VAL:HG21	2.45	0.41
2:B:1631:GLU:O	2:B:1635:LYS:HG2	2.19	0.41
1:D:575:TRP:HE3	1:D:589:GLY:O	2.04	0.41
1:D:658:ASP:OD1	1:D:661:GLU:HG2	2.20	0.41
2:E:25:VAL:HB	2:E:56:LYS:O	2.20	0.41
2:E:38:LEU:H	2:E:47:GLY:HA3	1.86	0.41
2:E:166:ARG:HH12	2:E:168:ASP:H	1.67	0.41
2:E:267:MET:HE2	2:E:267:MET:HA	2.02	0.41
2:E:1155:LEU:HA	2:E:1158:GLU:HG2	2.02	0.41
2:E:1205:LEU:HD22	2:E:1208:ARG:NH2	2.35	0.41
2:E:1323:GLU:O	2:E:1327:THR:HG23	2.21	0.41
2:E:1362:TYR:HE2	2:E:1459:VAL:HG21	1.85	0.41
2:E:1490:THR:N	2:E:1506:GLN:O	2.53	0.41
2:E:1545:HIS:CE1	2:E:1549:MET:HE3	2.55	0.41
2:E:1570:PHE:C	2:E:1586:VAL:HG21	2.45	0.41
2:E:1575:TYR:CE1	2:E:1579:HIS:CE1	3.09	0.41
2:E:1612:THR:H	2:E:1615:LEU:HB2	1.86	0.41
1:A:693:GLU:O	1:A:696:LEU:HG	2.21	0.41
2:B:1:MET:HG3	2:B:4:TRP:HE1	1.84	0.41
2:B:45:TYR:HB2	2:B:64:ILE:HG13	2.02	0.41
2:B:65:HIS:ND1	2:B:65:HIS:O	2.53	0.41
2:B:174:ASP:C	2:B:176:ASP:H	2.29	0.41
2:B:191:SER:O	2:B:194:ILE:HB	2.21	0.41
2:B:193:ARG:HA	2:B:196:GLU:CD	2.45	0.41
2:B:267:MET:HA	2:B:267:MET:HE2	2.02	0.41
2:B:658:MET:HE1	2:B:696:ALA:CA	2.41	0.41
2:B:737:LEU:HD12	2:B:737:LEU:HA	1.77	0.41
2:B:764:PHE:HA	2:B:767:ILE:HB	2.03	0.41
2:B:768:ILE:HD11	2:B:827:VAL:HG22	2.02	0.41
2:B:854:ARG:HH11	2:B:858:ASN:HD21	1.68	0.41
2:B:909:ILE:O	2:B:913:LEU:HD12	2.20	0.41
2:B:1109:ILE:HG12	2:B:1128:PHE:CE1	2.56	0.41
2:B:1175:LEU:O	2:B:1179:HIS:CD2	2.74	0.41
2:B:1180:CYS:HB2	2:B:1191:GLU:HG3	2.03	0.41
2:B:1408:MET:HB3	2:B:1410:SER:H	1.85	0.41
3:C:94:ARG:HH12	3:C:112:LEU:HD21	1.86	0.41
2:E:46:ARG:CB	2:E:58:ILE:HG13	2.46	0.41
2:E:89:GLN:O	2:E:92:THR:OG1	2.31	0.41
2:E:167:ASP:OD1	2:E:168:ASP:N	2.52	0.41
2:E:193:ARG:HA	2:E:196:GLU:CD	2.45	0.41
2:E:332:ILE:HG12	2:E:337:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:344:HIS:N	2:E:401:VAL:O	2.53	0.41
2:E:470:MET:HG2	2:E:496:TYR:HB3	2.03	0.41
2:E:931:ARG:C	2:E:935:ARG:NE	2.79	0.41
2:E:972:TYR:HA	2:E:975:THR:HB	2.03	0.41
2:E:1091:TRP:CD1	2:E:1127:ILE:HG23	2.55	0.41
2:E:1109:ILE:O	2:E:1112:VAL:HG22	2.21	0.41
3:F:66:ARG:HD3	3:F:66:ARG:H	1.86	0.41
1:A:575:TRP:HE3	1:A:589:GLY:O	2.04	0.41
2:B:127:TRP:O	2:B:131:ILE:HG12	2.20	0.41
2:B:162:ASP:OD1	2:B:162:ASP:N	2.54	0.41
2:B:169:ASN:OD1	2:B:173:LEU:HD13	2.20	0.41
2:B:259:LEU:HD23	2:B:490:TYR:CG	2.56	0.41
2:B:278:GLN:OE1	2:B:425:THR:OG1	2.39	0.41
2:B:406:LEU:HD12	2:B:413:VAL:HG13	2.03	0.41
2:B:436:ILE:HG23	2:B:711:HIS:NE2	2.36	0.41
2:B:483:ALA:O	2:B:515:VAL:HA	2.21	0.41
2:B:711:HIS:C	2:B:714:PRO:HD2	2.45	0.41
2:B:1018:LEU:O	2:B:1022:ASN:ND2	2.54	0.41
2:B:1034:ASP:OD1	2:B:1097:HIS:CD2	2.74	0.41
2:B:1081:LYS:O	2:B:1085:PHE:HD1	2.04	0.41
2:B:1201:LEU:HD23	2:B:1201:LEU:HA	1.92	0.41
2:B:1242:ARG:O	2:B:1246:LYS:HG2	2.20	0.41
2:B:1330:SER:O	2:B:1331:LYS:HD3	2.20	0.41
2:B:1483:TRP:CE2	2:B:1513:SER:HA	2.55	0.41
2:B:1532:CYS:HA	2:B:1535:GLN:HG3	2.03	0.41
3:C:14:VAL:HG13	3:C:116:LYS:HZ3	1.85	0.41
3:C:28:PHE:CD2	3:C:29:PRO:HD2	2.56	0.41
3:C:58:THR:HB	3:C:68:ARG:NH1	2.35	0.41
3:C:70:LEU:C	3:C:73:PRO:HD2	2.45	0.41
3:C:82:PHE:HD1	3:C:112:LEU:HD11	1.86	0.41
3:C:120:ARG:NH2	3:C:139:TYR:H	2.19	0.41
3:C:124:ASP:O	3:C:127:GLU:HG2	2.20	0.41
1:D:580:SER:HB3	1:D:583:HIS:N	2.36	0.41
1:D:585:VAL:HG12	1:D:607:LYS:NZ	2.34	0.41
2:E:14:VAL:O	2:E:64:ILE:HA	2.21	0.41
2:E:172:ILE:HG13	2:E:176:ASP:CG	2.46	0.41
2:E:189:VAL:HG13	2:E:193:ARG:CZ	2.50	0.41
2:E:221:THR:HG23	2:E:283:ASP:HA	2.02	0.41
2:E:228:PHE:CZ	2:E:231:PHE:HB2	2.55	0.41
2:E:234:ASN:O	2:E:322:PHE:HZ	2.04	0.41
2:E:248:PRO:HB3	2:E:387:ILE:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:259:LEU:HD23	2:E:490:TYR:CG	2.56	0.41
2:E:281:PHE:HE2	2:E:296:LEU:HD11	1.86	0.41
2:E:894:SER:O	2:E:897:PRO:HD2	2.21	0.41
2:E:928:ILE:CA	2:E:932:LEU:HD13	2.48	0.41
2:E:1002:TYR:HE1	2:E:1010:ASN:HA	1.85	0.41
2:E:1019:ARG:O	2:E:1023:GLN:HG2	2.21	0.41
2:E:1318:ILE:HD13	2:E:1349:TYR:CE2	2.54	0.41
2:E:1318:ILE:HD13	2:E:1349:TYR:CZ	2.55	0.41
2:E:1330:SER:O	2:E:1331:LYS:HD3	2.21	0.41
2:E:1408:MET:HB3	2:E:1410:SER:H	1.85	0.41
2:E:1411:THR:HB	3:F:28:PHE:CE2	2.55	0.41
2:E:1461:GLN:HA	2:E:1489:TYR:O	2.21	0.41
2:E:1566:TYR:CE1	2:E:1570:PHE:HE2	2.39	0.41
1:A:667:ASP:HB3	1:A:677:MET:SD	2.60	0.41
2:B:105:LEU:HB3	2:B:114:PHE:HB2	2.02	0.41
2:B:853:VAL:HG23	2:B:854:ARG:H	1.85	0.41
2:B:1531:ASN:O	2:B:1535:GLN:HG3	2.20	0.41
1:D:646:TYR:CE1	1:D:652:LEU:HG	2.56	0.41
2:E:147:LYS:O	2:E:151:LYS:HD3	2.21	0.41
2:E:169:ASN:OD1	2:E:173:LEU:HD13	2.20	0.41
2:E:728:LEU:HD23	2:E:730:TYR:CE2	2.56	0.41
2:E:785:ASP:N	2:E:785:ASP:OD1	2.53	0.41
2:E:1072:ILE:HA	2:E:1076:TYR:HD2	1.86	0.41
2:E:1238:ASP:HA	2:E:1241:ILE:HD12	2.03	0.41
2:E:1361:GLU:OE1	2:E:1389:GLU:N	2.54	0.41
2:E:1380:ILE:HB	2:E:1504:VAL:HG12	2.03	0.41
2:E:1449:GLN:OE1	2:E:1449:GLN:N	2.54	0.41
1:A:580:SER:HB3	1:A:583:HIS:N	2.36	0.40
2:B:38:LEU:H	2:B:47:GLY:HA3	1.86	0.40
2:B:332:ILE:HG12	2:B:337:VAL:HB	2.02	0.40
2:B:409:ASP:CG	2:B:410:LEU:H	2.30	0.40
2:B:922:ALA:O	2:B:925:ILE:HB	2.21	0.40
2:B:1002:TYR:HE1	2:B:1010:ASN:HA	1.85	0.40
2:B:1109:ILE:O	2:B:1112:VAL:HG22	2.21	0.40
2:B:1168:TYR:HA	2:B:1171:LEU:HD12	2.03	0.40
2:B:1231:TYR:HB3	2:B:1240:TYR:HB2	2.03	0.40
2:B:1283:LEU:HB3	2:B:1288:TYR:CE1	2.56	0.40
2:B:1369:GLY:HA2	2:B:1418:ILE:HG22	2.02	0.40
1:D:679:SER:HB2	1:D:682:THR:OG1	2.21	0.40
2:E:95:LEU:HD11	2:E:124:LEU:HD11	2.04	0.40
2:E:95:LEU:CA	2:E:98:TRP:HD1	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:157:ARG:NH2	2:E:198:ILE:HG12	2.36	0.40
2:E:406:LEU:HD12	2:E:413:VAL:HG13	2.03	0.40
2:E:789:ASN:O	2:E:790:SER:C	2.65	0.40
2:E:964:MET:HG2	2:E:969:TYR:CZ	2.55	0.40
2:E:1110:LEU:HA	2:E:1128:PHE:HZ	1.85	0.40
2:E:1168:TYR:HA	2:E:1171:LEU:HD12	2.03	0.40
2:E:1374:SER:O	2:E:1377:ARG:HG2	2.21	0.40
2:E:1463:ARG:NH1	2:E:1465:SER:OG	2.54	0.40
2:E:1632:LYS:HD2	2:E:1632:LYS:HA	1.80	0.40
3:F:120:ARG:NH2	3:F:139:TYR:H	2.19	0.40
1:A:714:PRO:CG	2:B:60:PRO:HB3	2.51	0.40
2:B:14:VAL:O	2:B:64:ILE:HA	2.21	0.40
2:B:680:MET:O	2:B:684:SER:HB3	2.21	0.40
2:B:772:VAL:O	2:B:776:ARG:HG3	2.21	0.40
2:B:894:SER:O	2:B:897:PRO:HD2	2.21	0.40
2:B:932:LEU:N	2:B:935:ARG:HE	2.19	0.40
2:B:1033:MET:C	2:B:1035:GLN:N	2.79	0.40
2:B:1181:ARG:C	2:B:1183:HIS:N	2.78	0.40
2:B:1579:HIS:O	2:B:1583:GLN:HB2	2.22	0.40
2:E:328:ASP:OD1	2:E:328:ASP:N	2.55	0.40
2:E:408:GLY:HA3	2:E:412:GLN:CD	2.47	0.40
2:E:455:PHE:CE2	2:E:466:VAL:HG11	2.56	0.40
2:E:570:VAL:HA	2:E:592:LYS:NZ	2.36	0.40
2:E:632:THR:HG21	2:E:637:LEU:HD23	2.02	0.40
2:E:730:TYR:CG	2:E:731:VAL:N	2.90	0.40
2:E:772:VAL:O	2:E:776:ARG:HG3	2.21	0.40
2:E:922:ALA:O	2:E:925:ILE:HB	2.21	0.40
2:E:934:ARG:NH1	2:E:934:ARG:O	2.55	0.40
2:E:1175:LEU:O	2:E:1179:HIS:CD2	2.74	0.40
2:E:1283:LEU:HB3	2:E:1288:TYR:CE1	2.56	0.40
2:E:1290:VAL:HG13	2:E:1291:TYR:H	1.86	0.40
2:E:1369:GLY:CA	2:E:1418:ILE:HG22	2.51	0.40
2:E:1431:VAL:HG12	2:E:1464:TYR:HB2	2.02	0.40
2:E:1436:SER:OG	2:E:1437:LEU:N	2.54	0.40
3:F:86:SER:O	3:F:89:SER:OG	2.24	0.40
2:B:11:LYS:NZ	2:B:36:HIS:HB2	2.34	0.40
2:B:88:VAL:HB	2:B:128:ARG:HH22	1.84	0.40
2:B:172:ILE:HG13	2:B:176:ASP:CG	2.46	0.40
2:B:222:TYR:HB3	2:B:405:LEU:HD11	2.04	0.40
2:B:455:PHE:CE2	2:B:466:VAL:HG11	2.56	0.40
2:B:470:MET:HG2	2:B:496:TYR:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:526:HIS:NE2	2:B:586:LEU:HD11	2.36	0.40
2:B:910:LEU:HD22	2:B:963:GLN:OE1	2.20	0.40
2:B:964:MET:HG2	2:B:969:TYR:CZ	2.55	0.40
2:B:969:TYR:HE2	2:B:1019:ARG:HH21	1.68	0.40
2:B:993:PHE:HB3	2:B:1049:LEU:HD11	2.03	0.40
2:B:1072:ILE:HA	2:B:1076:TYR:HD2	1.86	0.40
2:B:1080:ARG:HH21	2:B:1117:GLU:HG2	1.86	0.40
2:B:1155:LEU:HA	2:B:1158:GLU:HG2	2.02	0.40
2:B:1179:HIS:O	2:B:1182:LYS:HB2	2.22	0.40
2:B:1231:TYR:HB2	2:B:1240:TYR:HD1	1.86	0.40
2:B:1545:HIS:CE1	2:B:1549:MET:HE3	2.55	0.40
2:B:1575:TYR:CE1	2:B:1579:HIS:CE1	3.09	0.40
3:C:3:ALA:HA	3:C:52:ASN:HB2	2.03	0.40
1:D:580:SER:CB	1:D:585:VAL:H	2.34	0.40
1:D:666:THR:HG23	1:D:678:MET:SD	2.60	0.40
2:E:13:GLY:O	2:E:34:THR:HA	2.21	0.40
2:E:345:PHE:HB2	2:E:400:TRP:CZ3	2.56	0.40
2:E:408:GLY:HA3	2:E:412:GLN:HB2	2.04	0.40
2:E:821:PRO:CG	2:E:863:ILE:HG13	2.50	0.40
2:E:874:CYS:O	2:E:877:VAL:HG12	2.22	0.40
2:E:899:HIS:HD2	2:E:943:MET:HG2	1.81	0.40
2:E:1011:MET:HA	2:E:1014:ASN:ND2	2.37	0.40
2:E:1022:ASN:OD1	2:E:1086:ARG:NH1	2.53	0.40
2:E:1059:LEU:HA	2:E:1059:LEU:HD23	1.77	0.40
2:E:1066:GLN:N	2:E:1066:GLN:CD	2.79	0.40
2:E:1180:CYS:HB2	2:E:1191:GLU:HG3	2.03	0.40
2:E:1208:ARG:HB3	2:E:1212:MET:HE1	2.03	0.40
3:F:3:ALA:HA	3:F:52:ASN:HB2	2.03	0.40
1:A:671:ALA:C	1:A:674:GLY:H	2.29	0.40
2:B:10:GLN:HB2	2:B:37:ILE:HD12	2.03	0.40
2:B:928:ILE:CA	2:B:932:LEU:HD13	2.48	0.40
2:B:950:ILE:O	2:B:954:VAL:HG23	2.21	0.40
2:B:997:ILE:HG13	2:B:998:GLY:N	2.36	0.40
2:B:1245:TYR:HA	2:B:1248:ARG:HG3	2.03	0.40
2:B:1360:PRO:HA	2:B:1387:GLU:HA	2.02	0.40
2:B:1612:THR:H	2:B:1615:LEU:HB2	1.86	0.40
3:C:43:ASN:OD1	3:C:50:PRO:HB2	2.21	0.40
1:D:580:SER:C	1:D:583:HIS:H	2.29	0.40
1:D:671:ALA:C	1:D:674:GLY:H	2.29	0.40
2:E:186:ALA:O	2:E:189:VAL:HB	2.22	0.40
2:E:215:ILE:O	2:E:218:THR:OG1	2.32	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:223:GLY:HA2	2:E:281:PHE:O	2.22	0.40
2:E:778:TYR:O	2:E:780:GLN:N	2.53	0.40
2:E:932:LEU:N	2:E:935:ARG:HE	2.19	0.40
2:E:950:ILE:O	2:E:954:VAL:HG23	2.21	0.40
2:E:997:ILE:HG13	2:E:998:GLY:N	2.36	0.40
2:E:1091:TRP:CZ2	2:E:1131:MET:HB3	2.56	0.40
2:E:1125:ILE:HG12	2:E:1172:LEU:HD23	2.04	0.40
2:E:1238:ASP:HB3	2:E:1281:HIS:HB3	2.04	0.40
2:E:1512:ILE:HG22	2:E:1517:ASN:HB2	2.03	0.40
3:F:43:ASN:OD1	3:F:50:PRO:HB2	2.21	0.40
3:F:82:PHE:HD1	3:F:112:LEU:HD11	1.86	0.40
2:B:103:ARG:NH1	2:B:104:LYS:HE3	2.30	0.40
2:B:345:PHE:HB2	2:B:400:TRP:CZ3	2.56	0.40
2:B:422:ASP:N	2:B:422:ASP:OD1	2.50	0.40
2:B:824:ILE:HD11	2:B:863:ILE:HA	2.04	0.40
2:B:1044:ASN:HA	2:B:1101:PHE:CZ	2.55	0.40
2:B:1238:ASP:HA	2:B:1241:ILE:HD12	2.03	0.40
3:C:155:LEU:C	3:C:156:GLU:HG3	2.47	0.40
1:D:530:SER:HB3	1:D:531:ARG:NH2	2.37	0.40
1:D:539:LYS:NZ	1:D:540:ILE:HD11	2.37	0.40
1:D:620:LYS:HE2	1:D:638:LEU:HD11	2.02	0.40
2:E:436:ILE:HG23	2:E:711:HIS:NE2	2.36	0.40
2:E:824:ILE:HD11	2:E:863:ILE:HA	2.04	0.40
2:E:828:LYS:HE2	2:E:870:ARG:NH2	2.37	0.40
2:E:886:LEU:HD13	2:E:932:LEU:CD2	2.51	0.40
2:E:993:PHE:HB3	2:E:1049:LEU:HD11	2.03	0.40
2:E:1095:GLY:HA3	2:E:1096:PRO:HD3	1.95	0.40
3:F:28:PHE:CD2	3:F:29:PRO:HD2	2.56	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	A	196/733 (27%)	170 (87%)	26 (13%)	0	100	100
1	D	196/733 (27%)	170 (87%)	26 (13%)	0	100	100
2	B	1640/1648 (100%)	1476 (90%)	164 (10%)	0	100	100
2	E	1640/1648 (100%)	1476 (90%)	164 (10%)	0	100	100
3	C	175/184 (95%)	160 (91%)	15 (9%)	0	100	100
3	F	175/184 (95%)	160 (91%)	15 (9%)	0	100	100
All	All	4022/5130 (78%)	3612 (90%)	410 (10%)	0	100	100

There are no Ramachandran outliers to report.

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	A	183/664 (28%)	183 (100%)	0	100	100
1	D	183/664 (28%)	183 (100%)	0	100	100
2	B	1449/1497 (97%)	1449 (100%)	0	100	100
2	E	1495/1497 (100%)	1495 (100%)	0	100	100
3	C	147/157 (94%)	147 (100%)	0	100	100
3	F	153/157 (98%)	153 (100%)	0	100	100
All	All	3610/4636 (78%)	3610 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (63) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	582	ASN
1	A	596	GLN
2	B	36	HIS
2	B	118	GLN
2	B	130	GLN

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Mol	Chain	Res	Type
2	B	156	ASN
2	B	187	HIS
2	B	299	GLN
2	B	314	HIS
2	B	419	HIS
2	B	526	HIS
2	B	556	ASN
2	B	649	ASN
2	B	670	GLN
2	B	769	GLN
2	B	788	ASN
2	B	858	ASN
2	B	889	GLN
2	B	895	ASN
2	B	904	GLN
2	B	946	GLN
2	B	1013	GLN
2	B	1041	GLN
2	B	1044	ASN
2	B	1045	ASN
2	B	1048	HIS
2	B	1256	ASN
2	B	1506	GLN
2	B	1517	ASN
2	B	1579	HIS
2	B	1619	HIS
1	D	596	GLN
2	E	30	GLN
2	E	36	HIS
2	E	65	HIS
2	E	109	ASN
2	E	130	GLN
2	E	156	ASN
2	E	187	HIS
2	E	314	HIS
2	E	419	HIS
2	E	526	HIS
2	E	556	ASN
2	E	649	ASN
2	E	670	GLN
2	E	788	ASN
2	E	858	ASN

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Mol	Chain	Res	Type
2	E	889	GLN
2	E	895	ASN
2	E	904	GLN
2	E	937	ASN
2	E	946	GLN
2	E	1013	GLN
2	E	1041	GLN
2	E	1044	ASN
2	E	1045	ASN
2	E	1048	HIS
2	E	1256	ASN
2	E	1424	GLN
2	E	1427	GLN
2	E	1579	HIS
2	E	1619	HIS
3	F	162	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

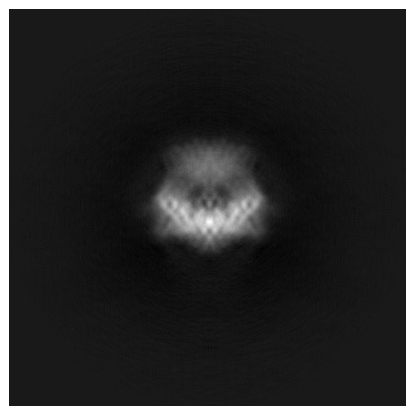
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-60150. These allow visual inspection of the internal detail of the map and identification of artifacts.

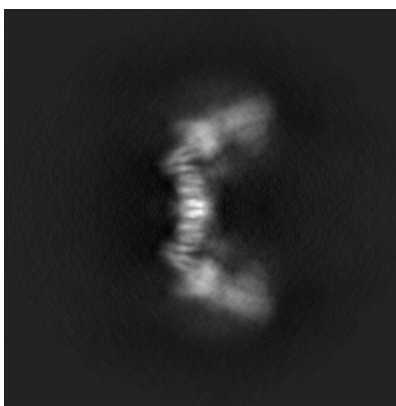
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

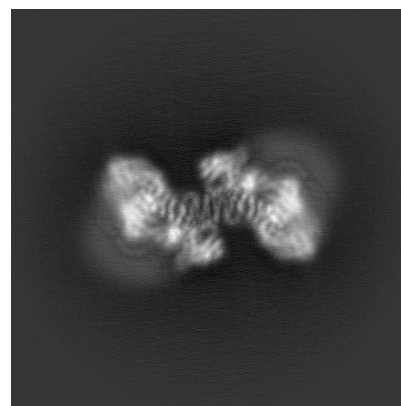
6.1.1 Primary map



X

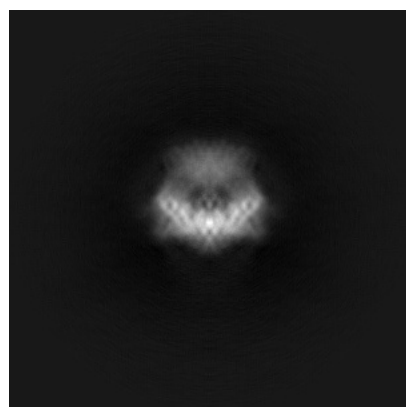


Y

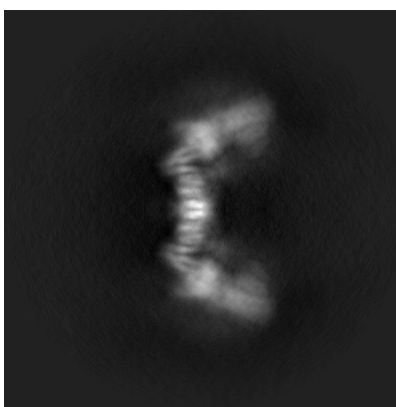


Z

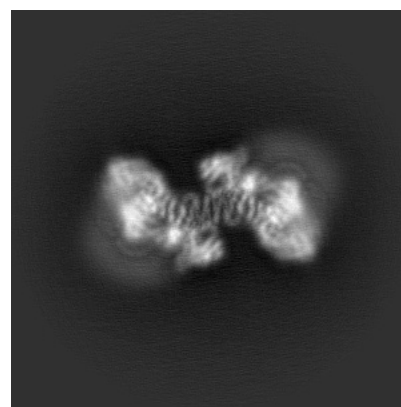
6.1.2 Raw map



X



Y

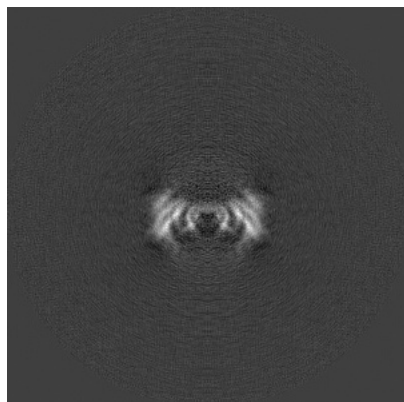


Z

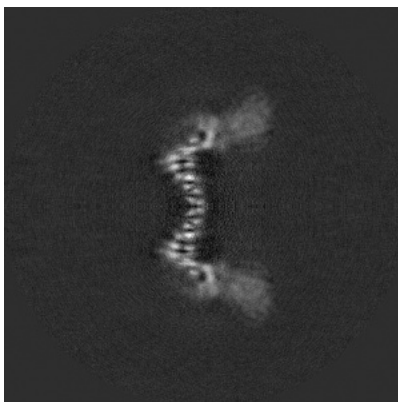
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

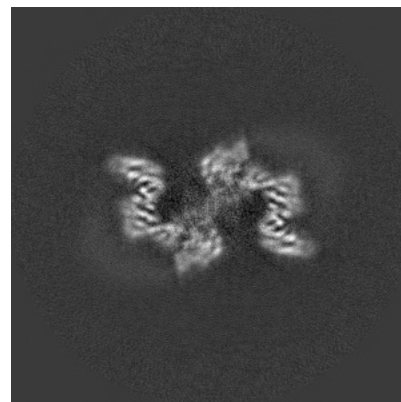
6.2.1 Primary map



X Index: 170

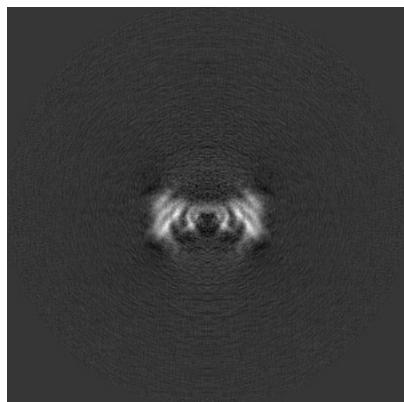


Y Index: 170

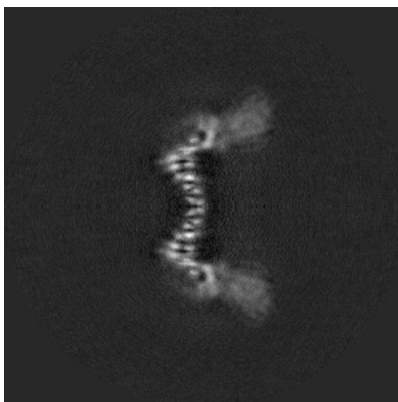


Z Index: 170

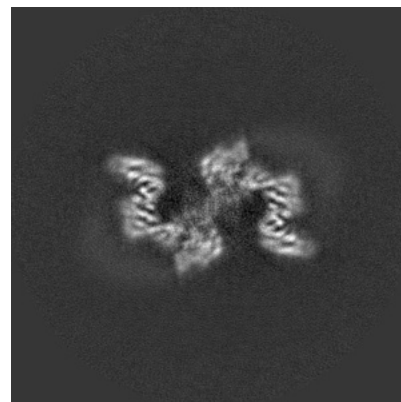
6.2.2 Raw map



X Index: 170



Y Index: 170

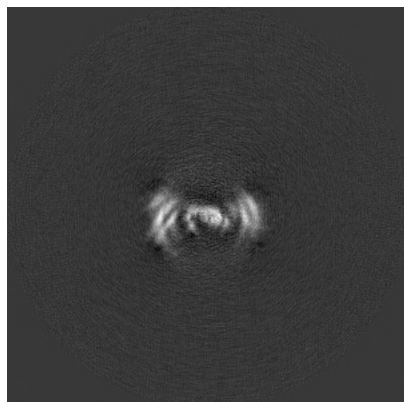


Z Index: 170

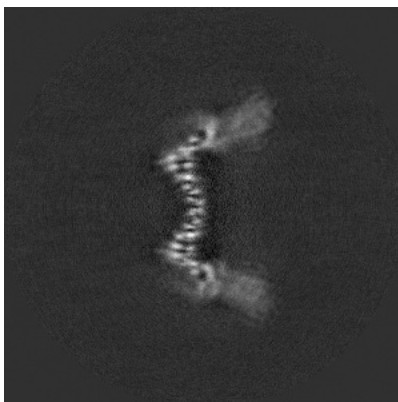
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

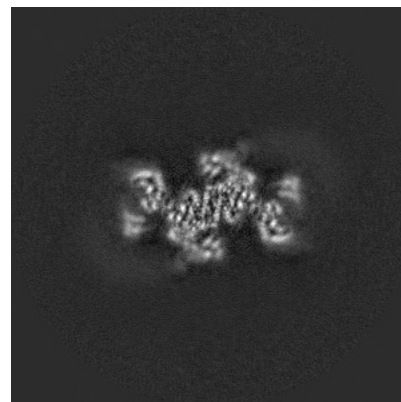
6.3.1 Primary map



X Index: 166

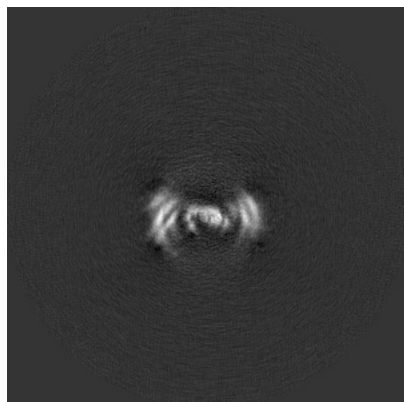


Y Index: 169

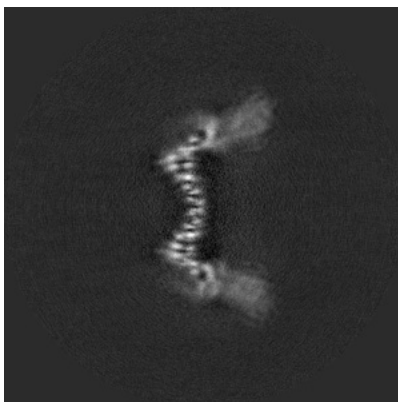


Z Index: 159

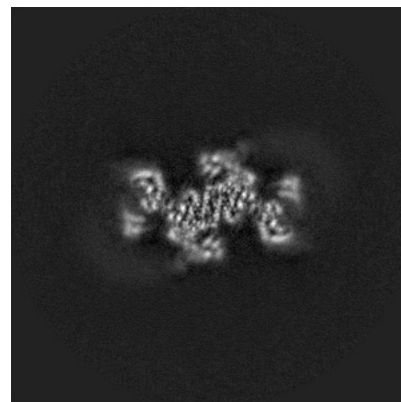
6.3.2 Raw map



X Index: 166



Y Index: 169

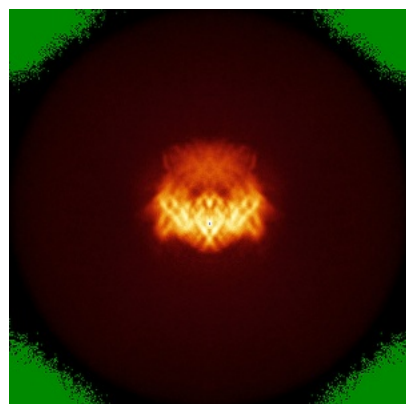


Z Index: 159

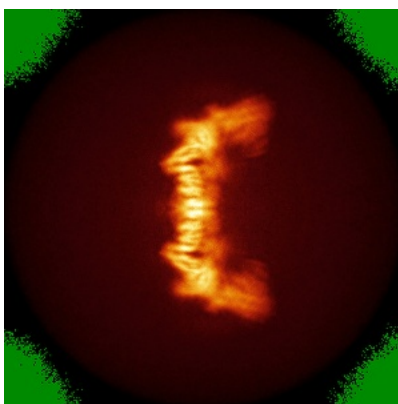
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X

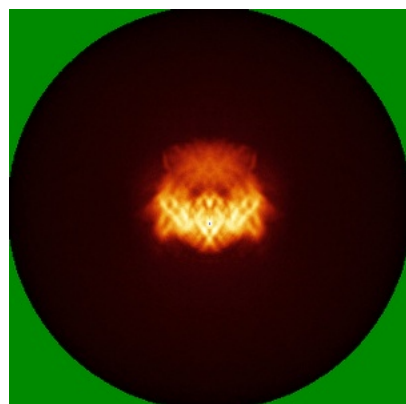


Y



Z

6.4.2 Raw map



X



Y

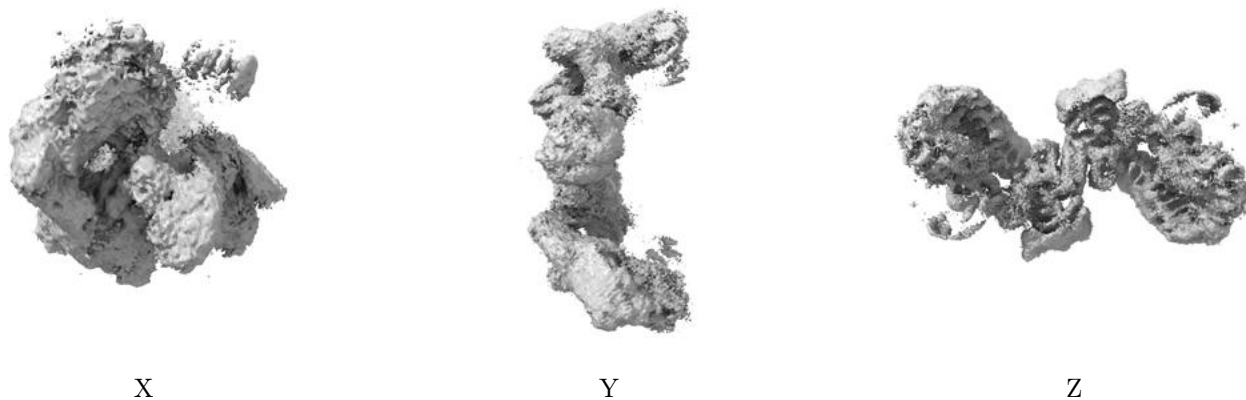


Z

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.

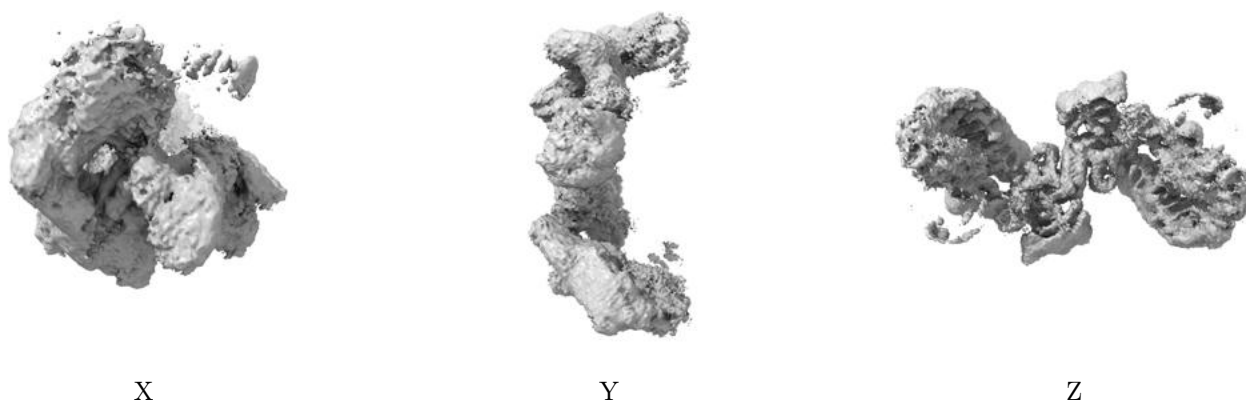
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.01. 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.

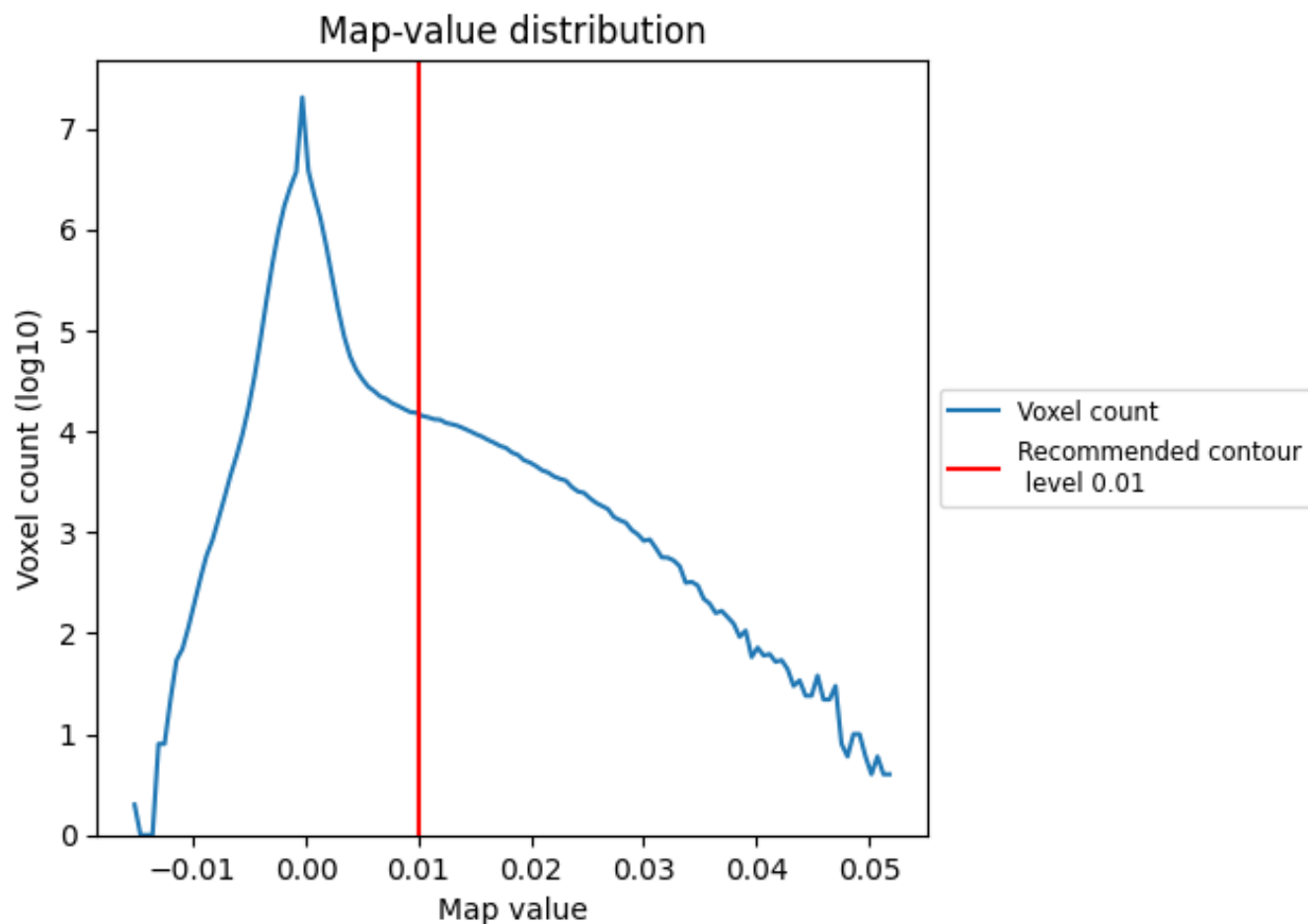
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

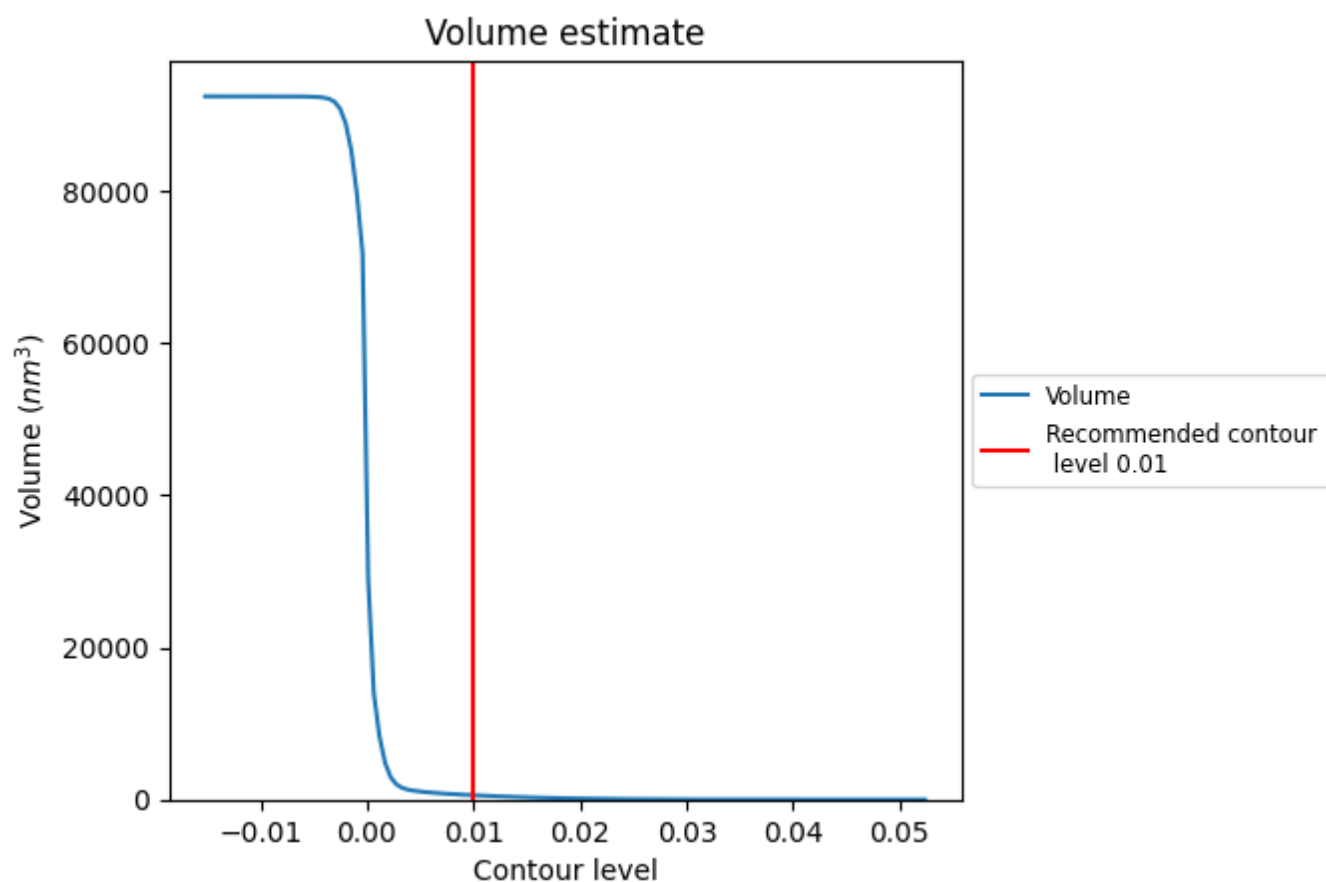
This section contains the results of statistical analysis of the map.

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.

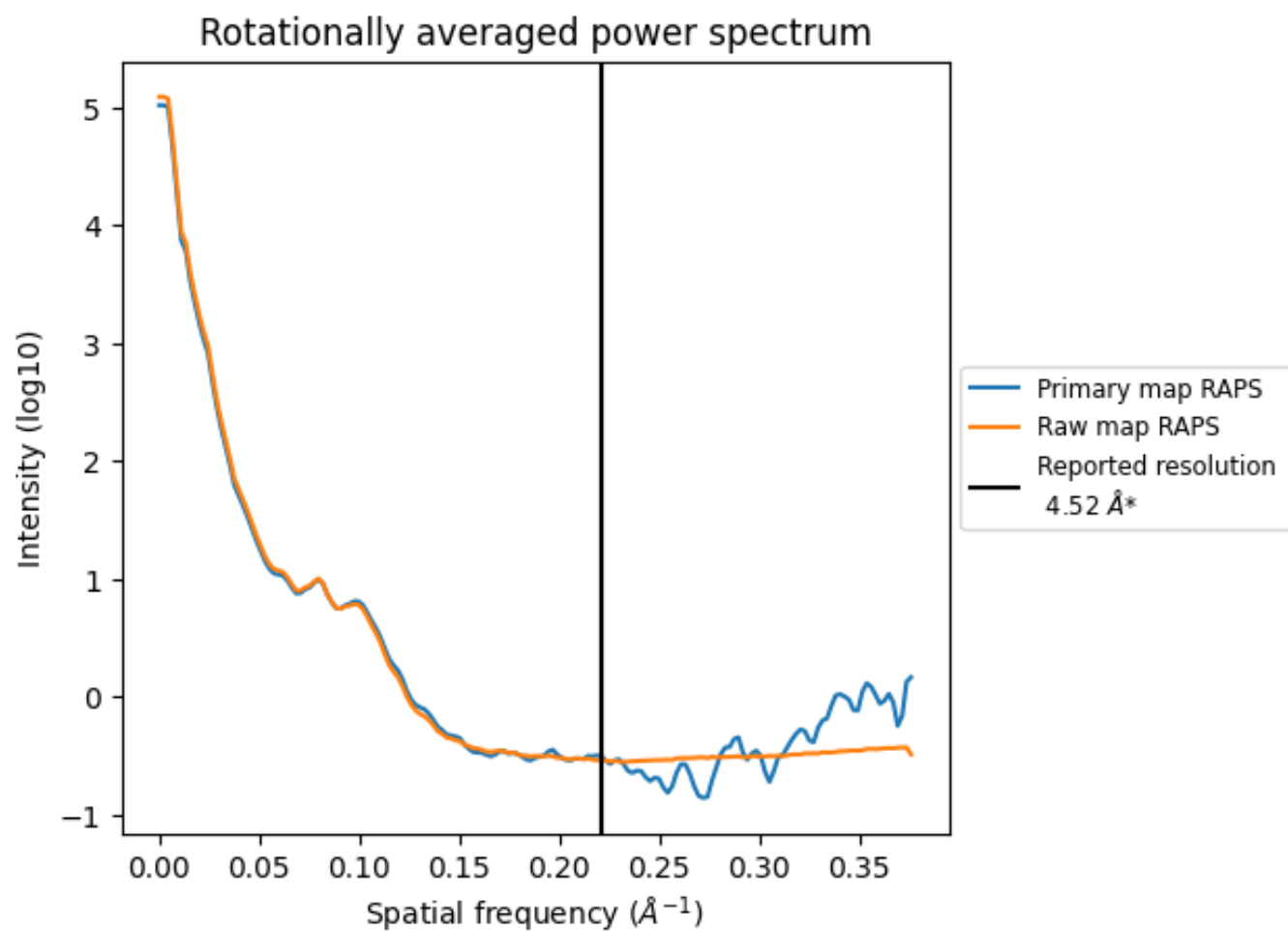
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 568 nm³; this corresponds to an approximate mass of 513 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 ⓘ

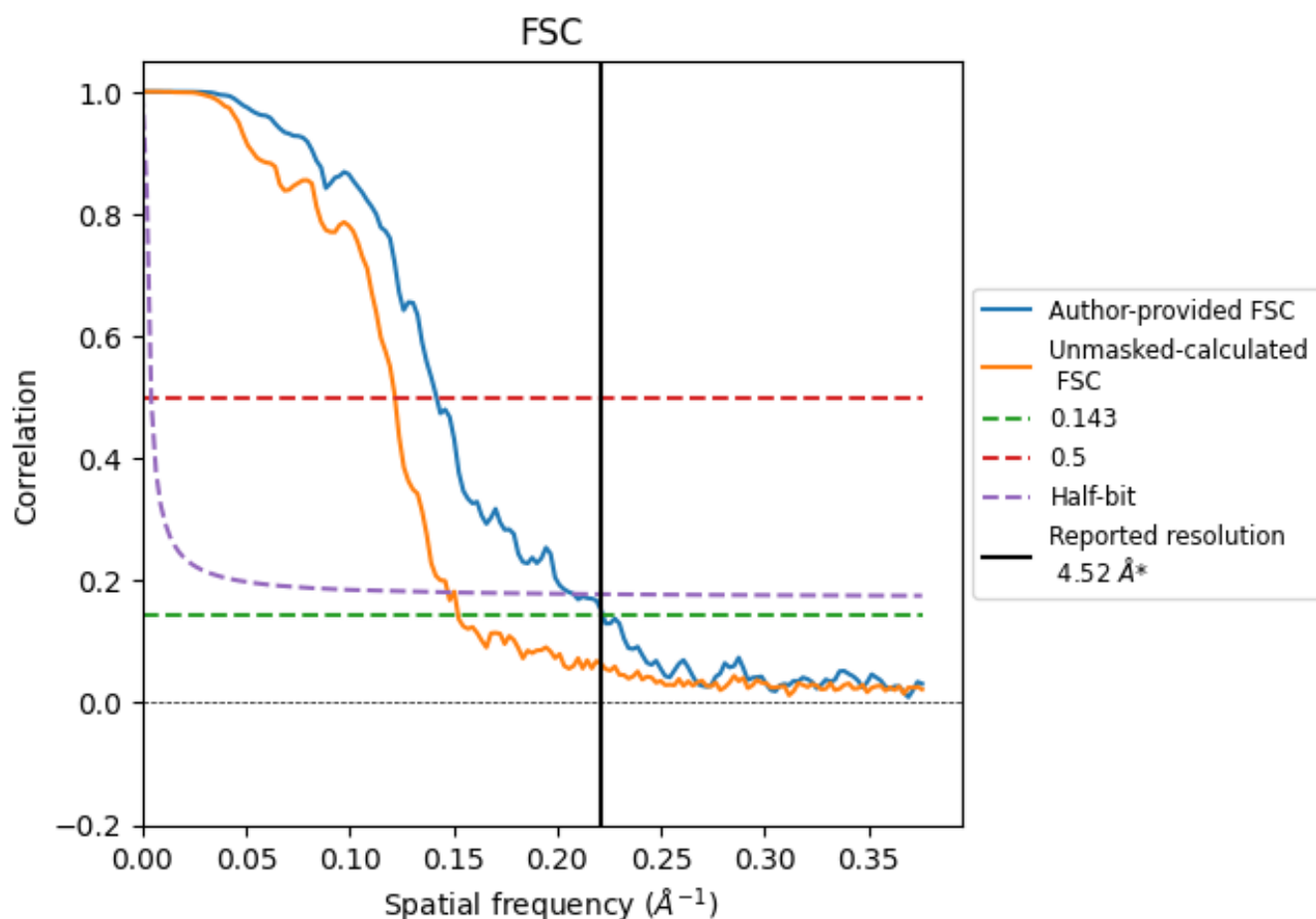


*Reported resolution corresponds to spatial frequency of 0.221 Å⁻¹

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 0.221 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

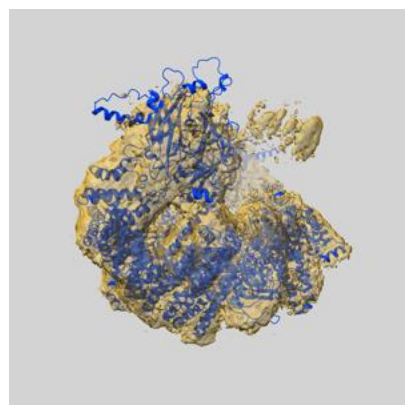
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.52	-	-
Author-provided FSC curve	4.50	7.05	4.81
Unmasked-calculated*	6.57	8.21	6.79

*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 6.57 differs from the reported value 4.52 by more than 10 %

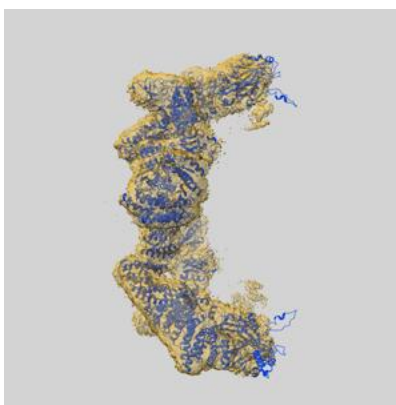
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-60150 and PDB model 8ZJM. Per-residue inclusion information can be found in section 3 on page 6.

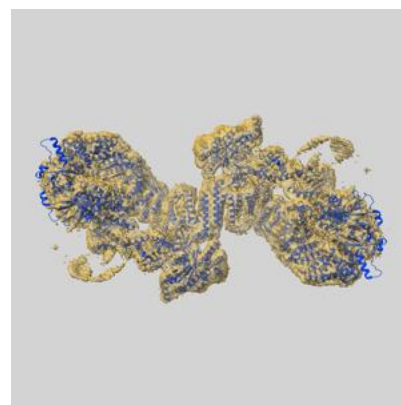
9.1 Map-model overlay [i](#)



X



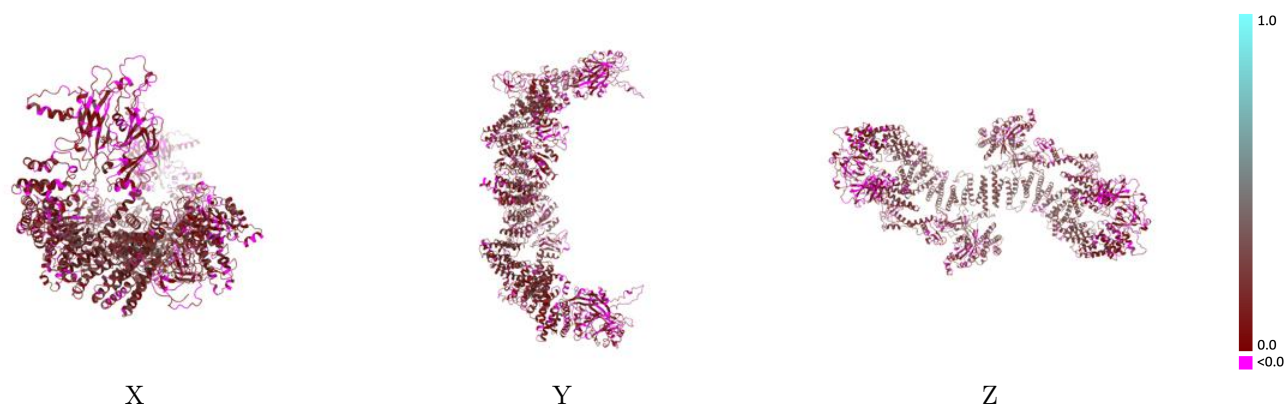
Y



Z

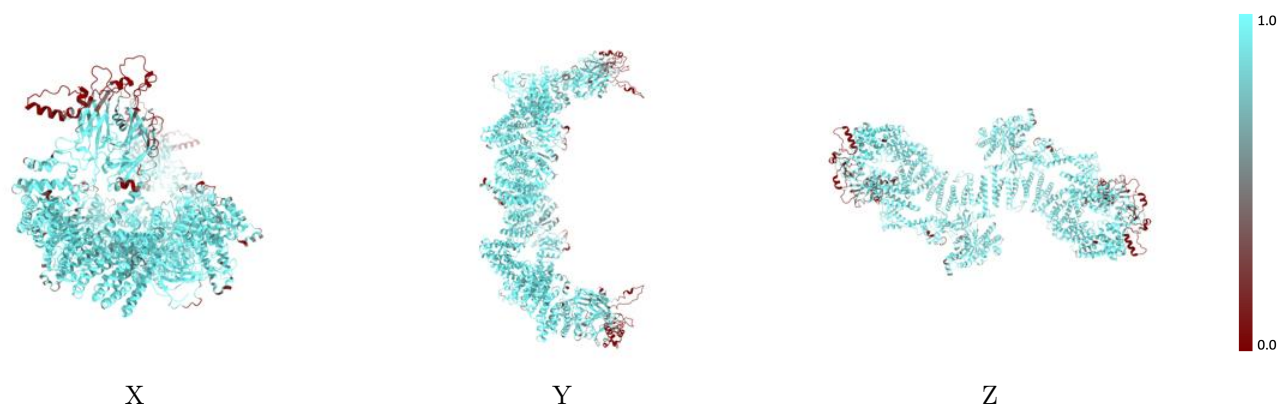
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



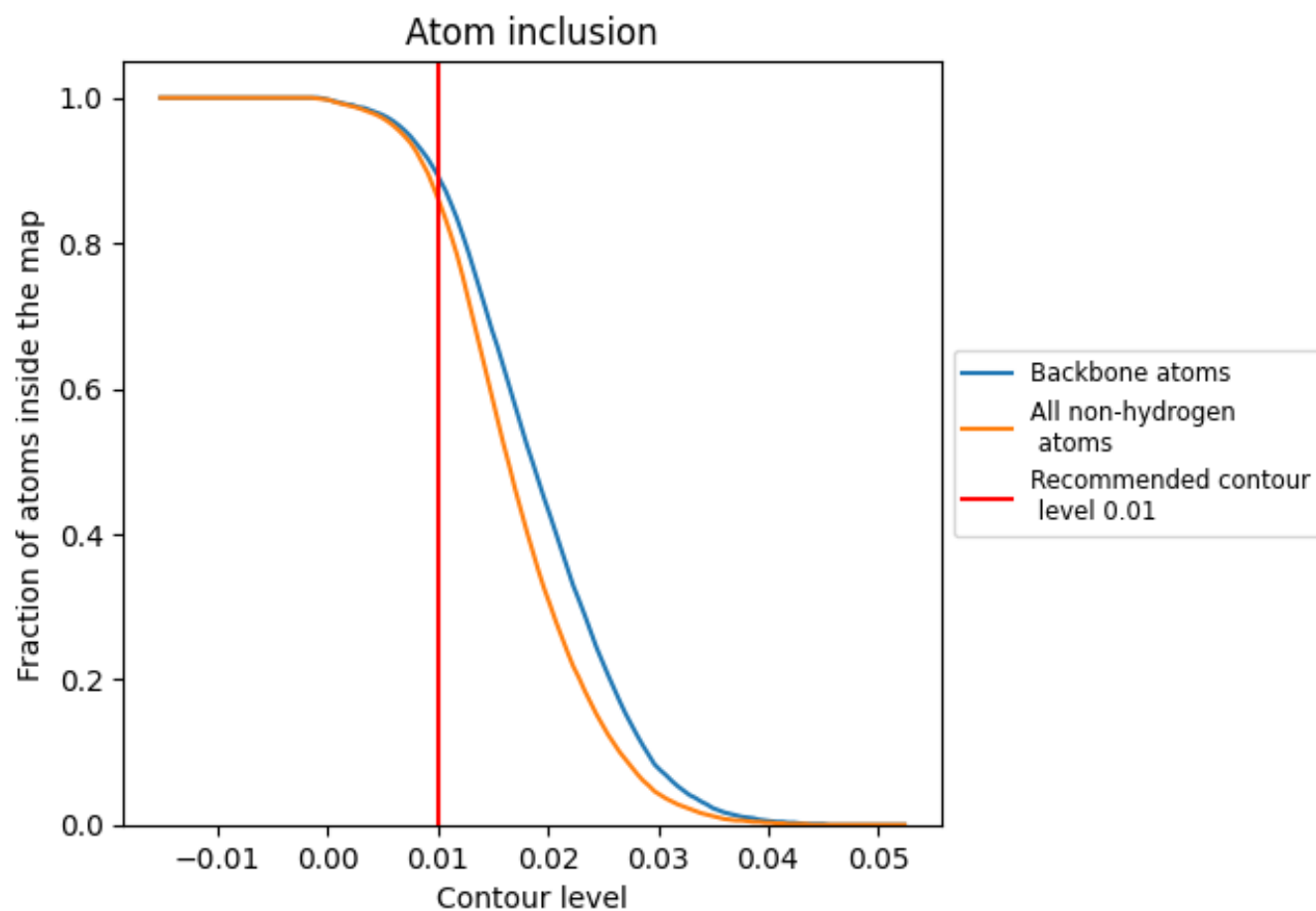
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.01).

9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 86% 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 (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8620	0.1420
A	0.8650	0.1090
B	0.8590	0.1490
C	0.8680	0.1320
D	0.8770	0.1070
E	0.8600	0.1450
F	0.8720	0.1300

1.0

0.0

<0.0