



Full wwPDB EM Validation Report ⓘ

Mar 29, 2025 – 08:44 AM EDT

PDB ID : 5JUL / pdb_00005jul
EMDB ID : EMD-8177
Title : Near atomic structure of the Dark apoptosome
Authors : Cheng, T.C.; Akey, I.V.; Yuan, S.; Yu, Z.; Ludtke, S.J.; Akey, C.W.
Deposited on : 2016-05-10
Resolution : 4.40 Å(reported)

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.dev117
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.42

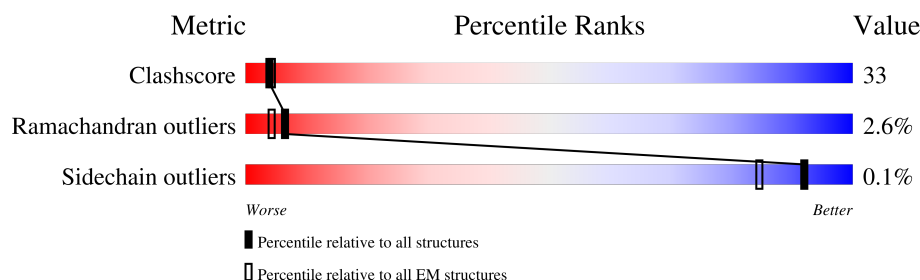
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.40 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)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	1440	<div> <div>45%</div> <div>48%</div> <div>35%</div> <div>14%</div> </div>
1	B	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	C	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	D	1440	<div> <div>45%</div> <div>46%</div> <div>36%</div> <div>14%</div> </div>
1	E	1440	<div> <div>45%</div> <div>48%</div> <div>35%</div> <div>14%</div> </div>
1	F	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	G	1440	<div> <div>45%</div> <div>47%</div> <div>35%</div> <div>14%</div> </div>
1	H	1440	<div> <div>45%</div> <div>47%</div> <div>35%</div> <div>14%</div> </div>

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Mol	Chain	Length	Quality of chain
1	I	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	J	1440	<div> <div>45%</div> <div>48%</div> <div>35%</div> <div>14%</div> </div>
1	K	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	L	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	M	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	N	1440	<div> <div>45%</div> <div>47%</div> <div>35%</div> <div>14%</div> </div>
1	O	1440	<div> <div>45%</div> <div>47%</div> <div>36%</div> <div>14%</div> </div>
1	P	1440	<div> <div>45%</div> <div>47%</div> <div>35%</div> <div>14%</div> </div>

2 Entry composition

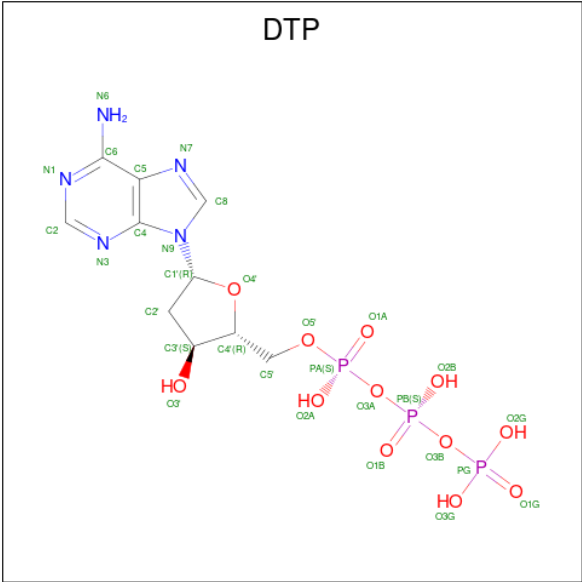
There are 2 unique types of molecules in this entry. The entry contains 161200 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Apaf-1 related killer DARK.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	B	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	C	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	D	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	E	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	F	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	G	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	H	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	I	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	J	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	K	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	L	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	M	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	N	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	O	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	P	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		

- Molecule 2 is 2'-DEOXYADENOSINE 5'-TRIPHOSPHATE (CCD ID: DTP) (formula: C₁₀H₁₆N₅O₁₂P₃)



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	B	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	C	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	D	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	E	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	F	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	G	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	H	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	I	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	J	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	K	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	L	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	M	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	N	1	Total	C	N	O	P	0
			30	10	5	12	3	

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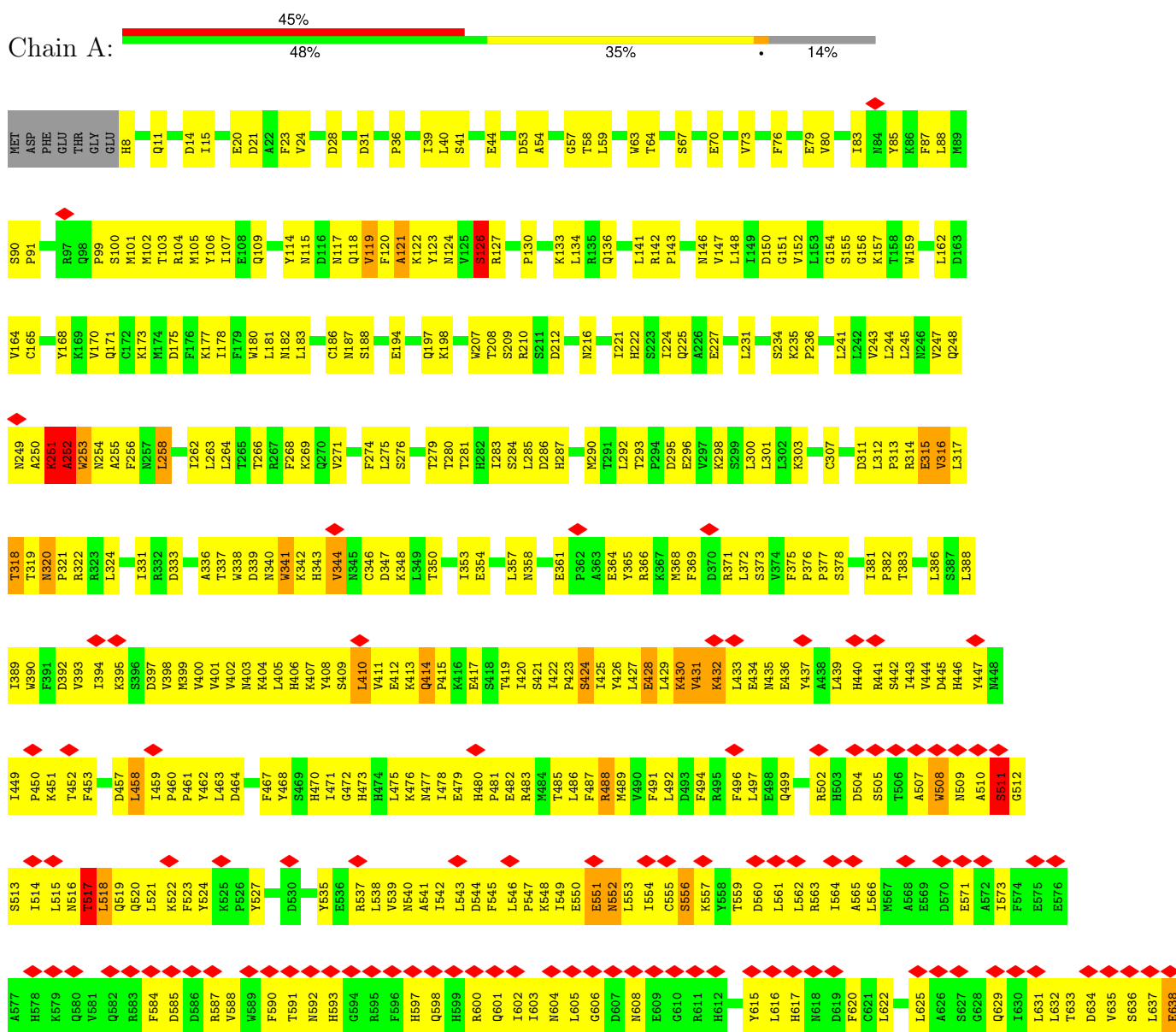
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Mol	Chain	Residues	Atoms					AltConf
2	O	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	P	1	Total	C	N	O	P	0
			30	10	5	12	3	

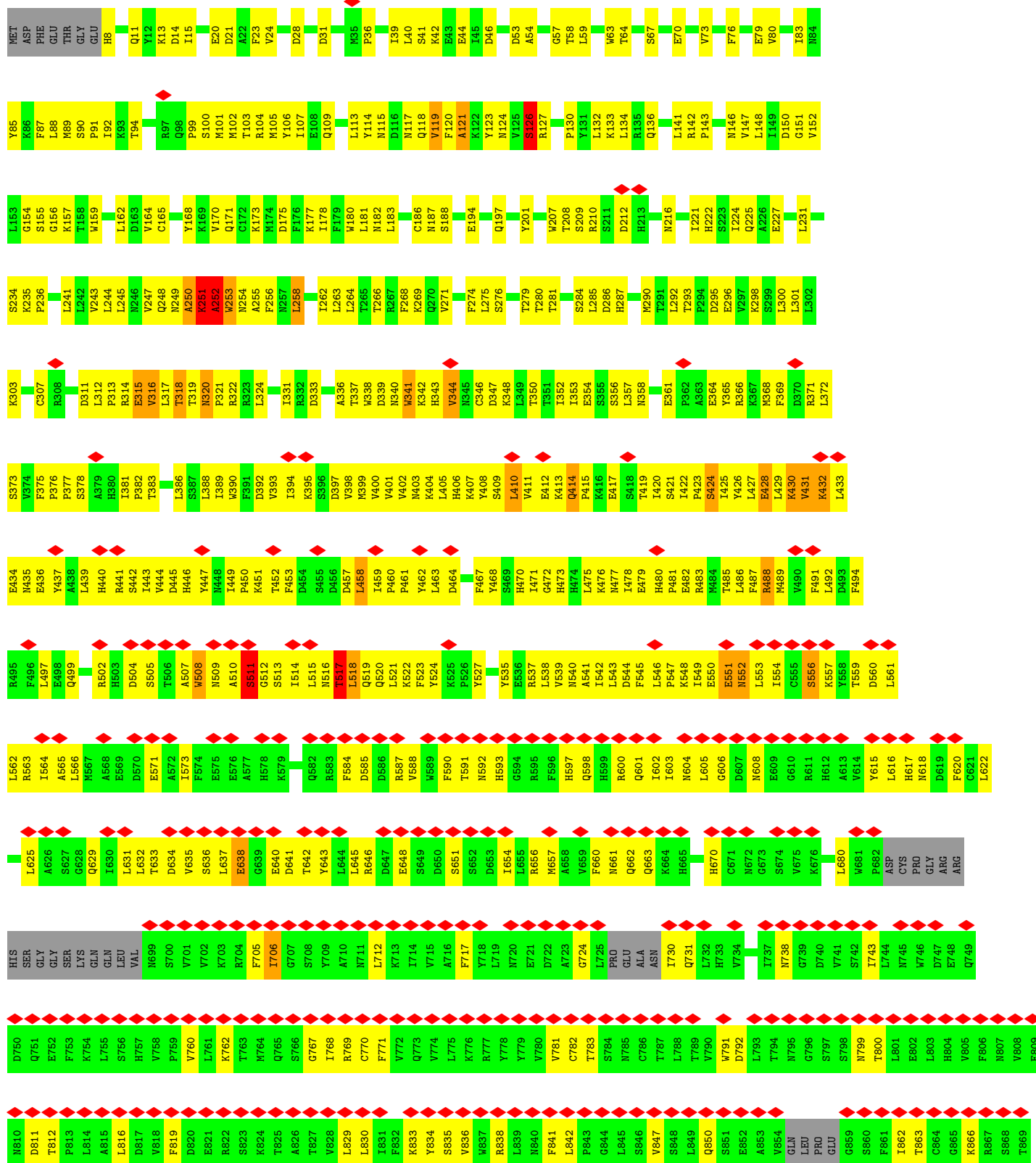
3 Residue-property plots

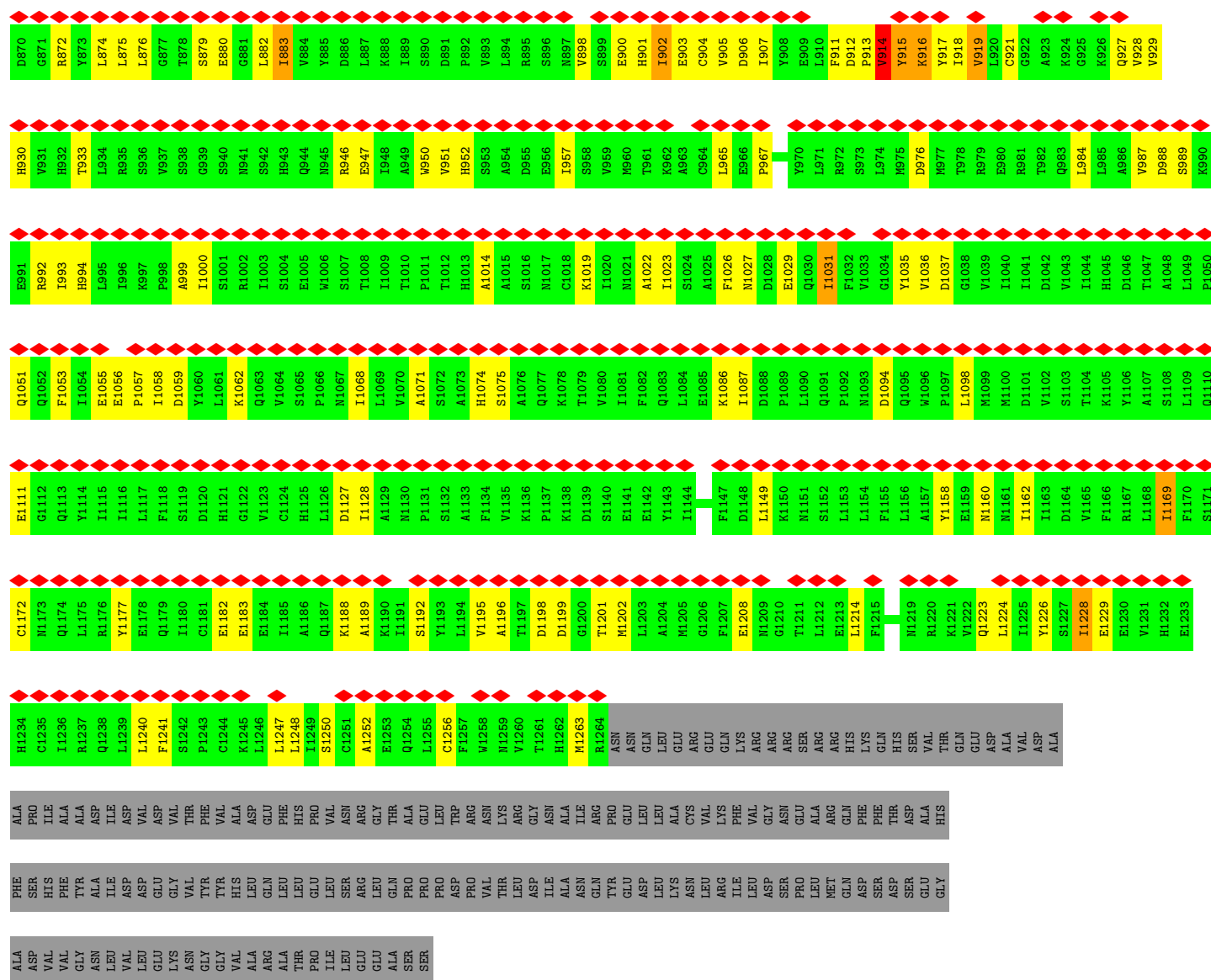
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Apaf-1 related killer DARK

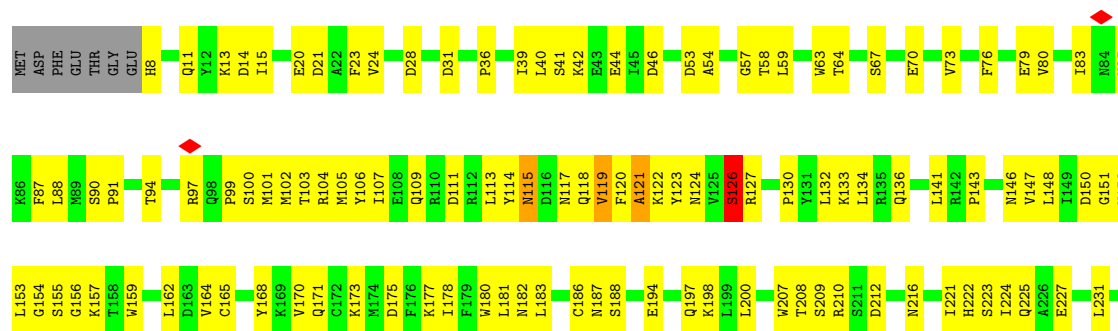


- Molecule 1: Apaf-1 related killer DARK



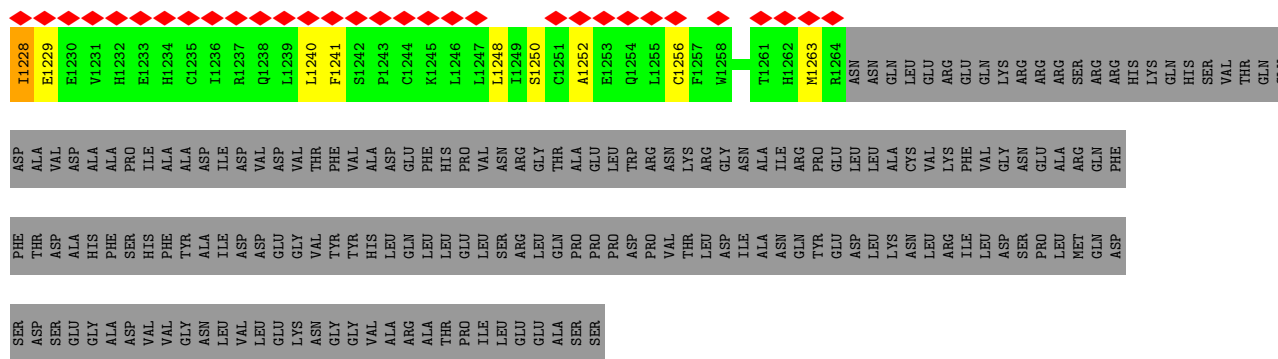


• Molecule 1: Apaf-1 related killer DARK

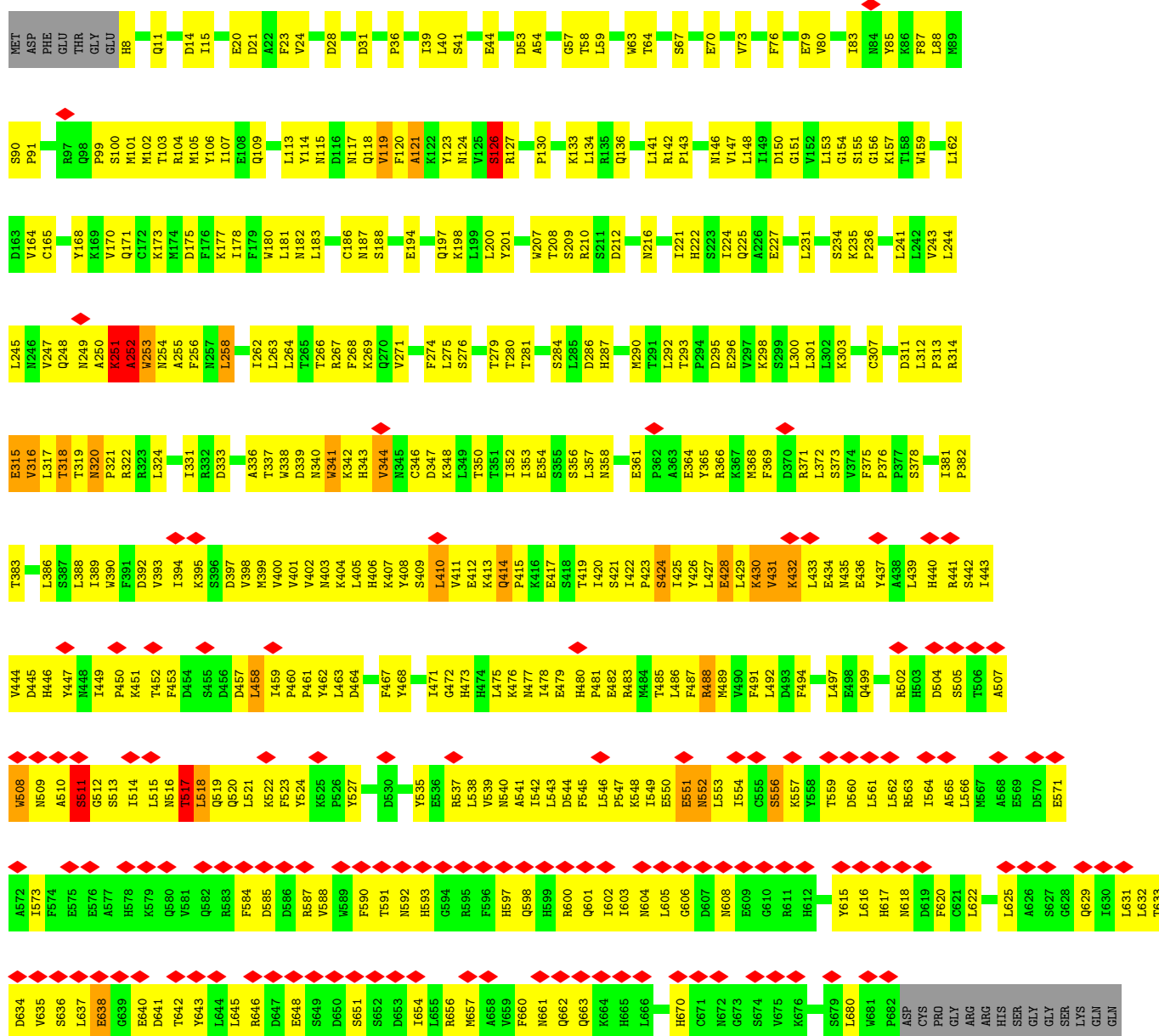


H994	L995	L996	K997	P998	A999	I1000	S1001	R1002	I1003	S1004	E1005	L1006	S1007	T1008	I1009	T1010	P1011	T1012	H1013	A1014	A1015	S1016	N1017	C1018	C1019	I1020	N1021	A1022	I1023	S1024	A1025	F1026	N1027	D1028	E1029	Q1030	I1031	F1032	V1033	L974	M975	Y1035	V1036	I1037	G1038	V1039	I1040	D1042	V1043	I1044	H1045	D1046	T1047	A1048	S989	K990	P1050	Q1051	Q1052	F1053				
T933	L934	L935	S936	R937	S938	G939	S940	R941	S942	R943	Q944	R945	R946	E947	I948	A949	W950	V951	H952	S953	A954	D955	E956	L957	S958	V959	N960	T961	K962	A963	C964	L965	E966	P967	Y970	L971	R972	S973	P912	S974	M975	D976	M977	T978	R979	E980	R981	T982	Q983	L984	L985	A986	V987	D988	S989	K990	E991	R992	I993					
H873	L874	L875	L876	G877	T878	S879	E880	G881	L882	T883	V884	Y885	D886	L887	K888	S889	S890	V891	H892	S893	A894	D895	E896	L897	S898	E899	N900	T901	K902	A903	C904	L905	E906	I907	V908	E909	L910	F911	D912	P913	Y914	Y915	K916	Y917	I918	V919	G920	A921	Q922	R923	G924	G925	R926	Q927	V928	V929	H930	V931	H932					
P813	L814	A815	L816	D817	V818	F819	D820	E821	L822	S823	R824	T825	A826	T827	V828	L829	L830	T831	R832	K833	Y834	S835	V836	W837	R838	L839	H840	T841	L842	P843	G844	S845	S846	V847	S848	L849	Q850	S851	E852	A853	V854	G910	L911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	Q927	V928	V929	H930	V931	H932
F753	K754	L755	S756	H757	V758	F759	V760	L761	K762	T763	R764	Q765	S766	G767	T768	R769	C770	F771	V772	Q773	V774	L775	K776	R777	V778	V779	V780	V781	C782	T783	S784	M785	C786	T787	L788	T789	V790	V791	D792	L793	T794	M795	G796	S797	S798	N799	T800	L801	E802	L803	H804	V805	F806	H807	V808	E809	D811	T812						
P813	L814	A815	L816	D817	V818	F819	D820	E821	L822	S823	R824	T825	A826	T827	V828	L829	L830	T831	R832	K833	Y834	S835	V836	W837	R838	L839	H840	T841	L842	P843	G844	S845	S846	V847	S848	L849	Q850	S851	E852	A853	V854	G910	L911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	Q927	V928	V929	H930	V931	H932
G628	Q629	T630	L631	L632	T633	D634	V635	S636	L637	E638	G639	E640	D641	T642	Y643	L644	L645	F646	D647	E648	S649	D650	S651	S652	D653	L654	L655	R656	A658	V659	F660	N661	Q662	Q663	K664	H665	L666	H670	C671	N672	G673	S674	V675	G676	S679	L680	W681	P682	CYS	PRO	GLY	ARG	HIS	SER										
GLY	GLY	SER	LVS	GLN	GLN	LEU	VAL	N699	S700	V701	V702	K703	R704	F705	I706	G707	S708	V709	A710	N711	L712	K713	I714	V715	F716	T717	V718	L719	N720	E721	D722	V723	G724	L725	PRO	GLU	ALA	ASN	I730	L732	H733	V734	L737	N738	G739	D740	V741	S742	I743	L744	N745	W746	Q749	D750	Q751	E752								
F753	K754	L755	S756	H757	V758	F759	V760	L761	K762	T763	R764	Q765	S766	G767	T768	R769	C770	F771	V772	Q773	V774	L775	K776	R777	V778	V779	V780	V781	C782	T783	S784	M785	C786	T787	L788	T789	V790	V791	D792	L793	T794	M795	G796	S797	S798	N799	T800	L801	E802	L803	H804	V805	F806	H807	V808	E809	D811	T812						
P813	L814	A815	L816	D817	V818	F819	D820	E821	L822	S823	R824	T825	A826	T827	V828	L829	L830	T831	R832	K833	Y834	S835	V836	W837	R838	L839	H840	T841	L842	P843	G844	S845	S846	V847	S848	L849	Q850	S851	E852	A853	V854	G910	L911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	Q927	V928	V929	H930	V931	H932
Y873	L874	L875	L876	G877	T878	S879	E880	G881	L882	T883	V884	Y885	D886	L887	K888	S889	S890	V891	H892	S893	A894	D895	E896	L897	S898	E899	N900	T901	K902	A903	C904	L905	E906	I907	V908	E909	L910	F911	D912	P913	Y914	Y915	K916	Y917	I918	V919	G920	A921	Q922	R923	G924	G925	R926	Q927	V928	V929	H930	V931	H932					
T933	L934	L935	S936	R937	S938	G939	S940	R941	S942	R943	Q944	R945	R946	E947	I948	A949	W950	V951	H952	S953	A954	D955	E956	L957	S958	V959	N960	T961	K962	A963	C964	L965	E966	P967	Y970	L971	R972	S973	P912	S974	M975	D976	M977	T978	R979	E980	R981	T982	Q983	L984	L985	A986	V987	D988	S989	K990	E991	R992	I993					
H994	L995	L996	K997	P998	A999	I1000	S1001	R1002	I1003	S1004	E1005	L1006	S1007	T1008	I1009	T1010	P1011	T1012	H1013	A1014	A1015	S1016	N1017	C1018	C1019	I1020	N1021	A1022	I1023	S1024	A1025	F1026	N1027	D1028	E1029	Q1030	I1031	F1032	V1033	L974	M975	Y1035	V1036	I1037	G1038	V1039	I1040	D1042	V1043	I1044	H1045	D1046	T1047	A1048	S989	K990	P1050	Q1051	Q1052	F1053				
K303	C307	D311	L312	P313	R314	E315	V316	L317	T318	T319	N320	P321	V322	I323	K324	T331	R332	D333	A336	T337	W338	D339	N340	W341	H406	K342	H343	V344	S345	N346	D347	K413	K348	L349	T350	I353	E354	L357	N358	E361	P362	A363	Y365	R366	K367	M368	E296	V297	K298	S299	L372	S373	V374	F375										
P376	P377	S378	I381	P382	T383	L386	S387	L388	I389	W390	F391	D392	V393	I394	K395	S396	D397	V398	K399	V400	Y401	V402	N403	K404	L405	H406	K407	H408	S409	L410	V411	E412	K413	Q414	P415	R416	S417	S418	T419	I420	S421	I422	P423	S424	I425	Y426	L427	E428	L429	K430	V431	K432	L433	E434	N435	E436	Y437							
A438	L439	H440	R441	I443	V444	D445	H446	I447	R448	G449	P450	K451	T452	F453	D457	L458	I459	P460	P461	Y462	L463	D464	F467	A468	S469	H470	I471	G472	H473	H474	L475	K476	N477	I478	E479	H480	P481	D482	R483	M484	T485	L486	F487	R488	M489	V490	F491	L492	D493	F494	R495	F496	L497	A498	Q499									
R502	H503	D504	S505	T506	A507	W508	N509	A510	S511	G512	S513	I514	L515	N516	T517	L518	Q519	Q520	L521	K522	F523	Y524	K525	P526	Y527	D530	Y535	E536	R537	L538	V539	N540	A541	I542	L543	D544	F545	L546	P547	K548	I549	E550	E551	N552	L553	I554	C565	S566	K567	Y568	T559	D560	L561	R562	I563	I564	A565							
L566	M567	A568	E569	D570	E571	A572	L573	F574	E575	E576	A577	H578	K579	Q580	V581	Q582	R583	F584	D585	D586	V588	W589	F590	T591	N592	H593	G594	R595	F596	H597	Q598	H599	R600	D601	I602	N603	N604	L605	G606	D607	N608	E609	G610	R611	H612	Y615	L616	H617	NG18	D619	F620	C621	L622	L625	A626	S627								
G628	Q629	T630	L631	L632	T633	D634	V635	S636	L637	E638	G639	E640	D641	T642	Y643	L644	L645	F646	D647	E648	S649	D650	S651	S652	D653	L654	L655	R656	A658	V659	F660	N661	Q662	Q663	K664	H665	L666	H670	C671	N672	G673	S674	V675	G676	S679	L680	W681	P682	CYS	PRO	GLY	ARG	HIS	SER										
GLY	GLY	SER	LVS	GLN	GLN	LEU	VAL	N699	S700	V701	V702	K703	R704	F705	I706	G707	S708	V709	A710	N711	L712	K713	I714	V715	F716	T717	V718	L719	N720	E721	D722	V723	G724	L725	PRO	GLU	ALA	ASN	I730	L732	H733	V734	L737	N738	G739	D740	V741	S742	I743	L744	N745	W746	Q749	D750	Q751	E752								
F753	K754	L755	S756	H757	V758	F759	V760	L761	K762	T763	R764	Q765	S766	G767	T768	R769	C770	F771	V772	Q773	V774	L775	K776	R777	V778	V779	V780	V781	C782	T783	S784	M785	C786	T787	L788	T789	V790	V791	D792	L793	T794	M795	G796	S797	S798	N799	T800	L801	E802	L803	H804	V805	F806	H807	V808	E809	D811	T812						
P813	L814	A815	L816	D817	V818	F819	D820	E821	L822	S823	R824	T825	A826	T827	V828	L829	L830	T831	R832	K833	Y834	S835	V836	W837	R838	L839	H840	T841	L842	P843	G844	S845	S846	V847	S848	L849	Q850	S851	E852	A853	V854	G910	L911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	Q927	V928	V929	H930	V931	H932
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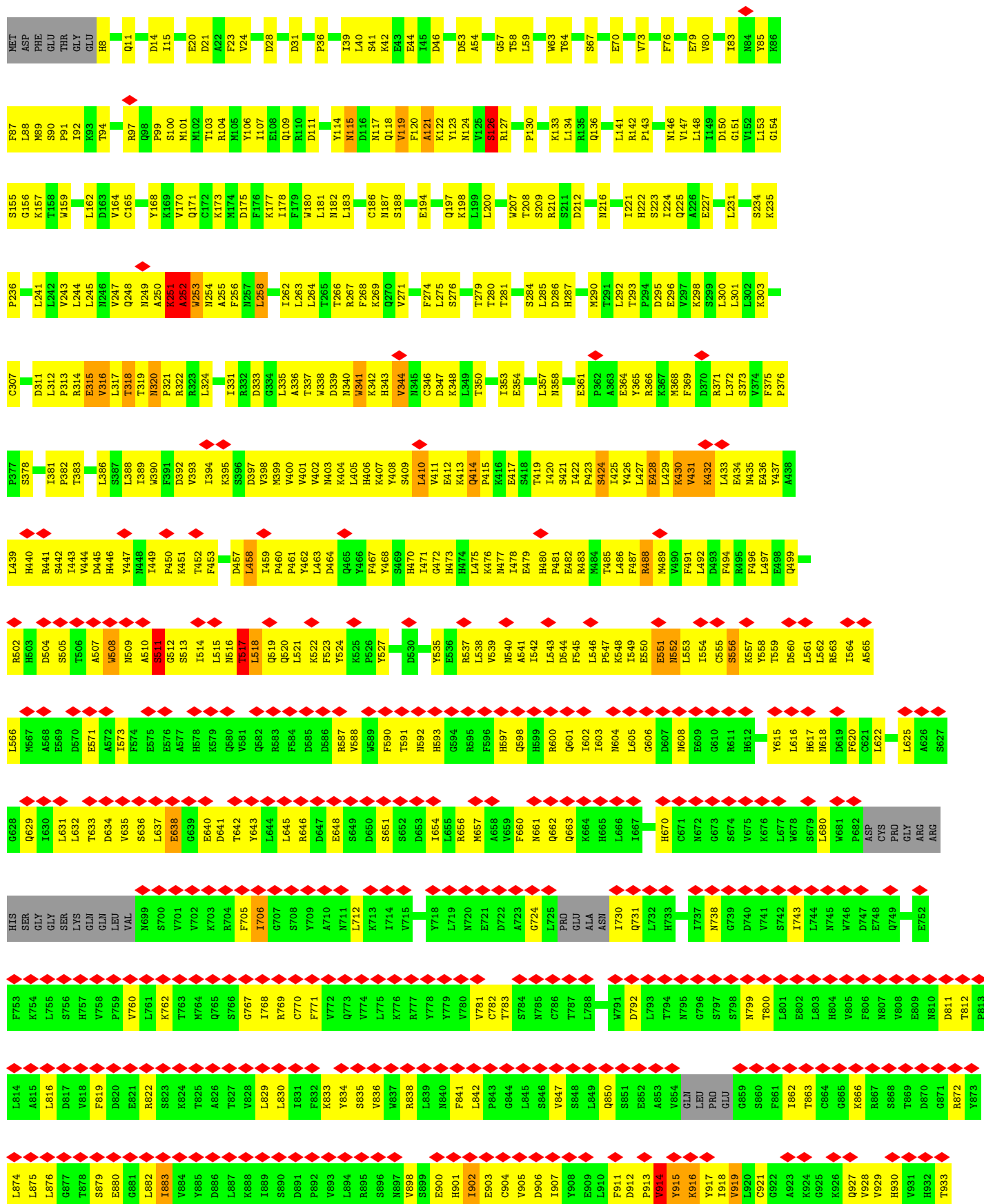




• Molecule 1: Apaf-1 related killer DARK







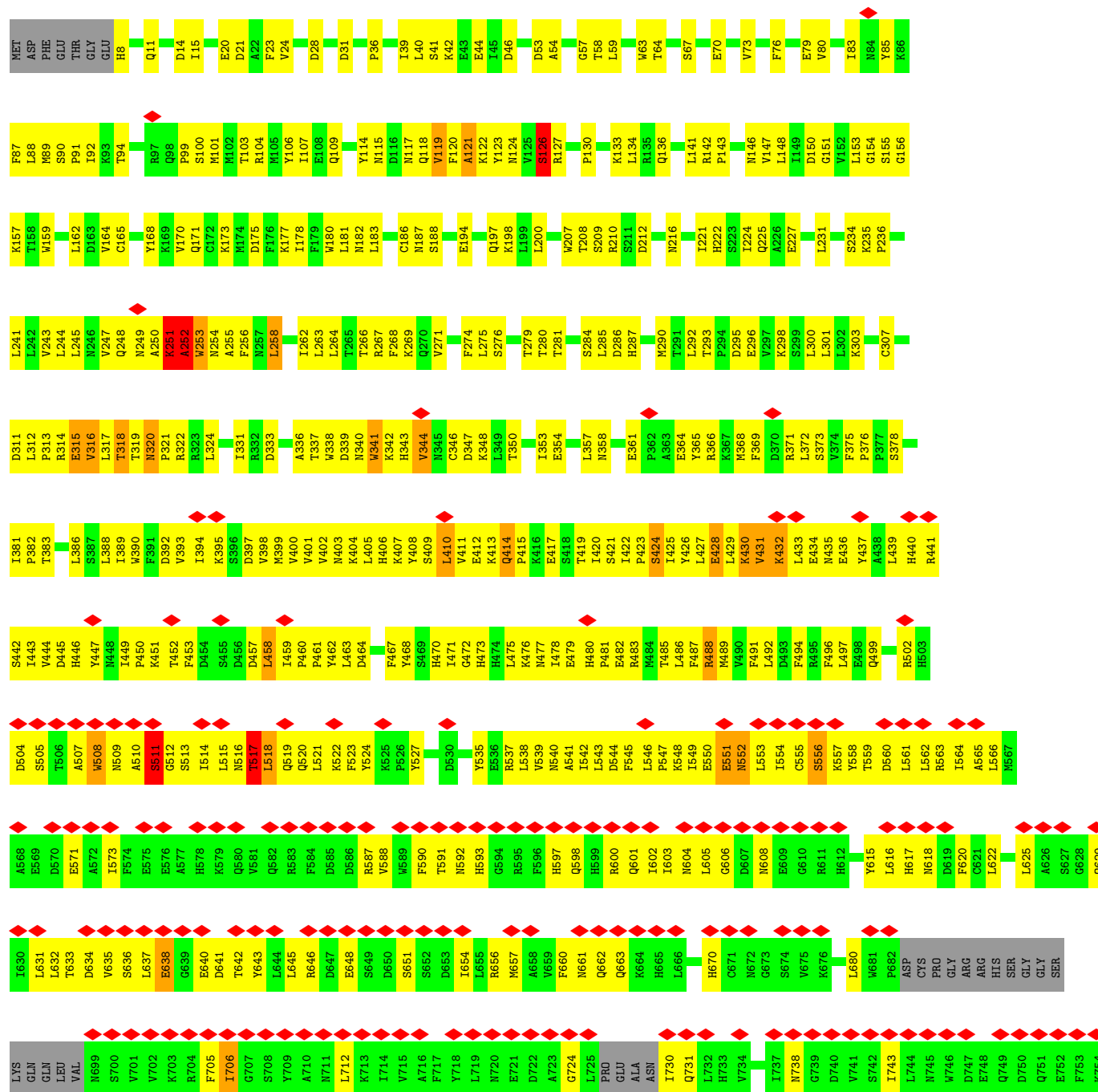
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L875	L876	G877	T878	S879	E880	G881	L882	T883	H884	Y885	D886	L887	K888	T889	S890	D891	K892	V893	Y894	R895	S896	H897	V898	S899	E900	H901	I902	E903	C904	V905	D906	I907	Y908	E909	L910	F911	D912	P913	Y914	K915	K916	Y917	PRO	GLU	G859	S860	F861	T862	T863	C864	S865	K866	R867	D868	H930	V931	H932	T933	L934							
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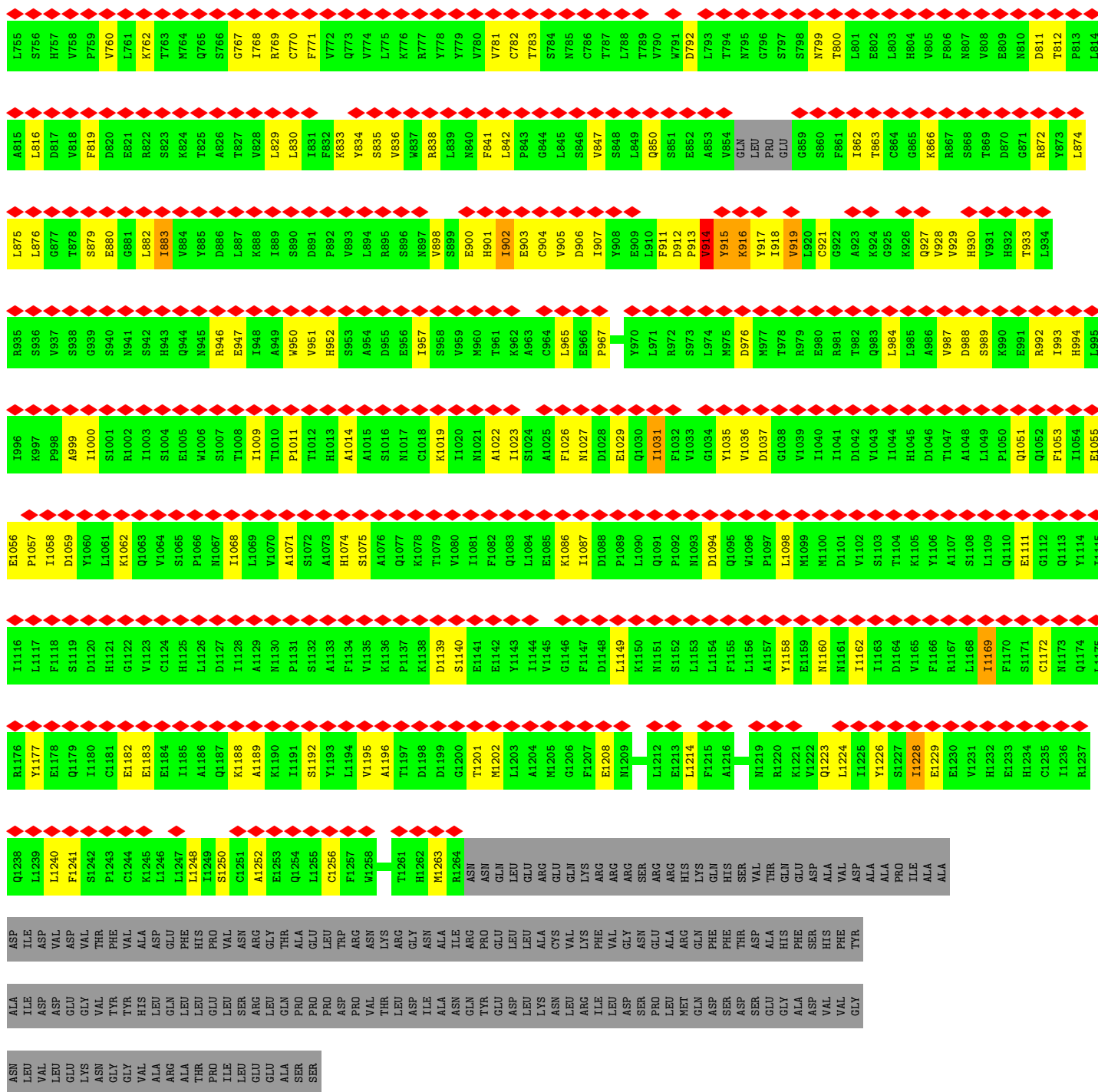




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LEU	VAL	LEU	GLU	GLU	LYS	ASN	GLY	VAL	ALA	ARG	ALA	THR	PRO	ILE	LEU	ARG	GLU	GLU	ALA	PRO	ASP	PRO	VAL	THR	LEU	ASP	ILE	S41	ALA	ASN	GLN	TYR	GLU	ASP	LEU	LYS	ASN	LEU	ARG	LEU	ASP	LEU	LEU	ASP	PRO	MET	GLN	ASP	ASP	SER	SER	GLY	GLY	ALA	ASP	VAL	VAL	GLY	ASN

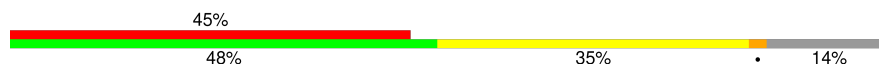
● Molecule 1: Apaf-1 related killer DARK





• Molecule 1: Apaf-1 related killer DARK

Chain J:



S90	P91	D163	V164	C165	Y168	K169	V170	Q171	C172	M173	M174	D175	F176	K177	F178	L179	V180	L181	T265	T266	R267	F268	L183	N115	D116	N117	Q118	V119	F120	A121	K122	Y123	N124	V125	S126	R127	P130	K133	L134	R135	Q136	L141	R142	P143	N146	V147	L148	I149	D150	G151	V152	L153	G154	S155	G156	K157	T158	V159	L162						
V247	Q248	N249	A250	K251	A252	W253	N254	A255	C172	K173	F256	N257	L258	I262	L263	L264	T265	T266	R267	F268	K269	Q270	H271	F274	L275	S276	T279	T280	T281	S284	L285	D286	H287	M290	T291	L292	T293	P294	D295	E296	V297	K298	S299	L300	L301	K303	L304	L305	D306	C307	D311	L312	P313	R314											
E315	V316	L317	T318	T319	L388	V389	F391	R392	V393	L394	K395	S396	D397	V398	M399	V400	V401	V402	N403	K404	L405	H406	V407	A408	S409	L410	V411	E412	K413	Q414	P415	K416	E417	S418	T419	P481	I420	S421	P423	S424	I425	Y426	L427	E428	L429	K430	V431	K432	L433	E434	N435	A436	Y437	P437	P477	S478	I381	P382							
T383	L386	S387	L388	V389	F391	R392	V393	L394	K395	S396	D397	V398	M399	V400	V401	V402	N403	K404	L405	H406	V407	A408	S409	L410	V411	E412	K413	Q414	P415	K416	E417	S418	T419	P481	I420	S421	P423	S424	I425	Y426	L427	E428	L429	K430	V431	K432	L433	E434	N435	A436	Y437	P437	P477	S478	I381	P382									
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H757	V758	F759	V760	L761	K762	T763	M764	Q765	S766	G767	L768	R769	C770	F771	V772	Q773	V774	L775	K776	F777	L778	W779	V780	W781	C782	T783	S784	M785	C786	T787	L788	T789	V790	W791	D792	L793	T794	N795	G796	S797	N798	N799	T800	L801	E802	C864	L803	H804	V805	F806	N807	W808	D870	G871	R872	L873	T812	P813	L814	A815	L816				
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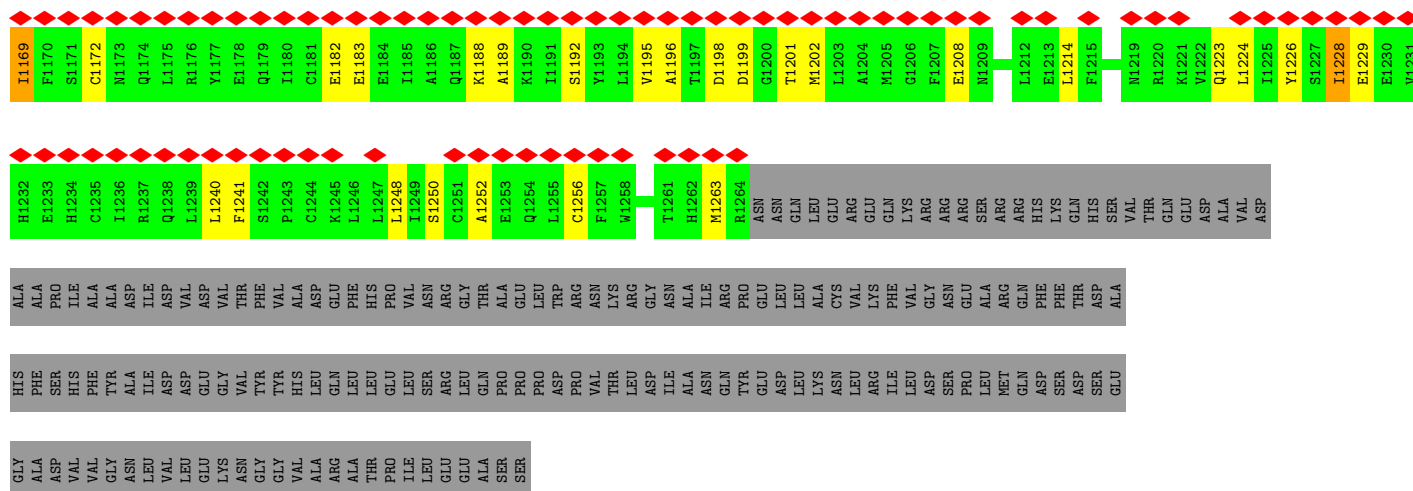
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R1002	K1062	G1122	E1182	C1244	VAL
I1003	V1063	G1123	E1183	K1245	THR
S1004	Q1064	C1124	E1184	L1246	TYR
E1005	S1065	H1125	I1185	L1247	HIS
W1006	P1066	L1126	A1186	L1248	LEU
S1007	N1067	D1127	Q1187	L1249	GLN
T1008	I1068	T1128	K1188	C1250	LEU
I1009	L1069	A1129	A1189	C1251	PRO
T1010	V1070	N1130	K1190	A1252	VAL
P1011	A1071	P1131	I1191	E1253	ASN
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A1014	H1074	A1133	Y1193	L1255	GLY
A1015	S1075	F1134	L1194	C1256	THR
S1016	Q1077	K1135	V1195	F1257	PRO
M1017	K1078	P1137	A1196	W1258	ASP
C1018	K1079	D1138	T1197	T1261	VAL
K1019	V1080	K1139	D1199	M1263	THR
I1020	I1081	S1140	G1200	R1264	LEU
M1021	F1082	E1141	T1201	ASN	ASN
A1022	Q1083	E1142	M1202	GLN	ASN
I1023	L1084	I1143	A1204	LEU	GLN
S1024	E1085	I1144	M1205	GLU	GLU
A1025	K1086	V1145	G1206	ARG	LEU
F1026	I1087	L1146	C1207	GLN	ASN
N1027	D1088	F1147	E1208	LYS	VAL
E1029	P1089	L1149	M1209	ARG	ARG
Q1030	K1090	K1150	G1210	ARG	LEU
I1031	Q1091	M1151	T1211	ARG	GLY
F1032	P1092	S1152	L1212	ARG	ASP
V1033	N1093	L1153	E1213	HIS	PRO
G1034	D1094	L1154	L1214	LYS	LEU
Y1035	W1095	F1155	F1215	GLN	ARG
V1036	W1096	L1156		HIS	VAL
D1037	P1097	A1157		SER	PHE
G1038	M1099	E1159	N1219	THR	ASP
V1039	M1100	N1160	R1220	ALA	ASP
I1040	D1101	M1161	K1221	GLN	ALA
D1042	V1102	I1162	V1222	GLU	HIS
I1043	T1104	I1163	Q1223	ASP	PHE
I1044	K1105	D1164	ALA	ALA	ASP
H1045	Y1106	V1165	S1227	VAL	VAL
T1046	A1107	F1166	I1228	ASP	HIS
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A1048	S1108	I1169	ALA	ALA	GLY
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F1053	Q1113	Q1174	I1236		
I1054	Y1114	L1175	R1237		
E1055	I1115	R1176	Q1238		
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• Molecule 1: Apaf-1 related killer DARK

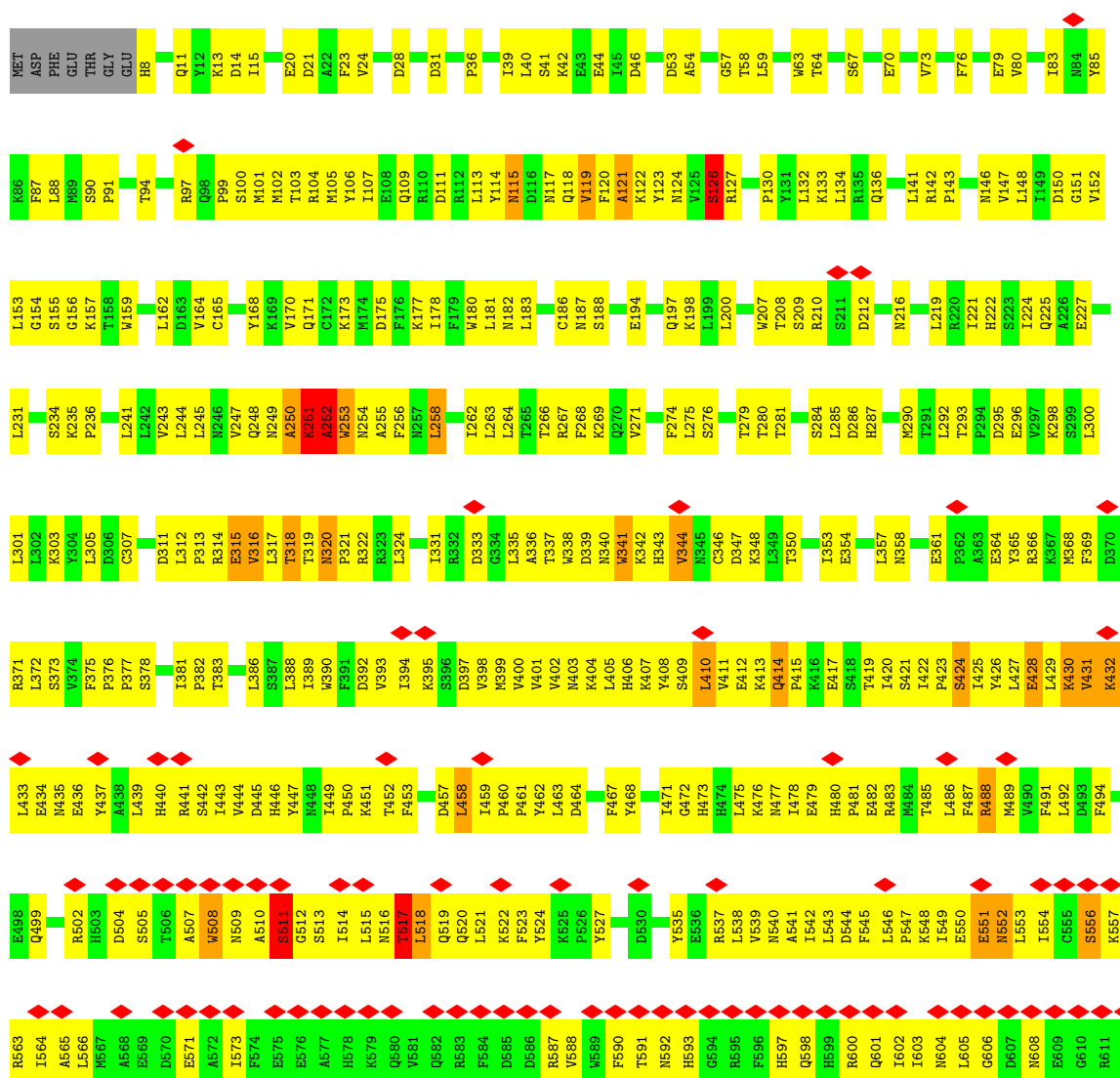


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GLY	P91	W159	L244	E315
GLU	I92	L162	L245	V316
H8	K93	D163	N246	T317
Q11	T94	C165	N247	T318
Y12	Q95	Y168	N249	T319
K13	Q96	K169	A250	N320
D14	P99	V170	K251	P321
I15	M101	Q171	A252	R322
E20	M102	C172	W253	R323
D21	T103	K173	N254	L324
A22	R104	W174	A255	S325
F23	M105	D175	F256	E329
V24	Y106	F176	N257	S330
D28	I107	K177	L258	I331
Q109	E108	I178	T262	R332
D31	L113	F179	L263	D333
P36	Y114	W180	L264	A336
I39	N115	L181	T265	T337
L40	M116	N182	R266	W338
S41	N117	K183	F267	D339
K42	Q118	C186	F268	N340
E43	V119	N187	K269	W341
E44	F120	S188	Q270	K342
L45	A121	E194	F274	H343
D46	K122	Q197	L275	N344
D53	Y123	K198	S276	W345
A54	S126	L199	T279	C346
G57	R127	L200	T280	D347
T58	P130	W207	T281	L349
L59	K133	T208	S284	T350
W63	L134	S209	L285	I353
T64	R135	R210	H286	E354
S67	Q136	S211	H287	L357
E70	L141	D212	M290	N358
V73	R142	N216	T291	E361
F76	P143	I221	L292	P362
E79	K145	H222	T293	A363
V80	S223	K146	P294	E364
I83	N147	I224	D295	Y365
N84	L148	Q225	Q296	R366
Y85	I149	A226	V297	K367
	D150	E227	K298	M368
	G151	L231	S299	F369
	V152	S234	L300	D370
	L153		L301	R371
			K303	L372
				S373

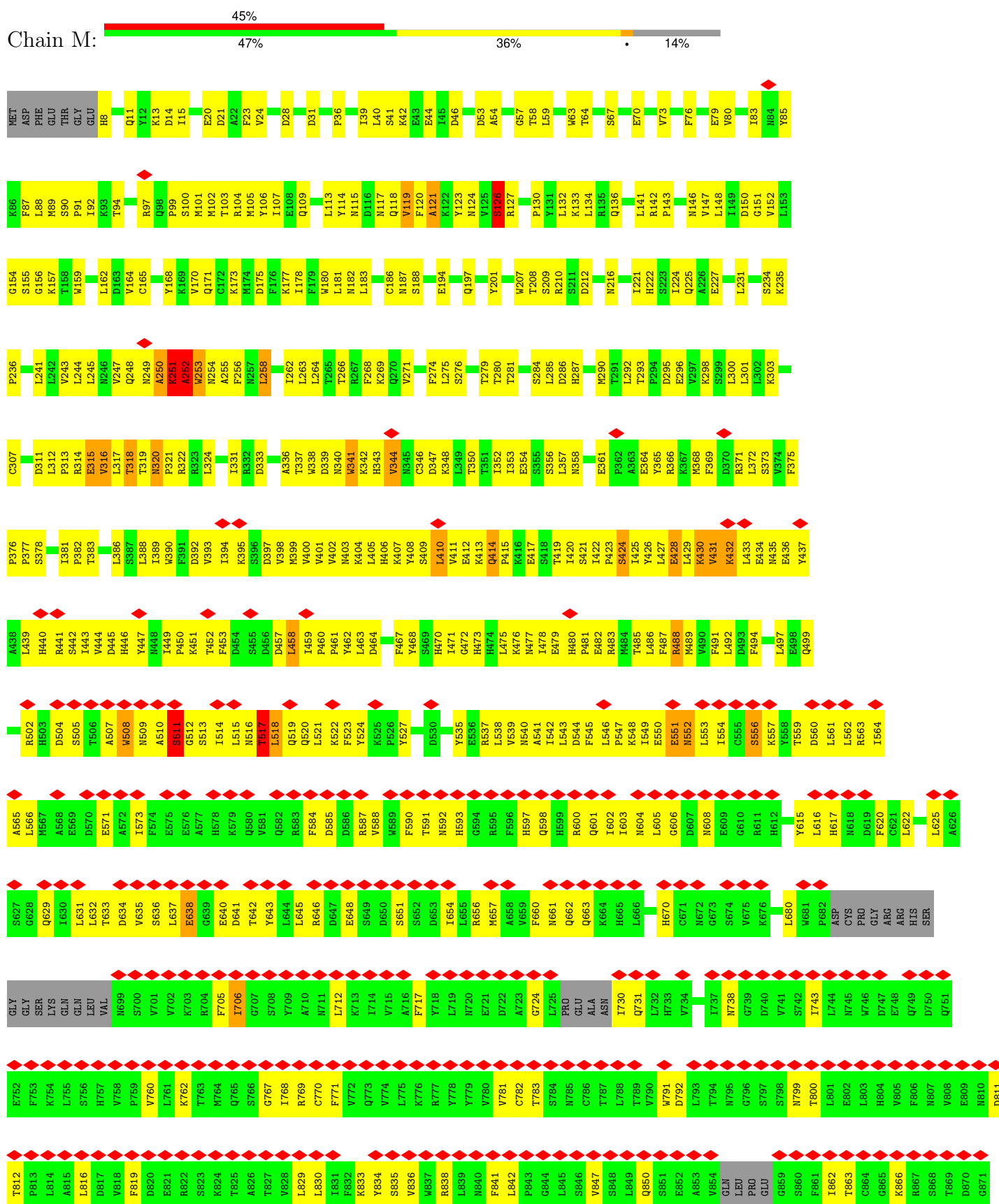
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L1049	P1050	Q1051	Q1052	F1053	I1054	E1055	E1056	P1057	I1058	D1059	Y1060	L1061	K1062	Q1063	V1064	S1065	P1066	N1067	I1068	L1069	V1070	A1071	S1072	A1073	H1074	S1075	A1076	Q1077	K1078	T1079	V1080	I1081	F1082	Q1083	L1084	E1085	K1086	I1087	D1088	P1089	L1090	Q1091	P1092	N1093	D1094	Q1095	N1096	P1097	L1098	M1099	M1100	D1101	V1102	S1103	T1104	K1105	A1106	A1107	S1108
V928	V929	H930	V931	H932	T933	L934	R935	S936	V937	S938	G939	S940	H941	S942	H943	Q944	H945	R946	E947	T948	A949	V950	V951	H952	S953	A954	D955	E956	V957	S958	S959	N960	T961	H962	A963	C964	L965	E966	P967	Y970	L971	R972	S973	L974	H975	D976	H977	T978	R979	E980	R981	T982	Q983	L984	L985	A986	V987	D988	
S888	T889	D890	G891	R892	H893	L894	L895	L896	G897	T898	S899	V890	F891	D892	E893	H894	H895	D896	L897	R898	S899	S890	D891	H892	H893	L894	R895	S896	H897	S898	S899	E900	H901	I902	E903	C904	V905	D906	I907	Y908	E909	L910	F911	D912	P913	V914	Y915	K916	H917	T918	V919	L920	C921	G922	A923	K924	G925	K926	Q927
H807	V808	E809	H810	D811	T812	P813	L814	A815	L816	D817	V818	F819	D820	E821	R822	S823	K824	T825	A826	T827	V828	L829	L830	L831	H832	V833	S835	V836	H837	R838	L839	H840	F841	L842	P843	C844	L845	S846	V847	S848	L849	Q850	S851	E852	A853	V854	G855	L856	S857	S858	T859	H860	L861	T862	T863	C864	G865	K866	F867
W746	D747	E748	Q749	D750	Q751	E752	F753	K754	L755	S756	H757	V758	P759	V760	L761	T762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Q773	W774	L775	K776	V777	V778	V779	V780	V781	C782	T783	S784	N785	C786	T787	L788	H791	D792	G793	L794	N795	G796	S797	S798	N799	T800	L801	T802	C803	H804	V805	F806	
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S888	T889	D890	G891	R892	H893	L894	L895	L896	G897	T898	S899	V890	F891	D892	E893	H894	H895	D896	L897	R898	S899	S890	D891	H892	H893	L894	R895	S896	H897	S898	S899	E900	H901	I902	E903	C904	V905	D906	I907	Y908	E909	L910	F911	D912	P913	V914	Y915	K916	H917	T918	V919	L920	C921	G922	A923	K924	G925	K926	Q927
S889	K990	E991	R992	R993	H994	L995	I996	K997	I1008	A999	I1000	S1001	R1002	I1003	S1004	E1005	V1006	S1007	I1008	T1009	T1010	P1011	H1012	H1013	A1014	A1015	S1016	N1017	C1018	K1019	I1020	N1021	A1022	I1023	S1024	A1025	F1026	N1027	D1028	E1029	Q1030	I1031	F1032	V1033	G1034	Y1035	D1036	V1037	G1038	V1039	I1040	I1041	D1042	V1043	T1044	H1045	A1046	T1047	A1048
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• Molecule 1: Apaf-1 related killer DARK



- Molecule 1: Apaf-1 related killer DARK



VAL	VAL	GLY	GLY	ASN	ASN	ASN	GLY	GLY	GLY	VAL	VAL	GLN	ARG	ALA	ALA	THR	PRO	GLU	THR	THR	PRO	ILE	ILE	LEU	LEU	LEU	ASN	GLN	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU</
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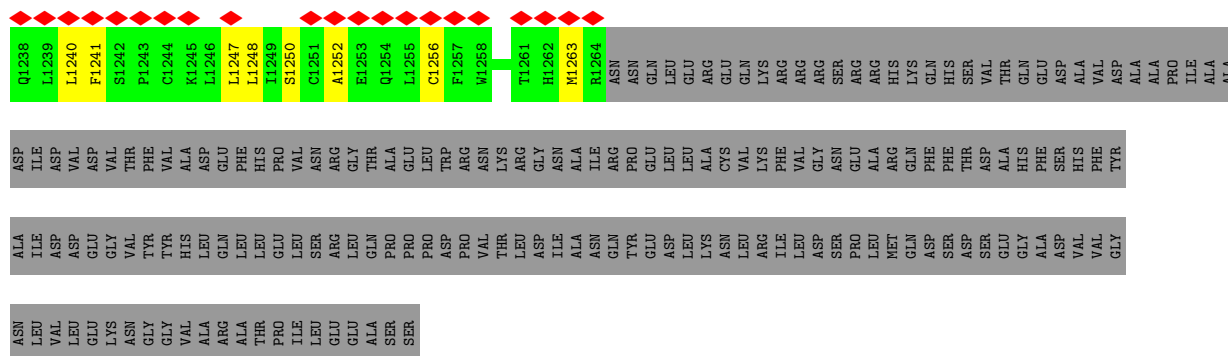
• Molecule 1: Apaf-1 related killer DARK



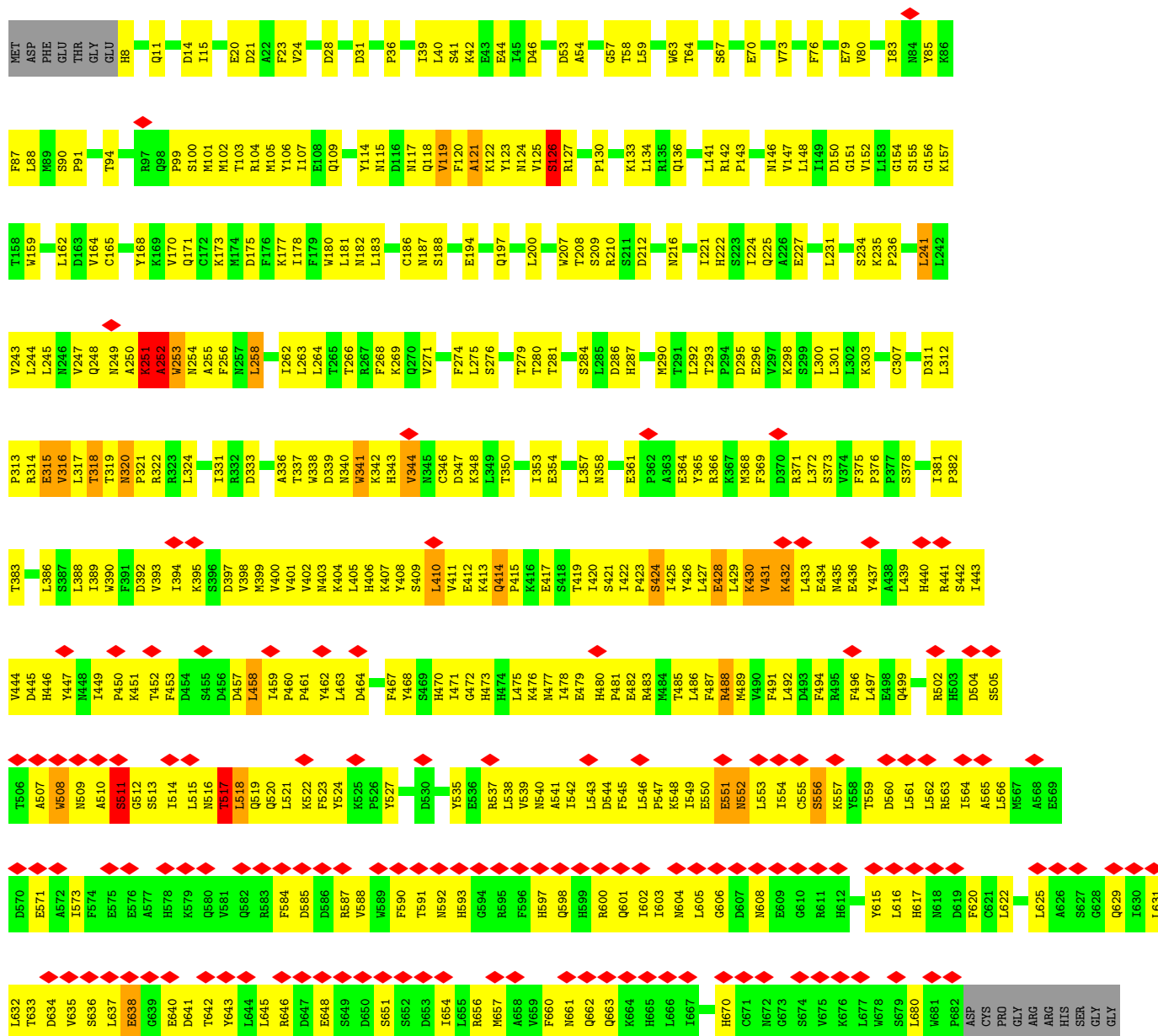
D163	V164	C165	Y168	K169	V170	Q171	K173	M174	D175	F176	K177	I178	F179	W180	L181	N182	L183	C186	N187	Q188	E194	Q197	K198	W207	T208	S209	R210	S211	D212	N216	I221	H222	S223	I224	Q225	A226	E227	L231	S234	K235	P236	L241	N242	V243	L244	N245	V246				
S90	P91	R97	Q98	P99	S100	M101	M102	T103	R104	M105	Y106	I107	E108	Q109	L113	Y114	N115	D116	N117	Q118	Y119	F120	A121	K122	Y123	N124	W125	S126	R127	P130	K133	L134	Q135	Q136	L141	R142	P143	N146	V147	L148	I149	D150	G151	V152	L153	G154	S155	G156	K157	T158	W159
MET	ASP	PHE	GLU	THR	GLY	GLU	H8	Q11	D14	I15	E20	D21	A22	F23	V24	D28	D31	P36	I39	L40	S41	E44	D53	A54	G57	T58	L59	W63	T64	S67	E70	V73	F76	E79	V80	I83	N84	Y85	K86	F87	L88										

R1002	I1003	S1004	W1005	E1006	S1007	T1008	I1009	P1010	P1011	T1012	H1013	A1014	A1015	S1016	N1017	C1018	K1019	I1020	N1021	A1022	S1024	A1025	F1026	N1027	D1028	E1029	I1030	I1031	F1032	V1033	G1034	Y1035	V1036	D1037	G1038	V1039	I1040	I1041	D1042	V1043	I1044	H1045	D1046	T1047	A1048	L1049	P1050	Q1051	Q1052	F1053	I1054	E1055	E1056	P1057	I1058	D1059	Y1060	L1061		
N941	S942	H943	Q944	N945	R946	E947	I948	A949	Y950	V951	H952	S953	A954	D955	E956	I957	S958	V959	M960	T961	K962	A963	C964	L965	E966	P967	Y970	L971	R972	S973	L974	M975	D976	M977	T978	R979	L980	F981	T982	Q983	L984	L985	A986	V987	D988	S989	L990	H991	Q992	Q993	I994	L995	I996	K997	P998	A999	I1000	S1001		
E821	R822	S823	K824	T825	A826	T827	W828	L829	L830	I831	K832	Y833	Y834	S835	W836	W837	R838	L839	H840	F841	L842	P843	G844	L845	S846	W847	S848	L849	Q850	S851	E852	A853	W854	G1N	L1E	P1G	G1G	G859	S860	T861	T862	T863	C864	G865	K866	R867	S868	T869	V931	H932	T933	R872	Y873	L874	L875	L876	G877	T878	S879	E880
L761	K762	T763	W764	Q765	S766	G767	T768	R769	C770	F771	W772	Q773	L774	L775	K776	R777	W778	Y779	W780	W781	C782	T783	S784	W785	C786	T787	L788	T789	W790	W791	D792	L793	T794	W795	G796	S797	S798	W799	T800	L801	E802	H804	W805	F806	N807	W808	D809	Q751	E752	H810	D811	T812	P813	L814	L815	G877	T878	S879	E880	
S700	W701	W702	K703	R704	F705	I706	G707	S708	W709	A710	W711	L712	K713	W714	W715	A716	F717	Y718	L719	W720	E721	D722	A723	G724	L725	P1G	G1U	A1A	A1N	W730	Q731	L732	H733	W734	L737	W738	G739	D740	W741	S742	L743	L744	W745	W746	D747	Q749	D750	Q751	F753	K754	S755	W756	H757	P758	W760					
L637	E638	G639	E640	D641	T642	Y643	L644	L645	R646	D647	E648	S649	W650	S651	S652	D653	L654	L655	R656	H657	A658	F660	N661	G662	Q663	K664	H665	L666	H670	G671	N672	G673	S674	W675	K676	S679	L680	W681	P682	A1P	C1S	P1D	G1Y	A1G	H1S	S1R	G1Y	S1R	L1S	G1N	G1N	L1E	V1A	W699						
E576	E577	H578	K579	Q580	W581	Q582	R583	F584	D585	E586	R587	Y588	W589	F590	T591	N592	H593	G594	L595	V596	H597	Q598	H599	R600	Q601	I602	K548	L603	N604	L605	G606	D607	N608	E609	G610	R611	H612	Y615	L616	H617	N618	D619	F620	C621	L622	L625	A626	S627	G628	Q629	I630	L631	L632	T633	D634	V635	S636			
S511	G512	S513	I514	L515	N516	T517	L518	Q519	Q520	L521	K522	F523	Y524	K525	F526	Y527	D530	Y535	R537	L538	V539	N540	A541	L542	L543	D544	F545	L546	P547	K548	I549	E550	E551	N552	L553	I554	C555	S556	K557	Y558	T559	D560	L561	L562	R563	L564	A565	L566	N567	A568	E569	D570	E571	A572	L573	F574				
W448	I449	K451	T452	D453	F454	S455	D456	D457	L458	I459	P460	Y461	Y462	L463	D464	F467	H470	I471	G472	H473	H474	L475	M476	L477	L478	E479	H480	P481	E482	R483	N484	T485	L486	F487	R488	Y489	Y490	L491	L492	D493	F494	R495	F496	Q499	R502	H503	D504	S505	T506	A507	W508	N509	A510							
L388	I389	W390	F391	V393	I394	K395	D397	V398	M399	V400	V401	V402	M403	K404	H406	K407	Y408	S409	L410	V411	K412	K413	Q414	K416	S418	T419	I420	S421	I422	P423	S424	I425	Y426	L427	E428	L429	K430	V431	K432	L433	E434	M435	E436	Y437	A438	L439	H440	R441	S442	I443	V444	D445	H446	Y447						
L317	T318	N319	N320	P321	R322	H323	L324	I331	R332	D333	A336	T337	W338	D339	N340	W341	K342	H343	V344	N345	C346	D347	K348	L349	T350	I353	E354	L357	N358	E361	P362	E364	Y365	R366	K367	M368	F369	D370	R371	L372	S373	V374	F375	P376	P377	S378	I381	P382	T383	E386	S387									
Q248	N249	A250	K251	A252	W253	N254	F256	N257	L258	I262	L263	L264	T265	T266	R267	F268	K269	Q270	V271	F274	L275	S276	T279	T280	T281	H282	I283	S284	L285	D286	H287	M290	T291	L292	T293	P294	D295	E296	T297	K298	S299	L300	L301	L302	K303	C307	D311	L312	P313	R314	E315	V316								

R1176	I1116	E1056	H1121	D1120	Y1060	A999	S938	R935	I1000	S1001	L1061	K1062	G1122	E1182	C1181	Q1179	F1118	L1117	P1057	E1056	I1116	L1149	E1208	F1207	M1205	I1144	L1084	A1025	F1026	K1086	I1087	D1088	P1089	L1090	Q1030	E1029	L1149	D1148	G1147	F1146	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442
R1237	L1175	T1115	Q1173	C1235	H1234	E1233	I1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442				
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779	L719	F718	F717	V715	S651	S652	D653	T591	F590	P526	K525	Y524	F523	K522	L521	Q520	P461	Y462	L463	D464	I459	L458	D457	S455	D454	F453	T452	K451	P450	I449	M448	Y447	H446	D445	T506	E571	D570	S505	D504	S442						
R1237	L1236	I1236	H1234	E1233	H1232	V1231	S1227	I1169	A1107	Y1106	F1166	R1167	S1168	L1109	Q1110	E1111	G1112	Q1051	P1050	L1049	S1108	I1169	H1232	E1233	H1234	C1235	N1173	I1236	L1237	M1209	E1208	F1207	G1206	M1205	V1145	I1144	A1204	L1084	Q1083	F1082	I1081	V1080	T1079	K1078	Q1077	A1076	S1075	H1074	A1073	S1132	P1131	N1130	A1129	L1069	I1068	S1188	K1187	Q1187	A1186	P1066	S1065	V1064	Q1063	R1002	L1061	S1001	G939	S940	E880	F819	V818	D817	L816	A815	L755	L756	P759	V760	L761	K762	T763	M764	Q765	S766	G767	I768	R769	C770	F771	V772	Y778	Y779																																														



● Molecule 1: Apaf-1 related killer DARK





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D8	Depositor
Number of particles used	17769	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 ($e^-/\text{\AA}^2$)	1.8	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	81000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.222	Depositor
Minimum map value	-0.151	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.03	Depositor
Map size (Å)	432.0, 432.0, 432.0	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.35, 1.35, 1.35	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	B	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	C	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	D	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	E	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	F	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	G	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	H	0.51	6/10231 (0.1%)	0.62	10/13873 (0.1%)
1	I	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	J	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	K	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	L	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	M	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	N	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	O	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	P	0.51	6/10231 (0.1%)	0.62	10/13873 (0.1%)
All	All	0.51	96/163696 (0.1%)	0.62	146/221968 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	15
1	B	0	15
1	C	0	15
1	D	0	15
1	E	0	15
1	F	0	15
1	G	0	15

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	0	15
1	I	0	15
1	J	0	15
1	K	0	15
1	L	0	15
1	M	0	15
1	N	0	15
1	O	0	15
1	P	0	15
All	All	0	240

All (96) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	250	ALA	CA-CB	-10.19	1.31	1.52
1	J	250	ALA	CA-CB	-10.19	1.31	1.52
1	F	250	ALA	CA-CB	-10.18	1.31	1.52
1	L	250	ALA	CA-CB	-10.17	1.31	1.52
1	B	250	ALA	CA-CB	-10.16	1.31	1.52
1	C	250	ALA	CA-CB	-10.16	1.31	1.52
1	E	250	ALA	CA-CB	-10.16	1.31	1.52
1	A	250	ALA	CA-CB	-10.15	1.31	1.52
1	H	250	ALA	CA-CB	-10.15	1.31	1.52
1	G	250	ALA	CA-CB	-10.15	1.31	1.52
1	I	250	ALA	CA-CB	-10.14	1.31	1.52
1	M	250	ALA	CA-CB	-10.14	1.31	1.52
1	O	250	ALA	CA-CB	-10.14	1.31	1.52
1	K	250	ALA	CA-CB	-10.14	1.31	1.52
1	D	250	ALA	CA-CB	-10.13	1.31	1.52
1	N	250	ALA	CA-CB	-10.12	1.31	1.52
1	L	252	ALA	CA-CB	-8.64	1.34	1.52
1	H	252	ALA	CA-CB	-8.64	1.34	1.52
1	J	252	ALA	CA-CB	-8.62	1.34	1.52
1	N	252	ALA	CA-CB	-8.62	1.34	1.52
1	P	252	ALA	CA-CB	-8.61	1.34	1.52
1	A	252	ALA	CA-CB	-8.60	1.34	1.52
1	B	252	ALA	CA-CB	-8.60	1.34	1.52
1	I	252	ALA	CA-CB	-8.60	1.34	1.52
1	C	252	ALA	CA-CB	-8.59	1.34	1.52
1	D	252	ALA	CA-CB	-8.59	1.34	1.52
1	G	252	ALA	CA-CB	-8.59	1.34	1.52
1	M	252	ALA	CA-CB	-8.58	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	252	ALA	CA-CB	-8.58	1.34	1.52
1	K	252	ALA	CA-CB	-8.58	1.34	1.52
1	F	252	ALA	CA-CB	-8.58	1.34	1.52
1	E	252	ALA	CA-CB	-8.57	1.34	1.52
1	O	414	GLN	C-N	6.97	1.47	1.34
1	P	414	GLN	C-N	6.94	1.47	1.34
1	D	414	GLN	C-N	6.94	1.47	1.34
1	I	414	GLN	C-N	6.93	1.47	1.34
1	F	414	GLN	C-N	6.92	1.47	1.34
1	B	414	GLN	C-N	6.92	1.47	1.34
1	G	414	GLN	C-N	6.92	1.47	1.34
1	A	414	GLN	C-N	6.92	1.47	1.34
1	E	414	GLN	C-N	6.92	1.47	1.34
1	M	414	GLN	C-N	6.91	1.47	1.34
1	K	414	GLN	C-N	6.91	1.47	1.34
1	J	414	GLN	C-N	6.91	1.47	1.34
1	N	414	GLN	C-N	6.91	1.47	1.34
1	C	414	GLN	C-N	6.89	1.47	1.34
1	H	414	GLN	C-N	6.88	1.47	1.34
1	L	414	GLN	C-N	6.87	1.47	1.34
1	E	559	THR	C-N	6.71	1.49	1.34
1	M	559	THR	C-N	6.71	1.49	1.34
1	D	559	THR	C-N	6.70	1.49	1.34
1	L	559	THR	C-N	6.70	1.49	1.34
1	N	559	THR	C-N	6.70	1.49	1.34
1	C	559	THR	C-N	6.69	1.49	1.34
1	I	559	THR	C-N	6.68	1.49	1.34
1	A	559	THR	C-N	6.68	1.49	1.34
1	B	559	THR	C-N	6.67	1.49	1.34
1	K	559	THR	C-N	6.66	1.49	1.34
1	P	559	THR	C-N	6.66	1.49	1.34
1	J	559	THR	C-N	6.66	1.49	1.34
1	H	559	THR	C-N	6.66	1.49	1.34
1	O	559	THR	C-N	6.66	1.49	1.34
1	F	559	THR	C-N	6.64	1.49	1.34
1	G	559	THR	C-N	6.64	1.49	1.34
1	K	250	ALA	CA-C	-5.75	1.38	1.52
1	G	250	ALA	CA-C	-5.74	1.38	1.52
1	B	250	ALA	CA-C	-5.73	1.38	1.52
1	M	250	ALA	CA-C	-5.73	1.38	1.52
1	O	250	ALA	CA-C	-5.73	1.38	1.52
1	E	250	ALA	CA-C	-5.73	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	250	ALA	CA-C	-5.72	1.38	1.52
1	A	250	ALA	CA-C	-5.72	1.38	1.52
1	J	250	ALA	CA-C	-5.72	1.38	1.52
1	D	250	ALA	CA-C	-5.72	1.38	1.52
1	C	250	ALA	CA-C	-5.71	1.38	1.52
1	P	250	ALA	CA-C	-5.71	1.38	1.52
1	H	250	ALA	CA-C	-5.70	1.38	1.52
1	L	250	ALA	CA-C	-5.70	1.38	1.52
1	F	250	ALA	CA-C	-5.70	1.38	1.52
1	I	250	ALA	CA-C	-5.68	1.38	1.52
1	H	508	TRP	CB-CG	-5.49	1.40	1.50
1	I	508	TRP	CB-CG	-5.47	1.40	1.50
1	E	508	TRP	CB-CG	-5.46	1.40	1.50
1	A	508	TRP	CB-CG	-5.44	1.40	1.50
1	K	508	TRP	CB-CG	-5.44	1.40	1.50
1	D	508	TRP	CB-CG	-5.44	1.40	1.50
1	J	508	TRP	CB-CG	-5.44	1.40	1.50
1	N	508	TRP	CB-CG	-5.44	1.40	1.50
1	F	508	TRP	CB-CG	-5.44	1.40	1.50
1	C	508	TRP	CB-CG	-5.43	1.40	1.50
1	L	508	TRP	CB-CG	-5.43	1.40	1.50
1	B	508	TRP	CB-CG	-5.42	1.40	1.50
1	M	508	TRP	CB-CG	-5.42	1.40	1.50
1	O	508	TRP	CB-CG	-5.42	1.40	1.50
1	G	508	TRP	CB-CG	-5.40	1.40	1.50
1	P	508	TRP	CB-CG	-5.39	1.40	1.50

All (146) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	559	THR	O-C-N	-7.67	110.42	122.70
1	L	559	THR	O-C-N	-7.66	110.44	122.70
1	N	559	THR	O-C-N	-7.66	110.44	122.70
1	J	559	THR	O-C-N	-7.65	110.46	122.70
1	D	559	THR	O-C-N	-7.65	110.46	122.70
1	I	559	THR	O-C-N	-7.65	110.47	122.70
1	C	559	THR	O-C-N	-7.64	110.47	122.70
1	A	559	THR	O-C-N	-7.64	110.48	122.70
1	O	559	THR	O-C-N	-7.64	110.48	122.70
1	P	559	THR	O-C-N	-7.64	110.48	122.70
1	F	559	THR	O-C-N	-7.64	110.48	122.70
1	G	559	THR	O-C-N	-7.63	110.49	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	559	THR	O-C-N	-7.63	110.49	122.70
1	B	559	THR	O-C-N	-7.62	110.51	122.70
1	H	559	THR	O-C-N	-7.62	110.52	122.70
1	K	559	THR	O-C-N	-7.61	110.52	122.70
1	L	414	GLN	O-C-N	7.59	135.52	121.10
1	I	414	GLN	O-C-N	7.58	135.50	121.10
1	P	414	GLN	O-C-N	7.57	135.49	121.10
1	C	414	GLN	O-C-N	7.57	135.49	121.10
1	K	414	GLN	O-C-N	7.57	135.49	121.10
1	F	414	GLN	O-C-N	7.57	135.48	121.10
1	J	414	GLN	O-C-N	7.56	135.46	121.10
1	A	414	GLN	O-C-N	7.56	135.46	121.10
1	N	414	GLN	O-C-N	7.56	135.46	121.10
1	G	414	GLN	O-C-N	7.55	135.45	121.10
1	M	414	GLN	O-C-N	7.55	135.44	121.10
1	E	414	GLN	O-C-N	7.54	135.43	121.10
1	O	414	GLN	O-C-N	7.54	135.43	121.10
1	B	414	GLN	O-C-N	7.54	135.42	121.10
1	D	414	GLN	O-C-N	7.53	135.41	121.10
1	H	414	GLN	O-C-N	7.53	135.41	121.10
1	N	559	THR	C-N-CA	7.42	140.24	121.70
1	M	559	THR	C-N-CA	7.41	140.23	121.70
1	P	559	THR	C-N-CA	7.41	140.23	121.70
1	C	559	THR	C-N-CA	7.40	140.20	121.70
1	J	559	THR	C-N-CA	7.40	140.20	121.70
1	F	559	THR	C-N-CA	7.40	140.20	121.70
1	I	559	THR	C-N-CA	7.40	140.20	121.70
1	L	559	THR	C-N-CA	7.40	140.20	121.70
1	K	559	THR	C-N-CA	7.40	140.19	121.70
1	A	559	THR	C-N-CA	7.39	140.19	121.70
1	O	559	THR	C-N-CA	7.39	140.19	121.70
1	B	559	THR	C-N-CA	7.39	140.18	121.70
1	D	559	THR	C-N-CA	7.39	140.17	121.70
1	G	559	THR	C-N-CA	7.39	140.17	121.70
1	H	559	THR	C-N-CA	7.39	140.17	121.70
1	E	559	THR	C-N-CA	7.38	140.16	121.70
1	J	458	LEU	CA-CB-CG	6.47	130.19	115.30
1	E	458	LEU	CA-CB-CG	6.47	130.18	115.30
1	G	458	LEU	CA-CB-CG	6.46	130.16	115.30
1	N	458	LEU	CA-CB-CG	6.46	130.15	115.30
1	D	458	LEU	CA-CB-CG	6.46	130.15	115.30
1	O	458	LEU	CA-CB-CG	6.45	130.14	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	H	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	B	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	L	458	LEU	CA-CB-CG	6.45	130.12	115.30
1	K	458	LEU	CA-CB-CG	6.44	130.12	115.30
1	C	458	LEU	CA-CB-CG	6.44	130.11	115.30
1	F	458	LEU	CA-CB-CG	6.44	130.11	115.30
1	P	458	LEU	CA-CB-CG	6.43	130.09	115.30
1	I	458	LEU	CA-CB-CG	6.42	130.08	115.30
1	M	458	LEU	CA-CB-CG	6.42	130.08	115.30
1	N	559	THR	CA-C-N	5.74	129.82	117.20
1	C	559	THR	CA-C-N	5.74	129.82	117.20
1	F	559	THR	CA-C-N	5.74	129.82	117.20
1	H	559	THR	CA-C-N	5.73	129.81	117.20
1	L	559	THR	CA-C-N	5.73	129.81	117.20
1	O	559	THR	CA-C-N	5.73	129.81	117.20
1	B	559	THR	CA-C-N	5.73	129.80	117.20
1	J	559	THR	CA-C-N	5.73	129.80	117.20
1	A	559	THR	CA-C-N	5.72	129.79	117.20
1	G	559	THR	CA-C-N	5.72	129.79	117.20
1	P	559	THR	CA-C-N	5.72	129.79	117.20
1	M	559	THR	CA-C-N	5.72	129.78	117.20
1	I	559	THR	CA-C-N	5.72	129.78	117.20
1	E	559	THR	CA-C-N	5.71	129.77	117.20
1	K	559	THR	CA-C-N	5.71	129.77	117.20
1	D	559	THR	CA-C-N	5.71	129.76	117.20
1	C	252	ALA	C-N-CA	-5.27	108.53	121.70
1	B	252	ALA	C-N-CA	-5.26	108.55	121.70
1	E	252	ALA	C-N-CA	-5.26	108.55	121.70
1	G	252	ALA	C-N-CA	-5.26	108.55	121.70
1	A	252	ALA	C-N-CA	-5.26	108.56	121.70
1	I	252	ALA	C-N-CA	-5.26	108.56	121.70
1	O	252	ALA	C-N-CA	-5.25	108.56	121.70
1	D	252	ALA	C-N-CA	-5.25	108.56	121.70
1	F	252	ALA	C-N-CA	-5.25	108.57	121.70
1	K	252	ALA	C-N-CA	-5.25	108.57	121.70
1	M	252	ALA	C-N-CA	-5.25	108.57	121.70
1	N	252	ALA	C-N-CA	-5.25	108.57	121.70
1	P	252	ALA	C-N-CA	-5.25	108.57	121.70
1	H	252	ALA	C-N-CA	-5.25	108.57	121.70
1	J	252	ALA	C-N-CA	-5.25	108.58	121.70
1	L	252	ALA	C-N-CA	-5.24	108.60	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	258	LEU	CA-CB-CG	-5.17	103.41	115.30
1	D	258	LEU	CA-CB-CG	-5.16	103.42	115.30
1	G	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	J	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	L	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	N	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	A	258	LEU	CA-CB-CG	-5.15	103.45	115.30
1	K	258	LEU	CA-CB-CG	-5.15	103.45	115.30
1	P	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	C	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	H	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	I	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	M	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	F	258	LEU	CA-CB-CG	-5.14	103.47	115.30
1	O	258	LEU	CA-CB-CG	-5.14	103.47	115.30
1	E	258	LEU	CA-CB-CG	-5.14	103.48	115.30
1	E	517	THR	N-CA-C	5.13	124.86	111.00
1	J	517	THR	N-CA-C	5.13	124.86	111.00
1	F	517	THR	N-CA-C	5.12	124.84	111.00
1	D	517	THR	N-CA-C	5.12	124.82	111.00
1	A	517	THR	N-CA-C	5.12	124.82	111.00
1	L	517	THR	N-CA-C	5.12	124.82	111.00
1	C	517	THR	N-CA-C	5.11	124.80	111.00
1	K	517	THR	N-CA-C	5.11	124.81	111.00
1	I	517	THR	N-CA-C	5.11	124.80	111.00
1	B	517	THR	N-CA-C	5.10	124.78	111.00
1	H	517	THR	N-CA-C	5.10	124.78	111.00
1	N	517	THR	N-CA-C	5.10	124.77	111.00
1	P	517	THR	N-CA-C	5.10	124.77	111.00
1	M	517	THR	N-CA-C	5.10	124.77	111.00
1	O	517	THR	N-CA-C	5.10	124.77	111.00
1	G	517	THR	N-CA-C	5.10	124.76	111.00
1	C	320	ASN	N-CA-C	-5.09	97.25	111.00
1	P	320	ASN	N-CA-C	-5.08	97.28	111.00
1	G	320	ASN	N-CA-C	-5.08	97.28	111.00
1	M	320	ASN	N-CA-C	-5.08	97.29	111.00
1	D	320	ASN	N-CA-C	-5.08	97.30	111.00
1	L	320	ASN	N-CA-C	-5.08	97.29	111.00
1	N	320	ASN	N-CA-C	-5.08	97.30	111.00
1	O	320	ASN	N-CA-C	-5.07	97.30	111.00
1	E	320	ASN	N-CA-C	-5.07	97.30	111.00
1	H	320	ASN	N-CA-C	-5.07	97.31	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	320	ASN	N-CA-C	-5.07	97.31	111.00
1	F	320	ASN	N-CA-C	-5.07	97.31	111.00
1	B	320	ASN	N-CA-C	-5.06	97.33	111.00
1	J	320	ASN	N-CA-C	-5.06	97.33	111.00
1	I	320	ASN	N-CA-C	-5.06	97.35	111.00
1	K	320	ASN	N-CA-C	-5.06	97.35	111.00
1	P	241	LEU	CA-CB-CG	5.00	126.81	115.30
1	H	241	LEU	CA-CB-CG	5.00	126.80	115.30

There are no chirality outliers.

All (240) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	115	ASN	Peptide
1	A	123	TYR	Peptide
1	A	126	SER	Peptide
1	A	143	PRO	Peptide
1	A	236	PRO	Peptide
1	A	251	APK	Mainchain
1	A	252	ALA	Mainchain
1	A	428	GLU	Mainchain
1	A	431	VAL	Peptide
1	A	488	ARG	Peptide
1	A	511	SER	Peptide
1	A	551	GLU	Peptide
1	A	552	ASN	Peptide
1	A	556	SER	Peptide
1	A	8	HIS	Peptide
1	B	115	ASN	Peptide
1	B	123	TYR	Peptide
1	B	126	SER	Peptide
1	B	143	PRO	Peptide
1	B	236	PRO	Peptide
1	B	251	APK	Mainchain
1	B	252	ALA	Mainchain
1	B	428	GLU	Mainchain
1	B	431	VAL	Peptide
1	B	488	ARG	Peptide
1	B	511	SER	Peptide
1	B	551	GLU	Peptide
1	B	552	ASN	Peptide
1	B	556	SER	Peptide

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Mol	Chain	Res	Type	Group
1	B	8	HIS	Peptide
1	C	115	ASN	Peptide
1	C	123	TYR	Peptide
1	C	126	SER	Peptide
1	C	143	PRO	Peptide
1	C	236	PRO	Peptide
1	C	251	APK	Mainchain
1	C	252	ALA	Mainchain
1	C	428	GLU	Mainchain
1	C	431	VAL	Peptide
1	C	488	ARG	Peptide
1	C	511	SER	Peptide
1	C	551	GLU	Peptide
1	C	552	ASN	Peptide
1	C	556	SER	Peptide
1	C	8	HIS	Peptide
1	D	115	ASN	Peptide
1	D	123	TYR	Peptide
1	D	126	SER	Peptide
1	D	143	PRO	Peptide
1	D	236	PRO	Peptide
1	D	251	APK	Mainchain
1	D	252	ALA	Mainchain
1	D	428	GLU	Mainchain
1	D	431	VAL	Peptide
1	D	488	ARG	Peptide
1	D	511	SER	Peptide
1	D	551	GLU	Peptide
1	D	552	ASN	Peptide
1	D	556	SER	Peptide
1	D	8	HIS	Peptide
1	E	115	ASN	Peptide
1	E	123	TYR	Peptide
1	E	126	SER	Peptide
1	E	143	PRO	Peptide
1	E	236	PRO	Peptide
1	E	251	APK	Mainchain
1	E	252	ALA	Mainchain
1	E	428	GLU	Mainchain
1	E	431	VAL	Peptide
1	E	488	ARG	Peptide
1	E	511	SER	Peptide

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Mol	Chain	Res	Type	Group
1	E	551	GLU	Peptide
1	E	552	ASN	Peptide
1	E	556	SER	Peptide
1	E	8	HIS	Peptide
1	F	115	ASN	Peptide
1	F	123	TYR	Peptide
1	F	126	SER	Peptide
1	F	143	PRO	Peptide
1	F	236	PRO	Peptide
1	F	251	APK	Mainchain
1	F	252	ALA	Mainchain
1	F	428	GLU	Mainchain
1	F	431	VAL	Peptide
1	F	488	ARG	Peptide
1	F	511	SER	Peptide
1	F	551	GLU	Peptide
1	F	552	ASN	Peptide
1	F	556	SER	Peptide
1	F	8	HIS	Peptide
1	G	115	ASN	Peptide
1	G	123	TYR	Peptide
1	G	126	SER	Peptide
1	G	143	PRO	Peptide
1	G	236	PRO	Peptide
1	G	251	APK	Mainchain
1	G	252	ALA	Mainchain
1	G	428	GLU	Mainchain
1	G	431	VAL	Peptide
1	G	488	ARG	Peptide
1	G	511	SER	Peptide
1	G	551	GLU	Peptide
1	G	552	ASN	Peptide
1	G	556	SER	Peptide
1	G	8	HIS	Peptide
1	H	115	ASN	Peptide
1	H	123	TYR	Peptide
1	H	126	SER	Peptide
1	H	143	PRO	Peptide
1	H	236	PRO	Peptide
1	H	251	APK	Mainchain
1	H	252	ALA	Mainchain
1	H	428	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	H	431	VAL	Peptide
1	H	488	ARG	Peptide
1	H	511	SER	Peptide
1	H	551	GLU	Peptide
1	H	552	ASN	Peptide
1	H	556	SER	Peptide
1	H	8	HIS	Peptide
1	I	115	ASN	Peptide
1	I	123	TYR	Peptide
1	I	126	SER	Peptide
1	I	143	PRO	Peptide
1	I	236	PRO	Peptide
1	I	251	APK	Mainchain
1	I	252	ALA	Mainchain
1	I	428	GLU	Mainchain
1	I	431	VAL	Peptide
1	I	488	ARG	Peptide
1	I	511	SER	Peptide
1	I	551	GLU	Peptide
1	I	552	ASN	Peptide
1	I	556	SER	Peptide
1	I	8	HIS	Peptide
1	J	115	ASN	Peptide
1	J	123	TYR	Peptide
1	J	126	SER	Peptide
1	J	143	PRO	Peptide
1	J	236	PRO	Peptide
1	J	251	APK	Mainchain
1	J	252	ALA	Mainchain
1	J	428	GLU	Mainchain
1	J	431	VAL	Peptide
1	J	488	ARG	Peptide
1	J	511	SER	Peptide
1	J	551	GLU	Peptide
1	J	552	ASN	Peptide
1	J	556	SER	Peptide
1	J	8	HIS	Peptide
1	K	115	ASN	Peptide
1	K	123	TYR	Peptide
1	K	126	SER	Peptide
1	K	143	PRO	Peptide
1	K	236	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	K	251	APK	Mainchain
1	K	252	ALA	Mainchain
1	K	428	GLU	Mainchain
1	K	431	VAL	Peptide
1	K	488	ARG	Peptide
1	K	511	SER	Peptide
1	K	551	GLU	Peptide
1	K	552	ASN	Peptide
1	K	556	SER	Peptide
1	K	8	HIS	Peptide
1	L	115	ASN	Peptide
1	L	123	TYR	Peptide
1	L	126	SER	Peptide
1	L	143	PRO	Peptide
1	L	236	PRO	Peptide
1	L	251	APK	Mainchain
1	L	252	ALA	Mainchain
1	L	428	GLU	Mainchain
1	L	431	VAL	Peptide
1	L	488	ARG	Peptide
1	L	511	SER	Peptide
1	L	551	GLU	Peptide
1	L	552	ASN	Peptide
1	L	556	SER	Peptide
1	L	8	HIS	Peptide
1	M	115	ASN	Peptide
1	M	123	TYR	Peptide
1	M	126	SER	Peptide
1	M	143	PRO	Peptide
1	M	236	PRO	Peptide
1	M	251	APK	Mainchain
1	M	252	ALA	Mainchain
1	M	428	GLU	Mainchain
1	M	431	VAL	Peptide
1	M	488	ARG	Peptide
1	M	511	SER	Peptide
1	M	551	GLU	Peptide
1	M	552	ASN	Peptide
1	M	556	SER	Peptide
1	M	8	HIS	Peptide
1	N	115	ASN	Peptide
1	N	123	TYR	Peptide

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Mol	Chain	Res	Type	Group
1	N	126	SER	Peptide
1	N	143	PRO	Peptide
1	N	236	PRO	Peptide
1	N	251	APK	Mainchain
1	N	252	ALA	Mainchain
1	N	428	GLU	Mainchain
1	N	431	VAL	Peptide
1	N	488	ARG	Peptide
1	N	511	SER	Peptide
1	N	551	GLU	Peptide
1	N	552	ASN	Peptide
1	N	556	SER	Peptide
1	N	8	HIS	Peptide
1	O	115	ASN	Peptide
1	O	123	TYR	Peptide
1	O	126	SER	Peptide
1	O	143	PRO	Peptide
1	O	236	PRO	Peptide
1	O	251	APK	Mainchain
1	O	252	ALA	Mainchain
1	O	428	GLU	Mainchain
1	O	431	VAL	Peptide
1	O	488	ARG	Peptide
1	O	511	SER	Peptide
1	O	551	GLU	Peptide
1	O	552	ASN	Peptide
1	O	556	SER	Peptide
1	O	8	HIS	Peptide
1	P	115	ASN	Peptide
1	P	123	TYR	Peptide
1	P	126	SER	Peptide
1	P	143	PRO	Peptide
1	P	236	PRO	Peptide
1	P	251	APK	Mainchain
1	P	252	ALA	Mainchain
1	P	428	GLU	Mainchain
1	P	431	VAL	Peptide
1	P	488	ARG	Peptide
1	P	511	SER	Peptide
1	P	551	GLU	Peptide
1	P	552	ASN	Peptide
1	P	556	SER	Peptide

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Mol	Chain	Res	Type	Group
1	P	8	HIS	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10045	0	10046	666	0
1	B	10045	0	10046	684	0
1	C	10045	0	10046	679	0
1	D	10045	0	10046	692	0
1	E	10045	0	10046	670	0
1	F	10045	0	10046	692	0
1	G	10045	0	10046	683	0
1	H	10045	0	10046	661	0
1	I	10045	0	10046	671	0
1	J	10045	0	10046	666	0
1	K	10045	0	10046	694	0
1	L	10045	0	10046	686	0
1	M	10045	0	10045	674	0
1	N	10045	0	10046	662	0
1	O	10045	0	10046	666	0
1	P	10045	0	10046	672	0
2	A	30	0	9	6	0
2	B	30	0	9	7	0
2	C	30	0	9	6	0
2	D	30	0	9	6	0
2	E	30	0	9	6	0
2	F	30	0	9	6	0
2	G	30	0	9	6	0
2	H	30	0	9	6	0
2	I	30	0	9	6	0
2	J	30	0	9	6	0
2	K	30	0	9	6	0
2	L	30	0	9	6	0
2	M	30	0	9	6	0
2	N	30	0	9	6	0
2	O	30	0	9	6	0
2	P	30	0	9	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	161200	0	160879	10606	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 33.

All (10606) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:875:LEU:HD11	1:I:911:PHE:CE2	1.25	1.72
1:E:875:LEU:HD11	1:E:911:PHE:CE2	1.25	1.72
1:J:875:LEU:HD11	1:J:911:PHE:CE2	1.25	1.71
1:F:875:LEU:HD11	1:F:911:PHE:CE2	1.25	1.71
1:C:875:LEU:HD11	1:C:911:PHE:CE2	1.25	1.71
1:D:875:LEU:HD11	1:D:911:PHE:CE2	1.25	1.70
1:K:875:LEU:HD11	1:K:911:PHE:CE2	1.25	1.70
1:L:875:LEU:HD11	1:L:911:PHE:CE2	1.25	1.69
1:B:875:LEU:HD11	1:B:911:PHE:CE2	1.25	1.67
1:C:875:LEU:CD1	1:C:911:PHE:CE2	1.77	1.67
1:P:875:LEU:HD11	1:P:911:PHE:CE2	1.25	1.67
1:G:875:LEU:HD11	1:G:911:PHE:CE2	1.25	1.67
1:M:875:LEU:HD11	1:M:911:PHE:CE2	1.25	1.67
1:H:875:LEU:CD1	1:H:911:PHE:CE2	1.77	1.66
1:B:875:LEU:CD1	1:B:911:PHE:CE2	1.77	1.66
1:O:875:LEU:CD1	1:O:911:PHE:CE2	1.77	1.66
1:N:875:LEU:CD1	1:N:911:PHE:CE2	1.77	1.66
1:M:875:LEU:CD1	1:M:911:PHE:CE2	1.77	1.66
1:I:518:LEU:HD22	1:I:643:TYR:CD1	1.32	1.65
1:F:518:LEU:HD22	1:F:643:TYR:CD1	1.32	1.65
1:L:875:LEU:CD1	1:L:911:PHE:CE2	1.77	1.65
1:J:518:LEU:HD22	1:J:643:TYR:CD1	1.32	1.64
1:G:518:LEU:HD22	1:G:643:TYR:CD1	1.32	1.63
1:P:518:LEU:HD22	1:P:643:TYR:CD1	1.32	1.63
1:E:518:LEU:HD22	1:E:643:TYR:CD1	1.32	1.63
1:O:875:LEU:HD11	1:O:911:PHE:CE2	1.25	1.63
1:H:875:LEU:HD11	1:H:911:PHE:CE2	1.25	1.62
1:B:518:LEU:HD22	1:B:643:TYR:CD1	1.32	1.61
1:D:875:LEU:CD1	1:D:911:PHE:CE2	1.77	1.61
1:A:875:LEU:CD1	1:A:911:PHE:CE2	1.77	1.61
1:M:518:LEU:HD22	1:M:643:TYR:CD1	1.32	1.61
1:K:518:LEU:HD22	1:K:643:TYR:CD1	1.32	1.60
1:K:875:LEU:CD1	1:K:911:PHE:CE2	1.77	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:875:LEU:HD11	1:F:911:PHE:CD2	1.36	1.60
1:G:875:LEU:HD11	1:G:911:PHE:CD2	1.36	1.60
1:D:518:LEU:HD22	1:D:643:TYR:CD1	1.32	1.60
1:L:518:LEU:HD22	1:L:643:TYR:CD1	1.32	1.60
1:P:875:LEU:HD11	1:P:911:PHE:CD2	1.36	1.60
1:C:518:LEU:HD22	1:C:643:TYR:CD1	1.32	1.59
1:I:875:LEU:HD11	1:I:911:PHE:CD2	1.36	1.59
1:E:875:LEU:HD11	1:E:911:PHE:CD2	1.36	1.59
1:H:875:LEU:HD11	1:H:911:PHE:CD2	1.36	1.59
1:N:518:LEU:HD22	1:N:643:TYR:CD1	1.32	1.59
1:O:875:LEU:HD11	1:O:911:PHE:CD2	1.36	1.59
1:J:875:LEU:HD11	1:J:911:PHE:CD2	1.36	1.59
1:O:875:LEU:CD1	1:O:911:PHE:HE2	1.08	1.59
1:A:518:LEU:HD22	1:A:643:TYR:CD1	1.32	1.58
1:H:875:LEU:CD1	1:H:911:PHE:HE2	1.08	1.58
1:N:875:LEU:HD11	1:N:911:PHE:CE2	1.25	1.58
1:G:875:LEU:CD1	1:G:911:PHE:HE2	1.08	1.58
1:P:875:LEU:CD1	1:P:911:PHE:HE2	1.08	1.58
1:H:518:LEU:HD22	1:H:643:TYR:CD1	1.32	1.58
1:A:875:LEU:HD11	1:A:911:PHE:CE2	1.25	1.58
1:D:875:LEU:HD11	1:D:911:PHE:CD2	1.36	1.57
1:O:518:LEU:HD22	1:O:643:TYR:CD1	1.32	1.57
1:E:875:LEU:CD1	1:E:911:PHE:CE2	1.77	1.57
1:F:875:LEU:CD1	1:F:911:PHE:CE2	1.77	1.57
1:K:875:LEU:HD11	1:K:911:PHE:CD2	1.36	1.57
1:N:875:LEU:HD11	1:N:911:PHE:CD2	1.36	1.57
1:A:875:LEU:HD11	1:A:911:PHE:CD2	1.36	1.57
1:J:875:LEU:CD1	1:J:911:PHE:CE2	1.77	1.56
1:G:875:LEU:CD1	1:G:911:PHE:CE2	1.77	1.56
1:P:875:LEU:CD1	1:P:911:PHE:CE2	1.77	1.56
1:B:875:LEU:HD11	1:B:911:PHE:CD2	1.36	1.55
1:M:875:LEU:HD11	1:M:911:PHE:CD2	1.36	1.55
1:N:875:LEU:CD1	1:N:911:PHE:HE2	1.08	1.55
1:F:875:LEU:CD1	1:F:911:PHE:HE2	1.08	1.55
1:I:875:LEU:CD1	1:I:911:PHE:CE2	1.77	1.55
1:A:875:LEU:CD1	1:A:911:PHE:HE2	1.08	1.54
1:I:875:LEU:CD1	1:I:911:PHE:HE2	1.08	1.54
1:L:875:LEU:HD11	1:L:911:PHE:CD2	1.36	1.54
1:C:875:LEU:HD11	1:C:911:PHE:CD2	1.36	1.53
1:K:875:LEU:CD1	1:K:911:PHE:HE2	1.08	1.51
1:E:875:LEU:CD1	1:E:911:PHE:HE2	1.08	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:875:LEU:CD1	1:D:911:PHE:HE2	1.08	1.50
1:J:875:LEU:CD1	1:J:911:PHE:HE2	1.08	1.50
1:M:875:LEU:CD1	1:M:911:PHE:HE2	1.08	1.50
1:C:875:LEU:CD1	1:C:911:PHE:HE2	1.08	1.50
1:B:875:LEU:CD1	1:B:911:PHE:HE2	1.08	1.49
1:L:875:LEU:CD1	1:L:911:PHE:HE2	1.08	1.49
1:B:313:PRO:CB	1:B:338:TRP:HZ2	1.39	1.36
1:C:313:PRO:CB	1:C:338:TRP:HZ2	1.39	1.36
1:J:313:PRO:CB	1:J:338:TRP:HZ2	1.39	1.36
1:L:313:PRO:CB	1:L:338:TRP:HZ2	1.39	1.36
1:M:313:PRO:CB	1:M:338:TRP:HZ2	1.39	1.36
1:D:313:PRO:CB	1:D:338:TRP:HZ2	1.39	1.36
1:E:313:PRO:CB	1:E:338:TRP:HZ2	1.39	1.36
1:K:313:PRO:CB	1:K:338:TRP:HZ2	1.39	1.36
1:F:313:PRO:CB	1:F:338:TRP:HZ2	1.39	1.36
1:I:313:PRO:CB	1:I:338:TRP:HZ2	1.39	1.36
1:A:313:PRO:CB	1:A:338:TRP:HZ2	1.39	1.35
1:G:313:PRO:CB	1:G:338:TRP:HZ2	1.39	1.35
1:N:313:PRO:CB	1:N:338:TRP:HZ2	1.39	1.35
1:P:313:PRO:CB	1:P:338:TRP:HZ2	1.39	1.35
1:H:313:PRO:CB	1:H:338:TRP:HZ2	1.39	1.35
1:O:313:PRO:CB	1:O:338:TRP:HZ2	1.39	1.35
1:B:633:THR:HG21	1:B:642:THR:O	1.20	1.35
1:F:389:ILE:HD13	1:F:446:HIS:NE2	1.42	1.35
1:I:389:ILE:HD13	1:I:446:HIS:NE2	1.42	1.35
1:M:633:THR:HG21	1:M:642:THR:O	1.20	1.35
1:N:518:LEU:CD2	1:N:643:TYR:HD1	1.40	1.34
1:P:518:LEU:CD2	1:P:643:TYR:HD1	1.40	1.34
1:A:518:LEU:CD2	1:A:643:TYR:HD1	1.40	1.34
1:G:518:LEU:CD2	1:G:643:TYR:HD1	1.40	1.34
1:B:518:LEU:CD2	1:B:643:TYR:HD1	1.40	1.34
1:G:633:THR:HG21	1:G:642:THR:O	1.20	1.34
1:H:389:ILE:HD13	1:H:446:HIS:NE2	1.42	1.34
1:M:518:LEU:CD2	1:M:643:TYR:HD1	1.40	1.34
1:H:518:LEU:CD2	1:H:643:TYR:HD1	1.40	1.34
1:L:389:ILE:HD13	1:L:446:HIS:NE2	1.42	1.34
1:O:389:ILE:HD13	1:O:446:HIS:NE2	1.42	1.34
1:P:633:THR:HG21	1:P:642:THR:O	1.20	1.34
1:F:248:GLN:OE1	1:F:268:PHE:CE2	1.81	1.33
1:I:248:GLN:OE1	1:I:268:PHE:CE2	1.81	1.33
1:J:389:ILE:HD13	1:J:446:HIS:NE2	1.42	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:LEU:CD2	1:O:643:TYR:HD1	1.40	1.33
1:G:248:GLN:OE1	1:G:268:PHE:CE2	1.81	1.33
1:P:248:GLN:OE1	1:P:268:PHE:CE2	1.81	1.33
1:B:248:GLN:OE1	1:B:268:PHE:CE2	1.81	1.33
1:C:248:GLN:OE1	1:C:268:PHE:CE2	1.81	1.33
1:D:389:ILE:HD13	1:D:446:HIS:NE2	1.42	1.33
1:E:389:ILE:HD13	1:E:446:HIS:NE2	1.42	1.33
1:M:248:GLN:OE1	1:M:268:PHE:CE2	1.81	1.33
1:C:389:ILE:HD13	1:C:446:HIS:NE2	1.42	1.33
1:O:633:THR:HG21	1:O:642:THR:O	1.20	1.33
1:D:518:LEU:CD2	1:D:643:TYR:HD1	1.40	1.33
1:K:389:ILE:HD13	1:K:446:HIS:NE2	1.42	1.33
1:K:518:LEU:CD2	1:K:643:TYR:HD1	1.40	1.33
1:L:248:GLN:OE1	1:L:268:PHE:CE2	1.81	1.32
1:E:518:LEU:CD2	1:E:643:TYR:HD1	1.40	1.32
1:J:518:LEU:CD2	1:J:643:TYR:HD1	1.40	1.32
1:O:248:GLN:OE1	1:O:268:PHE:HE2	1.06	1.32
1:B:389:ILE:HD13	1:B:446:HIS:NE2	1.42	1.32
1:C:518:LEU:CD2	1:C:643:TYR:HD1	1.40	1.32
1:H:633:THR:HG21	1:H:642:THR:O	1.20	1.32
1:L:518:LEU:CD2	1:L:643:TYR:HD1	1.40	1.32
1:B:462:TYR:CE2	1:B:494:PHE:HE1	1.47	1.32
1:M:389:ILE:HD13	1:M:446:HIS:NE2	1.42	1.32
1:M:462:TYR:CE2	1:M:494:PHE:HE1	1.47	1.32
1:N:462:TYR:CE2	1:N:494:PHE:HE1	1.47	1.32
1:A:462:TYR:CE2	1:A:494:PHE:HE1	1.47	1.32
1:E:248:GLN:OE1	1:E:268:PHE:CE2	1.81	1.32
1:H:248:GLN:OE1	1:H:268:PHE:HE2	1.06	1.32
1:C:462:TYR:CE2	1:C:494:PHE:HE1	1.47	1.31
1:J:248:GLN:OE1	1:J:268:PHE:CE2	1.81	1.31
1:N:248:GLN:OE1	1:N:268:PHE:HE2	1.06	1.31
1:A:248:GLN:OE1	1:A:268:PHE:CE2	1.81	1.31
1:I:518:LEU:CD2	1:I:643:TYR:HD1	1.40	1.31
1:O:248:GLN:OE1	1:O:268:PHE:CE2	1.81	1.31
1:H:248:GLN:OE1	1:H:268:PHE:CE2	1.81	1.31
1:N:248:GLN:OE1	1:N:268:PHE:CE2	1.81	1.31
1:O:462:TYR:CE2	1:O:494:PHE:HE1	1.47	1.31
1:P:248:GLN:OE1	1:P:268:PHE:HE2	1.06	1.31
1:D:462:TYR:CE2	1:D:494:PHE:HE1	1.47	1.31
1:F:518:LEU:CD2	1:F:643:TYR:HD1	1.40	1.31
1:H:462:TYR:CE2	1:H:494:PHE:HE1	1.47	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:462:TYR:CE2	1:K:494:PHE:HE1	1.47	1.31
1:L:462:TYR:CE2	1:L:494:PHE:HE1	1.47	1.31
1:A:248:GLN:OE1	1:A:268:PHE:HE2	1.06	1.31
1:G:389:ILE:HD13	1:G:446:HIS:NE2	1.42	1.31
1:G:248:GLN:OE1	1:G:268:PHE:HE2	1.06	1.30
1:I:462:TYR:CE2	1:I:494:PHE:HE1	1.47	1.30
1:G:462:TYR:CE2	1:G:494:PHE:HE1	1.47	1.30
1:K:248:GLN:OE1	1:K:268:PHE:CE2	1.81	1.30
1:P:389:ILE:HD13	1:P:446:HIS:NE2	1.42	1.30
1:P:462:TYR:CE2	1:P:494:PHE:HE1	1.47	1.30
1:A:633:THR:HG21	1:A:642:THR:O	1.20	1.30
1:D:248:GLN:OE1	1:D:268:PHE:CE2	1.81	1.30
1:E:462:TYR:CE2	1:E:494:PHE:HE1	1.47	1.30
1:N:389:ILE:HD13	1:N:446:HIS:NE2	1.42	1.30
1:F:462:TYR:CE2	1:F:494:PHE:HE1	1.47	1.30
1:I:248:GLN:OE1	1:I:268:PHE:HE2	1.06	1.30
1:J:462:TYR:CE2	1:J:494:PHE:HE1	1.47	1.30
1:A:389:ILE:HD13	1:A:446:HIS:NE2	1.42	1.30
1:M:248:GLN:OE1	1:M:268:PHE:HE2	1.06	1.30
1:J:248:GLN:OE1	1:J:268:PHE:HE2	1.06	1.29
1:N:633:THR:HG21	1:N:642:THR:O	1.20	1.29
1:B:248:GLN:OE1	1:B:268:PHE:HE2	1.06	1.29
1:L:248:GLN:OE1	1:L:268:PHE:HE2	1.06	1.29
1:F:248:GLN:OE1	1:F:268:PHE:HE2	1.06	1.29
1:K:248:GLN:OE1	1:K:268:PHE:HE2	1.06	1.29
1:E:248:GLN:OE1	1:E:268:PHE:HE2	1.06	1.28
1:C:248:GLN:OE1	1:C:268:PHE:HE2	1.06	1.28
1:D:248:GLN:OE1	1:D:268:PHE:HE2	1.06	1.28
1:D:633:THR:HG21	1:D:642:THR:O	1.20	1.28
1:K:633:THR:HG21	1:K:642:THR:O	1.20	1.27
1:D:313:PRO:CA	1:D:338:TRP:HZ2	1.48	1.27
1:E:633:THR:HG21	1:E:642:THR:O	1.20	1.27
1:F:633:THR:HG21	1:F:642:THR:O	1.20	1.27
1:I:633:THR:HG21	1:I:642:THR:O	1.20	1.27
1:K:313:PRO:CA	1:K:338:TRP:HZ2	1.48	1.27
1:J:313:PRO:CA	1:J:338:TRP:HZ2	1.48	1.27
1:J:633:THR:HG21	1:J:642:THR:O	1.20	1.27
1:O:313:PRO:CA	1:O:338:TRP:HZ2	1.48	1.27
1:C:633:THR:HG21	1:C:642:THR:O	1.20	1.26
1:E:313:PRO:CA	1:E:338:TRP:HZ2	1.48	1.26
1:H:313:PRO:CA	1:H:338:TRP:HZ2	1.48	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:313:PRO:CA	1:N:338:TRP:HZ2	1.48	1.26
1:A:313:PRO:CA	1:A:338:TRP:HZ2	1.48	1.26
1:C:313:PRO:CA	1:C:338:TRP:HZ2	1.48	1.26
1:I:313:PRO:CA	1:I:338:TRP:HZ2	1.48	1.26
1:L:313:PRO:CA	1:L:338:TRP:HZ2	1.48	1.26
1:F:313:PRO:CA	1:F:338:TRP:HZ2	1.48	1.26
1:G:313:PRO:CA	1:G:338:TRP:HZ2	1.48	1.26
1:P:313:PRO:CA	1:P:338:TRP:HZ2	1.48	1.26
1:L:633:THR:HG21	1:L:642:THR:O	1.20	1.25
1:M:313:PRO:CA	1:M:338:TRP:HZ2	1.48	1.25
1:B:313:PRO:CA	1:B:338:TRP:HZ2	1.48	1.25
1:B:121:ALA:HB1	1:C:276:SER:CB	1.67	1.23
1:L:212:ASP:OD2	1:M:209:SER:OG	1.57	1.23
1:B:508:TRP:CA	1:B:606:GLY:HA3	1.70	1.22
1:L:508:TRP:CA	1:L:606:GLY:HA3	1.70	1.22
1:M:508:TRP:CA	1:M:606:GLY:HA3	1.70	1.22
1:C:508:TRP:CA	1:C:606:GLY:HA3	1.70	1.22
1:E:508:TRP:CA	1:E:606:GLY:HA3	1.70	1.22
1:I:508:TRP:CA	1:I:606:GLY:HA3	1.70	1.22
1:J:508:TRP:CA	1:J:606:GLY:HA3	1.70	1.22
1:A:508:TRP:CA	1:A:606:GLY:HA3	1.70	1.21
1:D:508:TRP:CA	1:D:606:GLY:HA3	1.70	1.21
1:K:508:TRP:CA	1:K:606:GLY:HA3	1.70	1.21
1:N:508:TRP:CA	1:N:606:GLY:HA3	1.70	1.21
1:F:508:TRP:CA	1:F:606:GLY:HA3	1.70	1.21
1:P:508:TRP:CA	1:P:606:GLY:HA3	1.70	1.21
1:B:313:PRO:HA	1:B:338:TRP:CZ2	1.77	1.20
1:G:508:TRP:CA	1:G:606:GLY:HA3	1.70	1.20
1:M:313:PRO:HA	1:M:338:TRP:CZ2	1.77	1.20
1:A:313:PRO:HA	1:A:338:TRP:CZ2	1.77	1.20
1:C:313:PRO:HA	1:C:338:TRP:CZ2	1.77	1.20
1:D:251:APK:O	1:D:253:TRP:N	1.75	1.20
1:H:508:TRP:CA	1:H:606:GLY:HA3	1.70	1.20
1:K:251:APK:O	1:K:253:TRP:N	1.75	1.20
1:L:313:PRO:HA	1:L:338:TRP:CZ2	1.77	1.20
1:N:313:PRO:HA	1:N:338:TRP:CZ2	1.77	1.20
1:O:508:TRP:CA	1:O:606:GLY:HA3	1.70	1.20
1:D:313:PRO:HA	1:D:338:TRP:CZ2	1.77	1.20
1:I:313:PRO:CA	1:I:338:TRP:CZ2	2.25	1.20
1:L:276:SER:HB3	1:M:121:ALA:HB1	1.20	1.20
1:F:313:PRO:CA	1:F:338:TRP:CZ2	2.25	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:PRO:CA	1:H:338:TRP:CZ2	2.25	1.19
1:I:313:PRO:HA	1:I:338:TRP:CZ2	1.77	1.19
1:N:251:APK:O	1:N:253:TRP:N	1.75	1.19
1:A:251:APK:O	1:A:253:TRP:N	1.75	1.19
1:F:251:APK:O	1:F:253:TRP:N	1.75	1.19
1:F:313:PRO:HA	1:F:338:TRP:CZ2	1.77	1.19
1:J:313:PRO:CB	1:J:338:TRP:CZ2	2.26	1.19
1:K:313:PRO:HA	1:K:338:TRP:CZ2	1.77	1.19
1:O:313:PRO:CA	1:O:338:TRP:CZ2	2.25	1.19
1:C:313:PRO:CB	1:C:338:TRP:CZ2	2.26	1.19
1:E:313:PRO:CB	1:E:338:TRP:CZ2	2.26	1.19
1:G:251:APK:O	1:G:253:TRP:N	1.75	1.19
1:L:313:PRO:CB	1:L:338:TRP:CZ2	2.26	1.19
1:A:313:PRO:CB	1:A:338:TRP:CZ2	2.26	1.19
1:G:313:PRO:HA	1:G:338:TRP:CZ2	1.77	1.19
1:H:251:APK:O	1:H:253:TRP:N	1.75	1.19
1:J:251:APK:O	1:J:253:TRP:N	1.75	1.19
1:N:313:PRO:CB	1:N:338:TRP:CZ2	2.26	1.19
1:O:313:PRO:HA	1:O:338:TRP:CZ2	1.77	1.19
1:P:251:APK:O	1:P:253:TRP:N	1.75	1.19
1:P:313:PRO:CB	1:P:338:TRP:CZ2	2.26	1.19
1:E:251:APK:O	1:E:253:TRP:N	1.75	1.19
1:E:313:PRO:CA	1:E:338:TRP:CZ2	2.25	1.19
1:F:313:PRO:CB	1:F:338:TRP:CZ2	2.26	1.19
1:G:313:PRO:CB	1:G:338:TRP:CZ2	2.26	1.19
1:I:251:APK:O	1:I:253:TRP:N	1.75	1.19
1:J:313:PRO:HA	1:J:338:TRP:CZ2	1.77	1.19
1:O:251:APK:O	1:O:253:TRP:N	1.75	1.19
1:P:313:PRO:HA	1:P:338:TRP:CZ2	1.77	1.19
1:C:251:APK:O	1:C:253:TRP:N	1.75	1.18
1:H:313:PRO:HA	1:H:338:TRP:CZ2	1.77	1.18
1:J:313:PRO:CA	1:J:338:TRP:CZ2	2.25	1.18
1:M:313:PRO:CB	1:M:338:TRP:CZ2	2.26	1.18
1:N:313:PRO:CA	1:N:338:TRP:CZ2	2.25	1.18
1:A:313:PRO:CA	1:A:338:TRP:CZ2	2.25	1.18
1:B:313:PRO:CB	1:B:338:TRP:CZ2	2.26	1.18
1:E:313:PRO:HA	1:E:338:TRP:CZ2	1.77	1.18
1:I:313:PRO:CB	1:I:338:TRP:CZ2	2.26	1.18
1:B:251:APK:O	1:B:253:TRP:N	1.75	1.17
1:C:313:PRO:CA	1:C:338:TRP:CZ2	2.25	1.17
1:D:313:PRO:CB	1:D:338:TRP:CZ2	2.26	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:313:PRO:CA	1:D:338:TRP:CZ2	2.25	1.17
1:G:313:PRO:CA	1:G:338:TRP:CZ2	2.25	1.17
1:K:313:PRO:CB	1:K:338:TRP:CZ2	2.26	1.17
1:K:313:PRO:CA	1:K:338:TRP:CZ2	2.25	1.17
1:L:251:APK:O	1:L:253:TRP:N	1.75	1.17
1:M:251:APK:O	1:M:253:TRP:N	1.75	1.17
1:B:313:PRO:CA	1:B:338:TRP:CZ2	2.25	1.17
1:L:313:PRO:CA	1:L:338:TRP:CZ2	2.25	1.17
1:M:313:PRO:CA	1:M:338:TRP:CZ2	2.25	1.17
1:P:313:PRO:CA	1:P:338:TRP:CZ2	2.25	1.17
1:C:209:SER:OG	1:D:212:ASP:OD2	1.62	1.17
1:G:508:TRP:HA	1:G:606:GLY:CA	1.75	1.17
1:P:508:TRP:HA	1:P:606:GLY:CA	1.75	1.17
1:H:313:PRO:CB	1:H:338:TRP:CZ2	2.26	1.17
1:N:389:ILE:HD13	1:N:446:HIS:CE1	1.80	1.17
1:O:313:PRO:CB	1:O:338:TRP:CZ2	2.26	1.17
1:A:389:ILE:HD13	1:A:446:HIS:CE1	1.80	1.16
1:E:389:ILE:HD13	1:E:446:HIS:CE1	1.80	1.16
1:F:508:TRP:HA	1:F:606:GLY:CA	1.75	1.16
1:G:442:SER:O	1:G:446:HIS:CD2	1.98	1.16
1:H:442:SER:O	1:H:446:HIS:CD2	1.98	1.16
1:I:508:TRP:HA	1:I:606:GLY:CA	1.75	1.16
1:J:389:ILE:HD13	1:J:446:HIS:CE1	1.80	1.16
1:O:442:SER:O	1:O:446:HIS:CD2	1.98	1.16
1:P:442:SER:O	1:P:446:HIS:CD2	1.98	1.16
1:F:389:ILE:HD13	1:F:446:HIS:CE1	1.80	1.16
1:O:508:TRP:HA	1:O:606:GLY:CA	1.75	1.16
1:H:508:TRP:HA	1:H:606:GLY:CA	1.75	1.16
1:O:389:ILE:HD13	1:O:446:HIS:CE1	1.80	1.16
1:A:442:SER:O	1:A:446:HIS:CD2	1.98	1.16
1:B:442:SER:O	1:B:446:HIS:CD2	1.98	1.16
1:E:209:SER:OG	1:F:212:ASP:OD2	1.63	1.16
1:E:508:TRP:HA	1:E:606:GLY:CA	1.75	1.16
1:H:389:ILE:HD13	1:H:446:HIS:CE1	1.80	1.16
1:K:389:ILE:HD13	1:K:446:HIS:CE1	1.80	1.16
1:M:442:SER:O	1:M:446:HIS:CD2	1.98	1.16
1:B:389:ILE:HD13	1:B:446:HIS:CE1	1.80	1.16
1:D:389:ILE:HD13	1:D:446:HIS:CE1	1.80	1.16
1:I:389:ILE:HD13	1:I:446:HIS:CE1	1.80	1.16
1:J:508:TRP:HA	1:J:606:GLY:CA	1.75	1.16
1:M:389:ILE:HD13	1:M:446:HIS:CE1	1.80	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:442:SER:O	1:N:446:HIS:CD2	1.98	1.16
1:O:276:SER:HB3	1:P:121:ALA:HB1	1.24	1.16
1:B:508:TRP:HA	1:B:606:GLY:CA	1.75	1.15
1:C:442:SER:O	1:C:446:HIS:CD2	1.98	1.15
1:C:508:TRP:HA	1:C:606:GLY:CA	1.75	1.15
1:D:508:TRP:HA	1:D:606:GLY:CA	1.75	1.15
1:K:276:SER:HB3	1:L:121:ALA:HB1	1.23	1.15
1:F:442:SER:O	1:F:446:HIS:CD2	1.98	1.15
1:I:442:SER:O	1:I:446:HIS:CD2	1.98	1.15
1:K:508:TRP:HA	1:K:606:GLY:CA	1.75	1.15
1:L:508:TRP:HA	1:L:606:GLY:CA	1.75	1.15
1:M:508:TRP:HA	1:M:606:GLY:CA	1.75	1.15
1:K:442:SER:O	1:K:446:HIS:CD2	1.98	1.15
1:L:442:SER:O	1:L:446:HIS:CD2	1.98	1.15
1:D:442:SER:O	1:D:446:HIS:CD2	1.98	1.15
1:G:389:ILE:HD13	1:G:446:HIS:CE1	1.80	1.15
1:N:508:TRP:HA	1:N:606:GLY:CA	1.75	1.15
1:P:389:ILE:HD13	1:P:446:HIS:CE1	1.80	1.15
1:A:508:TRP:HA	1:A:606:GLY:CA	1.75	1.15
1:A:276:SER:HB3	1:H:121:ALA:HB1	1.21	1.14
1:E:442:SER:O	1:E:446:HIS:CD2	1.98	1.14
1:G:121:ALA:HB1	1:H:276:SER:HB3	1.21	1.14
1:J:442:SER:O	1:J:446:HIS:CD2	1.98	1.14
1:L:389:ILE:HD13	1:L:446:HIS:CE1	1.80	1.14
1:F:633:THR:CG2	1:F:642:THR:O	1.96	1.14
1:G:633:THR:CG2	1:G:642:THR:O	1.96	1.14
1:M:276:SER:HB3	1:N:121:ALA:HB1	1.21	1.14
1:P:633:THR:CG2	1:P:642:THR:O	1.96	1.14
1:I:633:THR:CG2	1:I:642:THR:O	1.96	1.14
1:C:389:ILE:HD13	1:C:446:HIS:CE1	1.80	1.13
1:N:276:SER:HB3	1:O:121:ALA:HB1	1.19	1.13
1:A:633:THR:CG2	1:A:642:THR:O	1.96	1.13
1:N:633:THR:CG2	1:N:642:THR:O	1.96	1.13
1:D:121:ALA:HB1	1:E:276:SER:HB3	1.14	1.12
1:F:622:LEU:HB2	1:F:634:ASP:HB2	1.31	1.12
1:I:622:LEU:HB2	1:I:634:ASP:HB2	1.31	1.12
1:N:622:LEU:HB2	1:N:634:ASP:HB2	1.31	1.13
1:H:622:LEU:HB2	1:H:634:ASP:HB2	1.31	1.12
1:A:622:LEU:HB2	1:A:634:ASP:HB2	1.31	1.12
1:E:622:LEU:HB2	1:E:634:ASP:HB2	1.31	1.12
1:O:622:LEU:HB2	1:O:634:ASP:HB2	1.31	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:633:THR:CG2	1:H:642:THR:O	1.96	1.12
1:J:622:LEU:HB2	1:J:634:ASP:HB2	1.31	1.12
1:P:622:LEU:HB2	1:P:634:ASP:HB2	1.31	1.12
1:A:378:SER:H	1:A:422:ILE:CD1	1.63	1.12
1:B:633:THR:CG2	1:B:642:THR:O	1.96	1.12
1:E:504:ASP:OD1	1:E:608:ASN:ND2	1.83	1.12
1:G:622:LEU:HB2	1:G:634:ASP:HB2	1.31	1.12
1:J:504:ASP:OD1	1:J:608:ASN:ND2	1.83	1.12
1:K:633:THR:CG2	1:K:642:THR:O	1.96	1.12
1:O:633:THR:CG2	1:O:642:THR:O	1.96	1.12
1:D:633:THR:CG2	1:D:642:THR:O	1.96	1.12
1:H:378:SER:H	1:H:422:ILE:CD1	1.63	1.12
1:J:633:THR:CG2	1:J:642:THR:O	1.96	1.12
1:M:633:THR:CG2	1:M:642:THR:O	1.96	1.12
1:N:378:SER:H	1:N:422:ILE:CD1	1.63	1.12
1:O:378:SER:H	1:O:422:ILE:CD1	1.63	1.12
1:B:378:SER:H	1:B:422:ILE:CD1	1.63	1.11
1:E:633:THR:CG2	1:E:642:THR:O	1.96	1.11
1:G:378:SER:H	1:G:422:ILE:CD1	1.63	1.11
1:N:504:ASP:OD1	1:N:608:ASN:ND2	1.83	1.11
1:O:504:ASP:OD1	1:O:608:ASN:ND2	1.83	1.11
1:A:504:ASP:OD1	1:A:608:ASN:ND2	1.83	1.11
1:C:633:THR:CG2	1:C:642:THR:O	1.96	1.11
1:D:504:ASP:OD1	1:D:608:ASN:ND2	1.83	1.11
1:E:462:TYR:CE2	1:E:494:PHE:CE1	2.39	1.11
1:F:462:TYR:CE2	1:F:494:PHE:CE1	2.39	1.11
1:F:504:ASP:OD1	1:F:608:ASN:ND2	1.83	1.11
1:H:504:ASP:OD1	1:H:608:ASN:ND2	1.83	1.11
1:I:462:TYR:CE2	1:I:494:PHE:CE1	2.39	1.11
1:J:462:TYR:CE2	1:J:494:PHE:CE1	2.39	1.11
1:K:504:ASP:OD1	1:K:608:ASN:ND2	1.83	1.11
1:M:378:SER:H	1:M:422:ILE:CD1	1.63	1.11
1:P:378:SER:H	1:P:422:ILE:CD1	1.63	1.11
1:I:504:ASP:OD1	1:I:608:ASN:ND2	1.83	1.11
1:L:633:THR:CG2	1:L:642:THR:O	1.96	1.11
1:I:276:SER:HB3	1:J:121:ALA:HB1	1.21	1.11
1:L:504:ASP:OD1	1:L:608:ASN:ND2	1.83	1.11
1:B:504:ASP:OD1	1:B:608:ASN:ND2	1.83	1.11
1:C:378:SER:H	1:C:422:ILE:CD1	1.63	1.11
1:F:378:SER:H	1:F:422:ILE:CD1	1.63	1.11
1:I:314:ARG:O	1:I:315:GLU:HG3	1.51	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:622:LEU:HB2	1:L:634:ASP:HB2	1.31	1.11
1:M:504:ASP:OD1	1:M:608:ASN:ND2	1.83	1.11
1:E:314:ARG:O	1:E:315:GLU:HG3	1.51	1.10
1:F:314:ARG:O	1:F:315:GLU:HG3	1.51	1.10
1:H:314:ARG:O	1:H:315:GLU:HG3	1.51	1.10
1:I:378:SER:H	1:I:422:ILE:CD1	1.63	1.10
1:J:314:ARG:O	1:J:315:GLU:HG3	1.51	1.10
1:K:378:SER:H	1:K:422:ILE:CD1	1.63	1.10
1:L:378:SER:H	1:L:422:ILE:CD1	1.63	1.10
1:L:462:TYR:CE2	1:L:494:PHE:CE1	2.39	1.10
1:C:504:ASP:OD1	1:C:608:ASN:ND2	1.83	1.10
1:D:378:SER:H	1:D:422:ILE:CD1	1.63	1.10
1:E:378:SER:H	1:E:422:ILE:CD1	1.63	1.10
1:J:378:SER:H	1:J:422:ILE:CD1	1.63	1.10
1:O:314:ARG:O	1:O:315:GLU:HG3	1.51	1.10
1:C:462:TYR:CE2	1:C:494:PHE:CE1	2.39	1.10
1:M:622:LEU:HB2	1:M:634:ASP:HB2	1.31	1.10
1:C:622:LEU:HB2	1:C:634:ASP:HB2	1.31	1.10
1:K:462:TYR:CE2	1:K:494:PHE:CE1	2.39	1.10
1:K:622:LEU:HB2	1:K:634:ASP:HB2	1.31	1.10
1:P:504:ASP:OD1	1:P:608:ASN:ND2	1.83	1.10
1:D:462:TYR:CE2	1:D:494:PHE:CE1	2.39	1.10
1:D:622:LEU:HB2	1:D:634:ASP:HB2	1.31	1.10
1:G:462:TYR:CE2	1:G:494:PHE:CE1	2.39	1.10
1:A:462:TYR:CE2	1:A:494:PHE:CE1	2.39	1.09
1:B:462:TYR:CE2	1:B:494:PHE:CE1	2.38	1.09
1:B:622:LEU:HB2	1:B:634:ASP:HB2	1.31	1.09
1:F:14:ASP:OD2	1:G:142:ARG:NH1	1.83	1.09
1:G:314:ARG:O	1:G:315:GLU:HG3	1.51	1.09
1:G:504:ASP:OD1	1:G:608:ASN:ND2	1.83	1.09
1:H:462:TYR:CE2	1:H:494:PHE:CE1	2.39	1.09
1:K:314:ARG:O	1:K:315:GLU:HG3	1.51	1.09
1:M:462:TYR:CE2	1:M:494:PHE:CE1	2.39	1.09
1:N:462:TYR:CE2	1:N:494:PHE:CE1	2.38	1.09
1:O:462:TYR:CE2	1:O:494:PHE:CE1	2.39	1.09
1:P:314:ARG:O	1:P:315:GLU:HG3	1.51	1.09
1:P:462:TYR:CE2	1:P:494:PHE:CE1	2.38	1.09
1:C:462:TYR:CZ	1:C:494:PHE:CE1	2.41	1.09
1:D:314:ARG:O	1:D:315:GLU:HG3	1.51	1.09
1:O:462:TYR:CZ	1:O:494:PHE:CE1	2.41	1.09
1:D:462:TYR:CZ	1:D:494:PHE:CE1	2.41	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:462:TYR:CZ	1:G:494:PHE:CE1	2.41	1.09
1:H:462:TYR:CZ	1:H:494:PHE:CE1	2.41	1.09
1:L:462:TYR:CZ	1:L:494:PHE:CE1	2.41	1.09
1:P:462:TYR:CZ	1:P:494:PHE:CE1	2.41	1.09
1:K:462:TYR:CZ	1:K:494:PHE:CE1	2.41	1.09
1:O:378:SER:N	1:O:422:ILE:CD1	2.16	1.09
1:A:314:ARG:O	1:A:315:GLU:HG3	1.51	1.09
1:B:378:SER:N	1:B:422:ILE:CD1	2.16	1.09
1:H:378:SER:N	1:H:422:ILE:CD1	2.16	1.09
1:M:378:SER:N	1:M:422:ILE:CD1	2.16	1.09
1:E:121:ALA:HB1	1:F:276:SER:HB3	1.09	1.08
1:I:121:ALA:HB1	1:P:276:SER:HB3	1.27	1.08
1:N:314:ARG:O	1:N:315:GLU:HG3	1.51	1.08
1:B:462:TYR:CZ	1:B:494:PHE:CE1	2.41	1.08
1:N:462:TYR:CZ	1:N:494:PHE:CE1	2.41	1.08
1:A:378:SER:N	1:A:422:ILE:CD1	2.16	1.08
1:A:462:TYR:CZ	1:A:494:PHE:CE1	2.41	1.08
1:F:462:TYR:CZ	1:F:494:PHE:CE1	2.41	1.08
1:G:313:PRO:HB3	1:G:338:TRP:CZ2	1.88	1.08
1:M:462:TYR:CZ	1:M:494:PHE:CE1	2.41	1.08
1:P:313:PRO:HB3	1:P:338:TRP:CZ2	1.88	1.08
1:C:378:SER:N	1:C:422:ILE:CD1	2.16	1.08
1:J:276:SER:HB3	1:K:121:ALA:HB1	1.14	1.08
1:N:378:SER:N	1:N:422:ILE:CD1	2.16	1.08
1:A:313:PRO:HB3	1:A:338:TRP:CZ2	1.88	1.08
1:E:378:SER:N	1:E:422:ILE:CD1	2.16	1.08
1:J:378:SER:N	1:J:422:ILE:CD1	2.16	1.08
1:J:462:TYR:CZ	1:J:494:PHE:CE1	2.41	1.08
1:L:875:LEU:HD13	1:L:911:PHE:CE2	1.64	1.08
1:N:313:PRO:HB3	1:N:338:TRP:CZ2	1.88	1.08
1:A:121:ALA:HB1	1:B:276:SER:HB3	1.34	1.07
1:E:462:TYR:CZ	1:E:494:PHE:CE1	2.41	1.07
1:G:378:SER:N	1:G:422:ILE:CD1	2.16	1.07
1:I:462:TYR:CZ	1:I:494:PHE:CE1	2.41	1.07
1:L:378:SER:N	1:L:422:ILE:CD1	2.16	1.07
1:F:378:SER:N	1:F:422:ILE:CD1	2.16	1.07
1:L:314:ARG:O	1:L:315:GLU:HG3	1.51	1.07
1:P:378:SER:N	1:P:422:ILE:CD1	2.16	1.07
1:I:378:SER:N	1:I:422:ILE:CD1	2.16	1.07
1:B:314:ARG:O	1:B:315:GLU:HG3	1.51	1.07
1:H:313:PRO:HB3	1:H:338:TRP:CZ2	1.88	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:313:PRO:HB3	1:O:338:TRP:CZ2	1.88	1.07
1:D:378:SER:N	1:D:422:ILE:CD1	2.16	1.07
1:K:378:SER:N	1:K:422:ILE:CD1	2.16	1.07
1:M:314:ARG:O	1:M:315:GLU:HG3	1.51	1.07
1:C:314:ARG:O	1:C:315:GLU:HG3	1.51	1.06
1:I:373:SER:CB	1:I:433:LEU:HD12	1.85	1.06
1:F:373:SER:CB	1:F:433:LEU:HD12	1.85	1.06
1:K:313:PRO:HB3	1:K:338:TRP:CZ2	1.88	1.06
1:B:373:SER:CB	1:B:433:LEU:HD12	1.85	1.06
1:C:313:PRO:HA	1:C:338:TRP:CH2	1.90	1.06
1:D:313:PRO:HB3	1:D:338:TRP:CZ2	1.88	1.06
1:E:875:LEU:HD13	1:E:911:PHE:CE2	1.64	1.06
1:F:313:PRO:HB3	1:F:338:TRP:CZ2	1.88	1.06
1:G:373:SER:CB	1:G:433:LEU:HD12	1.85	1.06
1:H:313:PRO:HA	1:H:338:TRP:CH2	1.90	1.06
1:J:313:PRO:HB3	1:J:338:TRP:CZ2	1.88	1.06
1:M:373:SER:CB	1:M:433:LEU:HD12	1.85	1.06
1:O:313:PRO:HA	1:O:338:TRP:CH2	1.90	1.06
1:A:373:SER:CB	1:A:433:LEU:HD12	1.85	1.06
1:C:313:PRO:HB3	1:C:338:TRP:CZ2	1.88	1.06
1:G:313:PRO:HA	1:G:338:TRP:CH2	1.90	1.06
1:L:313:PRO:HA	1:L:338:TRP:CH2	1.90	1.06
1:P:313:PRO:HA	1:P:338:TRP:CH2	1.90	1.06
1:P:373:SER:CB	1:P:433:LEU:HD12	1.85	1.06
1:C:373:SER:CB	1:C:433:LEU:HD12	1.85	1.05
1:E:313:PRO:HB3	1:E:338:TRP:CZ2	1.88	1.05
1:L:313:PRO:HB3	1:L:338:TRP:CZ2	1.88	1.05
1:N:373:SER:CB	1:N:433:LEU:HD12	1.85	1.05
1:A:313:PRO:HA	1:A:338:TRP:CH2	1.90	1.05
1:E:373:SER:CB	1:E:433:LEU:HD12	1.85	1.05
1:I:313:PRO:HA	1:I:338:TRP:CH2	1.90	1.05
1:I:313:PRO:HB3	1:I:338:TRP:CZ2	1.88	1.05
1:J:373:SER:CB	1:J:433:LEU:HD12	1.85	1.05
1:J:875:LEU:HD13	1:J:911:PHE:CE2	1.64	1.05
1:N:313:PRO:HA	1:N:338:TRP:CH2	1.90	1.05
1:D:313:PRO:HA	1:D:338:TRP:CH2	1.90	1.05
1:D:373:SER:CB	1:D:433:LEU:HD12	1.85	1.05
1:F:313:PRO:HA	1:F:338:TRP:CH2	1.90	1.05
1:K:373:SER:CB	1:K:433:LEU:HD12	1.85	1.05
1:L:373:SER:CB	1:L:433:LEU:HD12	1.85	1.05
1:J:313:PRO:HA	1:J:338:TRP:CH2	1.90	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:313:PRO:HA	1:K:338:TRP:CH2	1.91	1.05
1:E:313:PRO:HA	1:E:338:TRP:CH2	1.90	1.05
1:F:916:LYS:HE2	1:G:1177:TYR:HE2	1.22	1.05
1:H:373:SER:CB	1:H:433:LEU:HD12	1.85	1.05
1:O:373:SER:CB	1:O:433:LEU:HD12	1.85	1.05
1:G:378:SER:N	1:G:422:ILE:HD12	1.73	1.04
1:P:378:SER:N	1:P:422:ILE:HD12	1.73	1.04
1:B:313:PRO:HA	1:B:338:TRP:CH2	1.90	1.04
1:C:378:SER:N	1:C:422:ILE:HD12	1.73	1.04
1:N:462:TYR:CZ	1:N:494:PHE:HE1	1.76	1.04
1:K:378:SER:N	1:K:422:ILE:HD12	1.73	1.04
1:L:378:SER:N	1:L:422:ILE:HD12	1.73	1.04
1:M:313:PRO:HA	1:M:338:TRP:CH2	1.91	1.04
1:D:378:SER:N	1:D:422:ILE:HD12	1.73	1.04
1:E:378:SER:N	1:E:422:ILE:HD12	1.73	1.04
1:I:378:SER:N	1:I:422:ILE:HD12	1.73	1.04
1:A:378:SER:N	1:A:422:ILE:HD12	1.73	1.03
1:B:313:PRO:HB3	1:B:338:TRP:CZ2	1.88	1.03
1:D:209:SER:OG	1:E:212:ASP:OD2	1.76	1.03
1:J:378:SER:N	1:J:422:ILE:HD12	1.73	1.03
1:M:313:PRO:HB3	1:M:338:TRP:CZ2	1.88	1.03
1:C:508:TRP:HA	1:C:606:GLY:HA3	1.03	1.03
1:F:509:ASN:HD21	1:F:632:LEU:HD13	1.23	1.03
1:G:509:ASN:HD21	1:G:632:LEU:HD13	1.23	1.03
1:N:378:SER:N	1:N:422:ILE:HD12	1.73	1.03
1:O:509:ASN:HD21	1:O:632:LEU:HD13	1.23	1.03
1:P:509:ASN:HD21	1:P:632:LEU:HD13	1.23	1.03
1:B:508:TRP:HA	1:B:606:GLY:HA3	1.03	1.03
1:F:378:SER:N	1:F:422:ILE:HD12	1.73	1.03
1:H:508:TRP:HA	1:H:606:GLY:HA3	1.03	1.03
1:H:509:ASN:HD21	1:H:632:LEU:HD13	1.23	1.03
1:O:508:TRP:HA	1:O:606:GLY:HA3	1.03	1.03
1:L:508:TRP:HA	1:L:606:GLY:HA3	1.03	1.03
1:M:508:TRP:HA	1:M:606:GLY:HA3	1.03	1.03
1:N:508:TRP:HA	1:N:606:GLY:HA3	1.03	1.03
1:A:508:TRP:HA	1:A:606:GLY:HA3	1.03	1.03
1:A:875:LEU:HD13	1:A:911:PHE:CE2	1.64	1.03
1:F:508:TRP:HA	1:F:606:GLY:HA3	1.04	1.03
1:I:508:TRP:HA	1:I:606:GLY:HA3	1.03	1.03
1:I:509:ASN:HD21	1:I:632:LEU:HD13	1.23	1.03
1:P:508:TRP:HA	1:P:606:GLY:HA3	1.03	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:508:TRP:HA	1:D:606:GLY:HA3	1.03	1.02
1:E:509:ASN:HD21	1:E:632:LEU:HD13	1.23	1.02
1:G:508:TRP:HA	1:G:606:GLY:HA3	1.03	1.02
1:N:509:ASN:HD21	1:N:632:LEU:HD13	1.23	1.02
1:A:509:ASN:HD21	1:A:632:LEU:HD13	1.23	1.02
1:E:557:LYS:HB3	1:E:1226:TYR:CZ	1.95	1.02
1:J:557:LYS:HB3	1:J:1226:TYR:CZ	1.95	1.02
1:K:508:TRP:HA	1:K:606:GLY:HA3	1.03	1.02
1:B:557:LYS:HB3	1:B:1226:TYR:CZ	1.95	1.02
1:C:557:LYS:HB3	1:C:1226:TYR:CZ	1.95	1.02
1:E:508:TRP:HA	1:E:606:GLY:HA3	1.03	1.02
1:J:508:TRP:HA	1:J:606:GLY:HA3	1.03	1.02
1:J:509:ASN:HD21	1:J:632:LEU:HD13	1.23	1.02
1:L:557:LYS:HB3	1:L:1226:TYR:CZ	1.95	1.02
1:M:557:LYS:HB3	1:M:1226:TYR:CZ	1.95	1.02
1:N:875:LEU:HD13	1:N:911:PHE:CE2	1.64	1.02
1:C:121:ALA:HB1	1:D:276:SER:HB3	1.39	1.02
1:F:121:ALA:HB1	1:G:276:SER:HB3	1.41	1.02
1:E:121:ALA:HB1	1:F:276:SER:CB	1.90	1.01
1:G:209:SER:OG	1:H:212:ASP:OD2	1.77	1.01
1:I:557:LYS:HB3	1:I:1226:TYR:CZ	1.95	1.01
1:L:509:ASN:HD21	1:L:632:LEU:HD13	1.23	1.01
1:A:389:ILE:CD1	1:A:446:HIS:NE2	2.23	1.01
1:F:557:LYS:HB3	1:F:1226:TYR:CZ	1.95	1.01
1:N:389:ILE:CD1	1:N:446:HIS:NE2	2.23	1.01
1:C:389:ILE:CD1	1:C:446:HIS:NE2	2.23	1.01
1:D:389:ILE:CD1	1:D:446:HIS:NE2	2.24	1.01
1:G:389:ILE:CD1	1:G:446:HIS:NE2	2.23	1.01
1:K:389:ILE:CD1	1:K:446:HIS:NE2	2.24	1.01
1:L:389:ILE:CD1	1:L:446:HIS:NE2	2.23	1.01
1:P:389:ILE:CD1	1:P:446:HIS:NE2	2.23	1.01
1:B:378:SER:N	1:B:422:ILE:HD12	1.73	1.01
1:D:509:ASN:HD21	1:D:632:LEU:HD13	1.23	1.01
1:E:389:ILE:CD1	1:E:446:HIS:NE2	2.24	1.01
1:H:389:ILE:CD1	1:H:446:HIS:NE2	2.24	1.01
1:H:557:LYS:HB3	1:H:1226:TYR:CZ	1.95	1.01
1:J:389:ILE:CD1	1:J:446:HIS:NE2	2.23	1.01
1:K:557:LYS:HB3	1:K:1226:TYR:CZ	1.95	1.01
1:M:378:SER:N	1:M:422:ILE:HD12	1.73	1.01
1:M:509:ASN:HD21	1:M:632:LEU:HD13	1.23	1.01
1:O:557:LYS:HB3	1:O:1226:TYR:CZ	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:509:ASN:HD21	1:B:632:LEU:HD13	1.23	1.01
1:D:557:LYS:HB3	1:D:1226:TYR:CZ	1.95	1.01
1:O:389:ILE:CD1	1:O:446:HIS:NE2	2.23	1.01
1:G:875:LEU:HD13	1:G:911:PHE:CE2	1.64	1.00
1:K:509:ASN:HD21	1:K:632:LEU:HD13	1.23	1.00
1:P:557:LYS:HB3	1:P:1226:TYR:CZ	1.95	1.00
1:F:875:LEU:HD13	1:F:911:PHE:CE2	1.64	1.00
1:G:557:LYS:HB3	1:G:1226:TYR:CZ	1.95	1.00
1:I:389:ILE:CD1	1:I:446:HIS:NE2	2.24	1.00
1:A:557:LYS:HB3	1:A:1226:TYR:CZ	1.95	1.00
1:F:389:ILE:CD1	1:F:446:HIS:NE2	2.23	1.00
1:C:509:ASN:HD21	1:C:632:LEU:HD13	1.23	1.00
1:N:557:LYS:HB3	1:N:1226:TYR:CZ	1.95	1.00
1:O:378:SER:N	1:O:422:ILE:HD12	1.73	1.00
1:P:875:LEU:HD13	1:P:911:PHE:CE2	1.64	1.00
1:H:378:SER:N	1:H:422:ILE:HD12	1.73	1.00
1:H:875:LEU:HD13	1:H:911:PHE:CE2	1.64	1.00
1:M:875:LEU:CD1	1:M:911:PHE:CD2	2.23	1.00
1:I:212:ASP:OD2	1:J:209:SER:OG	1.80	1.00
1:I:875:LEU:CD1	1:I:911:PHE:CD2	2.24	1.00
1:F:518:LEU:CD2	1:F:643:TYR:CD1	2.27	0.99
1:I:875:LEU:HD13	1:I:911:PHE:CE2	1.64	0.99
1:B:389:ILE:CD1	1:B:446:HIS:NE2	2.23	0.99
1:D:875:LEU:HD13	1:D:911:PHE:CE2	1.64	0.99
1:J:462:TYR:CZ	1:J:494:PHE:HE1	1.76	0.99
1:M:389:ILE:CD1	1:M:446:HIS:NE2	2.23	0.99
1:O:875:LEU:HD13	1:O:911:PHE:CE2	1.64	0.99
1:E:462:TYR:CZ	1:E:494:PHE:HE1	1.76	0.99
1:I:462:TYR:CZ	1:I:494:PHE:HE1	1.76	0.99
1:D:462:TYR:CZ	1:D:494:PHE:HE1	1.76	0.99
1:K:875:LEU:HD13	1:K:911:PHE:CE2	1.64	0.99
1:C:462:TYR:CZ	1:C:494:PHE:HE1	1.76	0.99
1:B:121:ALA:HB1	1:C:276:SER:HB3	1.02	0.99
1:H:251:APK:C	1:H:253:TRP:N	2.26	0.99
1:M:212:ASP:OD2	1:N:209:SER:OG	1.80	0.99
1:O:251:APK:C	1:O:253:TRP:N	2.26	0.99
1:D:313:PRO:HG3	1:D:338:TRP:HE1	1.28	0.99
1:K:462:TYR:CZ	1:K:494:PHE:HE1	1.76	0.99
1:N:212:ASP:OD2	1:O:209:SER:OG	1.79	0.99
1:N:251:APK:C	1:N:253:TRP:N	2.26	0.99
1:B:462:TYR:CZ	1:B:494:PHE:HE1	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:APK:C	1:G:253:TRP:N	2.26	0.98
1:K:313:PRO:HG3	1:K:338:TRP:HE1	1.28	0.98
1:L:462:TYR:CZ	1:L:494:PHE:HE1	1.76	0.98
1:P:251:APK:C	1:P:253:TRP:N	2.26	0.98
1:A:251:APK:C	1:A:253:TRP:N	2.26	0.98
1:A:298:LYS:HG3	1:A:312:LEU:HD12	1.44	0.98
1:F:313:PRO:HG3	1:F:338:TRP:NE1	1.79	0.98
1:F:462:TYR:CZ	1:F:494:PHE:HE1	1.76	0.98
1:I:518:LEU:CD2	1:I:643:TYR:CD1	2.27	0.98
1:I:313:PRO:HG3	1:I:338:TRP:NE1	1.79	0.98
1:N:298:LYS:HG3	1:N:312:LEU:HD12	1.44	0.98
1:B:313:PRO:HG3	1:B:338:TRP:NE1	1.79	0.98
1:H:298:LYS:HG3	1:H:312:LEU:HD12	1.44	0.98
1:L:313:PRO:HG3	1:L:338:TRP:NE1	1.79	0.98
1:M:313:PRO:HG3	1:M:338:TRP:NE1	1.79	0.98
1:M:462:TYR:CZ	1:M:494:PHE:HE1	1.76	0.98
1:C:313:PRO:HG3	1:C:338:TRP:NE1	1.79	0.98
1:I:301:LEU:HD21	1:I:313:PRO:HG2	1.45	0.98
1:J:251:APK:C	1:J:253:TRP:N	2.26	0.98
1:O:298:LYS:HG3	1:O:312:LEU:HD12	1.44	0.98
1:E:251:APK:C	1:E:253:TRP:N	2.26	0.98
1:M:251:APK:C	1:M:253:TRP:N	2.26	0.98
1:A:462:TYR:CZ	1:A:494:PHE:HE1	1.76	0.98
1:F:301:LEU:HD21	1:F:313:PRO:HG2	1.45	0.98
1:J:313:PRO:HG3	1:J:338:TRP:NE1	1.79	0.98
1:A:508:TRP:CE3	1:A:927:GLN:O	2.17	0.98
1:B:251:APK:C	1:B:253:TRP:N	2.26	0.98
1:D:251:APK:C	1:D:253:TRP:N	2.26	0.98
1:E:313:PRO:HG3	1:E:338:TRP:NE1	1.79	0.98
1:E:509:ASN:ND2	1:E:632:LEU:HD13	1.79	0.98
1:F:509:ASN:ND2	1:F:632:LEU:HD13	1.79	0.98
1:K:298:LYS:HG3	1:K:312:LEU:HD12	1.44	0.98
1:N:508:TRP:CE3	1:N:927:GLN:O	2.17	0.98
1:A:313:PRO:HG3	1:A:338:TRP:NE1	1.79	0.98
1:B:508:TRP:CE3	1:B:927:GLN:O	2.17	0.98
1:E:508:TRP:CE3	1:E:927:GLN:O	2.17	0.98
1:K:251:APK:C	1:K:253:TRP:N	2.26	0.98
1:K:317:LEU:O	1:K:318:THR:OG1	1.82	0.98
1:M:508:TRP:CE3	1:M:927:GLN:O	2.17	0.98
1:D:298:LYS:HG3	1:D:312:LEU:HD12	1.44	0.97
1:D:317:LEU:O	1:D:318:THR:OG1	1.82	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:462:TYR:CZ	1:G:494:PHE:HE1	1.76	0.97
1:J:317:LEU:O	1:J:318:THR:OG1	1.82	0.97
1:J:508:TRP:CE3	1:J:927:GLN:O	2.17	0.97
1:J:509:ASN:ND2	1:J:632:LEU:HD13	1.79	0.97
1:K:508:TRP:CE3	1:K:927:GLN:O	2.17	0.97
1:N:313:PRO:HG3	1:N:338:TRP:NE1	1.79	0.97
1:P:462:TYR:CZ	1:P:494:PHE:HE1	1.76	0.97
1:B:298:LYS:HG3	1:B:312:LEU:HD12	1.44	0.97
1:D:508:TRP:CE3	1:D:927:GLN:O	2.17	0.97
1:D:509:ASN:ND2	1:D:632:LEU:HD13	1.79	0.97
1:H:462:TYR:CZ	1:H:494:PHE:HE1	1.76	0.97
1:I:509:ASN:ND2	1:I:632:LEU:HD13	1.79	0.97
1:P:509:ASN:ND2	1:P:632:LEU:HD13	1.79	0.97
1:E:317:LEU:O	1:E:318:THR:OG1	1.82	0.97
1:G:509:ASN:ND2	1:G:632:LEU:HD13	1.79	0.97
1:H:508:TRP:CE3	1:H:927:GLN:O	2.17	0.97
1:M:298:LYS:HG3	1:M:312:LEU:HD12	1.44	0.97
1:E:637:LEU:O	1:E:638:GLU:HB2	1.65	0.97
1:G:792:ASP:OD2	1:G:799:ASN:ND2	1.98	0.97
1:K:313:PRO:HG3	1:K:338:TRP:NE1	1.79	0.97
1:K:509:ASN:ND2	1:K:632:LEU:HD13	1.79	0.97
1:O:508:TRP:CE3	1:O:927:GLN:O	2.17	0.97
1:P:792:ASP:OD2	1:P:799:ASN:ND2	1.98	0.97
1:D:313:PRO:HG3	1:D:338:TRP:NE1	1.79	0.97
1:G:301:LEU:HD21	1:G:313:PRO:HG2	1.45	0.97
1:I:508:TRP:CE3	1:I:927:GLN:O	2.17	0.97
1:J:301:LEU:HD21	1:J:313:PRO:HG2	1.45	0.97
1:J:637:LEU:O	1:J:638:GLU:HB2	1.65	0.97
1:B:792:ASP:OD2	1:B:799:ASN:ND2	1.98	0.97
1:L:251:APK:C	1:L:253:TRP:N	2.26	0.97
1:M:792:ASP:OD2	1:M:799:ASN:ND2	1.98	0.97
1:O:462:TYR:CZ	1:O:494:PHE:HE1	1.76	0.97
1:O:509:ASN:ND2	1:O:632:LEU:HD13	1.79	0.97
1:P:301:LEU:HD21	1:P:313:PRO:HG2	1.45	0.97
1:P:373:SER:HB3	1:P:433:LEU:HD12	1.46	0.97
1:A:875:LEU:CD1	1:A:911:PHE:CD2	2.23	0.97
1:E:301:LEU:HD21	1:E:313:PRO:HG2	1.45	0.97
1:F:508:TRP:CE3	1:F:927:GLN:O	2.17	0.97
1:G:298:LYS:HG3	1:G:312:LEU:HD12	1.44	0.97
1:G:373:SER:HB3	1:G:433:LEU:HD12	1.46	0.97
1:H:313:PRO:HG3	1:H:338:TRP:NE1	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:298:LYS:HG3	1:P:312:LEU:HD12	1.44	0.97
1:F:373:SER:HB3	1:F:433:LEU:HD12	1.46	0.97
1:F:637:LEU:O	1:F:638:GLU:HB2	1.65	0.97
1:G:313:PRO:HG3	1:G:338:TRP:NE1	1.79	0.97
1:H:509:ASN:ND2	1:H:632:LEU:HD13	1.79	0.97
1:I:373:SER:HB3	1:I:433:LEU:HD12	1.46	0.97
1:L:508:TRP:CE3	1:L:927:GLN:O	2.17	0.97
1:P:313:PRO:HG3	1:P:338:TRP:NE1	1.79	0.97
1:C:509:ASN:ND2	1:C:632:LEU:HD13	1.79	0.97
1:I:251:APK:C	1:I:253:TRP:N	2.26	0.97
1:P:313:PRO:HG3	1:P:338:TRP:HE1	1.28	0.97
1:C:251:APK:C	1:C:253:TRP:N	2.26	0.97
1:G:313:PRO:HG3	1:G:338:TRP:HE1	1.29	0.97
1:I:298:LYS:HG3	1:I:312:LEU:HD12	1.44	0.97
1:M:313:PRO:HG3	1:M:338:TRP:HE1	1.28	0.97
1:O:313:PRO:HG3	1:O:338:TRP:NE1	1.79	0.97
1:O:373:SER:HB3	1:O:433:LEU:HD12	1.46	0.97
1:A:317:LEU:O	1:A:318:THR:OG1	1.82	0.96
1:B:313:PRO:HG3	1:B:338:TRP:HE1	1.28	0.96
1:C:508:TRP:CE3	1:C:927:GLN:O	2.17	0.96
1:D:792:ASP:OD2	1:D:799:ASN:ND2	1.98	0.96
1:L:509:ASN:ND2	1:L:632:LEU:HD13	1.79	0.96
1:N:317:LEU:O	1:N:318:THR:OG1	1.82	0.96
1:N:792:ASP:OD2	1:N:799:ASN:ND2	1.98	0.96
1:A:451:LYS:HD3	1:A:486:LEU:HD21	1.47	0.96
1:A:792:ASP:OD2	1:A:799:ASN:ND2	1.98	0.96
1:B:509:ASN:ND2	1:B:632:LEU:HD13	1.79	0.96
1:F:251:APK:C	1:F:253:TRP:N	2.26	0.96
1:K:792:ASP:OD2	1:K:799:ASN:ND2	1.98	0.96
1:L:313:PRO:HG3	1:L:338:TRP:HE1	1.28	0.96
1:N:451:LYS:HD3	1:N:486:LEU:HD21	1.47	0.96
1:A:313:PRO:HG3	1:A:338:TRP:HE1	1.28	0.96
1:E:313:PRO:HG3	1:E:338:TRP:HE1	1.28	0.96
1:E:373:SER:HB3	1:E:433:LEU:HD12	1.46	0.96
1:H:317:LEU:O	1:H:318:THR:OG1	1.82	0.96
1:I:637:LEU:O	1:I:638:GLU:HB2	1.65	0.96
1:J:313:PRO:HG3	1:J:338:TRP:HE1	1.28	0.96
1:N:509:ASN:ND2	1:N:632:LEU:HD13	1.79	0.96
1:O:317:LEU:O	1:O:318:THR:OG1	1.82	0.96
1:P:502:ARG:HB3	1:P:516:ASN:OD1	1.66	0.96
1:G:502:ARG:HB3	1:G:516:ASN:OD1	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:518:LEU:CD2	1:L:643:TYR:CD1	2.27	0.96
1:A:509:ASN:ND2	1:A:632:LEU:HD13	1.79	0.96
1:B:301:LEU:HD21	1:B:313:PRO:HG2	1.45	0.96
1:D:508:TRP:O	1:D:606:GLY:N	1.98	0.96
1:E:792:ASP:OD2	1:E:799:ASN:ND2	1.98	0.96
1:F:298:LYS:HG3	1:F:312:LEU:HD12	1.44	0.96
1:H:373:SER:HB3	1:H:433:LEU:HD12	1.46	0.96
1:J:373:SER:HB3	1:J:433:LEU:HD12	1.46	0.96
1:J:792:ASP:OD2	1:J:799:ASN:ND2	1.98	0.96
1:K:508:TRP:O	1:K:606:GLY:N	1.98	0.96
1:M:509:ASN:ND2	1:M:632:LEU:HD13	1.79	0.96
1:N:313:PRO:HG3	1:N:338:TRP:HE1	1.28	0.96
1:P:508:TRP:CE3	1:P:927:GLN:O	2.17	0.96
1:L:276:SER:CB	1:M:121:ALA:HB1	1.95	0.96
1:N:875:LEU:CD1	1:N:911:PHE:CD2	2.24	0.96
1:D:373:SER:HB3	1:D:433:LEU:HD12	1.46	0.96
1:G:508:TRP:CE3	1:G:927:GLN:O	2.17	0.96
1:K:637:LEU:O	1:K:638:GLU:HB2	1.65	0.96
1:M:301:LEU:HD21	1:M:313:PRO:HG2	1.45	0.96
1:A:502:ARG:HB3	1:A:516:ASN:OD1	1.66	0.96
1:C:301:LEU:HD21	1:C:313:PRO:HG2	1.45	0.96
1:C:502:ARG:HB3	1:C:516:ASN:OD1	1.66	0.96
1:D:637:LEU:O	1:D:638:GLU:HB2	1.65	0.96
1:H:792:ASP:OD2	1:H:799:ASN:ND2	1.98	0.96
1:L:317:LEU:O	1:L:318:THR:OG1	1.82	0.96
1:L:792:ASP:OD2	1:L:799:ASN:ND2	1.98	0.96
1:N:373:SER:HB3	1:N:433:LEU:HD12	1.46	0.96
1:C:298:LYS:HG3	1:C:312:LEU:HD12	1.44	0.96
1:C:508:TRP:O	1:C:606:GLY:N	1.98	0.96
1:H:451:LYS:HD3	1:H:486:LEU:HD21	1.47	0.96
1:H:502:ARG:HB3	1:H:516:ASN:OD1	1.66	0.96
1:O:502:ARG:HB3	1:O:516:ASN:OD1	1.66	0.96
1:A:301:LEU:HD21	1:A:313:PRO:HG2	1.45	0.96
1:B:875:LEU:HD13	1:B:911:PHE:CE2	1.64	0.96
1:I:317:LEU:O	1:I:318:THR:OG1	1.82	0.96
1:M:451:LYS:HD3	1:M:486:LEU:HD21	1.47	0.96
1:N:502:ARG:HB3	1:N:516:ASN:OD1	1.66	0.96
1:N:505:SER:HG	1:N:513:SER:HG	1.02	0.96
1:B:451:LYS:HD3	1:B:486:LEU:HD21	1.47	0.95
1:C:313:PRO:HG3	1:C:338:TRP:HE1	1.28	0.95
1:C:317:LEU:O	1:C:318:THR:OG1	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:451:LYS:HD3	1:G:486:LEU:HD21	1.47	0.95
1:G:508:TRP:O	1:G:606:GLY:N	1.99	0.95
1:H:313:PRO:HG3	1:H:338:TRP:HE1	1.28	0.95
1:O:451:LYS:HD3	1:O:486:LEU:HD21	1.47	0.95
1:O:792:ASP:OD2	1:O:799:ASN:ND2	1.98	0.95
1:P:451:LYS:HD3	1:P:486:LEU:HD21	1.47	0.95
1:P:508:TRP:O	1:P:606:GLY:N	1.98	0.95
1:A:373:SER:HB3	1:A:433:LEU:HD12	1.46	0.95
1:D:502:ARG:HB3	1:D:516:ASN:OD1	1.66	0.95
1:F:792:ASP:OD2	1:F:799:ASN:ND2	1.98	0.95
1:K:502:ARG:HB3	1:K:516:ASN:OD1	1.66	0.95
1:L:378:SER:H	1:L:422:ILE:HD12	1.27	0.95
1:L:508:TRP:O	1:L:606:GLY:N	1.98	0.95
1:O:314:ARG:O	1:O:315:GLU:CG	2.14	0.95
1:G:317:LEU:O	1:G:318:THR:OG1	1.82	0.95
1:H:314:ARG:O	1:H:315:GLU:CG	2.15	0.95
1:K:373:SER:HB3	1:K:433:LEU:HD12	1.46	0.95
1:L:314:ARG:O	1:L:315:GLU:CG	2.14	0.95
1:N:301:LEU:HD21	1:N:313:PRO:HG2	1.45	0.95
1:B:373:SER:HB3	1:B:433:LEU:HD12	1.46	0.95
1:B:378:SER:H	1:B:422:ILE:HD12	1.27	0.95
1:C:378:SER:H	1:C:422:ILE:HD12	1.27	0.95
1:C:792:ASP:OD2	1:C:799:ASN:ND2	1.98	0.95
1:J:508:TRP:O	1:J:606:GLY:N	1.98	0.95
1:M:378:SER:H	1:M:422:ILE:HD12	1.27	0.95
1:P:317:LEU:O	1:P:318:THR:OG1	1.82	0.95
1:C:875:LEU:HD13	1:C:911:PHE:CE2	1.64	0.95
1:E:508:TRP:O	1:E:606:GLY:N	1.98	0.95
1:M:373:SER:HB3	1:M:433:LEU:HD12	1.46	0.95
1:O:508:TRP:O	1:O:606:GLY:N	1.99	0.95
1:C:314:ARG:O	1:C:315:GLU:CG	2.15	0.95
1:E:314:ARG:O	1:E:315:GLU:CG	2.14	0.95
1:H:508:TRP:O	1:H:606:GLY:N	1.99	0.95
1:I:314:ARG:O	1:I:315:GLU:CG	2.15	0.95
1:L:298:LYS:HG3	1:L:312:LEU:HD12	1.44	0.95
1:L:502:ARG:HB3	1:L:516:ASN:OD1	1.66	0.95
1:M:875:LEU:HD13	1:M:911:PHE:CE2	1.64	0.95
1:O:313:PRO:HG3	1:O:338:TRP:HE1	1.28	0.95
1:O:637:LEU:O	1:O:638:GLU:HB2	1.65	0.95
1:B:314:ARG:O	1:B:315:GLU:CG	2.14	0.95
1:D:518:LEU:CD2	1:D:643:TYR:CD1	2.27	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:314:ARG:O	1:F:315:GLU:CG	2.15	0.95
1:F:502:ARG:HB3	1:F:516:ASN:OD1	1.66	0.95
1:F:508:TRP:O	1:F:606:GLY:N	1.98	0.95
1:I:792:ASP:OD2	1:I:799:ASN:ND2	1.98	0.95
1:M:314:ARG:O	1:M:315:GLU:CG	2.15	0.95
1:F:317:LEU:O	1:F:318:THR:OG1	1.82	0.95
1:I:508:TRP:O	1:I:606:GLY:N	1.98	0.95
1:J:314:ARG:O	1:J:315:GLU:CG	2.14	0.95
1:K:378:SER:H	1:K:422:ILE:HD12	1.27	0.95
1:C:518:LEU:CD2	1:C:643:TYR:CD1	2.27	0.95
1:E:298:LYS:HG3	1:E:312:LEU:HD12	1.44	0.95
1:G:637:LEU:O	1:G:638:GLU:HB2	1.65	0.95
1:H:637:LEU:O	1:H:638:GLU:HB2	1.65	0.95
1:L:301:LEU:HD21	1:L:313:PRO:HG2	1.45	0.95
1:L:637:LEU:O	1:L:638:GLU:HB2	1.65	0.95
1:M:317:LEU:O	1:M:318:THR:OG1	1.82	0.95
1:A:508:TRP:O	1:A:606:GLY:N	1.98	0.94
1:B:317:LEU:O	1:B:318:THR:OG1	1.82	0.94
1:C:373:SER:HB3	1:C:433:LEU:HD12	1.46	0.94
1:I:209:SER:OG	1:P:212:ASP:OD2	1.81	0.94
1:J:502:ARG:HB3	1:J:516:ASN:OD1	1.66	0.94
1:K:314:ARG:O	1:K:315:GLU:CG	2.15	0.94
1:N:508:TRP:O	1:N:606:GLY:N	1.98	0.94
1:N:637:LEU:O	1:N:638:GLU:HB2	1.65	0.94
1:C:14:ASP:OD2	1:D:142:ARG:NH1	2.00	0.94
1:D:314:ARG:O	1:D:315:GLU:CG	2.15	0.94
1:D:378:SER:H	1:D:422:ILE:HD12	1.27	0.94
1:J:212:ASP:OD2	1:K:209:SER:OG	1.85	0.94
1:J:378:SER:H	1:J:422:ILE:HD12	1.27	0.94
1:K:518:LEU:CD2	1:K:643:TYR:CD1	2.27	0.94
1:M:508:TRP:O	1:M:606:GLY:N	1.98	0.94
1:B:508:TRP:O	1:B:606:GLY:N	1.98	0.94
1:E:502:ARG:HB3	1:E:516:ASN:OD1	1.66	0.94
1:G:314:ARG:O	1:G:315:GLU:CG	2.15	0.94
1:J:276:SER:CB	1:K:121:ALA:HB1	1.98	0.94
1:L:373:SER:HB3	1:L:433:LEU:HD12	1.46	0.94
1:P:314:ARG:O	1:P:315:GLU:CG	2.14	0.94
1:P:637:LEU:O	1:P:638:GLU:HB2	1.65	0.94
1:A:637:LEU:O	1:A:638:GLU:HB2	1.65	0.94
1:B:502:ARG:HB3	1:B:516:ASN:OD1	1.66	0.94
1:F:451:LYS:HD3	1:F:486:LEU:HD21	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:518:LEU:CD2	1:E:643:TYR:CD1	2.27	0.94
1:H:301:LEU:HD21	1:H:313:PRO:HG2	1.45	0.94
1:H:463:LEU:HD22	1:H:467:PHE:CE2	2.03	0.94
1:H:518:LEU:CD2	1:H:643:TYR:CD1	2.27	0.94
1:I:502:ARG:HB3	1:I:516:ASN:OD1	1.66	0.94
1:M:502:ARG:HB3	1:M:516:ASN:OD1	1.66	0.94
1:O:505:SER:HG	1:O:513:SER:HG	0.98	0.94
1:J:298:LYS:HG3	1:J:312:LEU:HD12	1.44	0.94
1:N:314:ARG:O	1:N:315:GLU:CG	2.15	0.94
1:N:378:SER:H	1:N:422:ILE:HD12	1.27	0.94
1:O:463:LEU:HD22	1:O:467:PHE:CE2	2.03	0.94
1:C:451:LYS:HD3	1:C:486:LEU:HD21	1.47	0.94
1:E:875:LEU:CD1	1:E:911:PHE:CD2	2.23	0.94
1:I:451:LYS:HD3	1:I:486:LEU:HD21	1.47	0.94
1:K:301:LEU:HD21	1:K:313:PRO:HG2	1.45	0.94
1:A:314:ARG:O	1:A:315:GLU:CG	2.14	0.94
1:A:378:SER:H	1:A:422:ILE:HD12	1.27	0.94
1:A:557:LYS:O	1:A:1226:TYR:OH	1.86	0.94
1:B:463:LEU:HD22	1:B:467:PHE:CE2	2.03	0.94
1:E:378:SER:H	1:E:422:ILE:HD12	1.27	0.94
1:F:463:LEU:HD22	1:F:467:PHE:CE2	2.03	0.94
1:F:916:LYS:CE	1:G:1177:TYR:HE2	1.81	0.94
1:H:557:LYS:O	1:H:1226:TYR:OH	1.86	0.94
1:I:378:SER:H	1:I:422:ILE:HD12	1.27	0.94
1:I:463:LEU:HD22	1:I:467:PHE:CE2	2.03	0.94
1:N:557:LYS:O	1:N:1226:TYR:OH	1.86	0.94
1:O:557:LYS:O	1:O:1226:TYR:OH	1.86	0.94
1:P:557:LYS:O	1:P:1226:TYR:OH	1.86	0.94
1:D:547:PRO:HB3	1:D:603:ILE:HG13	1.50	0.94
1:G:557:LYS:O	1:G:1226:TYR:OH	1.86	0.94
1:M:463:LEU:HD22	1:M:467:PHE:CE2	2.03	0.94
1:M:637:LEU:O	1:M:638:GLU:HB2	1.65	0.94
1:O:301:LEU:HD21	1:O:313:PRO:HG2	1.45	0.94
1:C:637:LEU:O	1:C:638:GLU:HB2	1.65	0.94
1:J:518:LEU:CD2	1:J:643:TYR:CD1	2.27	0.94
1:J:875:LEU:CD1	1:J:911:PHE:CD2	2.23	0.94
1:K:463:LEU:HD22	1:K:467:PHE:CE2	2.03	0.94
1:N:463:LEU:HD22	1:N:467:PHE:CE2	2.03	0.94
1:O:518:LEU:CD2	1:O:643:TYR:CD1	2.27	0.94
1:B:557:LYS:O	1:B:1226:TYR:OH	1.86	0.93
1:B:637:LEU:O	1:B:638:GLU:HB2	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:875:LEU:CD1	1:B:911:PHE:CD2	2.23	0.93
1:K:451:LYS:HD3	1:K:486:LEU:HD21	1.47	0.93
1:K:547:PRO:HB3	1:K:603:ILE:HG13	1.51	0.93
1:A:463:LEU:HD22	1:A:467:PHE:CE2	2.03	0.93
1:D:301:LEU:HD21	1:D:313:PRO:HG2	1.45	0.93
1:D:463:LEU:HD22	1:D:467:PHE:CE2	2.03	0.93
1:M:557:LYS:O	1:M:1226:TYR:OH	1.86	0.93
1:D:451:LYS:HD3	1:D:486:LEU:HD21	1.47	0.93
1:G:463:LEU:HD22	1:G:467:PHE:CE2	2.03	0.93
1:B:518:LEU:CD2	1:B:643:TYR:CD1	2.27	0.93
1:C:463:LEU:HD22	1:C:467:PHE:CE2	2.03	0.93
1:L:451:LYS:HD3	1:L:486:LEU:HD21	1.47	0.93
1:O:378:SER:H	1:O:422:ILE:HD12	1.27	0.93
1:P:463:LEU:HD22	1:P:467:PHE:CE2	2.03	0.93
1:M:518:LEU:CD2	1:M:643:TYR:CD1	2.27	0.93
1:E:463:LEU:HD22	1:E:467:PHE:CE2	2.03	0.93
1:F:547:PRO:HB3	1:F:603:ILE:HG13	1.50	0.93
1:O:212:ASP:OD2	1:P:209:SER:OG	1.85	0.93
1:P:378:SER:H	1:P:422:ILE:HD12	1.27	0.93
1:A:505:SER:HG	1:A:513:SER:HG	1.04	0.93
1:B:547:PRO:HB3	1:B:603:ILE:HG13	1.50	0.93
1:F:545:PHE:CZ	1:F:565:ALA:HA	2.04	0.93
1:I:545:PHE:CZ	1:I:565:ALA:HA	2.04	0.93
1:I:557:LYS:O	1:I:1226:TYR:OH	1.86	0.93
1:L:463:LEU:HD22	1:L:467:PHE:CE2	2.03	0.93
1:F:378:SER:H	1:F:422:ILE:HD12	1.27	0.93
1:F:557:LYS:O	1:F:1226:TYR:OH	1.86	0.93
1:G:547:PRO:HB3	1:G:603:ILE:HG13	1.51	0.93
1:M:547:PRO:HB3	1:M:603:ILE:HG13	1.51	0.93
1:P:547:PRO:HB3	1:P:603:ILE:HG13	1.51	0.93
1:A:875:LEU:HD13	1:A:911:PHE:HE2	0.76	0.93
1:G:378:SER:H	1:G:422:ILE:HD12	1.27	0.93
1:H:378:SER:H	1:H:422:ILE:HD12	1.27	0.93
1:J:451:LYS:HD3	1:J:486:LEU:HD21	1.47	0.93
1:J:463:LEU:HD22	1:J:467:PHE:CE2	2.03	0.93
1:N:875:LEU:HD13	1:N:911:PHE:HE2	0.76	0.93
1:P:545:PHE:CZ	1:P:565:ALA:HA	2.04	0.93
1:E:451:LYS:HD3	1:E:486:LEU:HD21	1.47	0.93
1:E:545:PHE:CZ	1:E:565:ALA:HA	2.04	0.93
1:C:557:LYS:O	1:C:1226:TYR:OH	1.86	0.92
1:D:121:ALA:HB1	1:E:276:SER:CB	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:545:PHE:CZ	1:G:565:ALA:HA	2.04	0.92
1:H:875:LEU:CD1	1:H:911:PHE:CD2	2.24	0.92
1:I:547:PRO:HB3	1:I:603:ILE:HG13	1.51	0.92
1:A:483:ARG:O	1:A:487:PHE:N	2.03	0.92
1:E:875:LEU:HD13	1:E:911:PHE:HE2	0.76	0.92
1:J:545:PHE:CZ	1:J:565:ALA:HA	2.04	0.92
1:B:875:LEU:HD11	1:B:911:PHE:HD2	1.34	0.92
1:D:312:LEU:HD23	1:D:313:PRO:N	1.85	0.92
1:D:483:ARG:O	1:D:487:PHE:N	2.03	0.92
1:E:333:ASP:OD2	1:F:403:ASN:ND2	2.01	0.92
1:J:875:LEU:HD13	1:J:911:PHE:HE2	0.76	0.92
1:K:483:ARG:O	1:K:487:PHE:N	2.03	0.92
1:M:875:LEU:HD11	1:M:911:PHE:HD2	1.34	0.92
1:N:483:ARG:O	1:N:487:PHE:N	2.03	0.92
1:B:382:PRO:HA	1:B:419:THR:HG22	1.52	0.92
1:B:875:LEU:HD13	1:B:911:PHE:HE2	0.76	0.92
1:F:875:LEU:HD13	1:F:911:PHE:HE2	0.76	0.92
1:J:547:PRO:HB3	1:J:603:ILE:HG13	1.50	0.92
1:K:312:LEU:HD23	1:K:313:PRO:N	1.85	0.92
1:O:382:PRO:HA	1:O:419:THR:HG22	1.52	0.92
1:O:545:PHE:CZ	1:O:565:ALA:HA	2.04	0.92
1:B:545:PHE:CZ	1:B:565:ALA:HA	2.04	0.92
1:H:382:PRO:HA	1:H:419:THR:HG22	1.52	0.92
1:I:875:LEU:HD13	1:I:911:PHE:HE2	0.76	0.92
1:L:312:LEU:HD23	1:L:313:PRO:N	1.85	0.92
1:M:483:ARG:O	1:M:487:PHE:N	2.03	0.92
1:M:545:PHE:CZ	1:M:565:ALA:HA	2.04	0.92
1:A:382:PRO:HA	1:A:419:THR:HG22	1.52	0.92
1:B:483:ARG:O	1:B:487:PHE:N	2.03	0.92
1:C:312:LEU:HD23	1:C:313:PRO:N	1.85	0.92
1:D:545:PHE:CZ	1:D:565:ALA:HA	2.04	0.92
1:E:312:LEU:HD23	1:E:313:PRO:N	1.85	0.92
1:H:545:PHE:CZ	1:H:565:ALA:HA	2.04	0.92
1:H:875:LEU:HD13	1:H:911:PHE:HE2	0.76	0.92
1:M:382:PRO:HA	1:M:419:THR:HG22	1.52	0.92
1:M:875:LEU:HD13	1:M:911:PHE:HE2	0.76	0.92
1:N:312:LEU:HD23	1:N:313:PRO:CD	2.00	0.92
1:O:875:LEU:CD1	1:O:911:PHE:CD2	2.23	0.92
1:O:875:LEU:HD13	1:O:911:PHE:HE2	0.76	0.92
1:A:312:LEU:HD23	1:A:313:PRO:CD	2.00	0.92
1:B:312:LEU:HD23	1:B:313:PRO:N	1.85	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:547:PRO:HB3	1:E:603:ILE:HG13	1.50	0.92
1:G:382:PRO:HA	1:G:419:THR:HG22	1.52	0.92
1:H:547:PRO:HB3	1:H:603:ILE:HG13	1.50	0.92
1:I:313:PRO:HG3	1:I:338:TRP:HE1	1.28	0.92
1:L:557:LYS:O	1:L:1226:TYR:OH	1.86	0.92
1:P:382:PRO:HA	1:P:419:THR:HG22	1.52	0.92
1:B:312:LEU:HD23	1:B:313:PRO:CD	2.00	0.92
1:C:547:PRO:HB3	1:C:603:ILE:HG13	1.50	0.92
1:F:916:LYS:HE2	1:G:1177:TYR:CE2	2.04	0.92
1:H:483:ARG:O	1:H:487:PHE:N	2.03	0.92
1:J:312:LEU:HD23	1:J:313:PRO:N	1.85	0.92
1:K:545:PHE:CZ	1:K:565:ALA:HA	2.04	0.92
1:M:312:LEU:HD23	1:M:313:PRO:CD	2.00	0.92
1:O:547:PRO:HB3	1:O:603:ILE:HG13	1.50	0.92
1:B:209:SER:OG	1:C:212:ASP:OD2	1.87	0.92
1:C:545:PHE:CZ	1:C:565:ALA:HA	2.04	0.92
1:D:875:LEU:HD13	1:D:911:PHE:HE2	0.76	0.92
1:K:557:LYS:HB3	1:K:1226:TYR:CE1	2.05	0.92
1:K:875:LEU:HD13	1:K:911:PHE:HE2	0.76	0.92
1:L:557:LYS:HB3	1:L:1226:TYR:CE1	2.05	0.92
1:M:312:LEU:HD23	1:M:313:PRO:N	1.85	0.92
1:O:483:ARG:O	1:O:487:PHE:N	2.03	0.92
1:F:875:LEU:CD1	1:F:911:PHE:CD2	2.23	0.92
1:N:382:PRO:HA	1:N:419:THR:HG22	1.52	0.92
1:O:312:LEU:HD23	1:O:313:PRO:CD	2.00	0.92
1:P:505:SER:HG	1:P:513:SER:HG	1.12	0.92
1:A:212:ASP:OD2	1:H:209:SER:OG	1.87	0.91
1:C:312:LEU:HD23	1:C:313:PRO:CD	2.00	0.91
1:D:557:LYS:HB3	1:D:1226:TYR:CE1	2.05	0.91
1:G:518:LEU:CD2	1:G:643:TYR:CD1	2.27	0.91
1:J:483:ARG:O	1:J:487:PHE:N	2.03	0.91
1:J:557:LYS:HB3	1:J:1226:TYR:CE1	2.05	0.91
1:L:483:ARG:O	1:L:487:PHE:N	2.03	0.91
1:L:545:PHE:CZ	1:L:565:ALA:HA	2.04	0.91
1:C:557:LYS:HB3	1:C:1226:TYR:CE1	2.05	0.91
1:E:557:LYS:HB3	1:E:1226:TYR:CE1	2.05	0.91
1:H:312:LEU:HD23	1:H:313:PRO:CD	2.00	0.91
1:J:557:LYS:O	1:J:1226:TYR:OH	1.86	0.91
1:L:875:LEU:HD13	1:L:911:PHE:HE2	0.76	0.91
1:N:545:PHE:CZ	1:N:565:ALA:HA	2.04	0.91
1:O:557:LYS:HB3	1:O:1226:TYR:CE1	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:875:LEU:HD13	1:C:911:PHE:HE2	0.76	0.91
1:E:483:ARG:O	1:E:487:PHE:N	2.03	0.91
1:G:483:ARG:O	1:G:487:PHE:N	2.03	0.91
1:H:557:LYS:HB3	1:H:1226:TYR:CE1	2.05	0.91
1:L:312:LEU:HD23	1:L:313:PRO:CD	2.00	0.91
1:P:483:ARG:O	1:P:487:PHE:N	2.03	0.91
1:A:545:PHE:CZ	1:A:565:ALA:HA	2.04	0.91
1:B:121:ALA:CB	1:C:276:SER:HB3	1.97	0.91
1:B:557:LYS:HB3	1:B:1226:TYR:CE1	2.05	0.91
1:C:382:PRO:HA	1:C:419:THR:HG22	1.52	0.91
1:C:483:ARG:O	1:C:487:PHE:N	2.03	0.91
1:E:557:LYS:O	1:E:1226:TYR:OH	1.86	0.91
1:F:382:PRO:HA	1:F:419:THR:HG22	1.52	0.91
1:F:483:ARG:O	1:F:487:PHE:N	2.03	0.91
1:K:453:PHE:CZ	1:K:460:PRO:HB3	2.06	0.91
1:L:382:PRO:HA	1:L:419:THR:HG22	1.52	0.91
1:M:557:LYS:HB3	1:M:1226:TYR:CE1	2.05	0.91
1:P:518:LEU:CD2	1:P:643:TYR:CD1	2.27	0.91
1:A:557:LYS:HB3	1:A:1226:TYR:CE1	2.05	0.91
1:D:453:PHE:CZ	1:D:460:PRO:HB3	2.06	0.91
1:F:313:PRO:HG3	1:F:338:TRP:HE1	1.28	0.91
1:H:518:LEU:O	1:H:522:LYS:N	2.04	0.91
1:N:557:LYS:HB3	1:N:1226:TYR:CE1	2.05	0.91
1:O:518:LEU:O	1:O:522:LYS:N	2.04	0.91
1:I:483:ARG:O	1:I:487:PHE:N	2.03	0.91
1:B:453:PHE:CZ	1:B:460:PRO:HB3	2.06	0.91
1:F:312:LEU:HD23	1:F:313:PRO:N	1.85	0.91
1:I:312:LEU:HD23	1:I:313:PRO:N	1.85	0.91
1:I:518:LEU:O	1:I:522:LYS:N	2.04	0.91
1:K:557:LYS:O	1:K:1226:TYR:OH	1.86	0.91
1:L:547:PRO:HB3	1:L:603:ILE:HG13	1.50	0.91
1:M:453:PHE:CZ	1:M:460:PRO:HB3	2.06	0.91
1:D:382:PRO:HA	1:D:419:THR:HG22	1.52	0.91
1:D:557:LYS:O	1:D:1226:TYR:OH	1.86	0.91
1:F:518:LEU:O	1:F:522:LYS:N	2.04	0.91
1:B:518:LEU:O	1:B:522:LYS:N	2.04	0.91
1:G:453:PHE:CZ	1:G:460:PRO:HB3	2.06	0.91
1:I:382:PRO:HA	1:I:419:THR:HG22	1.52	0.91
1:M:518:LEU:O	1:M:522:LYS:N	2.04	0.91
1:A:312:LEU:HD23	1:A:313:PRO:N	1.85	0.91
1:C:875:LEU:HD11	1:C:911:PHE:HD2	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:557:LYS:HB3	1:I:1226:TYR:CE1	2.05	0.91
1:K:382:PRO:HA	1:K:419:THR:HG22	1.52	0.91
1:N:312:LEU:HD23	1:N:313:PRO:N	1.85	0.91
1:P:557:LYS:HB3	1:P:1226:TYR:CE1	2.05	0.91
1:G:312:LEU:HD23	1:G:313:PRO:N	1.85	0.90
1:P:312:LEU:HD23	1:P:313:PRO:N	1.85	0.90
1:P:453:PHE:CZ	1:P:460:PRO:HB3	2.06	0.90
1:D:518:LEU:O	1:D:522:LYS:N	2.04	0.90
1:G:557:LYS:HB3	1:G:1226:TYR:CE1	2.05	0.90
1:G:875:LEU:CD1	1:G:911:PHE:CD2	2.23	0.90
1:A:453:PHE:CZ	1:A:460:PRO:HB3	2.06	0.90
1:E:382:PRO:HA	1:E:419:THR:HG22	1.52	0.90
1:K:518:LEU:O	1:K:522:LYS:N	2.04	0.90
1:L:557:LYS:HE3	1:L:1224:LEU:O	1.72	0.90
1:N:518:LEU:O	1:N:522:LYS:N	2.04	0.90
1:N:547:PRO:HB3	1:N:603:ILE:HG13	1.50	0.90
1:P:312:LEU:HD23	1:P:313:PRO:CD	2.00	0.90
1:P:557:LYS:HE3	1:P:1224:LEU:O	1.72	0.90
1:A:518:LEU:O	1:A:522:LYS:N	2.04	0.90
1:C:518:LEU:O	1:C:522:LYS:N	2.04	0.90
1:E:557:LYS:HE3	1:E:1224:LEU:O	1.72	0.90
1:F:312:LEU:HD23	1:F:313:PRO:CD	2.00	0.90
1:G:312:LEU:HD23	1:G:313:PRO:CD	2.00	0.90
1:J:557:LYS:HE3	1:J:1224:LEU:O	1.72	0.90
1:N:453:PHE:CZ	1:N:460:PRO:HB3	2.06	0.90
1:D:312:LEU:HD23	1:D:313:PRO:CD	2.00	0.90
1:F:557:LYS:HB3	1:F:1226:TYR:CE1	2.05	0.90
1:G:518:LEU:O	1:G:522:LYS:N	2.04	0.90
1:G:557:LYS:HE3	1:G:1224:LEU:O	1.72	0.90
1:H:453:PHE:CZ	1:H:460:PRO:HB3	2.06	0.90
1:I:453:PHE:CZ	1:I:460:PRO:HB3	2.06	0.90
1:O:453:PHE:CZ	1:O:460:PRO:HB3	2.06	0.90
1:P:875:LEU:CD1	1:P:911:PHE:CD2	2.24	0.90
1:A:547:PRO:HB3	1:A:603:ILE:HG13	1.50	0.90
1:C:557:LYS:HE3	1:C:1224:LEU:O	1.72	0.90
1:E:518:LEU:O	1:E:522:LYS:N	2.04	0.90
1:I:312:LEU:HD23	1:I:313:PRO:CD	2.00	0.90
1:J:382:PRO:HA	1:J:419:THR:HG22	1.52	0.90
1:P:518:LEU:O	1:P:522:LYS:N	2.04	0.90
1:G:875:LEU:HD13	1:G:911:PHE:HE2	0.76	0.90
1:K:312:LEU:HD23	1:K:313:PRO:CD	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:312:LEU:HD23	1:H:313:PRO:N	1.85	0.90
1:J:312:LEU:HD23	1:J:313:PRO:CD	2.00	0.90
1:J:518:LEU:O	1:J:522:LYS:N	2.04	0.90
1:L:518:LEU:O	1:L:522:LYS:N	2.04	0.90
1:N:557:LYS:HE3	1:N:1224:LEU:O	1.72	0.90
1:O:312:LEU:HD23	1:O:313:PRO:N	1.85	0.90
1:C:453:PHE:CZ	1:C:460:PRO:HB3	2.06	0.90
1:F:916:LYS:CE	1:G:1177:TYR:CE2	2.55	0.90
1:A:557:LYS:HE3	1:A:1224:LEU:O	1.72	0.90
1:E:312:LEU:HD23	1:E:313:PRO:CD	2.00	0.90
1:F:453:PHE:CZ	1:F:460:PRO:HB3	2.06	0.90
1:H:557:LYS:HE3	1:H:1224:LEU:O	1.72	0.90
1:P:875:LEU:HD13	1:P:911:PHE:HE2	0.76	0.90
1:O:557:LYS:HE3	1:O:1224:LEU:O	1.72	0.89
1:B:557:LYS:HE3	1:B:1224:LEU:O	1.72	0.89
1:E:453:PHE:CZ	1:E:460:PRO:HB3	2.06	0.89
1:J:453:PHE:CZ	1:J:460:PRO:HB3	2.06	0.89
1:L:453:PHE:CZ	1:L:460:PRO:HB3	2.06	0.89
1:M:557:LYS:HE3	1:M:1224:LEU:O	1.72	0.89
1:B:333:ASP:OD2	1:C:403:ASN:ND2	2.04	0.89
1:K:222:HIS:CG	1:L:198:LYS:HZ1	1.91	0.89
1:I:276:SER:CB	1:J:121:ALA:HB1	2.03	0.89
1:A:518:LEU:CD2	1:A:643:TYR:CD1	2.27	0.89
1:J:504:ASP:HB3	1:J:509:ASN:O	1.73	0.89
1:B:504:ASP:HB3	1:B:509:ASN:O	1.73	0.89
1:C:505:SER:HG	1:C:513:SER:HG	1.12	0.89
1:G:121:ALA:HB1	1:H:276:SER:CB	2.03	0.89
1:I:557:LYS:HE3	1:I:1224:LEU:O	1.72	0.89
1:I:504:ASP:HB3	1:I:509:ASN:O	1.73	0.89
1:M:504:ASP:HB3	1:M:509:ASN:O	1.73	0.89
1:N:518:LEU:CD2	1:N:643:TYR:CD1	2.27	0.89
1:E:504:ASP:HB3	1:E:509:ASN:O	1.73	0.88
1:H:504:ASP:HB3	1:H:509:ASN:O	1.73	0.88
1:K:557:LYS:HE3	1:K:1224:LEU:O	1.72	0.88
1:O:504:ASP:HB3	1:O:509:ASN:O	1.73	0.88
1:F:504:ASP:HB3	1:F:509:ASN:O	1.73	0.88
1:C:875:LEU:CD1	1:C:911:PHE:CD2	2.23	0.88
1:G:914:VAL:HG13	1:G:917:TYR:O	1.73	0.88
1:K:222:HIS:CG	1:L:198:LYS:NZ	2.41	0.88
1:H:914:VAL:HG13	1:H:917:TYR:O	1.74	0.88
1:P:914:VAL:HG13	1:P:917:TYR:O	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:557:LYS:HE3	1:D:1224:LEU:O	1.72	0.88
1:E:914:VAL:HG13	1:E:917:TYR:O	1.74	0.88
1:F:557:LYS:HE3	1:F:1224:LEU:O	1.72	0.88
1:J:914:VAL:HG13	1:J:917:TYR:O	1.73	0.88
1:K:504:ASP:HB3	1:K:509:ASN:O	1.73	0.88
1:O:914:VAL:HG13	1:O:917:TYR:O	1.74	0.88
1:B:914:VAL:HG13	1:B:917:TYR:O	1.73	0.88
1:M:914:VAL:HG13	1:M:917:TYR:O	1.73	0.88
1:K:875:LEU:HD11	1:K:911:PHE:HD2	1.35	0.88
1:N:276:SER:CB	1:O:121:ALA:HB1	2.02	0.88
1:D:504:ASP:HB3	1:D:509:ASN:O	1.73	0.88
1:L:505:SER:HG	1:L:513:SER:HG	1.12	0.88
1:L:875:LEU:CD1	1:L:911:PHE:CD2	2.24	0.88
1:M:276:SER:CB	1:N:121:ALA:HB1	2.03	0.88
1:D:875:LEU:HD11	1:D:911:PHE:HD2	1.35	0.88
1:G:504:ASP:HB3	1:G:509:ASN:O	1.73	0.88
1:L:442:SER:O	1:L:446:HIS:HD2	1.57	0.88
1:P:504:ASP:HB3	1:P:509:ASN:O	1.73	0.88
1:G:505:SER:HG	1:G:513:SER:HG	1.16	0.87
1:A:504:ASP:HB3	1:A:509:ASN:O	1.73	0.87
1:D:509:ASN:HD21	1:D:632:LEU:CD1	1.88	0.87
1:H:442:SER:O	1:H:446:HIS:HD2	1.57	0.87
1:K:509:ASN:HD21	1:K:632:LEU:CD1	1.88	0.87
1:N:504:ASP:HB3	1:N:509:ASN:O	1.73	0.87
1:C:442:SER:O	1:C:446:HIS:HD2	1.57	0.87
1:G:509:ASN:HD21	1:G:632:LEU:CD1	1.88	0.87
1:N:914:VAL:HG13	1:N:917:TYR:O	1.74	0.87
1:O:442:SER:O	1:O:446:HIS:HD2	1.57	0.87
1:P:509:ASN:HD21	1:P:632:LEU:CD1	1.88	0.87
1:C:504:ASP:HB3	1:C:509:ASN:O	1.73	0.87
1:J:505:SER:HG	1:J:513:SER:HG	1.17	0.87
1:L:914:VAL:HG13	1:L:917:TYR:O	1.73	0.87
1:N:509:ASN:HD21	1:N:632:LEU:CD1	1.88	0.87
1:A:509:ASN:HD21	1:A:632:LEU:CD1	1.88	0.87
1:B:509:ASN:HD21	1:B:632:LEU:CD1	1.88	0.87
1:F:509:ASN:HD21	1:F:632:LEU:CD1	1.88	0.87
1:F:914:VAL:HG13	1:F:917:TYR:O	1.74	0.87
1:I:509:ASN:HD21	1:I:632:LEU:CD1	1.88	0.87
1:A:914:VAL:HG13	1:A:917:TYR:O	1.74	0.87
1:M:509:ASN:HD21	1:M:632:LEU:CD1	1.88	0.87
1:L:504:ASP:HB3	1:L:509:ASN:O	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:875:LEU:HD11	1:N:911:PHE:HD2	1.34	0.87
1:J:442:SER:O	1:J:446:HIS:HD2	1.57	0.87
1:D:914:VAL:HG13	1:D:917:TYR:O	1.74	0.86
1:E:442:SER:O	1:E:446:HIS:HD2	1.57	0.86
1:I:914:VAL:HG13	1:I:917:TYR:O	1.74	0.86
1:C:914:VAL:HG13	1:C:917:TYR:O	1.73	0.86
1:F:442:SER:O	1:F:446:HIS:HD2	1.57	0.86
1:L:509:ASN:HD21	1:L:632:LEU:CD1	1.88	0.86
1:H:509:ASN:HD21	1:H:632:LEU:CD1	1.88	0.86
1:K:914:VAL:HG13	1:K:917:TYR:O	1.74	0.86
1:A:875:LEU:HD11	1:A:911:PHE:HD2	1.35	0.86
1:O:509:ASN:HD21	1:O:632:LEU:CD1	1.88	0.86
1:C:509:ASN:HD21	1:C:632:LEU:CD1	1.88	0.86
1:E:509:ASN:HD21	1:E:632:LEU:CD1	1.88	0.86
1:O:508:TRP:C	1:O:606:GLY:HA3	1.96	0.86
1:I:442:SER:O	1:I:446:HIS:HD2	1.57	0.86
1:H:508:TRP:C	1:H:606:GLY:HA3	1.97	0.86
1:J:403:ASN:ND2	1:K:333:ASP:OD2	2.09	0.86
1:J:509:ASN:HD21	1:J:632:LEU:CD1	1.88	0.86
1:A:276:SER:CB	1:H:121:ALA:HB1	2.04	0.85
1:F:508:TRP:C	1:F:606:GLY:HA3	1.97	0.85
1:E:505:SER:HG	1:E:513:SER:HG	1.18	0.85
1:E:508:TRP:C	1:E:606:GLY:HA3	1.96	0.85
1:G:875:LEU:HD11	1:G:911:PHE:HD2	1.34	0.85
1:I:508:TRP:C	1:I:606:GLY:HA3	1.96	0.85
1:J:508:TRP:C	1:J:606:GLY:HA3	1.97	0.85
1:M:508:TRP:C	1:M:606:GLY:HA3	1.96	0.85
1:B:508:TRP:C	1:B:606:GLY:HA3	1.97	0.85
1:O:276:SER:CB	1:P:121:ALA:HB1	2.06	0.85
1:P:875:LEU:HD11	1:P:911:PHE:HD2	1.35	0.85
1:D:298:LYS:HG3	1:D:312:LEU:CD1	2.07	0.85
1:H:505:SER:HG	1:H:513:SER:HG	1.07	0.85
1:K:298:LYS:HG3	1:K:312:LEU:CD1	2.07	0.85
1:N:442:SER:O	1:N:446:HIS:HD2	1.58	0.85
1:P:508:TRP:C	1:P:606:GLY:HA3	1.96	0.85
1:G:508:TRP:C	1:G:606:GLY:HA3	1.96	0.85
1:L:633:THR:HG21	1:L:643:TYR:HA	1.59	0.85
1:B:298:LYS:HG3	1:B:312:LEU:CD1	2.07	0.85
1:C:633:THR:HG21	1:C:643:TYR:HA	1.59	0.85
1:F:633:THR:HG21	1:F:643:TYR:HA	1.59	0.85
1:G:298:LYS:HG3	1:G:312:LEU:CD1	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:633:THR:HG21	1:I:643:TYR:HA	1.59	0.85
1:L:508:TRP:C	1:L:606:GLY:HA3	1.97	0.85
1:P:298:LYS:HG3	1:P:312:LEU:CD1	2.07	0.85
1:C:508:TRP:C	1:C:606:GLY:HA3	1.97	0.85
1:E:633:THR:HG21	1:E:643:TYR:HA	1.59	0.85
1:F:300:LEU:HD13	2:F:1501:DTP:H2	1.59	0.85
1:I:389:ILE:HD13	1:I:446:HIS:HE2	1.42	0.85
1:I:463:LEU:HD22	1:I:467:PHE:CD2	2.12	0.85
1:J:633:THR:HG21	1:J:643:TYR:HA	1.59	0.85
1:M:298:LYS:HG3	1:M:312:LEU:CD1	2.07	0.85
1:A:442:SER:O	1:A:446:HIS:HD2	1.57	0.84
1:E:463:LEU:HD22	1:E:467:PHE:CD2	2.12	0.84
1:I:300:LEU:HD13	2:I:1501:DTP:H2	1.60	0.84
1:P:442:SER:O	1:P:446:HIS:HD2	1.57	0.84
1:A:298:LYS:HG3	1:A:312:LEU:CD1	2.07	0.84
1:A:508:TRP:C	1:A:606:GLY:HA3	1.97	0.84
1:F:389:ILE:HD13	1:F:446:HIS:HE2	1.42	0.84
1:F:463:LEU:HD22	1:F:467:PHE:CD2	2.12	0.84
1:I:298:LYS:HG3	1:I:312:LEU:CD1	2.07	0.84
1:N:298:LYS:HG3	1:N:312:LEU:CD1	2.07	0.84
1:D:633:THR:HG21	1:D:643:TYR:HA	1.59	0.84
1:F:298:LYS:HG3	1:F:312:LEU:CD1	2.07	0.84
1:J:463:LEU:HD22	1:J:467:PHE:CD2	2.12	0.84
1:K:300:LEU:HD13	2:K:1501:DTP:H2	1.60	0.84
1:M:252:ALA:O	1:M:253:TRP:C	2.15	0.84
1:N:508:TRP:C	1:N:606:GLY:HA3	1.96	0.84
1:D:389:ILE:HD13	1:D:446:HIS:HE2	1.42	0.84
1:K:389:ILE:HD13	1:K:446:HIS:HE2	1.42	0.84
1:K:633:THR:HG21	1:K:643:TYR:HA	1.59	0.84
1:L:300:LEU:HD13	2:L:1501:DTP:H2	1.60	0.84
1:O:298:LYS:HG3	1:O:312:LEU:CD1	2.07	0.84
1:B:252:ALA:O	1:B:253:TRP:C	2.15	0.84
1:B:505:SER:HG	1:B:513:SER:HG	1.21	0.84
1:C:300:LEU:HD13	2:C:1501:DTP:H2	1.60	0.84
1:D:300:LEU:HD13	2:D:1501:DTP:H2	1.60	0.84
1:D:463:LEU:HD22	1:D:467:PHE:CD2	2.12	0.84
1:E:492:LEU:CD2	1:E:562:LEU:HD23	2.08	0.84
1:J:492:LEU:CD2	1:J:562:LEU:HD23	2.08	0.84
1:K:463:LEU:HD22	1:K:467:PHE:CD2	2.12	0.84
1:P:492:LEU:CD2	1:P:562:LEU:HD23	2.08	0.84
1:A:633:THR:HG21	1:A:643:TYR:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LEU:HD22	1:G:164:VAL:HG11	1.60	0.84
1:G:442:SER:O	1:G:446:HIS:HD2	1.57	0.84
1:G:492:LEU:CD2	1:G:562:LEU:HD23	2.08	0.84
1:H:298:LYS:HG3	1:H:312:LEU:CD1	2.07	0.84
1:N:633:THR:HG21	1:N:643:TYR:HA	1.59	0.84
1:A:252:ALA:O	1:A:253:TRP:C	2.15	0.84
1:E:300:LEU:HD13	2:E:1501:DTP:H2	1.60	0.84
1:E:875:LEU:HD11	1:E:911:PHE:HD2	1.35	0.84
1:G:300:LEU:HD13	2:G:1501:DTP:H2	1.60	0.84
1:J:875:LEU:HD11	1:J:911:PHE:HD2	1.34	0.84
1:M:492:LEU:CD2	1:M:562:LEU:HD23	2.08	0.84
1:O:134:LEU:HD22	1:O:164:VAL:HG11	1.59	0.84
1:P:134:LEU:HD22	1:P:164:VAL:HG11	1.60	0.84
1:B:492:LEU:CD2	1:B:562:LEU:HD23	2.08	0.84
1:E:252:ALA:O	1:E:253:TRP:C	2.15	0.84
1:J:252:ALA:O	1:J:253:TRP:C	2.15	0.84
1:J:300:LEU:HD13	2:J:1501:DTP:H2	1.60	0.84
1:M:505:SER:HG	1:M:513:SER:HG	1.21	0.84
1:P:300:LEU:HD13	2:P:1501:DTP:H2	1.60	0.84
1:D:492:LEU:CD2	1:D:562:LEU:HD23	2.08	0.84
1:G:633:THR:HG21	1:G:643:TYR:HA	1.59	0.84
1:H:134:LEU:HD22	1:H:164:VAL:HG11	1.60	0.84
1:H:389:ILE:HD13	1:H:446:HIS:HE2	1.42	0.84
1:K:492:LEU:CD2	1:K:562:LEU:HD23	2.08	0.84
1:L:492:LEU:CD2	1:L:562:LEU:HD23	2.08	0.84
1:N:252:ALA:O	1:N:253:TRP:C	2.15	0.84
1:N:389:ILE:HD13	1:N:446:HIS:HE2	1.42	0.84
1:O:492:LEU:CD2	1:O:562:LEU:HD23	2.08	0.84
1:A:389:ILE:HD13	1:A:446:HIS:HE2	1.42	0.84
1:A:492:LEU:CD2	1:A:562:LEU:HD23	2.08	0.84
1:B:389:ILE:HD13	1:B:446:HIS:HE2	1.42	0.84
1:B:442:SER:O	1:B:446:HIS:HD2	1.57	0.84
1:C:492:LEU:CD2	1:C:562:LEU:HD23	2.08	0.84
1:E:298:LYS:HG3	1:E:312:LEU:CD1	2.07	0.84
1:K:249:ASN:HB2	1:K:252:ALA:HB2	1.60	0.84
1:O:633:THR:HG21	1:O:643:TYR:HA	1.59	0.84
1:A:463:LEU:HD22	1:A:467:PHE:CD2	2.12	0.83
1:B:300:LEU:HD13	2:B:1501:DTP:H2	1.59	0.83
1:D:249:ASN:HB2	1:D:252:ALA:HB2	1.60	0.83
1:F:492:LEU:CD2	1:F:562:LEU:HD23	2.08	0.83
1:H:492:LEU:CD2	1:H:562:LEU:HD23	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:492:LEU:CD2	1:N:562:LEU:HD23	2.08	0.83
1:P:633:THR:HG21	1:P:643:TYR:HA	1.59	0.83
1:F:134:LEU:HD22	1:F:164:VAL:HG11	1.60	0.83
1:G:249:ASN:HB2	1:G:252:ALA:HB2	1.60	0.83
1:I:134:LEU:HD22	1:I:164:VAL:HG11	1.60	0.83
1:M:389:ILE:HD13	1:M:446:HIS:HE2	1.42	0.83
1:M:463:LEU:HD22	1:M:467:PHE:CD2	2.12	0.83
1:N:463:LEU:HD22	1:N:467:PHE:CD2	2.12	0.83
1:P:249:ASN:HB2	1:P:252:ALA:HB2	1.60	0.83
1:B:463:LEU:HD22	1:B:467:PHE:CD2	2.12	0.83
1:C:298:LYS:HG3	1:C:312:LEU:CD1	2.07	0.83
1:D:252:ALA:O	1:D:253:TRP:C	2.15	0.83
1:H:548:LYS:HZ2	1:H:601:GLN:HA	1.43	0.83
1:H:633:THR:HG21	1:H:643:TYR:HA	1.59	0.83
1:I:492:LEU:CD2	1:I:562:LEU:HD23	2.08	0.83
1:J:298:LYS:HG3	1:J:312:LEU:CD1	2.07	0.83
1:O:389:ILE:HD13	1:O:446:HIS:HE2	1.42	0.83
1:O:548:LYS:HZ2	1:O:601:GLN:HA	1.43	0.83
1:E:378:SER:CA	1:E:422:ILE:HD12	2.09	0.83
1:F:875:LEU:HD11	1:F:911:PHE:HD2	1.35	0.83
1:H:463:LEU:HD22	1:H:467:PHE:CD2	2.12	0.83
1:I:249:ASN:HB2	1:I:252:ALA:HB2	1.60	0.83
1:K:252:ALA:O	1:K:253:TRP:C	2.15	0.83
1:K:508:TRP:C	1:K:606:GLY:HA3	1.97	0.83
1:L:298:LYS:HG3	1:L:312:LEU:CD1	2.07	0.83
1:L:463:LEU:HD22	1:L:467:PHE:CD2	2.12	0.83
1:M:300:LEU:HD13	2:M:1501:DTP:H2	1.60	0.83
1:C:252:ALA:O	1:C:253:TRP:C	2.15	0.83
1:C:463:LEU:HD22	1:C:467:PHE:CD2	2.12	0.83
1:D:508:TRP:C	1:D:606:GLY:HA3	1.97	0.83
1:J:378:SER:CA	1:J:422:ILE:HD12	2.09	0.83
1:P:463:LEU:HD22	1:P:467:PHE:CD2	2.12	0.83
1:F:249:ASN:HB2	1:F:252:ALA:HB2	1.60	0.83
1:G:463:LEU:HD22	1:G:467:PHE:CD2	2.12	0.83
1:H:875:LEU:HD11	1:H:911:PHE:HD2	1.35	0.83
1:O:875:LEU:HD11	1:O:911:PHE:HD2	1.35	0.83
1:E:194:GLU:OE2	1:F:216:ASN:ND2	2.10	0.83
1:K:442:SER:O	1:K:446:HIS:HD2	1.58	0.83
1:L:914:VAL:CG1	1:L:917:TYR:O	2.27	0.83
1:O:300:LEU:HD13	2:O:1501:DTP:H2	1.60	0.83
1:O:463:LEU:HD22	1:O:467:PHE:CD2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:633:THR:HG21	1:G:642:THR:C	1.99	0.83
1:G:914:VAL:CG1	1:G:917:TYR:O	2.27	0.83
1:N:134:LEU:HD22	1:N:164:VAL:HG11	1.60	0.83
1:C:914:VAL:CG1	1:C:917:TYR:O	2.27	0.83
1:F:622:LEU:CB	1:F:634:ASP:HB2	2.09	0.83
1:F:633:THR:HG21	1:F:642:THR:C	1.99	0.83
1:H:300:LEU:HD13	2:H:1501:DTP:H2	1.60	0.83
1:I:633:THR:HG21	1:I:642:THR:C	1.99	0.83
1:I:914:VAL:CG1	1:I:917:TYR:O	2.27	0.83
1:L:252:ALA:O	1:L:253:TRP:C	2.15	0.83
1:M:622:LEU:CB	1:M:634:ASP:HB2	2.09	0.83
1:P:633:THR:HG21	1:P:642:THR:C	1.99	0.83
1:A:300:LEU:HD13	2:A:1501:DTP:H2	1.60	0.83
1:B:622:LEU:CB	1:B:634:ASP:HB2	2.09	0.83
1:D:914:VAL:CG1	1:D:917:TYR:O	2.27	0.83
1:F:914:VAL:CG1	1:F:917:TYR:O	2.27	0.83
1:I:622:LEU:CB	1:I:634:ASP:HB2	2.09	0.83
1:P:378:SER:CA	1:P:422:ILE:HD12	2.09	0.83
1:P:914:VAL:CG1	1:P:917:TYR:O	2.27	0.83
1:A:134:LEU:HD22	1:A:164:VAL:HG11	1.60	0.82
1:A:186:CYS:O	1:A:249:ASN:ND2	2.12	0.82
1:G:378:SER:CA	1:G:422:ILE:HD12	2.09	0.82
1:J:186:CYS:O	1:J:249:ASN:ND2	2.12	0.82
1:K:914:VAL:CG1	1:K:917:TYR:O	2.27	0.82
1:N:186:CYS:O	1:N:249:ASN:ND2	2.12	0.82
1:N:300:LEU:HD13	2:N:1501:DTP:H2	1.60	0.82
1:C:389:ILE:HD13	1:C:446:HIS:HE2	1.42	0.82
1:C:622:LEU:CB	1:C:634:ASP:HB2	2.09	0.82
1:D:442:SER:O	1:D:446:HIS:HD2	1.57	0.82
1:E:186:CYS:O	1:E:249:ASN:ND2	2.13	0.82
1:E:413:LYS:HD3	1:E:422:ILE:O	1.79	0.82
1:F:186:CYS:O	1:F:249:ASN:ND2	2.12	0.82
1:H:413:LYS:HD3	1:H:422:ILE:O	1.79	0.82
1:H:457:ASP:OD1	1:H:587:ARG:HB2	1.80	0.82
1:H:633:THR:HG21	1:H:642:THR:C	1.99	0.82
1:I:186:CYS:O	1:I:249:ASN:ND2	2.12	0.82
1:I:875:LEU:HD11	1:I:911:PHE:HD2	1.35	0.82
1:M:413:LYS:HD3	1:M:422:ILE:O	1.79	0.82
1:M:457:ASP:OD1	1:M:587:ARG:HB2	1.80	0.82
1:N:622:LEU:CB	1:N:634:ASP:HB2	2.09	0.82
1:O:413:LYS:HD3	1:O:422:ILE:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:ASN:HB2	1:A:252:ALA:HB2	1.60	0.82
1:A:622:LEU:CB	1:A:634:ASP:HB2	2.09	0.82
1:B:413:LYS:HD3	1:B:422:ILE:O	1.79	0.82
1:B:457:ASP:OD1	1:B:587:ARG:HB2	1.80	0.82
1:E:633:THR:HG21	1:E:642:THR:C	1.99	0.82
1:G:186:CYS:O	1:G:249:ASN:ND2	2.12	0.82
1:G:622:LEU:CB	1:G:634:ASP:HB2	2.09	0.82
1:H:622:LEU:CB	1:H:634:ASP:HB2	2.09	0.82
1:J:413:LYS:HD3	1:J:422:ILE:O	1.79	0.82
1:L:378:SER:CA	1:L:422:ILE:HD12	2.09	0.82
1:L:457:ASP:OD1	1:L:587:ARG:HB2	1.80	0.82
1:L:622:LEU:CB	1:L:634:ASP:HB2	2.09	0.82
1:O:457:ASP:OD1	1:O:587:ARG:HB2	1.80	0.82
1:O:633:THR:HG21	1:O:642:THR:C	1.99	0.82
1:P:186:CYS:O	1:P:249:ASN:ND2	2.12	0.82
1:P:622:LEU:CB	1:P:634:ASP:HB2	2.09	0.82
1:B:249:ASN:HB2	1:B:252:ALA:HB2	1.60	0.82
1:B:633:THR:HG21	1:B:642:THR:C	1.99	0.82
1:C:134:LEU:HD22	1:C:164:VAL:HG11	1.60	0.82
1:C:413:LYS:HD3	1:C:422:ILE:O	1.79	0.82
1:J:633:THR:HG21	1:J:642:THR:C	1.99	0.82
1:M:249:ASN:HB2	1:M:252:ALA:HB2	1.60	0.82
1:N:249:ASN:HB2	1:N:252:ALA:HB2	1.60	0.82
1:O:252:ALA:O	1:O:253:TRP:C	2.15	0.82
1:A:548:LYS:HZ2	1:A:601:GLN:HA	1.43	0.82
1:B:517:THR:O	1:B:520:GLN:N	2.13	0.82
1:C:186:CYS:O	1:C:249:ASN:ND2	2.12	0.82
1:C:457:ASP:OD1	1:C:587:ARG:HB2	1.80	0.82
1:D:505:SER:HG	1:D:513:SER:HG	1.26	0.82
1:D:875:LEU:CD1	1:D:911:PHE:CD2	2.24	0.82
1:E:249:ASN:HB2	1:E:252:ALA:HB2	1.60	0.82
1:H:252:ALA:O	1:H:253:TRP:C	2.15	0.82
1:K:457:ASP:OD1	1:K:587:ARG:HB2	1.80	0.82
1:L:389:ILE:HD13	1:L:446:HIS:HE2	1.42	0.82
1:L:413:LYS:HD3	1:L:422:ILE:O	1.79	0.82
1:M:517:THR:O	1:M:520:GLN:N	2.13	0.82
1:M:633:THR:HG21	1:M:642:THR:C	1.99	0.82
1:M:914:VAL:CG1	1:M:917:TYR:O	2.27	0.82
1:O:622:LEU:CB	1:O:634:ASP:HB2	2.09	0.82
1:D:186:CYS:O	1:D:249:ASN:ND2	2.12	0.82
1:D:457:ASP:OD1	1:D:587:ARG:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:389:ILE:HD13	1:E:446:HIS:HE2	1.42	0.82
1:F:517:THR:O	1:F:520:GLN:N	2.13	0.82
1:H:517:THR:O	1:H:520:GLN:N	2.13	0.82
1:I:378:SER:CA	1:I:422:ILE:HD12	2.09	0.82
1:I:457:ASP:OD1	1:I:587:ARG:HB2	1.80	0.82
1:K:186:CYS:O	1:K:249:ASN:ND2	2.12	0.82
1:L:186:CYS:O	1:L:249:ASN:ND2	2.12	0.82
1:N:252:ALA:O	1:N:254:ASN:N	2.13	0.82
1:O:249:ASN:HB2	1:O:252:ALA:HB2	1.60	0.82
1:O:517:THR:O	1:O:520:GLN:N	2.13	0.82
1:A:252:ALA:O	1:A:254:ASN:N	2.13	0.82
1:A:378:SER:CA	1:A:422:ILE:HD12	2.09	0.82
1:B:914:VAL:CG1	1:B:917:TYR:O	2.27	0.82
1:D:134:LEU:HD22	1:D:164:VAL:HG11	1.60	0.82
1:E:134:LEU:HD22	1:E:164:VAL:HG11	1.60	0.82
1:F:457:ASP:OD1	1:F:587:ARG:HB2	1.80	0.82
1:H:249:ASN:HB2	1:H:252:ALA:HB2	1.60	0.82
1:H:914:VAL:CG1	1:H:917:TYR:O	2.27	0.82
1:K:134:LEU:HD22	1:K:164:VAL:HG11	1.60	0.82
1:L:134:LEU:HD22	1:L:164:VAL:HG11	1.60	0.82
1:N:378:SER:CA	1:N:422:ILE:HD12	2.09	0.82
1:N:548:LYS:HZ2	1:N:601:GLN:HA	1.43	0.82
1:O:378:SER:CA	1:O:422:ILE:HD12	2.09	0.82
1:A:312:LEU:HD23	1:A:313:PRO:HD2	1.62	0.82
1:B:252:ALA:O	1:B:254:ASN:N	2.13	0.82
1:B:633:THR:HG21	1:B:643:TYR:HA	1.59	0.82
1:C:378:SER:CA	1:C:422:ILE:HD12	2.09	0.82
1:D:252:ALA:O	1:D:254:ASN:N	2.13	0.82
1:H:378:SER:CA	1:H:422:ILE:HD12	2.09	0.82
1:I:517:THR:O	1:I:520:GLN:N	2.13	0.82
1:J:914:VAL:CG1	1:J:917:TYR:O	2.27	0.82
1:K:875:LEU:CD1	1:K:911:PHE:CD2	2.23	0.82
1:L:517:THR:O	1:L:520:GLN:N	2.13	0.82
1:M:252:ALA:O	1:M:254:ASN:N	2.13	0.82
1:N:312:LEU:HD23	1:N:313:PRO:HD2	1.62	0.82
1:E:914:VAL:CG1	1:E:917:TYR:O	2.27	0.82
1:G:517:THR:O	1:G:520:GLN:N	2.13	0.82
1:H:492:LEU:HD23	1:H:562:LEU:HD23	1.62	0.82
1:K:252:ALA:O	1:K:254:ASN:N	2.13	0.82
1:K:517:THR:O	1:K:520:GLN:N	2.13	0.82
1:N:507:ALA:O	1:N:608:ASN:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:914:VAL:CG1	1:N:917:TYR:O	2.27	0.82
1:O:492:LEU:HD23	1:O:562:LEU:HD23	1.62	0.82
1:O:914:VAL:CG1	1:O:917:TYR:O	2.27	0.82
1:P:517:THR:O	1:P:520:GLN:N	2.13	0.82
1:A:507:ALA:O	1:A:608:ASN:HB2	1.80	0.82
1:A:914:VAL:CG1	1:A:917:TYR:O	2.27	0.82
1:C:517:THR:O	1:C:520:GLN:N	2.13	0.82
1:D:378:SER:CA	1:D:422:ILE:HD12	2.09	0.82
1:D:517:THR:O	1:D:520:GLN:N	2.13	0.82
1:E:252:ALA:O	1:E:254:ASN:N	2.13	0.82
1:E:457:ASP:OD1	1:E:587:ARG:HB2	1.80	0.82
1:H:252:ALA:O	1:H:254:ASN:N	2.13	0.82
1:J:134:LEU:HD22	1:J:164:VAL:HG11	1.60	0.82
1:J:249:ASN:HB2	1:J:252:ALA:HB2	1.60	0.82
1:J:457:ASP:OD1	1:J:587:ARG:HB2	1.80	0.82
1:M:633:THR:HG21	1:M:643:TYR:HA	1.59	0.82
1:O:507:ALA:O	1:O:608:ASN:HB2	1.80	0.82
1:F:378:SER:CA	1:F:422:ILE:HD12	2.09	0.81
1:I:413:LYS:HD3	1:I:422:ILE:O	1.79	0.81
1:J:252:ALA:O	1:J:254:ASN:N	2.13	0.81
1:J:389:ILE:HD13	1:J:446:HIS:HE2	1.42	0.81
1:K:378:SER:CA	1:K:422:ILE:HD12	2.09	0.81
1:L:604:ASN:HD22	1:L:929:VAL:H	1.28	0.81
1:O:186:CYS:O	1:O:249:ASN:ND2	2.12	0.81
1:O:252:ALA:O	1:O:254:ASN:N	2.13	0.81
1:P:252:ALA:O	1:P:253:TRP:C	2.15	0.81
1:B:186:CYS:O	1:B:249:ASN:ND2	2.12	0.81
1:C:604:ASN:HD22	1:C:929:VAL:H	1.28	0.81
1:H:186:CYS:O	1:H:249:ASN:ND2	2.12	0.81
1:K:413:LYS:HD3	1:K:422:ILE:O	1.79	0.81
1:M:186:CYS:O	1:M:249:ASN:ND2	2.12	0.81
1:N:633:THR:HG21	1:N:642:THR:C	1.99	0.81
1:A:633:THR:HG21	1:A:642:THR:C	1.99	0.81
1:C:633:THR:HG21	1:C:642:THR:C	1.99	0.81
1:D:413:LYS:HD3	1:D:422:ILE:O	1.79	0.81
1:D:633:THR:HG21	1:D:642:THR:C	1.99	0.81
1:F:413:LYS:HD3	1:F:422:ILE:O	1.79	0.81
1:F:508:TRP:CA	1:F:606:GLY:CA	2.48	0.81
1:G:252:ALA:O	1:G:253:TRP:C	2.15	0.81
1:H:507:ALA:O	1:H:608:ASN:HB2	1.80	0.81
1:K:507:ALA:O	1:K:608:ASN:HB2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:622:LEU:CB	1:K:634:ASP:HB2	2.09	0.81
1:K:633:THR:HG21	1:K:642:THR:C	1.99	0.81
1:L:252:ALA:O	1:L:254:ASN:N	2.13	0.81
1:L:875:LEU:HD11	1:L:911:PHE:HD2	1.34	0.81
1:P:492:LEU:HD23	1:P:562:LEU:HD23	1.62	0.81
1:B:134:LEU:HD22	1:B:164:VAL:HG11	1.60	0.81
1:F:252:ALA:O	1:F:253:TRP:C	2.15	0.81
1:G:492:LEU:HD23	1:G:562:LEU:HD23	1.62	0.81
1:O:312:LEU:HD23	1:O:313:PRO:HD2	1.62	0.81
1:A:413:LYS:HD3	1:A:422:ILE:O	1.79	0.81
1:A:508:TRP:CA	1:A:606:GLY:CA	2.48	0.81
1:C:194:GLU:OE2	1:D:216:ASN:ND2	2.14	0.81
1:D:507:ALA:O	1:D:608:ASN:HB2	1.80	0.81
1:D:622:LEU:CB	1:D:634:ASP:HB2	2.09	0.81
1:G:413:LYS:HD3	1:G:422:ILE:O	1.79	0.81
1:H:312:LEU:HD23	1:H:313:PRO:HD2	1.62	0.81
1:M:134:LEU:HD22	1:M:164:VAL:HG11	1.60	0.81
1:M:312:LEU:HD23	1:M:313:PRO:HD2	1.62	0.81
1:N:548:LYS:HZ2	1:N:601:GLN:CA	1.94	0.81
1:P:413:LYS:HD3	1:P:422:ILE:O	1.79	0.81
1:A:457:ASP:OD1	1:A:587:ARG:HB2	1.79	0.81
1:A:548:LYS:HZ2	1:A:601:GLN:CA	1.94	0.81
1:B:507:ALA:O	1:B:608:ASN:HB2	1.80	0.81
1:C:249:ASN:HB2	1:C:252:ALA:HB2	1.60	0.81
1:C:252:ALA:O	1:C:254:ASN:N	2.13	0.81
1:F:252:ALA:O	1:F:254:ASN:N	2.13	0.81
1:H:548:LYS:HZ2	1:H:601:GLN:CA	1.94	0.81
1:I:252:ALA:O	1:I:253:TRP:C	2.15	0.81
1:L:249:ASN:HB2	1:L:252:ALA:HB2	1.60	0.81
1:B:312:LEU:HD23	1:B:313:PRO:HD2	1.62	0.81
1:B:378:SER:CA	1:B:422:ILE:HD12	2.09	0.81
1:E:517:THR:O	1:E:520:GLN:N	2.13	0.81
1:I:508:TRP:CA	1:I:606:GLY:CA	2.48	0.81
1:J:517:THR:O	1:J:520:GLN:N	2.13	0.81
1:L:633:THR:HG21	1:L:642:THR:C	1.99	0.81
1:M:378:SER:CA	1:M:422:ILE:HD12	2.09	0.81
1:M:507:ALA:O	1:M:608:ASN:HB2	1.80	0.81
1:N:508:TRP:CA	1:N:606:GLY:CA	2.48	0.81
1:E:492:LEU:HD23	1:E:562:LEU:HD23	1.62	0.81
1:J:492:LEU:HD23	1:J:562:LEU:HD23	1.62	0.81
1:L:440:HIS:O	1:L:444:VAL:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:413:LYS:HD3	1:N:422:ILE:O	1.79	0.81
1:O:548:LYS:HZ2	1:O:601:GLN:CA	1.94	0.81
1:A:440:HIS:O	1:A:444:VAL:N	2.14	0.81
1:I:252:ALA:O	1:I:254:ASN:N	2.13	0.81
1:J:507:ALA:O	1:J:608:ASN:HB2	1.80	0.81
1:N:440:HIS:O	1:N:444:VAL:N	2.14	0.81
1:N:457:ASP:OD1	1:N:587:ARG:HB2	1.80	0.81
1:N:517:THR:O	1:N:520:GLN:N	2.13	0.81
1:A:517:THR:O	1:A:520:GLN:N	2.13	0.81
1:C:440:HIS:O	1:C:444:VAL:N	2.14	0.81
1:E:354:GLU:OE1	1:E:430:LYS:HE3	1.81	0.81
1:E:604:ASN:HD22	1:E:929:VAL:H	1.28	0.81
1:G:252:ALA:O	1:G:254:ASN:N	2.13	0.81
1:G:548:LYS:HZ2	1:G:601:GLN:HA	1.45	0.81
1:J:312:LEU:HD23	1:J:313:PRO:HD2	1.62	0.81
1:J:354:GLU:OE1	1:J:430:LYS:HE3	1.81	0.81
1:P:252:ALA:O	1:P:254:ASN:N	2.13	0.81
1:P:457:ASP:OD1	1:P:587:ARG:HB2	1.80	0.81
1:P:507:ALA:O	1:P:608:ASN:HB2	1.80	0.81
1:E:507:ALA:O	1:E:608:ASN:HB2	1.80	0.80
1:G:457:ASP:OD1	1:G:587:ARG:HB2	1.80	0.80
1:G:507:ALA:O	1:G:608:ASN:HB2	1.80	0.80
1:J:604:ASN:HD22	1:J:929:VAL:H	1.28	0.80
1:L:507:ALA:O	1:L:608:ASN:HB2	1.80	0.80
1:M:508:TRP:CA	1:M:606:GLY:CA	2.48	0.80
1:P:548:LYS:HZ2	1:P:601:GLN:HA	1.46	0.80
1:B:508:TRP:CA	1:B:606:GLY:CA	2.48	0.80
1:F:492:LEU:HD23	1:F:562:LEU:HD23	1.62	0.80
1:C:402:VAL:O	1:C:406:HIS:N	2.14	0.80
1:E:312:LEU:HD23	1:E:313:PRO:HD2	1.62	0.80
1:A:604:ASN:HD22	1:A:929:VAL:H	1.28	0.80
1:N:604:ASN:HD22	1:N:929:VAL:H	1.28	0.80
1:B:604:ASN:HD22	1:B:929:VAL:H	1.28	0.80
1:F:545:PHE:O	1:F:549:ILE:N	2.13	0.80
1:I:354:GLU:OE1	1:I:430:LYS:HE3	1.81	0.80
1:I:492:LEU:HD23	1:I:562:LEU:HD23	1.62	0.80
1:I:915:TYR:O	1:I:916:LYS:HB2	1.82	0.80
1:K:313:PRO:HG3	1:K:338:TRP:CE2	2.17	0.80
1:L:402:VAL:O	1:L:406:HIS:N	2.14	0.80
1:B:425:ILE:O	1:B:429:LEU:N	2.15	0.80
1:C:507:ALA:O	1:C:608:ASN:HB2	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:915:TYR:O	1:C:916:LYS:HB2	1.82	0.80
1:D:313:PRO:HG3	1:D:338:TRP:CE2	2.17	0.80
1:F:915:TYR:O	1:F:916:LYS:HB2	1.82	0.80
1:I:373:SER:HB3	1:I:433:LEU:CD1	2.12	0.80
1:M:425:ILE:O	1:M:429:LEU:N	2.15	0.80
1:D:312:LEU:HD23	1:D:313:PRO:HD2	1.62	0.80
1:E:915:TYR:O	1:E:916:LYS:HB2	1.82	0.80
1:F:373:SER:HB3	1:F:433:LEU:CD1	2.12	0.80
1:J:313:PRO:HG3	1:J:338:TRP:CE2	2.17	0.80
1:K:212:ASP:OD2	1:L:209:SER:OG	1.98	0.80
1:K:312:LEU:HD23	1:K:313:PRO:HD2	1.62	0.80
1:F:440:HIS:O	1:F:444:VAL:N	2.14	0.80
1:G:312:LEU:HD23	1:G:313:PRO:HD2	1.62	0.80
1:I:440:HIS:O	1:I:444:VAL:N	2.14	0.80
1:J:915:TYR:O	1:J:916:LYS:HB2	1.82	0.80
1:L:313:PRO:HG3	1:L:338:TRP:CE2	2.17	0.80
1:L:915:TYR:O	1:L:916:LYS:HB2	1.82	0.80
1:A:545:PHE:O	1:A:549:ILE:N	2.13	0.80
1:C:313:PRO:HG3	1:C:338:TRP:CE2	2.17	0.80
1:D:915:TYR:O	1:D:916:LYS:HB2	1.82	0.80
1:E:313:PRO:HG3	1:E:338:TRP:CE2	2.17	0.80
1:E:373:SER:HB3	1:E:433:LEU:CD1	2.12	0.80
1:E:508:TRP:HE3	1:E:927:GLN:O	1.65	0.80
1:F:209:SER:OG	1:G:212:ASP:OD2	1.98	0.80
1:F:312:LEU:HD23	1:F:313:PRO:HD2	1.62	0.80
1:F:354:GLU:OE1	1:F:430:LYS:HE3	1.81	0.80
1:G:354:GLU:OE1	1:G:430:LYS:HE3	1.81	0.80
1:G:373:SER:HB3	1:G:433:LEU:CD1	2.12	0.80
1:J:508:TRP:HE3	1:J:927:GLN:O	1.65	0.80
1:K:915:TYR:O	1:K:916:LYS:HB2	1.82	0.80
1:M:604:ASN:HD22	1:M:929:VAL:H	1.28	0.80
1:P:312:LEU:HD23	1:P:313:PRO:HD2	1.62	0.80
1:P:354:GLU:OE1	1:P:430:LYS:HE3	1.81	0.80
1:P:373:SER:HB3	1:P:433:LEU:CD1	2.12	0.80
1:I:545:PHE:O	1:I:549:ILE:N	2.13	0.80
1:J:373:SER:HB3	1:J:433:LEU:CD1	2.12	0.80
1:A:492:LEU:HD23	1:A:562:LEU:HD23	1.62	0.79
1:D:354:GLU:OE1	1:D:430:LYS:HE3	1.81	0.79
1:F:507:ALA:O	1:F:608:ASN:HB2	1.80	0.79
1:G:915:TYR:O	1:G:916:LYS:HB2	1.82	0.79
1:I:507:ALA:O	1:I:608:ASN:HB2	1.80	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:622:LEU:CB	1:J:634:ASP:HB2	2.09	0.79
1:K:354:GLU:OE1	1:K:430:LYS:HE3	1.81	0.79
1:N:545:PHE:O	1:N:549:ILE:N	2.13	0.79
1:O:314:ARG:O	1:O:315:GLU:CB	2.30	0.79
1:B:915:TYR:O	1:B:916:LYS:HB2	1.82	0.79
1:H:314:ARG:O	1:H:315:GLU:CB	2.30	0.79
1:N:492:LEU:HD23	1:N:562:LEU:HD23	1.62	0.79
1:O:373:SER:HB3	1:O:433:LEU:CD1	2.12	0.79
1:P:314:ARG:O	1:P:315:GLU:CB	2.30	0.79
1:P:915:TYR:O	1:P:916:LYS:HB2	1.82	0.79
1:B:402:VAL:O	1:B:406:HIS:N	2.14	0.79
1:D:373:SER:HB3	1:D:433:LEU:CD1	2.12	0.79
1:D:492:LEU:HD23	1:D:562:LEU:HD23	1.62	0.79
1:G:314:ARG:O	1:G:315:GLU:CB	2.30	0.79
1:I:312:LEU:HD23	1:I:313:PRO:HD2	1.62	0.79
1:K:492:LEU:HD23	1:K:562:LEU:HD23	1.62	0.79
1:M:402:VAL:O	1:M:406:HIS:N	2.14	0.79
1:M:915:TYR:O	1:M:916:LYS:HB2	1.82	0.79
1:A:403:ASN:ND2	1:H:333:ASP:OD2	2.14	0.79
1:C:314:ARG:O	1:C:315:GLU:CB	2.30	0.79
1:E:622:LEU:CB	1:E:634:ASP:HB2	2.09	0.79
1:F:313:PRO:HG3	1:F:338:TRP:CE2	2.17	0.79
1:I:313:PRO:HG3	1:I:338:TRP:CE2	2.17	0.79
1:K:314:ARG:O	1:K:315:GLU:CB	2.30	0.79
1:K:604:ASN:HD22	1:K:929:VAL:H	1.28	0.79
1:L:314:ARG:O	1:L:315:GLU:CB	2.30	0.79
1:P:443:ILE:HG21	1:P:477:ASN:HD22	1.48	0.79
1:B:313:PRO:HG3	1:B:338:TRP:CE2	2.17	0.79
1:B:373:SER:HB3	1:B:433:LEU:CD1	2.12	0.79
1:D:314:ARG:O	1:D:315:GLU:CB	2.30	0.79
1:G:443:ILE:HG21	1:G:477:ASN:HD22	1.48	0.79
1:G:548:LYS:HZ2	1:G:601:GLN:CA	1.95	0.79
1:H:373:SER:HB3	1:H:433:LEU:CD1	2.12	0.79
1:H:443:ILE:HG21	1:H:477:ASN:HD22	1.48	0.79
1:M:313:PRO:HG3	1:M:338:TRP:CE2	2.17	0.79
1:M:373:SER:HB3	1:M:433:LEU:CD1	2.12	0.79
1:M:442:SER:O	1:M:446:HIS:HD2	1.57	0.79
1:N:373:SER:HB3	1:N:433:LEU:CD1	2.12	0.79
1:O:443:ILE:HG21	1:O:477:ASN:HD22	1.48	0.79
1:G:389:ILE:HD13	1:G:446:HIS:HE2	1.42	0.79
1:A:314:ARG:O	1:A:315:GLU:CB	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:SER:HB3	1:A:433:LEU:CD1	2.12	0.79
1:A:443:ILE:HG21	1:A:477:ASN:HD22	1.48	0.79
1:E:508:TRP:CA	1:E:606:GLY:CA	2.48	0.79
1:H:354:GLU:OE1	1:H:430:LYS:HE3	1.81	0.79
1:H:508:TRP:HE3	1:H:927:GLN:O	1.65	0.79
1:K:373:SER:HB3	1:K:433:LEU:CD1	2.12	0.79
1:K:440:HIS:O	1:K:444:VAL:N	2.14	0.79
1:L:373:SER:HB3	1:L:433:LEU:CD1	2.12	0.79
1:N:314:ARG:O	1:N:315:GLU:CB	2.30	0.79
1:N:402:VAL:O	1:N:406:HIS:N	2.14	0.79
1:N:443:ILE:HG21	1:N:477:ASN:HD22	1.48	0.79
1:D:440:HIS:O	1:D:444:VAL:N	2.14	0.79
1:G:604:ASN:HD22	1:G:929:VAL:H	1.28	0.79
1:H:313:PRO:HG3	1:H:338:TRP:CE2	2.17	0.79
1:I:314:ARG:O	1:I:315:GLU:CB	2.30	0.79
1:L:312:LEU:HD23	1:L:313:PRO:HD2	1.61	0.79
1:M:354:GLU:OE1	1:M:430:LYS:HE3	1.81	0.79
1:O:354:GLU:OE1	1:O:430:LYS:HE3	1.81	0.79
1:P:313:PRO:HG3	1:P:338:TRP:CE2	2.17	0.79
1:P:548:LYS:HZ2	1:P:601:GLN:CA	1.96	0.79
1:P:604:ASN:HD22	1:P:929:VAL:H	1.28	0.79
1:A:313:PRO:HG3	1:A:338:TRP:CE2	2.17	0.79
1:B:354:GLU:OE1	1:B:430:LYS:HE3	1.82	0.79
1:C:312:LEU:HD23	1:C:313:PRO:HD2	1.62	0.79
1:D:425:ILE:O	1:D:429:LEU:N	2.15	0.79
1:D:604:ASN:HD22	1:D:929:VAL:H	1.28	0.79
1:G:545:PHE:O	1:G:549:ILE:N	2.13	0.79
1:H:425:ILE:O	1:H:429:LEU:N	2.15	0.79
1:I:508:TRP:HE3	1:I:927:GLN:O	1.65	0.79
1:J:508:TRP:CA	1:J:606:GLY:CA	2.48	0.79
1:K:20:GLU:O	1:K:24:VAL:N	2.16	0.79
1:K:425:ILE:O	1:K:429:LEU:N	2.15	0.79
1:L:354:GLU:OE1	1:L:430:LYS:HE3	1.81	0.79
1:L:492:LEU:HD23	1:L:562:LEU:HD23	1.62	0.79
1:L:545:PHE:O	1:L:549:ILE:N	2.13	0.79
1:M:492:LEU:HD23	1:M:562:LEU:HD23	1.62	0.79
1:O:403:ASN:ND2	1:P:333:ASP:OD2	2.16	0.79
1:O:425:ILE:O	1:O:429:LEU:N	2.15	0.79
1:P:440:HIS:O	1:P:444:VAL:N	2.14	0.79
1:A:354:GLU:OE1	1:A:430:LYS:HE3	1.81	0.79
1:C:373:SER:HB3	1:C:433:LEU:CD1	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:425:ILE:O	1:E:429:LEU:N	2.15	0.79
1:F:314:ARG:O	1:F:315:GLU:CB	2.30	0.79
1:G:313:PRO:HG3	1:G:338:TRP:CE2	2.17	0.79
1:G:440:HIS:O	1:G:444:VAL:N	2.14	0.79
1:H:604:ASN:HD22	1:H:929:VAL:H	1.28	0.79
1:M:440:HIS:O	1:M:444:VAL:N	2.14	0.79
1:N:313:PRO:HG3	1:N:338:TRP:CE2	2.17	0.79
1:N:354:GLU:OE1	1:N:430:LYS:HE3	1.81	0.79
1:P:402:VAL:O	1:P:406:HIS:N	2.14	0.79
1:P:545:PHE:O	1:P:549:ILE:N	2.13	0.79
1:A:402:VAL:O	1:A:406:HIS:N	2.14	0.78
1:B:492:LEU:HD23	1:B:562:LEU:HD23	1.62	0.78
1:C:545:PHE:O	1:C:549:ILE:N	2.13	0.78
1:D:20:GLU:O	1:D:24:VAL:N	2.16	0.78
1:G:402:VAL:O	1:G:406:HIS:N	2.14	0.78
1:J:425:ILE:O	1:J:429:LEU:N	2.15	0.78
1:M:548:LYS:HZ2	1:M:601:GLN:HA	1.48	0.78
1:O:508:TRP:HE3	1:O:927:GLN:O	1.66	0.78
1:C:492:LEU:HD23	1:C:562:LEU:HD23	1.62	0.78
1:H:20:GLU:O	1:H:24:VAL:N	2.16	0.78
1:O:20:GLU:O	1:O:24:VAL:N	2.16	0.78
1:O:313:PRO:HG3	1:O:338:TRP:CE2	2.17	0.78
1:O:604:ASN:HD22	1:O:929:VAL:H	1.28	0.78
1:P:389:ILE:HD13	1:P:446:HIS:HE2	1.42	0.78
1:B:440:HIS:O	1:B:444:VAL:N	2.14	0.78
1:C:354:GLU:OE1	1:C:430:LYS:HE3	1.82	0.78
1:G:20:GLU:O	1:G:24:VAL:N	2.16	0.78
1:P:20:GLU:O	1:P:24:VAL:N	2.16	0.78
1:N:508:TRP:HE3	1:N:927:GLN:O	1.65	0.78
1:D:508:TRP:HE3	1:D:927:GLN:O	1.65	0.78
1:I:425:ILE:O	1:I:429:LEU:N	2.15	0.78
1:K:508:TRP:HE3	1:K:927:GLN:O	1.65	0.78
1:M:403:ASN:ND2	1:N:333:ASP:OD2	2.17	0.78
1:O:915:TYR:O	1:O:916:LYS:HB2	1.82	0.78
1:A:508:TRP:HE3	1:A:927:GLN:O	1.65	0.78
1:B:443:ILE:HG21	1:B:477:ASN:HD22	1.48	0.78
1:F:443:ILE:HG21	1:F:477:ASN:HD22	1.48	0.78
1:F:508:TRP:HE3	1:F:927:GLN:O	1.65	0.78
1:H:915:TYR:O	1:H:916:LYS:HB2	1.82	0.78
1:K:402:VAL:O	1:K:406:HIS:N	2.14	0.78
1:M:443:ILE:HG21	1:M:477:ASN:HD22	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:425:ILE:O	1:F:429:LEU:N	2.15	0.78
1:G:157:LYS:NZ	2:G:1501:DTP:O3B	2.17	0.78
1:H:157:LYS:NZ	2:H:1501:DTP:O3B	2.17	0.78
1:O:157:LYS:NZ	2:O:1501:DTP:O3B	2.17	0.78
1:P:157:LYS:NZ	2:P:1501:DTP:O3B	2.17	0.78
1:D:402:VAL:O	1:D:406:HIS:N	2.14	0.78
1:I:604:ASN:HD22	1:I:929:VAL:H	1.28	0.78
1:N:425:ILE:O	1:N:429:LEU:N	2.15	0.78
1:B:187:ASN:HA	1:B:249:ASN:HD21	1.49	0.78
1:B:458:LEU:HD23	1:B:459:ILE:H	1.49	0.78
1:H:373:SER:OG	1:H:433:LEU:HD12	1.84	0.78
1:I:443:ILE:HG21	1:I:477:ASN:HD22	1.48	0.78
1:L:20:GLU:O	1:L:24:VAL:N	2.16	0.78
1:M:314:ARG:O	1:M:315:GLU:CB	2.30	0.78
1:M:458:LEU:HD23	1:M:459:ILE:H	1.49	0.78
1:O:373:SER:OG	1:O:433:LEU:HD12	1.84	0.78
1:P:425:ILE:O	1:P:429:LEU:N	2.15	0.78
1:A:425:ILE:O	1:A:429:LEU:N	2.15	0.78
1:B:314:ARG:O	1:B:315:GLU:CB	2.30	0.78
1:G:425:ILE:O	1:G:429:LEU:N	2.15	0.78
1:M:187:ASN:HA	1:M:249:ASN:HD21	1.49	0.78
1:B:301:LEU:HD21	1:B:313:PRO:CG	2.14	0.77
1:C:187:ASN:HA	1:C:249:ASN:HD21	1.50	0.77
1:C:333:ASP:OD2	1:D:403:ASN:ND2	2.17	0.77
1:F:20:GLU:O	1:F:24:VAL:N	2.16	0.77
1:M:301:LEU:HD21	1:M:313:PRO:CG	2.14	0.77
1:N:915:TYR:O	1:N:916:LYS:HB2	1.82	0.77
1:A:301:LEU:HD21	1:A:313:PRO:CG	2.14	0.77
1:C:20:GLU:O	1:C:24:VAL:N	2.16	0.77
1:C:458:LEU:HD23	1:C:459:ILE:H	1.49	0.77
1:E:545:PHE:O	1:E:549:ILE:N	2.13	0.77
1:F:604:ASN:HD22	1:F:929:VAL:H	1.28	0.77
1:L:187:ASN:HA	1:L:249:ASN:HD21	1.49	0.77
1:N:20:GLU:O	1:N:24:VAL:N	2.16	0.77
1:N:157:LYS:NZ	2:N:1501:DTP:O3B	2.17	0.77
1:N:301:LEU:HD21	1:N:313:PRO:CG	2.14	0.77
1:A:157:LYS:NZ	2:A:1501:DTP:O3B	2.17	0.77
1:A:915:TYR:O	1:A:916:LYS:HB2	1.82	0.77
1:E:314:ARG:O	1:E:315:GLU:CB	2.30	0.77
1:H:545:PHE:O	1:H:549:ILE:N	2.13	0.77
1:J:314:ARG:O	1:J:315:GLU:CB	2.30	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:LEU:HD23	1:L:459:ILE:H	1.49	0.77
1:L:508:TRP:CA	1:L:606:GLY:CA	2.48	0.77
1:M:548:LYS:HZ2	1:M:601:GLN:CA	1.97	0.77
1:A:20:GLU:O	1:A:24:VAL:N	2.16	0.77
1:A:458:LEU:HD23	1:A:459:ILE:H	1.49	0.77
1:C:313:PRO:CG	1:C:338:TRP:CZ2	2.68	0.77
1:E:443:ILE:HG21	1:E:477:ASN:HD22	1.48	0.77
1:F:122:LYS:HG3	1:G:276:SER:CB	2.15	0.77
1:G:373:SER:OG	1:G:433:LEU:HD12	1.84	0.77
1:J:915:TYR:CZ	1:J:916:LYS:HE3	2.20	0.77
1:O:545:PHE:O	1:O:549:ILE:N	2.13	0.77
1:P:373:SER:OG	1:P:433:LEU:HD12	1.84	0.77
1:B:548:LYS:HZ2	1:B:601:GLN:HA	1.49	0.77
1:D:508:TRP:CE3	1:D:927:GLN:C	2.58	0.77
1:F:157:LYS:NZ	2:F:1501:DTP:O3B	2.17	0.77
1:F:458:LEU:HD23	1:F:459:ILE:H	1.49	0.77
1:H:313:PRO:CG	1:H:338:TRP:CZ2	2.67	0.77
1:I:20:GLU:O	1:I:24:VAL:N	2.16	0.77
1:J:545:PHE:O	1:J:549:ILE:N	2.13	0.77
1:M:313:PRO:CG	1:M:338:TRP:CZ2	2.67	0.77
1:A:313:PRO:CG	1:A:338:TRP:CZ2	2.68	0.77
1:B:313:PRO:CG	1:B:338:TRP:CZ2	2.68	0.77
1:C:508:TRP:CE3	1:C:927:GLN:C	2.58	0.77
1:E:187:ASN:HA	1:E:249:ASN:HD21	1.49	0.77
1:E:915:TYR:CZ	1:E:916:LYS:HE3	2.20	0.77
1:F:548:LYS:HZ2	1:F:601:GLN:HA	1.48	0.77
1:G:458:LEU:HD23	1:G:459:ILE:H	1.49	0.77
1:I:458:LEU:HD23	1:I:459:ILE:H	1.49	0.77
1:L:313:PRO:CG	1:L:338:TRP:CZ2	2.68	0.77
1:L:915:TYR:CZ	1:L:916:LYS:HE3	2.20	0.77
1:N:187:ASN:HA	1:N:249:ASN:HD21	1.49	0.77
1:N:313:PRO:CG	1:N:338:TRP:CZ2	2.67	0.77
1:N:373:SER:OG	1:N:433:LEU:HD12	1.84	0.77
1:N:458:LEU:HD23	1:N:459:ILE:H	1.50	0.77
1:O:313:PRO:CG	1:O:338:TRP:CZ2	2.68	0.77
1:P:313:PRO:CG	1:P:338:TRP:CZ2	2.67	0.77
1:A:187:ASN:HA	1:A:249:ASN:HD21	1.49	0.77
1:A:373:SER:OG	1:A:433:LEU:HD12	1.84	0.77
1:B:508:TRP:CE3	1:B:927:GLN:C	2.58	0.77
1:C:508:TRP:CA	1:C:606:GLY:CA	2.48	0.77
1:C:915:TYR:CZ	1:C:916:LYS:HE3	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:915:TYR:CZ	1:D:916:LYS:HE3	2.20	0.77
1:F:402:VAL:O	1:F:406:HIS:N	2.14	0.77
1:F:548:LYS:HZ2	1:F:601:GLN:CA	1.97	0.77
1:G:313:PRO:CG	1:G:338:TRP:CZ2	2.68	0.77
1:I:157:LYS:NZ	2:I:1501:DTP:O3B	2.17	0.77
1:J:187:ASN:HA	1:J:249:ASN:HD21	1.49	0.77
1:K:915:TYR:CZ	1:K:916:LYS:HE3	2.20	0.77
1:M:508:TRP:CE3	1:M:927:GLN:C	2.58	0.77
1:B:1169:ILE:HD11	1:B:1172:CYS:HB2	1.67	0.77
1:C:157:LYS:NZ	2:C:1501:DTP:O3B	2.17	0.77
1:C:301:LEU:HD21	1:C:313:PRO:CG	2.14	0.77
1:E:313:PRO:CG	1:E:338:TRP:HZ2	1.98	0.77
1:E:440:HIS:O	1:E:444:VAL:N	2.14	0.77
1:F:187:ASN:HA	1:F:249:ASN:HD21	1.49	0.77
1:F:301:LEU:HD21	1:F:313:PRO:CG	2.14	0.77
1:H:458:LEU:HD23	1:H:459:ILE:H	1.49	0.77
1:I:301:LEU:HD21	1:I:313:PRO:CG	2.14	0.77
1:J:313:PRO:CG	1:J:338:TRP:HZ2	1.98	0.77
1:J:440:HIS:O	1:J:444:VAL:N	2.14	0.77
1:J:443:ILE:HG21	1:J:477:ASN:HD22	1.48	0.77
1:K:157:LYS:NZ	2:K:1501:DTP:O3B	2.17	0.77
1:L:157:LYS:NZ	2:L:1501:DTP:O3B	2.17	0.77
1:L:508:TRP:CE3	1:L:927:GLN:C	2.58	0.77
1:O:301:LEU:HD21	1:O:313:PRO:CG	2.14	0.77
1:O:440:HIS:O	1:O:444:VAL:N	2.14	0.77
1:O:458:LEU:HD23	1:O:459:ILE:H	1.49	0.77
1:P:458:LEU:HD23	1:P:459:ILE:H	1.49	0.77
1:P:508:TRP:HE3	1:P:927:GLN:O	1.65	0.77
1:B:633:THR:CG2	1:B:643:TYR:HA	2.15	0.77
1:D:157:LYS:NZ	2:D:1501:DTP:O3B	2.17	0.77
1:D:313:PRO:CG	1:D:338:TRP:CZ2	2.68	0.77
1:G:508:TRP:HE3	1:G:927:GLN:O	1.65	0.77
1:H:301:LEU:HD21	1:H:313:PRO:CG	2.14	0.77
1:I:187:ASN:HA	1:I:249:ASN:HD21	1.49	0.77
1:K:443:ILE:HG21	1:K:477:ASN:HD22	1.48	0.77
1:L:443:ILE:HG21	1:L:477:ASN:HD22	1.48	0.77
1:M:915:TYR:CZ	1:M:916:LYS:HE3	2.20	0.77
1:N:633:THR:CG2	1:N:643:TYR:HA	2.15	0.77
1:A:209:SER:OG	1:B:212:ASP:OD2	2.03	0.77
1:A:508:TRP:CE3	1:A:927:GLN:C	2.58	0.77
1:A:633:THR:CG2	1:A:643:TYR:HA	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:463:LEU:HB3	1:B:467:PHE:CD2	2.20	0.77
1:C:1169:ILE:HD11	1:C:1172:CYS:HB2	1.67	0.77
1:D:443:ILE:HG21	1:D:477:ASN:HD22	1.48	0.77
1:D:1169:ILE:HD11	1:D:1172:CYS:HB2	1.67	0.77
1:E:157:LYS:NZ	2:E:1501:DTP:O3B	2.17	0.77
1:F:633:THR:CG2	1:F:643:TYR:HA	2.15	0.77
1:G:508:TRP:CE3	1:G:927:GLN:C	2.58	0.77
1:I:403:ASN:ND2	1:J:333:ASP:OD2	2.17	0.77
1:I:548:LYS:HZ2	1:I:601:GLN:CA	1.97	0.77
1:J:157:LYS:NZ	2:J:1501:DTP:O3B	2.17	0.77
1:J:402:VAL:O	1:J:406:HIS:N	2.14	0.77
1:K:313:PRO:CG	1:K:338:TRP:CZ2	2.68	0.77
1:K:313:PRO:CG	1:K:338:TRP:HZ2	1.98	0.77
1:K:633:THR:CG2	1:K:643:TYR:HA	2.15	0.77
1:K:1169:ILE:HD11	1:K:1172:CYS:HB2	1.67	0.77
1:M:1169:ILE:HD11	1:M:1172:CYS:HB2	1.67	0.77
1:B:915:TYR:CZ	1:B:916:LYS:HE3	2.20	0.76
1:D:313:PRO:CG	1:D:338:TRP:HZ2	1.98	0.76
1:D:633:THR:CG2	1:D:643:TYR:HA	2.15	0.76
1:G:127:ARG:HE	1:G:130:PRO:HG3	1.51	0.76
1:G:301:LEU:HD21	1:G:313:PRO:CG	2.14	0.76
1:G:633:THR:CG2	1:G:643:TYR:HA	2.15	0.76
1:I:548:LYS:HZ2	1:I:601:GLN:HA	1.48	0.76
1:I:633:THR:CG2	1:I:643:TYR:HA	2.15	0.76
1:L:1169:ILE:HD11	1:L:1172:CYS:HB2	1.67	0.76
1:M:463:LEU:HB3	1:M:467:PHE:CD2	2.20	0.76
1:M:633:THR:CG2	1:M:643:TYR:HA	2.15	0.76
1:N:508:TRP:CE3	1:N:927:GLN:C	2.58	0.76
1:P:313:PRO:CG	1:P:338:TRP:HZ2	1.98	0.76
1:P:633:THR:CG2	1:P:643:TYR:HA	2.15	0.76
1:A:1169:ILE:HD11	1:A:1172:CYS:HB2	1.67	0.76
1:C:633:THR:CG2	1:C:643:TYR:HA	2.15	0.76
1:D:508:TRP:CA	1:D:606:GLY:CA	2.48	0.76
1:E:301:LEU:HD21	1:E:313:PRO:CG	2.14	0.76
1:E:402:VAL:O	1:E:406:HIS:N	2.14	0.76
1:F:915:TYR:CZ	1:F:916:LYS:HE3	2.20	0.76
1:G:463:LEU:HB3	1:G:467:PHE:CD2	2.20	0.76
1:G:915:TYR:CZ	1:G:916:LYS:HE3	2.20	0.76
1:H:127:ARG:HE	1:H:130:PRO:HG3	1.51	0.76
1:H:440:HIS:O	1:H:444:VAL:N	2.14	0.76
1:H:633:THR:CG2	1:H:643:TYR:HA	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:560:ASP:HA	1:J:592:ASN:HD21	1.50	0.76
1:L:301:LEU:HD21	1:L:313:PRO:CG	2.14	0.76
1:L:633:THR:CG2	1:L:643:TYR:HA	2.15	0.76
1:P:301:LEU:HD21	1:P:313:PRO:CG	2.14	0.76
1:P:463:LEU:HB3	1:P:467:PHE:CD2	2.20	0.76
1:B:157:LYS:NZ	2:B:1501:DTP:O3B	2.17	0.76
1:B:313:PRO:CG	1:B:338:TRP:HZ2	1.98	0.76
1:B:548:LYS:HZ2	1:B:601:GLN:CA	1.98	0.76
1:C:443:ILE:HG21	1:C:477:ASN:HD22	1.48	0.76
1:D:127:ARG:HE	1:D:130:PRO:HG3	1.51	0.76
1:E:458:LEU:HD23	1:E:459:ILE:H	1.49	0.76
1:E:560:ASP:HA	1:E:592:ASN:HD21	1.50	0.76
1:H:915:TYR:CZ	1:H:916:LYS:HE3	2.20	0.76
1:J:548:LYS:HZ2	1:J:601:GLN:HA	1.51	0.76
1:L:463:LEU:HB3	1:L:467:PHE:CD2	2.20	0.76
1:M:313:PRO:CG	1:M:338:TRP:HZ2	1.98	0.76
1:N:127:ARG:HE	1:N:130:PRO:HG3	1.51	0.76
1:N:1169:ILE:HD11	1:N:1172:CYS:HB2	1.67	0.76
1:O:127:ARG:HE	1:O:130:PRO:HG3	1.51	0.76
1:O:633:THR:CG2	1:O:643:TYR:HA	2.15	0.76
1:O:915:TYR:CZ	1:O:916:LYS:HE3	2.20	0.76
1:P:187:ASN:HA	1:P:249:ASN:HD21	1.49	0.76
1:P:508:TRP:CA	1:P:606:GLY:CA	2.48	0.76
1:P:915:TYR:CZ	1:P:916:LYS:HE3	2.20	0.76
1:A:127:ARG:HE	1:A:130:PRO:HG3	1.51	0.76
1:A:915:TYR:CZ	1:A:916:LYS:HE3	2.20	0.76
1:C:425:ILE:O	1:C:429:LEU:N	2.15	0.76
1:C:463:LEU:HB3	1:C:467:PHE:CD2	2.20	0.76
1:D:301:LEU:HD21	1:D:313:PRO:CG	2.14	0.76
1:E:548:LYS:HZ2	1:E:601:GLN:HA	1.51	0.76
1:G:313:PRO:CG	1:G:338:TRP:HZ2	1.98	0.76
1:G:508:TRP:CA	1:G:606:GLY:CA	2.48	0.76
1:H:313:PRO:CG	1:H:338:TRP:HZ2	1.98	0.76
1:J:301:LEU:HD21	1:J:313:PRO:CG	2.14	0.76
1:K:301:LEU:HD21	1:K:313:PRO:CG	2.14	0.76
1:K:508:TRP:CE3	1:K:927:GLN:C	2.58	0.76
1:M:157:LYS:NZ	2:M:1501:DTP:O3B	2.17	0.76
1:M:508:TRP:HE3	1:M:927:GLN:O	1.65	0.76
1:N:403:ASN:ND2	1:O:333:ASP:OD2	2.18	0.76
1:N:915:TYR:CZ	1:N:916:LYS:HE3	2.20	0.76
1:O:313:PRO:CG	1:O:338:TRP:HZ2	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:LEU:HD12	1:O:518:LEU:H	1.51	0.76
1:P:127:ARG:HE	1:P:130:PRO:HG3	1.51	0.76
1:A:463:LEU:HB3	1:A:467:PHE:CD2	2.20	0.76
1:C:373:SER:OG	1:C:433:LEU:HD12	1.84	0.76
1:C:560:ASP:HA	1:C:592:ASN:HD21	1.50	0.76
1:E:313:PRO:CG	1:E:338:TRP:CZ2	2.68	0.76
1:E:1169:ILE:HD11	1:E:1172:CYS:HB2	1.67	0.76
1:F:122:LYS:HG3	1:G:276:SER:HB2	1.66	0.76
1:F:313:PRO:CG	1:F:338:TRP:CZ2	2.67	0.76
1:F:373:SER:OG	1:F:433:LEU:HD12	1.84	0.76
1:G:187:ASN:HA	1:G:249:ASN:HD21	1.49	0.76
1:H:187:ASN:HA	1:H:249:ASN:HD21	1.49	0.76
1:H:518:LEU:H	1:H:518:LEU:HD12	1.51	0.76
1:I:915:TYR:CZ	1:I:916:LYS:HE3	2.20	0.76
1:J:313:PRO:CG	1:J:338:TRP:CZ2	2.68	0.76
1:J:1169:ILE:HD11	1:J:1172:CYS:HB2	1.67	0.76
1:K:127:ARG:HE	1:K:130:PRO:HG3	1.51	0.76
1:K:508:TRP:CA	1:K:606:GLY:CA	2.48	0.76
1:N:463:LEU:HB3	1:N:467:PHE:CD2	2.20	0.76
1:O:187:ASN:HA	1:O:249:ASN:HD21	1.49	0.76
1:B:508:TRP:HE3	1:B:927:GLN:O	1.65	0.76
1:D:187:ASN:HA	1:D:249:ASN:HD21	1.49	0.76
1:F:508:TRP:CE3	1:F:927:GLN:C	2.58	0.76
1:I:463:LEU:HB3	1:I:467:PHE:CD2	2.20	0.76
1:L:127:ARG:HE	1:L:130:PRO:HG3	1.51	0.76
1:P:508:TRP:CE3	1:P:927:GLN:C	2.58	0.76
1:B:560:ASP:HA	1:B:592:ASN:HD21	1.50	0.76
1:C:127:ARG:HE	1:C:130:PRO:HG3	1.51	0.76
1:E:548:LYS:HZ2	1:E:601:GLN:CA	1.99	0.76
1:F:127:ARG:HE	1:F:130:PRO:HG3	1.51	0.76
1:F:313:PRO:CG	1:F:338:TRP:HZ2	1.98	0.76
1:I:508:TRP:CE3	1:I:927:GLN:C	2.58	0.76
1:J:458:LEU:HD23	1:J:459:ILE:H	1.50	0.76
1:J:548:LYS:HZ2	1:J:601:GLN:CA	1.99	0.76
1:J:633:THR:CG2	1:J:643:TYR:HA	2.15	0.76
1:K:276:SER:CB	1:L:121:ALA:HB1	2.12	0.76
1:K:458:LEU:HD23	1:K:459:ILE:H	1.49	0.76
1:D:458:LEU:HD23	1:D:459:ILE:H	1.50	0.76
1:E:633:THR:CG2	1:E:643:TYR:HA	2.15	0.76
1:G:518:LEU:HD12	1:G:518:LEU:H	1.51	0.76
1:H:560:ASP:HA	1:H:592:ASN:HD21	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:425:ILE:O	1:L:429:LEU:N	2.15	0.76
1:M:560:ASP:HA	1:M:592:ASN:HD21	1.50	0.76
1:P:518:LEU:H	1:P:518:LEU:HD12	1.51	0.76
1:P:560:ASP:HA	1:P:592:ASN:HD21	1.50	0.76
1:A:560:ASP:HA	1:A:592:ASN:HD21	1.50	0.76
1:B:20:GLU:O	1:B:24:VAL:N	2.16	0.76
1:E:373:SER:OG	1:E:433:LEU:HD12	1.84	0.76
1:G:560:ASP:HA	1:G:592:ASN:HD21	1.50	0.76
1:H:508:TRP:CA	1:H:606:GLY:CA	2.48	0.76
1:I:127:ARG:HE	1:I:130:PRO:HG3	1.51	0.76
1:I:313:PRO:CG	1:I:338:TRP:CZ2	2.68	0.76
1:J:373:SER:OG	1:J:433:LEU:HD12	1.84	0.76
1:K:187:ASN:HA	1:K:249:ASN:HD21	1.49	0.76
1:L:373:SER:OG	1:L:433:LEU:HD12	1.84	0.76
1:M:20:GLU:O	1:M:24:VAL:N	2.16	0.76
1:F:463:LEU:HB3	1:F:467:PHE:CD2	2.20	0.76
1:F:545:PHE:HA	1:F:548:LYS:HB2	1.68	0.76
1:K:463:LEU:HB3	1:K:467:PHE:CD2	2.20	0.76
1:L:560:ASP:HA	1:L:592:ASN:HD21	1.50	0.76
1:M:373:SER:OG	1:M:433:LEU:HD12	1.84	0.76
1:P:545:PHE:HA	1:P:548:LYS:HB2	1.68	0.76
1:D:463:LEU:HB3	1:D:467:PHE:CD2	2.20	0.75
1:D:545:PHE:HA	1:D:548:LYS:HB2	1.68	0.75
1:D:560:ASP:HA	1:D:592:ASN:HD21	1.50	0.75
1:E:20:GLU:O	1:E:24:VAL:N	2.16	0.75
1:F:560:ASP:HA	1:F:592:ASN:HD21	1.50	0.75
1:G:333:ASP:OD2	1:H:403:ASN:ND2	2.19	0.75
1:H:508:TRP:CE3	1:H:927:GLN:C	2.58	0.75
1:H:1169:ILE:HD11	1:H:1172:CYS:HB2	1.67	0.75
1:I:373:SER:OG	1:I:433:LEU:HD12	1.84	0.75
1:M:127:ARG:HE	1:M:130:PRO:HG3	1.51	0.75
1:N:146:ASN:HD22	1:N:280:THR:HG22	1.51	0.75
1:N:560:ASP:HA	1:N:592:ASN:HD21	1.50	0.75
1:O:508:TRP:CE3	1:O:927:GLN:C	2.58	0.75
1:O:560:ASP:HA	1:O:592:ASN:HD21	1.50	0.75
1:B:127:ARG:HE	1:B:130:PRO:HG3	1.51	0.75
1:G:545:PHE:HA	1:G:548:LYS:HB2	1.69	0.75
1:I:333:ASP:OD2	1:P:403:ASN:ND2	2.18	0.75
1:I:545:PHE:HA	1:I:548:LYS:HB2	1.68	0.75
1:N:518:LEU:H	1:N:518:LEU:HD12	1.51	0.75
1:A:146:ASN:HD22	1:A:280:THR:HG22	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:373:SER:OG	1:B:433:LEU:HD12	1.84	0.75
1:E:545:PHE:HA	1:E:548:LYS:HB2	1.69	0.75
1:I:560:ASP:HA	1:I:592:ASN:HD21	1.50	0.75
1:J:127:ARG:HE	1:J:130:PRO:HG3	1.51	0.75
1:K:545:PHE:HA	1:K:548:LYS:HB2	1.69	0.75
1:O:402:VAL:O	1:O:406:HIS:N	2.14	0.75
1:O:1169:ILE:HD11	1:O:1172:CYS:HB2	1.67	0.75
1:E:508:TRP:CE3	1:E:927:GLN:C	2.58	0.75
1:I:402:VAL:O	1:I:406:HIS:N	2.14	0.75
1:J:545:PHE:HA	1:J:548:LYS:HB2	1.69	0.75
1:K:373:SER:OG	1:K:433:LEU:HD12	1.84	0.75
1:L:545:PHE:HA	1:L:548:LYS:HB2	1.68	0.75
1:O:146:ASN:HD22	1:O:280:THR:HG22	1.51	0.75
1:O:508:TRP:CA	1:O:606:GLY:CA	2.48	0.75
1:C:548:LYS:NZ	1:C:601:GLN:HA	2.01	0.75
1:H:146:ASN:HD22	1:H:280:THR:HG22	1.51	0.75
1:H:463:LEU:HB3	1:H:467:PHE:CD2	2.20	0.75
1:J:20:GLU:O	1:J:24:VAL:N	2.16	0.75
1:K:560:ASP:HA	1:K:592:ASN:HD21	1.50	0.75
1:N:313:PRO:CG	1:N:338:TRP:HZ2	1.98	0.75
1:O:463:LEU:HB3	1:O:467:PHE:CD2	2.20	0.75
1:A:518:LEU:H	1:A:518:LEU:HD12	1.51	0.75
1:B:146:ASN:HD22	1:B:280:THR:HG22	1.51	0.75
1:D:548:LYS:NZ	1:D:601:GLN:HA	2.01	0.75
1:F:1169:ILE:HD11	1:F:1172:CYS:HB2	1.67	0.75
1:H:402:VAL:O	1:H:406:HIS:N	2.14	0.75
1:H:545:PHE:HA	1:H:548:LYS:HB2	1.69	0.75
1:J:508:TRP:CE3	1:J:927:GLN:C	2.58	0.75
1:M:146:ASN:HD22	1:M:280:THR:HG22	1.51	0.75
1:M:545:PHE:HA	1:M:548:LYS:HB2	1.69	0.75
1:O:545:PHE:HA	1:O:548:LYS:HB2	1.69	0.75
1:A:313:PRO:CG	1:A:338:TRP:HZ2	1.98	0.75
1:B:545:PHE:HA	1:B:548:LYS:HB2	1.69	0.75
1:C:545:PHE:HA	1:C:548:LYS:HB2	1.69	0.75
1:D:373:SER:OG	1:D:433:LEU:HD12	1.84	0.75
1:E:463:LEU:HB3	1:E:467:PHE:CD2	2.20	0.75
1:I:1169:ILE:HD11	1:I:1172:CYS:HB2	1.67	0.75
1:J:463:LEU:HB3	1:J:467:PHE:CD2	2.20	0.75
1:L:508:TRP:HE3	1:L:927:GLN:O	1.65	0.75
1:B:548:LYS:NZ	1:B:601:GLN:HA	2.01	0.75
1:D:505:SER:OG	1:D:513:SER:OG	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:548:LYS:HA	1:D:602:ILE:O	1.87	0.75
1:E:127:ARG:HE	1:E:130:PRO:HG3	1.51	0.75
1:F:518:LEU:H	1:F:518:LEU:HD12	1.51	0.75
1:K:403:ASN:ND2	1:L:333:ASP:OD2	2.20	0.75
1:K:548:LYS:HA	1:K:602:ILE:O	1.87	0.75
1:K:548:LYS:NZ	1:K:601:GLN:HA	2.01	0.75
1:L:313:PRO:CG	1:L:338:TRP:HZ2	1.98	0.74
1:M:548:LYS:NZ	1:M:601:GLN:HA	2.01	0.74
1:A:545:PHE:HA	1:A:548:LYS:HB2	1.68	0.74
1:E:548:LYS:NZ	1:E:601:GLN:HA	2.01	0.74
1:I:902:ILE:HD13	1:I:930:HIS:HE1	1.52	0.74
1:J:902:ILE:HD13	1:J:930:HIS:HE1	1.53	0.74
1:K:505:SER:OG	1:K:513:SER:OG	2.05	0.74
1:L:548:LYS:NZ	1:L:601:GLN:HA	2.01	0.74
1:O:548:LYS:NZ	1:O:601:GLN:HA	2.01	0.74
1:P:146:ASN:HD22	1:P:280:THR:HG22	1.51	0.74
1:C:313:PRO:CG	1:C:338:TRP:HZ2	1.98	0.74
1:E:119:VAL:HG23	1:E:120:PHE:H	1.53	0.74
1:E:902:ILE:HD13	1:E:930:HIS:HE1	1.53	0.74
1:G:146:ASN:HD22	1:G:280:THR:HG22	1.51	0.74
1:G:492:LEU:HD23	1:G:562:LEU:CD2	2.17	0.74
1:H:548:LYS:NZ	1:H:601:GLN:HA	2.01	0.74
1:J:548:LYS:NZ	1:J:601:GLN:HA	2.01	0.74
1:L:548:LYS:HZ2	1:L:601:GLN:HA	1.52	0.74
1:C:508:TRP:HE3	1:C:927:GLN:O	1.65	0.74
1:C:548:LYS:HZ2	1:C:601:GLN:HA	1.52	0.74
1:F:902:ILE:HD13	1:F:930:HIS:HE1	1.53	0.74
1:J:119:VAL:HG23	1:J:120:PHE:H	1.53	0.74
1:L:146:ASN:HD22	1:L:280:THR:HG22	1.51	0.74
1:N:545:PHE:HA	1:N:548:LYS:HB2	1.68	0.74
1:P:492:LEU:HD23	1:P:562:LEU:CD2	2.17	0.74
1:D:333:ASP:OD2	1:E:403:ASN:ND2	2.21	0.74
1:D:548:LYS:HZ2	1:D:601:GLN:HA	1.52	0.74
1:F:207:TRP:CD1	1:F:227:GLU:OE2	2.41	0.74
1:I:207:TRP:CD1	1:I:227:GLU:OE2	2.41	0.74
1:K:548:LYS:HZ2	1:K:601:GLN:HA	1.52	0.74
1:C:492:LEU:HD23	1:C:562:LEU:CD2	2.17	0.74
1:F:548:LYS:NZ	1:F:601:GLN:HA	2.01	0.74
1:G:207:TRP:CD1	1:G:227:GLU:OE2	2.41	0.74
1:G:1169:ILE:HD11	1:G:1172:CYS:HB2	1.67	0.74
1:I:518:LEU:H	1:I:518:LEU:HD12	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:518:LEU:HD12	1:J:518:LEU:H	1.51	0.74
1:M:548:LYS:HA	1:M:602:ILE:O	1.87	0.74
1:P:1169:ILE:HD11	1:P:1172:CYS:HB2	1.67	0.74
1:B:548:LYS:HA	1:B:602:ILE:O	1.87	0.74
1:D:146:ASN:HD22	1:D:280:THR:HG22	1.51	0.74
1:F:548:LYS:HA	1:F:602:ILE:O	1.87	0.74
1:H:207:TRP:CD1	1:H:227:GLU:OE2	2.41	0.74
1:L:492:LEU:HD23	1:L:562:LEU:CD2	2.17	0.74
1:L:548:LYS:HZ2	1:L:601:GLN:CA	2.00	0.74
1:M:207:TRP:CD1	1:M:227:GLU:OE2	2.41	0.74
1:O:207:TRP:CD1	1:O:227:GLU:OE2	2.41	0.74
1:O:492:LEU:HD23	1:O:562:LEU:CD2	2.17	0.74
1:P:207:TRP:CD1	1:P:227:GLU:OE2	2.41	0.74
1:P:902:ILE:HD13	1:P:930:HIS:HE1	1.53	0.74
1:A:902:ILE:HD13	1:A:930:HIS:HE1	1.52	0.74
1:B:207:TRP:CD1	1:B:227:GLU:OE2	2.41	0.74
1:C:146:ASN:HD22	1:C:280:THR:HG22	1.51	0.74
1:C:548:LYS:HA	1:C:602:ILE:O	1.87	0.74
1:E:517:THR:HG23	1:E:518:LEU:HD12	1.70	0.74
1:G:119:VAL:HG23	1:G:120:PHE:H	1.53	0.74
1:G:902:ILE:HD13	1:G:930:HIS:HE1	1.53	0.74
1:H:492:LEU:HD23	1:H:562:LEU:CD2	2.17	0.74
1:H:517:THR:HG23	1:H:518:LEU:HD12	1.70	0.74
1:I:548:LYS:NZ	1:I:601:GLN:HA	2.01	0.74
1:J:517:THR:HG23	1:J:518:LEU:HD12	1.70	0.74
1:J:548:LYS:HA	1:J:602:ILE:O	1.87	0.74
1:K:146:ASN:HD22	1:K:280:THR:HG22	1.51	0.74
1:M:511:SER:C	1:M:513:SER:H	1.91	0.74
1:M:518:LEU:H	1:M:518:LEU:HD12	1.51	0.74
1:N:902:ILE:HD13	1:N:930:HIS:HE1	1.53	0.74
1:O:517:THR:HG23	1:O:518:LEU:HD12	1.70	0.74
1:O:902:ILE:HD13	1:O:930:HIS:HE1	1.52	0.74
1:B:518:LEU:HD12	1:B:518:LEU:H	1.51	0.74
1:D:902:ILE:HD13	1:D:930:HIS:HE1	1.52	0.74
1:H:119:VAL:HG23	1:H:120:PHE:H	1.52	0.74
1:I:517:THR:HG23	1:I:518:LEU:HD12	1.70	0.74
1:J:207:TRP:CD1	1:J:227:GLU:OE2	2.41	0.74
1:K:902:ILE:HD13	1:K:930:HIS:HE1	1.52	0.74
1:N:517:THR:HG23	1:N:518:LEU:HD12	1.70	0.74
1:P:119:VAL:HG23	1:P:120:PHE:H	1.53	0.74
1:P:511:SER:C	1:P:513:SER:H	1.91	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:THR:HG23	1:A:518:LEU:HD12	1.70	0.74
1:B:492:LEU:HD23	1:B:562:LEU:CD2	2.17	0.74
1:B:511:SER:C	1:B:513:SER:H	1.90	0.74
1:E:207:TRP:CD1	1:E:227:GLU:OE2	2.41	0.74
1:E:518:LEU:HD12	1:E:518:LEU:H	1.51	0.74
1:F:146:ASN:HD22	1:F:280:THR:HG22	1.51	0.74
1:H:902:ILE:HD13	1:H:930:HIS:HE1	1.52	0.74
1:L:39:ILE:HD11	1:L:76:PHE:HB2	1.70	0.74
1:L:511:SER:C	1:L:513:SER:H	1.91	0.74
1:A:119:VAL:HG23	1:A:120:PHE:H	1.52	0.73
1:A:548:LYS:NZ	1:A:601:GLN:HA	2.01	0.73
1:B:119:VAL:HG23	1:B:120:PHE:H	1.53	0.73
1:C:39:ILE:HD11	1:C:76:PHE:HB2	1.70	0.73
1:D:548:LYS:HZ2	1:D:601:GLN:CA	2.00	0.73
1:F:39:ILE:HD11	1:F:76:PHE:HB2	1.70	0.73
1:F:517:THR:HG23	1:F:518:LEU:HD12	1.70	0.73
1:I:548:LYS:HA	1:I:602:ILE:O	1.87	0.73
1:J:39:ILE:HD11	1:J:76:PHE:HB2	1.70	0.73
1:L:119:VAL:HG23	1:L:120:PHE:H	1.53	0.73
1:M:119:VAL:HG23	1:M:120:PHE:H	1.53	0.73
1:M:492:LEU:HD23	1:M:562:LEU:CD2	2.17	0.73
1:M:902:ILE:HD13	1:M:930:HIS:HE1	1.52	0.73
1:N:119:VAL:HG23	1:N:120:PHE:H	1.53	0.73
1:O:119:VAL:HG23	1:O:120:PHE:H	1.53	0.73
1:O:511:SER:C	1:O:513:SER:H	1.91	0.73
1:A:492:LEU:HD23	1:A:562:LEU:CD2	2.17	0.73
1:C:207:TRP:CD1	1:C:227:GLU:OE2	2.41	0.73
1:C:511:SER:C	1:C:513:SER:H	1.91	0.73
1:E:548:LYS:HA	1:E:602:ILE:O	1.87	0.73
1:G:511:SER:C	1:G:513:SER:H	1.91	0.73
1:G:548:LYS:NZ	1:G:601:GLN:HA	2.01	0.73
1:I:39:ILE:HD11	1:I:76:PHE:HB2	1.70	0.73
1:I:511:SER:C	1:I:513:SER:H	1.91	0.73
1:K:518:LEU:H	1:K:518:LEU:HD12	1.51	0.73
1:L:207:TRP:CD1	1:L:227:GLU:OE2	2.41	0.73
1:P:548:LYS:NZ	1:P:601:GLN:HA	2.01	0.73
1:B:902:ILE:HD13	1:B:930:HIS:HE1	1.53	0.73
1:C:548:LYS:HZ2	1:C:601:GLN:CA	2.00	0.73
1:D:39:ILE:HD11	1:D:76:PHE:HB2	1.70	0.73
1:D:517:THR:HG23	1:D:518:LEU:HD12	1.70	0.73
1:I:146:ASN:HD22	1:I:280:THR:HG22	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:TRP:CD1	1:K:227:GLU:OE2	2.41	0.73
1:N:492:LEU:HD23	1:N:562:LEU:CD2	2.17	0.73
1:B:545:PHE:O	1:B:549:ILE:N	2.13	0.73
1:C:119:VAL:HG23	1:C:120:PHE:H	1.52	0.73
1:D:207:TRP:CD1	1:D:227:GLU:OE2	2.41	0.73
1:E:39:ILE:HD11	1:E:76:PHE:HB2	1.70	0.73
1:E:492:LEU:HD23	1:E:562:LEU:CD2	2.17	0.73
1:F:53:ASP:OD1	1:F:54:ALA:N	2.22	0.73
1:F:119:VAL:HG23	1:F:120:PHE:H	1.52	0.73
1:G:517:THR:HG23	1:G:518:LEU:HD12	1.70	0.73
1:I:53:ASP:OD1	1:I:54:ALA:N	2.22	0.73
1:I:492:LEU:HD23	1:I:562:LEU:CD2	2.17	0.73
1:K:119:VAL:HG23	1:K:120:PHE:H	1.52	0.73
1:K:517:THR:HG23	1:K:518:LEU:HD12	1.70	0.73
1:K:548:LYS:HZ2	1:K:601:GLN:CA	2.00	0.73
1:L:902:ILE:HD13	1:L:930:HIS:HE1	1.52	0.73
1:N:511:SER:C	1:N:513:SER:H	1.91	0.73
1:N:548:LYS:NZ	1:N:601:GLN:HA	2.01	0.73
1:P:517:THR:HG23	1:P:518:LEU:HD12	1.70	0.73
1:C:902:ILE:HD13	1:C:930:HIS:HE1	1.53	0.73
1:D:492:LEU:HD23	1:D:562:LEU:CD2	2.17	0.73
1:E:53:ASP:OD1	1:E:54:ALA:N	2.22	0.73
1:F:511:SER:C	1:F:513:SER:H	1.91	0.73
1:J:492:LEU:HD23	1:J:562:LEU:CD2	2.17	0.73
1:K:492:LEU:HD23	1:K:562:LEU:CD2	2.17	0.73
1:M:517:THR:HG23	1:M:518:LEU:HD12	1.70	0.73
1:N:207:TRP:CD1	1:N:227:GLU:OE2	2.41	0.73
1:D:518:LEU:HD12	1:D:518:LEU:H	1.51	0.73
1:E:146:ASN:HD22	1:E:280:THR:HG22	1.51	0.73
1:G:383:THR:H	1:G:419:THR:HA	1.54	0.73
1:H:511:SER:C	1:H:513:SER:H	1.91	0.73
1:K:39:ILE:HD11	1:K:76:PHE:HB2	1.70	0.73
1:K:521:LEU:HA	1:K:524:TYR:CD2	2.23	0.73
1:L:548:LYS:HA	1:L:602:ILE:O	1.87	0.73
1:P:383:THR:H	1:P:419:THR:HA	1.54	0.73
1:A:207:TRP:CD1	1:A:227:GLU:OE2	2.41	0.73
1:A:511:SER:C	1:A:513:SER:H	1.90	0.73
1:B:517:THR:HG23	1:B:518:LEU:HD12	1.70	0.73
1:C:517:THR:HG23	1:C:518:LEU:HD12	1.70	0.73
1:C:518:LEU:H	1:C:518:LEU:HD12	1.51	0.73
1:D:119:VAL:HG23	1:D:120:PHE:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:492:LEU:HD23	1:F:562:LEU:CD2	2.17	0.73
1:H:548:LYS:HA	1:H:602:ILE:O	1.87	0.73
1:J:53:ASP:OD1	1:J:54:ALA:N	2.22	0.73
1:P:53:ASP:OD1	1:P:54:ALA:N	2.22	0.73
1:D:521:LEU:HA	1:D:524:TYR:CD2	2.23	0.73
1:G:53:ASP:OD1	1:G:54:ALA:N	2.22	0.73
1:J:146:ASN:HD22	1:J:280:THR:HG22	1.51	0.73
1:L:517:THR:HG23	1:L:518:LEU:HD12	1.70	0.73
1:M:545:PHE:O	1:M:549:ILE:N	2.13	0.73
1:N:53:ASP:OD1	1:N:54:ALA:N	2.22	0.73
1:O:548:LYS:HA	1:O:602:ILE:O	1.87	0.73
1:G:39:ILE:HD11	1:G:76:PHE:HB2	1.70	0.73
1:I:119:VAL:HG23	1:I:120:PHE:H	1.53	0.73
1:J:511:SER:C	1:J:513:SER:H	1.91	0.73
1:K:511:SER:C	1:K:513:SER:H	1.91	0.73
1:O:53:ASP:OD1	1:O:54:ALA:N	2.22	0.73
1:P:39:ILE:HD11	1:P:76:PHE:HB2	1.70	0.73
1:P:548:LYS:HA	1:P:602:ILE:O	1.87	0.73
1:A:14:ASP:OD2	1:B:142:ARG:NH1	2.21	0.73
1:A:53:ASP:OD1	1:A:54:ALA:N	2.22	0.73
1:A:548:LYS:HA	1:A:602:ILE:O	1.87	0.73
1:C:521:LEU:HA	1:C:524:TYR:CD2	2.23	0.73
1:D:511:SER:C	1:D:513:SER:H	1.91	0.73
1:H:53:ASP:OD1	1:H:54:ALA:N	2.22	0.73
1:L:518:LEU:HD12	1:L:518:LEU:H	1.51	0.73
1:D:545:PHE:O	1:D:549:ILE:N	2.13	0.72
1:F:14:ASP:CG	1:G:142:ARG:HH12	1.92	0.72
1:G:548:LYS:HA	1:G:602:ILE:O	1.87	0.72
1:K:545:PHE:O	1:K:549:ILE:N	2.13	0.72
1:L:403:ASN:ND2	1:M:333:ASP:OD2	2.21	0.72
1:B:383:THR:H	1:B:419:THR:HA	1.54	0.72
1:D:53:ASP:OD1	1:D:54:ALA:N	2.22	0.72
1:H:502:ARG:NH2	1:H:519:GLN:OE1	2.22	0.72
1:L:521:LEU:HA	1:L:524:TYR:CD2	2.23	0.72
1:N:383:THR:H	1:N:419:THR:HA	1.54	0.72
1:O:502:ARG:NH2	1:O:519:GLN:OE1	2.22	0.72
1:P:521:LEU:HA	1:P:524:TYR:CD2	2.23	0.72
1:A:458:LEU:HG	1:A:587:ARG:NH2	2.05	0.72
1:A:521:LEU:HA	1:A:524:TYR:CD2	2.23	0.72
1:E:511:SER:C	1:E:513:SER:H	1.91	0.72
1:G:521:LEU:HA	1:G:524:TYR:CD2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:39:ILE:HD11	1:H:76:PHE:HB2	1.70	0.72
1:K:53:ASP:OD1	1:K:54:ALA:N	2.22	0.72
1:M:383:THR:H	1:M:419:THR:HA	1.54	0.72
1:N:458:LEU:HG	1:N:587:ARG:NH2	2.05	0.72
1:N:548:LYS:HA	1:N:602:ILE:O	1.87	0.72
1:A:39:ILE:HD11	1:A:76:PHE:HB2	1.70	0.72
1:B:39:ILE:HD11	1:B:76:PHE:HB2	1.70	0.72
1:B:521:LEU:HA	1:B:524:TYR:CD2	2.23	0.72
1:H:521:LEU:HA	1:H:524:TYR:CD2	2.23	0.72
1:I:502:ARG:NH2	1:I:519:GLN:OE1	2.22	0.72
1:J:521:LEU:HA	1:J:524:TYR:CD2	2.23	0.72
1:M:39:ILE:HD11	1:M:76:PHE:HB2	1.70	0.72
1:M:53:ASP:OD1	1:M:54:ALA:N	2.22	0.72
1:N:39:ILE:HD11	1:N:76:PHE:HB2	1.70	0.72
1:A:383:THR:H	1:A:419:THR:HA	1.54	0.72
1:B:53:ASP:OD1	1:B:54:ALA:N	2.22	0.72
1:D:383:THR:H	1:D:419:THR:HA	1.54	0.72
1:E:502:ARG:NH2	1:E:519:GLN:OE1	2.22	0.72
1:F:502:ARG:NH2	1:F:519:GLN:OE1	2.22	0.72
1:F:544:ASP:OD1	1:F:545:PHE:N	2.23	0.72
1:I:544:ASP:OD1	1:I:545:PHE:N	2.23	0.72
1:J:502:ARG:NH2	1:J:519:GLN:OE1	2.22	0.72
1:M:521:LEU:HA	1:M:524:TYR:CD2	2.23	0.72
1:O:521:LEU:HA	1:O:524:TYR:CD2	2.23	0.72
1:E:521:LEU:HA	1:E:524:TYR:CD2	2.23	0.72
1:H:383:THR:H	1:H:419:THR:HA	1.54	0.72
1:N:521:LEU:HA	1:N:524:TYR:CD2	2.23	0.72
1:O:39:ILE:HD11	1:O:76:PHE:HB2	1.70	0.72
1:B:513:SER:HB3	1:B:514:ILE:HD12	1.72	0.72
1:C:458:LEU:HG	1:C:587:ARG:NH2	2.05	0.72
1:C:502:ARG:NH2	1:C:519:GLN:OE1	2.22	0.72
1:C:544:ASP:OD1	1:C:545:PHE:N	2.23	0.72
1:D:544:ASP:OD1	1:D:545:PHE:N	2.23	0.72
1:E:383:THR:H	1:E:419:THR:HA	1.54	0.72
1:F:521:LEU:HA	1:F:524:TYR:CD2	2.23	0.72
1:K:383:THR:H	1:K:419:THR:HA	1.54	0.72
1:K:544:ASP:OD1	1:K:545:PHE:N	2.23	0.72
1:L:458:LEU:HG	1:L:587:ARG:NH2	2.05	0.72
1:L:544:ASP:OD1	1:L:545:PHE:N	2.23	0.72
1:O:383:THR:H	1:O:419:THR:HA	1.54	0.72
1:P:502:ARG:NH2	1:P:519:GLN:OE1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:502:ARG:NH2	1:G:519:GLN:OE1	2.22	0.72
1:J:383:THR:H	1:J:419:THR:HA	1.54	0.72
1:K:502:ARG:NH2	1:K:519:GLN:OE1	2.22	0.72
1:M:513:SER:HB3	1:M:514:ILE:HD12	1.72	0.72
1:N:513:SER:HB3	1:N:514:ILE:HD12	1.72	0.72
1:O:544:ASP:OD1	1:O:545:PHE:N	2.23	0.72
1:C:53:ASP:OD1	1:C:54:ALA:N	2.22	0.72
1:D:121:ALA:CB	1:E:276:SER:HB3	2.08	0.72
1:D:502:ARG:NH2	1:D:519:GLN:OE1	2.22	0.72
1:G:547:PRO:CB	1:G:603:ILE:HG13	2.20	0.72
1:H:544:ASP:OD1	1:H:545:PHE:N	2.23	0.72
1:I:521:LEU:HA	1:I:524:TYR:CD2	2.23	0.72
1:L:53:ASP:OD1	1:L:54:ALA:N	2.22	0.72
1:L:502:ARG:NH2	1:L:519:GLN:OE1	2.22	0.72
1:A:513:SER:HB3	1:A:514:ILE:HD12	1.72	0.71
1:B:544:ASP:OD1	1:B:545:PHE:N	2.23	0.71
1:C:383:THR:H	1:C:419:THR:HA	1.54	0.71
1:D:458:LEU:HG	1:D:587:ARG:NH2	2.05	0.71
1:G:458:LEU:HG	1:G:587:ARG:NH2	2.05	0.71
1:I:121:ALA:HB1	1:P:276:SER:CB	2.12	0.71
1:I:636:SER:O	1:I:637:LEU:C	2.29	0.71
1:J:207:TRP:NE1	1:J:227:GLU:OE1	2.23	0.71
1:P:547:PRO:CB	1:P:603:ILE:HG13	2.20	0.71
1:E:207:TRP:NE1	1:E:227:GLU:OE1	2.23	0.71
1:M:544:ASP:OD1	1:M:545:PHE:N	2.23	0.71
1:P:458:LEU:HG	1:P:587:ARG:NH2	2.05	0.71
1:A:502:ARG:NH2	1:A:519:GLN:OE1	2.22	0.71
1:F:458:LEU:HG	1:F:587:ARG:NH2	2.05	0.71
1:F:636:SER:O	1:F:637:LEU:C	2.29	0.71
1:K:458:LEU:HG	1:K:587:ARG:NH2	2.05	0.71
1:M:502:ARG:NH2	1:M:519:GLN:OE1	2.22	0.71
1:O:458:LEU:HG	1:O:587:ARG:NH2	2.05	0.71
1:B:502:ARG:NH2	1:B:519:GLN:OE1	2.22	0.71
1:L:383:THR:H	1:L:419:THR:HA	1.54	0.71
1:N:547:PRO:CB	1:N:603:ILE:HG13	2.20	0.71
1:D:1149:LEU:H	1:D:1196:ALA:HB2	1.56	0.71
1:F:248:GLN:OE1	1:F:268:PHE:CZ	2.44	0.71
1:H:458:LEU:HG	1:H:587:ARG:NH2	2.05	0.71
1:I:458:LEU:HG	1:I:587:ARG:NH2	2.05	0.71
1:K:1149:LEU:H	1:K:1196:ALA:HB2	1.56	0.71
1:M:458:LEU:HG	1:M:587:ARG:NH2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:502:ARG:NH2	1:N:519:GLN:OE1	2.22	0.71
1:B:458:LEU:HG	1:B:587:ARG:NH2	2.05	0.71
1:G:544:ASP:OD1	1:G:545:PHE:N	2.23	0.71
1:I:248:GLN:OE1	1:I:268:PHE:CZ	2.43	0.71
1:L:207:TRP:HD1	1:L:227:GLU:OE2	1.74	0.71
1:L:284:SER:OG	1:L:286:ASP:OD1	2.09	0.71
1:O:284:SER:OG	1:O:286:ASP:OD1	2.09	0.71
1:C:207:TRP:HD1	1:C:227:GLU:OE2	1.74	0.71
1:C:1149:LEU:H	1:C:1196:ALA:HB2	1.56	0.71
1:D:513:SER:HB3	1:D:514:ILE:HD12	1.72	0.71
1:E:636:SER:O	1:E:637:LEU:C	2.29	0.71
1:G:248:GLN:OE1	1:G:268:PHE:CZ	2.43	0.71
1:H:284:SER:OG	1:H:286:ASP:OD1	2.09	0.71
1:J:636:SER:O	1:J:637:LEU:C	2.29	0.71
1:K:207:TRP:NE1	1:K:227:GLU:OE1	2.23	0.71
1:C:284:SER:OG	1:C:286:ASP:OD1	2.09	0.71
1:D:207:TRP:NE1	1:D:227:GLU:OE1	2.23	0.71
1:E:121:ALA:CB	1:F:276:SER:HB3	2.05	0.71
1:E:284:SER:OG	1:E:286:ASP:OD1	2.09	0.71
1:J:544:ASP:OD1	1:J:545:PHE:N	2.23	0.71
1:L:1149:LEU:H	1:L:1196:ALA:HB2	1.56	0.71
1:M:101:MET:SD	1:M:104:ARG:NH2	2.64	0.71
1:P:248:GLN:OE1	1:P:268:PHE:CZ	2.44	0.71
1:P:463:LEU:HD22	1:P:467:PHE:HE2	1.55	0.71
1:P:544:ASP:OD1	1:P:545:PHE:N	2.23	0.71
1:B:101:MET:SD	1:B:104:ARG:NH2	2.64	0.71
1:E:547:PRO:CB	1:E:603:ILE:HG13	2.20	0.71
1:F:383:THR:H	1:F:419:THR:HA	1.54	0.71
1:G:389:ILE:CD1	1:G:446:HIS:CE1	2.70	0.71
1:H:547:PRO:CB	1:H:603:ILE:HG13	2.20	0.71
1:I:383:THR:H	1:I:419:THR:HA	1.54	0.71
1:J:284:SER:OG	1:J:286:ASP:OD1	2.09	0.71
1:L:207:TRP:NE1	1:L:227:GLU:OE1	2.23	0.71
1:P:389:ILE:CD1	1:P:446:HIS:CE1	2.70	0.71
1:P:1149:LEU:H	1:P:1196:ALA:HB2	1.56	0.71
1:C:207:TRP:NE1	1:C:227:GLU:OE1	2.23	0.71
1:E:544:ASP:OD1	1:E:545:PHE:N	2.23	0.71
1:G:284:SER:OG	1:G:286:ASP:OD1	2.09	0.71
1:G:463:LEU:HD22	1:G:467:PHE:HE2	1.55	0.71
1:G:1149:LEU:H	1:G:1196:ALA:HB2	1.56	0.71
1:H:513:SER:HB3	1:H:514:ILE:HD12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:284:SER:OG	1:I:286:ASP:OD1	2.09	0.71
1:J:101:MET:SD	1:J:104:ARG:NH2	2.64	0.71
1:J:248:GLN:OE1	1:J:268:PHE:CZ	2.43	0.71
1:J:276:SER:HB3	1:K:121:ALA:CB	2.09	0.71
1:J:547:PRO:CB	1:J:603:ILE:HG13	2.20	0.71
1:K:513:SER:HB3	1:K:514:ILE:HD12	1.72	0.71
1:N:544:ASP:OD1	1:N:545:PHE:N	2.23	0.71
1:O:547:PRO:CB	1:O:603:ILE:HG13	2.20	0.71
1:P:284:SER:OG	1:P:286:ASP:OD1	2.09	0.71
1:P:513:SER:HB3	1:P:514:ILE:HD12	1.72	0.71
1:D:14:ASP:OD2	1:E:142:ARG:NH1	2.24	0.70
1:E:101:MET:SD	1:E:104:ARG:NH2	2.64	0.70
1:F:207:TRP:HD1	1:F:227:GLU:OE2	1.74	0.70
1:F:463:LEU:HD22	1:F:467:PHE:HE2	1.55	0.70
1:I:389:ILE:CD1	1:I:446:HIS:CE1	2.70	0.70
1:I:463:LEU:HD22	1:I:467:PHE:HE2	1.55	0.70
1:M:207:TRP:NE1	1:M:227:GLU:OE1	2.23	0.70
1:O:513:SER:HB3	1:O:514:ILE:HD12	1.72	0.70
1:A:544:ASP:OD1	1:A:545:PHE:N	2.23	0.70
1:B:207:TRP:NE1	1:B:227:GLU:OE1	2.23	0.70
1:D:248:GLN:OE1	1:D:268:PHE:CZ	2.43	0.70
1:E:248:GLN:OE1	1:E:268:PHE:CZ	2.44	0.70
1:E:1149:LEU:H	1:E:1196:ALA:HB2	1.56	0.70
1:F:284:SER:OG	1:F:286:ASP:OD1	2.09	0.70
1:G:101:MET:SD	1:G:104:ARG:NH2	2.64	0.70
1:G:513:SER:HB3	1:G:514:ILE:HD12	1.72	0.70
1:I:207:TRP:HD1	1:I:227:GLU:OE2	1.74	0.70
1:K:248:GLN:OE1	1:K:268:PHE:CZ	2.44	0.70
1:K:284:SER:OG	1:K:286:ASP:OD1	2.09	0.70
1:L:101:MET:SD	1:L:104:ARG:NH2	2.64	0.70
1:P:101:MET:SD	1:P:104:ARG:NH2	2.64	0.70
1:D:284:SER:OG	1:D:286:ASP:OD1	2.09	0.70
1:D:547:PRO:CB	1:D:603:ILE:HG13	2.20	0.70
1:K:547:PRO:CB	1:K:603:ILE:HG13	2.20	0.70
1:B:547:PRO:CB	1:B:603:ILE:HG13	2.20	0.70
1:C:101:MET:SD	1:C:104:ARG:NH2	2.64	0.70
1:C:547:PRO:CB	1:C:603:ILE:HG13	2.20	0.70
1:F:101:MET:SD	1:F:104:ARG:NH2	2.64	0.70
1:F:389:ILE:CD1	1:F:446:HIS:CE1	2.70	0.70
1:H:101:MET:SD	1:H:104:ARG:NH2	2.64	0.70
1:H:248:GLN:OE1	1:H:268:PHE:CZ	2.43	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:636:SER:O	1:H:637:LEU:C	2.29	0.70
1:I:101:MET:SD	1:I:104:ARG:NH2	2.64	0.70
1:J:207:TRP:HD1	1:J:227:GLU:OE2	1.74	0.70
1:J:1149:LEU:H	1:J:1196:ALA:HB2	1.56	0.70
1:L:636:SER:O	1:L:637:LEU:C	2.29	0.70
1:M:1149:LEU:H	1:M:1196:ALA:HB2	1.56	0.70
1:O:101:MET:SD	1:O:104:ARG:NH2	2.64	0.70
1:B:207:TRP:HD1	1:B:227:GLU:OE2	1.74	0.70
1:I:313:PRO:CG	1:I:338:TRP:HZ2	1.98	0.70
1:K:636:SER:O	1:K:637:LEU:C	2.29	0.70
1:L:547:PRO:CB	1:L:603:ILE:HG13	2.20	0.70
1:M:207:TRP:HD1	1:M:227:GLU:OE2	1.74	0.70
1:M:547:PRO:CB	1:M:603:ILE:HG13	2.20	0.70
1:O:636:SER:O	1:O:637:LEU:C	2.29	0.70
1:B:1149:LEU:H	1:B:1196:ALA:HB2	1.56	0.70
1:D:207:TRP:HD1	1:D:227:GLU:OE2	1.74	0.70
1:E:207:TRP:HD1	1:E:227:GLU:OE2	1.74	0.70
1:K:207:TRP:HD1	1:K:227:GLU:OE2	1.74	0.70
1:N:1149:LEU:H	1:N:1196:ALA:HB2	1.56	0.70
1:O:248:GLN:OE1	1:O:268:PHE:CZ	2.44	0.70
1:A:1149:LEU:H	1:A:1196:ALA:HB2	1.56	0.70
1:D:101:MET:SD	1:D:104:ARG:NH2	2.64	0.70
1:D:383:THR:HG23	1:D:419:THR:C	2.12	0.70
1:D:636:SER:O	1:D:637:LEU:C	2.29	0.70
1:G:636:SER:O	1:G:637:LEU:C	2.29	0.70
1:J:458:LEU:HG	1:J:587:ARG:NH2	2.05	0.70
1:K:101:MET:SD	1:K:104:ARG:NH2	2.64	0.70
1:K:383:THR:HG23	1:K:419:THR:C	2.12	0.70
1:N:248:GLN:OE1	1:N:268:PHE:CZ	2.43	0.70
1:O:207:TRP:HD1	1:O:227:GLU:OE2	1.74	0.70
1:P:636:SER:O	1:P:637:LEU:C	2.29	0.70
1:A:248:GLN:OE1	1:A:268:PHE:CZ	2.43	0.70
1:A:636:SER:O	1:A:637:LEU:C	2.29	0.70
1:B:284:SER:OG	1:B:286:ASP:OD1	2.09	0.70
1:E:383:THR:HG23	1:E:419:THR:C	2.12	0.70
1:E:513:SER:HB3	1:E:514:ILE:HD12	1.72	0.70
1:G:383:THR:HG23	1:G:419:THR:C	2.13	0.70
1:H:1149:LEU:H	1:H:1196:ALA:HB2	1.56	0.70
1:N:207:TRP:HD1	1:N:227:GLU:OE2	1.74	0.70
1:N:636:SER:O	1:N:637:LEU:C	2.29	0.70
1:P:383:THR:HG23	1:P:419:THR:C	2.12	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:TRP:HD1	1:A:227:GLU:OE2	1.74	0.70
1:C:513:SER:HB3	1:C:514:ILE:HD12	1.72	0.70
1:C:636:SER:O	1:C:637:LEU:C	2.29	0.70
1:E:458:LEU:HG	1:E:587:ARG:NH2	2.05	0.70
1:F:513:SER:HB3	1:F:514:ILE:HD12	1.72	0.70
1:H:207:TRP:HD1	1:H:227:GLU:OE2	1.74	0.70
1:I:513:SER:HB3	1:I:514:ILE:HD12	1.72	0.70
1:J:513:SER:HB3	1:J:514:ILE:HD12	1.72	0.70
1:L:383:THR:HG23	1:L:419:THR:C	2.12	0.70
1:L:513:SER:HB3	1:L:514:ILE:HD12	1.72	0.70
1:M:284:SER:OG	1:M:286:ASP:OD1	2.09	0.70
1:M:636:SER:O	1:M:637:LEU:C	2.29	0.70
1:N:284:SER:OG	1:N:286:ASP:OD1	2.09	0.70
1:O:389:ILE:CD1	1:O:446:HIS:CE1	2.70	0.70
1:B:636:SER:O	1:B:637:LEU:C	2.29	0.69
1:H:383:THR:HG23	1:H:419:THR:C	2.12	0.69
1:K:222:HIS:CD2	1:L:198:LYS:NZ	2.59	0.69
1:O:1149:LEU:H	1:O:1196:ALA:HB2	1.56	0.69
1:P:317:LEU:HD21	1:P:341:TRP:CZ2	2.27	0.69
1:B:317:LEU:HD21	1:B:341:TRP:CZ2	2.28	0.69
1:C:545:PHE:HZ	1:C:565:ALA:HA	1.57	0.69
1:G:317:LEU:HD21	1:G:341:TRP:CZ2	2.27	0.69
1:J:383:THR:HG23	1:J:419:THR:C	2.13	0.69
1:L:545:PHE:HZ	1:L:565:ALA:HA	1.57	0.69
1:M:317:LEU:HD21	1:M:341:TRP:CZ2	2.28	0.69
1:O:383:THR:HG23	1:O:419:THR:C	2.12	0.69
1:A:284:SER:OG	1:A:286:ASP:OD1	2.09	0.69
1:B:517:THR:O	1:B:518:LEU:C	2.30	0.69
1:F:505:SER:OG	1:F:513:SER:OG	2.05	0.69
1:H:389:ILE:CD1	1:H:446:HIS:CE1	2.70	0.69
1:I:1149:LEU:H	1:I:1196:ALA:HB2	1.56	0.69
1:M:517:THR:O	1:M:518:LEU:C	2.30	0.69
1:N:101:MET:SD	1:N:104:ARG:NH2	2.64	0.69
1:N:207:TRP:NE1	1:N:227:GLU:OE1	2.23	0.69
1:A:101:MET:SD	1:A:104:ARG:NH2	2.64	0.69
1:A:207:TRP:NE1	1:A:227:GLU:OE1	2.23	0.69
1:B:476:LYS:HA	1:B:483:ARG:HH12	1.58	0.69
1:B:505:SER:OG	1:B:513:SER:OG	2.05	0.69
1:C:383:THR:HG23	1:C:419:THR:C	2.12	0.69
1:D:279:THR:HG23	1:D:280:THR:HG23	1.74	0.69
1:E:279:THR:HG23	1:E:280:THR:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:547:PRO:CB	1:F:603:ILE:HG13	2.20	0.69
1:H:317:LEU:HD21	1:H:341:TRP:CZ2	2.27	0.69
1:I:383:THR:HG23	1:I:419:THR:C	2.12	0.69
1:K:279:THR:HG23	1:K:280:THR:HG23	1.74	0.69
1:M:476:LYS:HA	1:M:483:ARG:HH12	1.58	0.69
1:M:505:SER:OG	1:M:513:SER:OG	2.05	0.69
1:A:476:LYS:HA	1:A:483:ARG:HH12	1.58	0.69
1:C:476:LYS:HA	1:C:483:ARG:HH12	1.58	0.69
1:F:383:THR:HG23	1:F:419:THR:C	2.12	0.69
1:F:1149:LEU:H	1:F:1196:ALA:HB2	1.56	0.69
1:G:301:LEU:CD2	1:G:313:PRO:HG2	2.22	0.69
1:J:317:LEU:HD21	1:J:341:TRP:CZ2	2.27	0.69
1:K:463:LEU:HD22	1:K:467:PHE:HE2	1.54	0.69
1:N:476:LYS:HA	1:N:483:ARG:HH12	1.58	0.69
1:O:317:LEU:HD21	1:O:341:TRP:CZ2	2.27	0.69
1:A:383:THR:HG23	1:A:419:THR:C	2.12	0.69
1:D:517:THR:O	1:D:518:LEU:C	2.30	0.69
1:E:317:LEU:HD21	1:E:341:TRP:CZ2	2.28	0.69
1:F:301:LEU:CD2	1:F:313:PRO:HG2	2.22	0.69
1:L:301:LEU:CD2	1:L:313:PRO:HG2	2.22	0.69
1:P:301:LEU:CD2	1:P:313:PRO:HG2	2.22	0.69
1:D:916:LYS:CE	1:E:1177:TYR:HE2	2.06	0.69
1:H:476:LYS:HA	1:H:483:ARG:HH12	1.58	0.69
1:I:279:THR:HG23	1:I:280:THR:HG23	1.74	0.69
1:I:617:HIS:HE1	1:I:663:GLN:HB3	1.58	0.69
1:J:279:THR:HG23	1:J:280:THR:HG23	1.74	0.69
1:J:463:LEU:HD22	1:J:467:PHE:HE2	1.55	0.69
1:K:517:THR:O	1:K:518:LEU:C	2.30	0.69
1:N:317:LEU:HD21	1:N:341:TRP:CZ2	2.27	0.69
1:A:279:THR:HG23	1:A:280:THR:HG23	1.74	0.69
1:A:317:LEU:HD21	1:A:341:TRP:CZ2	2.27	0.69
1:A:517:THR:O	1:A:518:LEU:C	2.30	0.69
1:A:918:ILE:O	1:A:919:VAL:HG13	1.93	0.69
1:B:248:GLN:OE1	1:B:268:PHE:CZ	2.43	0.69
1:B:504:ASP:CB	1:B:509:ASN:O	2.41	0.69
1:C:317:LEU:HD21	1:C:341:TRP:CZ2	2.27	0.69
1:D:463:LEU:HD22	1:D:467:PHE:HE2	1.55	0.69
1:E:517:THR:O	1:E:518:LEU:C	2.30	0.69
1:E:617:HIS:HE1	1:E:663:GLN:HB3	1.58	0.69
1:F:279:THR:HG23	1:F:280:THR:HG23	1.74	0.69
1:F:617:HIS:HE1	1:F:663:GLN:HB3	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:918:ILE:O	1:G:919:VAL:HG13	1.93	0.69
1:I:301:LEU:CD2	1:I:313:PRO:HG2	2.22	0.69
1:J:517:THR:O	1:J:518:LEU:C	2.30	0.69
1:J:617:HIS:HE1	1:J:663:GLN:HB3	1.58	0.69
1:L:248:GLN:OE1	1:L:268:PHE:CZ	2.43	0.69
1:L:279:THR:HG23	1:L:280:THR:HG23	1.74	0.69
1:L:317:LEU:HD21	1:L:341:TRP:CZ2	2.27	0.69
1:L:476:LYS:HA	1:L:483:ARG:HH12	1.58	0.69
1:M:248:GLN:OE1	1:M:268:PHE:CZ	2.44	0.69
1:M:313:PRO:HG3	1:M:338:TRP:CZ2	2.28	0.69
1:M:504:ASP:CB	1:M:509:ASN:O	2.41	0.69
1:N:279:THR:HG23	1:N:280:THR:HG23	1.74	0.69
1:N:383:THR:HG23	1:N:419:THR:C	2.13	0.69
1:N:517:THR:O	1:N:518:LEU:C	2.30	0.69
1:N:918:ILE:O	1:N:919:VAL:HG13	1.93	0.69
1:O:476:LYS:HA	1:O:483:ARG:HH12	1.58	0.69
1:B:313:PRO:HG3	1:B:338:TRP:CZ2	2.28	0.69
1:D:317:LEU:HD21	1:D:341:TRP:CZ2	2.27	0.69
1:E:476:LYS:HA	1:E:483:ARG:HH12	1.58	0.69
1:H:301:LEU:CD2	1:H:313:PRO:HG2	2.22	0.69
1:I:508:TRP:HA	1:I:606:GLY:C	2.14	0.69
1:I:547:PRO:CB	1:I:603:ILE:HG13	2.20	0.69
1:J:389:ILE:CD1	1:J:446:HIS:CE1	2.70	0.69
1:J:476:LYS:HA	1:J:483:ARG:HH12	1.58	0.69
1:J:545:PHE:HZ	1:J:565:ALA:HA	1.57	0.69
1:K:317:LEU:HD21	1:K:341:TRP:CZ2	2.27	0.69
1:P:504:ASP:CB	1:P:509:ASN:O	2.41	0.69
1:P:918:ILE:O	1:P:919:VAL:HG13	1.93	0.69
1:B:383:THR:HG23	1:B:419:THR:C	2.12	0.69
1:C:301:LEU:CD2	1:C:313:PRO:HG2	2.22	0.69
1:E:545:PHE:HZ	1:E:565:ALA:HA	1.57	0.69
1:G:504:ASP:CB	1:G:509:ASN:O	2.41	0.69
1:G:508:TRP:HA	1:G:606:GLY:C	2.13	0.69
1:K:216:ASN:ND2	1:L:194:GLU:OE2	2.26	0.69
1:M:383:THR:HG23	1:M:419:THR:C	2.12	0.69
1:M:918:ILE:O	1:M:919:VAL:HG13	1.93	0.69
1:N:508:TRP:HA	1:N:606:GLY:C	2.13	0.69
1:O:301:LEU:CD2	1:O:313:PRO:HG2	2.22	0.69
1:A:508:TRP:HA	1:A:606:GLY:C	2.13	0.68
1:B:617:HIS:HE1	1:B:663:GLN:HB3	1.58	0.68
1:B:918:ILE:O	1:B:919:VAL:HG13	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:248:GLN:OE1	1:C:268:PHE:CZ	2.43	0.68
1:C:918:ILE:O	1:C:919:VAL:HG13	1.93	0.68
1:E:313:PRO:HG3	1:E:338:TRP:CZ2	2.28	0.68
1:E:389:ILE:CD1	1:E:446:HIS:CE1	2.70	0.68
1:F:122:LYS:HG3	1:G:276:SER:OG	1.93	0.68
1:F:508:TRP:HA	1:F:606:GLY:C	2.13	0.68
1:H:918:ILE:O	1:H:919:VAL:HG13	1.93	0.68
1:I:505:SER:OG	1:I:513:SER:OG	2.05	0.68
1:J:313:PRO:HG3	1:J:338:TRP:CZ2	2.28	0.68
1:O:508:TRP:HA	1:O:606:GLY:C	2.13	0.68
1:O:918:ILE:O	1:O:919:VAL:HG13	1.93	0.68
1:P:508:TRP:HA	1:P:606:GLY:C	2.13	0.68
1:A:617:HIS:HE1	1:A:663:GLN:HB3	1.58	0.68
1:B:301:LEU:CD2	1:B:313:PRO:HG2	2.22	0.68
1:E:523:PHE:HD1	1:E:527:TYR:HE2	1.42	0.68
1:F:317:LEU:HD21	1:F:341:TRP:CZ2	2.27	0.68
1:F:383:THR:HG22	1:F:420:ILE:HG23	1.76	0.68
1:F:504:ASP:CB	1:F:509:ASN:O	2.41	0.68
1:G:207:TRP:HD1	1:G:227:GLU:OE2	1.74	0.68
1:G:382:PRO:CA	1:G:419:THR:HG22	2.24	0.68
1:G:383:THR:HG22	1:G:420:ILE:HG23	1.76	0.68
1:H:313:PRO:HG3	1:H:338:TRP:CZ2	2.28	0.68
1:H:463:LEU:HD22	1:H:467:PHE:HE2	1.55	0.68
1:H:508:TRP:HA	1:H:606:GLY:C	2.13	0.68
1:I:383:THR:HG22	1:I:420:ILE:HG23	1.76	0.68
1:J:523:PHE:HD1	1:J:527:TYR:HE2	1.42	0.68
1:L:918:ILE:O	1:L:919:VAL:HG13	1.93	0.68
1:M:617:HIS:HE1	1:M:663:GLN:HB3	1.58	0.68
1:N:617:HIS:HE1	1:N:663:GLN:HB3	1.58	0.68
1:P:382:PRO:CA	1:P:419:THR:HG22	2.23	0.68
1:A:504:ASP:CB	1:A:509:ASN:O	2.41	0.68
1:C:279:THR:HG23	1:C:280:THR:HG23	1.74	0.68
1:D:504:ASP:CB	1:D:509:ASN:O	2.41	0.68
1:I:194:GLU:OE2	1:P:216:ASN:ND2	2.26	0.68
1:I:317:LEU:HD21	1:I:341:TRP:CZ2	2.27	0.68
1:M:301:LEU:CD2	1:M:313:PRO:HG2	2.22	0.68
1:N:383:THR:HG22	1:N:420:ILE:HG23	1.76	0.68
1:P:207:TRP:HD1	1:P:227:GLU:OE2	1.74	0.68
1:P:383:THR:HG22	1:P:420:ILE:HG23	1.76	0.68
1:A:383:THR:HG22	1:A:420:ILE:HG23	1.76	0.68
1:B:383:THR:HG22	1:B:420:ILE:HG23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:476:LYS:HA	1:D:483:ARG:HH12	1.58	0.68
1:D:523:PHE:HD1	1:D:527:TYR:HE2	1.42	0.68
1:E:382:PRO:CA	1:E:419:THR:HG22	2.23	0.68
1:E:508:TRP:HA	1:E:606:GLY:C	2.13	0.68
1:G:476:LYS:HA	1:G:483:ARG:HH12	1.58	0.68
1:H:279:THR:HG23	1:H:280:THR:HG23	1.74	0.68
1:I:504:ASP:CB	1:I:509:ASN:O	2.41	0.68
1:K:476:LYS:HA	1:K:483:ARG:HH12	1.58	0.68
1:K:504:ASP:CB	1:K:509:ASN:O	2.41	0.68
1:K:523:PHE:HD1	1:K:527:TYR:HE2	1.42	0.68
1:O:313:PRO:HG3	1:O:338:TRP:CZ2	2.28	0.68
1:O:463:LEU:HD22	1:O:467:PHE:HE2	1.55	0.68
1:A:301:LEU:CD2	1:A:313:PRO:HG2	2.22	0.68
1:A:523:PHE:HD1	1:A:527:TYR:HE2	1.42	0.68
1:A:547:PRO:CB	1:A:603:ILE:HG13	2.20	0.68
1:F:545:PHE:HZ	1:F:565:ALA:HA	1.57	0.68
1:H:207:TRP:NE1	1:H:227:GLU:OE1	2.23	0.68
1:I:14:ASP:OD2	1:P:142:ARG:NH1	2.27	0.68
1:I:313:PRO:HG3	1:I:338:TRP:CZ2	2.28	0.68
1:I:545:PHE:HZ	1:I:565:ALA:HA	1.57	0.68
1:J:382:PRO:CA	1:J:419:THR:HG22	2.24	0.68
1:M:383:THR:HG22	1:M:420:ILE:HG23	1.76	0.68
1:N:301:LEU:CD2	1:N:313:PRO:HG2	2.22	0.68
1:N:504:ASP:CB	1:N:509:ASN:O	2.41	0.68
1:O:383:THR:HG22	1:O:420:ILE:HG23	1.76	0.68
1:P:476:LYS:HA	1:P:483:ARG:HH12	1.58	0.68
1:B:523:PHE:HD1	1:B:527:TYR:HE2	1.42	0.68
1:C:504:ASP:CB	1:C:509:ASN:O	2.41	0.68
1:C:517:THR:O	1:C:518:LEU:C	2.30	0.68
1:C:617:HIS:HE1	1:C:663:GLN:HB3	1.58	0.68
1:I:523:PHE:HD1	1:I:527:TYR:HE2	1.42	0.68
1:J:508:TRP:HA	1:J:606:GLY:C	2.13	0.68
1:M:523:PHE:HD1	1:M:527:TYR:HE2	1.42	0.68
1:N:523:PHE:HD1	1:N:527:TYR:HE2	1.42	0.68
1:B:508:TRP:HA	1:B:606:GLY:C	2.13	0.68
1:D:508:TRP:HA	1:D:606:GLY:C	2.13	0.68
1:E:918:ILE:O	1:E:919:VAL:HG13	1.93	0.68
1:F:523:PHE:HD1	1:F:527:TYR:HE2	1.42	0.68
1:F:918:ILE:O	1:F:919:VAL:HG13	1.93	0.68
1:H:383:THR:HG22	1:H:420:ILE:HG23	1.76	0.68
1:K:508:TRP:HA	1:K:606:GLY:C	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:504:ASP:CB	1:L:509:ASN:O	2.41	0.68
1:M:508:TRP:HA	1:M:606:GLY:C	2.14	0.68
1:O:279:THR:HG23	1:O:280:THR:HG23	1.74	0.68
1:O:617:HIS:HE1	1:O:663:GLN:HB3	1.58	0.68
1:E:383:THR:HG22	1:E:420:ILE:HG23	1.76	0.68
1:F:313:PRO:HG3	1:F:338:TRP:CZ2	2.28	0.68
1:G:207:TRP:NE1	1:G:227:GLU:OE1	2.23	0.68
1:G:617:HIS:HE1	1:G:663:GLN:HB3	1.58	0.68
1:J:918:ILE:O	1:J:919:VAL:HG13	1.93	0.68
1:O:207:TRP:NE1	1:O:227:GLU:OE1	2.23	0.68
1:O:523:PHE:HD1	1:O:527:TYR:HE2	1.42	0.68
1:P:207:TRP:NE1	1:P:227:GLU:OE1	2.23	0.68
1:P:523:PHE:HD1	1:P:527:TYR:HE2	1.42	0.68
1:P:617:HIS:HE1	1:P:663:GLN:HB3	1.58	0.68
1:D:617:HIS:HE1	1:D:663:GLN:HB3	1.58	0.68
1:E:301:LEU:CD2	1:E:313:PRO:HG2	2.22	0.68
1:E:463:LEU:HD22	1:E:467:PHE:HE2	1.55	0.68
1:F:517:THR:O	1:F:518:LEU:C	2.30	0.68
1:F:517:THR:HG23	1:F:518:LEU:N	2.09	0.68
1:H:523:PHE:HD1	1:H:527:TYR:HE2	1.42	0.68
1:H:617:HIS:HE1	1:H:663:GLN:HB3	1.58	0.68
1:I:517:THR:O	1:I:518:LEU:C	2.30	0.68
1:I:517:THR:HG23	1:I:518:LEU:N	2.09	0.68
1:L:517:THR:O	1:L:518:LEU:C	2.30	0.68
1:N:463:LEU:HD22	1:N:467:PHE:HE2	1.55	0.68
1:A:463:LEU:HD22	1:A:467:PHE:HE2	1.55	0.68
1:C:508:TRP:HA	1:C:606:GLY:C	2.13	0.68
1:D:517:THR:HG23	1:D:518:LEU:N	2.09	0.68
1:G:279:THR:HG23	1:G:280:THR:HG23	1.74	0.68
1:G:523:PHE:HD1	1:G:527:TYR:HE2	1.42	0.68
1:J:383:THR:HG22	1:J:420:ILE:HG23	1.76	0.68
1:K:617:HIS:HE1	1:K:663:GLN:HB3	1.58	0.68
1:L:383:THR:HG22	1:L:420:ILE:HG23	1.76	0.68
1:L:508:TRP:HA	1:L:606:GLY:C	2.13	0.68
1:L:617:HIS:HE1	1:L:663:GLN:HB3	1.58	0.68
1:N:517:THR:HG23	1:N:518:LEU:N	2.09	0.68
1:P:279:THR:HG23	1:P:280:THR:HG23	1.74	0.67
1:A:517:THR:HG23	1:A:518:LEU:N	2.09	0.67
1:C:383:THR:HG22	1:C:420:ILE:HG23	1.76	0.67
1:F:476:LYS:HA	1:F:483:ARG:HH12	1.58	0.67
1:H:398:VAL:HG23	1:H:399:MET:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:918:ILE:O	1:I:919:VAL:HG13	1.93	0.67
1:J:301:LEU:CD2	1:J:313:PRO:HG2	2.22	0.67
1:K:517:THR:HG23	1:K:518:LEU:N	2.09	0.67
1:L:382:PRO:CA	1:L:419:THR:HG22	2.24	0.67
1:N:389:ILE:CD1	1:N:446:HIS:CE1	2.70	0.67
1:O:504:ASP:CB	1:O:509:ASN:O	2.41	0.67
1:P:517:THR:HG23	1:P:518:LEU:N	2.09	0.67
1:B:517:THR:HG23	1:B:518:LEU:N	2.09	0.67
1:C:517:THR:HG23	1:C:518:LEU:N	2.09	0.67
1:D:313:PRO:HG3	1:D:338:TRP:CZ2	2.28	0.67
1:G:517:THR:HG23	1:G:518:LEU:N	2.09	0.67
1:H:504:ASP:CB	1:H:509:ASN:O	2.41	0.67
1:H:517:THR:HG23	1:H:518:LEU:N	2.09	0.67
1:I:476:LYS:HA	1:I:483:ARG:HH12	1.58	0.67
1:L:517:THR:HG23	1:L:518:LEU:N	2.09	0.67
1:N:398:VAL:HG23	1:N:399:MET:H	1.60	0.67
1:O:398:VAL:HG23	1:O:399:MET:H	1.60	0.67
1:O:517:THR:O	1:O:518:LEU:C	2.30	0.67
1:A:398:VAL:HG23	1:A:399:MET:H	1.60	0.67
1:A:545:PHE:HZ	1:A:565:ALA:HA	1.57	0.67
1:D:383:THR:HG22	1:D:420:ILE:HG23	1.76	0.67
1:D:405:LEU:HG	1:D:411:VAL:HG23	1.77	0.67
1:G:398:VAL:HG23	1:G:399:MET:H	1.60	0.67
1:H:517:THR:O	1:H:518:LEU:C	2.30	0.67
1:K:313:PRO:HG3	1:K:338:TRP:CZ2	2.28	0.67
1:K:383:THR:HG22	1:K:420:ILE:HG23	1.76	0.67
1:L:523:PHE:HD1	1:L:527:TYR:HE2	1.42	0.67
1:M:517:THR:HG23	1:M:518:LEU:N	2.09	0.67
1:O:517:THR:HG23	1:O:518:LEU:N	2.09	0.67
1:B:279:THR:HG23	1:B:280:THR:HG23	1.74	0.67
1:B:398:VAL:HG23	1:B:399:MET:H	1.60	0.67
1:C:313:PRO:HG3	1:C:338:TRP:CZ2	2.28	0.67
1:C:523:PHE:HD1	1:C:527:TYR:HE2	1.42	0.67
1:I:207:TRP:NE1	1:I:227:GLU:OE1	2.23	0.67
1:L:398:VAL:HG23	1:L:399:MET:H	1.60	0.67
1:M:398:VAL:HG23	1:M:399:MET:H	1.60	0.67
1:I:398:VAL:HG23	1:I:399:MET:H	1.60	0.67
1:J:517:THR:HG23	1:J:518:LEU:N	2.09	0.67
1:K:276:SER:HB3	1:L:121:ALA:CB	2.14	0.67
1:K:405:LEU:HG	1:K:411:VAL:HG23	1.77	0.67
1:O:142:ARG:NH1	1:P:14:ASP:OD2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:382:PRO:CA	1:O:419:THR:HG22	2.23	0.67
1:P:398:VAL:HG23	1:P:399:MET:H	1.60	0.67
1:P:517:THR:O	1:P:518:LEU:C	2.30	0.67
1:A:389:ILE:CD1	1:A:446:HIS:CE1	2.70	0.67
1:B:545:PHE:HZ	1:B:565:ALA:HA	1.57	0.67
1:C:382:PRO:CA	1:C:419:THR:HG22	2.24	0.67
1:C:398:VAL:HG23	1:C:399:MET:H	1.60	0.67
1:E:517:THR:HG23	1:E:518:LEU:N	2.09	0.67
1:G:517:THR:O	1:G:518:LEU:C	2.30	0.67
1:K:142:ARG:NH1	1:L:14:ASP:OD2	2.27	0.67
1:M:279:THR:HG23	1:M:280:THR:HG23	1.74	0.67
1:M:545:PHE:HZ	1:M:565:ALA:HA	1.58	0.67
1:N:545:PHE:HZ	1:N:565:ALA:HA	1.57	0.67
1:A:11:GLN:HE21	1:A:70:GLU:HB3	1.60	0.67
1:A:382:PRO:CA	1:A:419:THR:HG22	2.23	0.67
1:B:382:PRO:CA	1:B:419:THR:HG22	2.23	0.67
1:F:207:TRP:NE1	1:F:227:GLU:OE1	2.23	0.67
1:H:11:GLN:HE21	1:H:70:GLU:HB3	1.60	0.67
1:H:382:PRO:CA	1:H:419:THR:HG22	2.23	0.67
1:K:918:ILE:O	1:K:919:VAL:HG13	1.93	0.67
1:L:313:PRO:HG3	1:L:338:TRP:CZ2	2.28	0.67
1:L:405:LEU:HG	1:L:411:VAL:HG23	1.77	0.67
1:M:11:GLN:HE21	1:M:70:GLU:HB3	1.60	0.67
1:B:11:GLN:HE21	1:B:70:GLU:HB3	1.60	0.67
1:D:918:ILE:O	1:D:919:VAL:HG13	1.93	0.67
1:E:398:VAL:HG23	1:E:399:MET:H	1.60	0.67
1:J:398:VAL:HG23	1:J:399:MET:H	1.60	0.67
1:L:11:GLN:HE21	1:L:70:GLU:HB3	1.60	0.67
1:N:11:GLN:HE21	1:N:70:GLU:HB3	1.60	0.67
1:O:11:GLN:HE21	1:O:70:GLU:HB3	1.60	0.67
1:P:11:GLN:HE21	1:P:70:GLU:HB3	1.60	0.67
1:P:313:PRO:HG3	1:P:338:TRP:CZ2	2.28	0.67
1:C:317:LEU:CD2	1:C:341:TRP:CZ2	2.78	0.67
1:K:398:VAL:HG23	1:K:399:MET:H	1.60	0.67
1:M:382:PRO:CA	1:M:419:THR:HG22	2.24	0.67
1:N:382:PRO:CA	1:N:419:THR:HG22	2.24	0.67
1:O:545:PHE:HZ	1:O:565:ALA:HA	1.57	0.67
1:P:598:GLN:HG2	1:P:1228:ILE:HG23	1.77	0.67
1:C:11:GLN:HE21	1:C:70:GLU:HB3	1.60	0.66
1:F:398:VAL:HG23	1:F:399:MET:H	1.60	0.66
1:F:598:GLN:HG2	1:F:1228:ILE:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:11:GLN:HE21	1:G:70:GLU:HB3	1.60	0.66
1:G:313:PRO:HG3	1:G:338:TRP:CZ2	2.28	0.66
1:H:598:GLN:HG2	1:H:1228:ILE:HG23	1.78	0.66
1:I:317:LEU:CD2	1:I:341:TRP:CZ2	2.79	0.66
1:I:382:PRO:CA	1:I:419:THR:HG22	2.23	0.66
1:J:317:LEU:CD2	1:J:341:TRP:CZ2	2.78	0.66
1:J:598:GLN:HG2	1:J:1228:ILE:HG23	1.78	0.66
1:L:317:LEU:CD2	1:L:341:TRP:CZ2	2.79	0.66
1:M:520:GLN:HB3	1:M:524:TYR:OH	1.95	0.66
1:O:598:GLN:HG2	1:O:1228:ILE:HG23	1.78	0.66
1:A:313:PRO:HG3	1:A:338:TRP:CZ2	2.28	0.66
1:B:520:GLN:HB3	1:B:524:TYR:OH	1.95	0.66
1:C:405:LEU:HG	1:C:411:VAL:HG23	1.77	0.66
1:D:398:VAL:HG23	1:D:399:MET:H	1.60	0.66
1:E:317:LEU:CD2	1:E:341:TRP:CZ2	2.79	0.66
1:E:598:GLN:HG2	1:E:1228:ILE:HG23	1.78	0.66
1:F:317:LEU:CD2	1:F:341:TRP:CZ2	2.79	0.66
1:G:598:GLN:HG2	1:G:1228:ILE:HG23	1.78	0.66
1:H:545:PHE:HZ	1:H:565:ALA:HA	1.57	0.66
1:I:598:GLN:HG2	1:I:1228:ILE:HG23	1.78	0.66
1:K:11:GLN:HE21	1:K:70:GLU:HB3	1.60	0.66
1:L:914:VAL:CG2	1:L:917:TYR:O	2.44	0.66
1:M:637:LEU:O	1:M:638:GLU:CB	2.43	0.66
1:B:121:ALA:CB	1:C:276:SER:CB	2.61	0.66
1:B:314:ARG:C	1:B:315:GLU:HG3	2.15	0.66
1:C:914:VAL:CG2	1:C:917:TYR:O	2.44	0.66
1:D:11:GLN:HE21	1:D:70:GLU:HB3	1.60	0.66
1:D:520:GLN:HB3	1:D:524:TYR:OH	1.96	0.66
1:E:914:VAL:CG2	1:E:917:TYR:O	2.44	0.66
1:F:122:LYS:CG	1:G:276:SER:OG	2.43	0.66
1:J:914:VAL:CG2	1:J:917:TYR:O	2.44	0.66
1:J:1177:TYR:HE2	1:K:916:LYS:CE	2.08	0.66
1:L:463:LEU:HD22	1:L:467:PHE:HE2	1.55	0.66
1:N:313:PRO:HG3	1:N:338:TRP:CZ2	2.28	0.66
1:A:520:GLN:HB3	1:A:524:TYR:OH	1.95	0.66
1:K:520:GLN:HB3	1:K:524:TYR:OH	1.96	0.66
1:M:314:ARG:C	1:M:315:GLU:HG3	2.15	0.66
1:N:598:GLN:HG2	1:N:1228:ILE:HG23	1.77	0.66
1:A:314:ARG:C	1:A:315:GLU:HG3	2.16	0.66
1:B:463:LEU:HD22	1:B:467:PHE:HE2	1.55	0.66
1:F:382:PRO:CA	1:F:419:THR:HG22	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:314:ARG:C	1:N:315:GLU:HG3	2.16	0.66
1:N:520:GLN:HB3	1:N:524:TYR:OH	1.95	0.66
1:C:314:ARG:C	1:C:315:GLU:HG3	2.16	0.66
1:D:266:THR:HG21	1:D:271:VAL:HB	1.78	0.66
1:H:1214:LEU:HB3	1:H:1223:GLN:HA	1.78	0.66
1:I:464:ASP:O	1:I:468:TYR:CE2	2.49	0.66
1:K:266:THR:HG21	1:K:271:VAL:HB	1.78	0.66
1:K:389:ILE:CD1	1:K:446:HIS:CE1	2.70	0.66
1:O:1214:LEU:HB3	1:O:1223:GLN:HA	1.78	0.66
1:A:598:GLN:HG2	1:A:1228:ILE:HG23	1.78	0.66
1:B:317:LEU:CD2	1:B:341:TRP:CZ2	2.79	0.66
1:C:14:ASP:CG	1:D:142:ARG:HH22	1.98	0.66
1:D:916:LYS:HE2	1:E:1177:TYR:HE2	1.60	0.66
1:F:198:LYS:HZ1	1:G:222:HIS:CG	2.14	0.66
1:G:464:ASP:O	1:G:468:TYR:CE2	2.49	0.66
1:G:1214:LEU:HB3	1:G:1223:GLN:HA	1.78	0.66
1:O:413:LYS:O	1:O:421:SER:HB3	1.95	0.66
1:C:266:THR:HG21	1:C:271:VAL:HB	1.78	0.66
1:E:314:ARG:C	1:E:315:GLU:HG3	2.15	0.66
1:F:464:ASP:O	1:F:468:TYR:CE2	2.49	0.66
1:G:499:GLN:NE2	1:G:516:ASN:HB3	2.11	0.66
1:H:405:LEU:HG	1:H:411:VAL:HG23	1.77	0.66
1:H:413:LYS:O	1:H:421:SER:HB3	1.96	0.66
1:I:914:VAL:CG2	1:I:917:TYR:O	2.44	0.66
1:J:266:THR:HG21	1:J:271:VAL:HB	1.78	0.66
1:J:464:ASP:O	1:J:468:TYR:CE2	2.49	0.66
1:J:1214:LEU:HB3	1:J:1223:GLN:HA	1.78	0.66
1:K:492:LEU:HD11	1:K:561:LEU:HD21	1.78	0.66
1:L:216:ASN:ND2	1:M:194:GLU:OE2	2.29	0.66
1:L:266:THR:HG21	1:L:271:VAL:HB	1.78	0.66
1:L:313:PRO:CG	1:L:338:TRP:HE1	2.07	0.66
1:M:317:LEU:CD2	1:M:341:TRP:CZ2	2.79	0.66
1:P:464:ASP:O	1:P:468:TYR:CE2	2.49	0.66
1:A:914:VAL:CG2	1:A:917:TYR:O	2.44	0.66
1:D:317:LEU:CD2	1:D:341:TRP:CZ2	2.79	0.66
1:D:389:ILE:CD1	1:D:446:HIS:CE1	2.70	0.66
1:D:492:LEU:HD11	1:D:561:LEU:HD21	1.78	0.66
1:D:598:GLN:HG2	1:D:1228:ILE:HG23	1.78	0.66
1:D:637:LEU:O	1:D:638:GLU:CB	2.43	0.66
1:E:464:ASP:O	1:E:468:TYR:CE2	2.49	0.66
1:E:637:LEU:O	1:E:638:GLU:CB	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1214:LEU:HB3	1:E:1223:GLN:HA	1.78	0.66
1:F:914:VAL:CG2	1:F:917:TYR:O	2.44	0.66
1:G:314:ARG:C	1:G:315:GLU:HG3	2.15	0.66
1:I:1214:LEU:HB3	1:I:1223:GLN:HA	1.78	0.66
1:J:314:ARG:C	1:J:315:GLU:HG3	2.16	0.66
1:K:317:LEU:CD2	1:K:341:TRP:CZ2	2.79	0.66
1:K:598:GLN:HG2	1:K:1228:ILE:HG23	1.78	0.66
1:N:914:VAL:CG2	1:N:917:TYR:O	2.44	0.66
1:O:405:LEU:HG	1:O:411:VAL:HG23	1.77	0.66
1:P:405:LEU:HG	1:P:411:VAL:HG23	1.77	0.66
1:P:492:LEU:HD11	1:P:561:LEU:HD21	1.78	0.66
1:P:499:GLN:NE2	1:P:516:ASN:HB3	2.11	0.66
1:P:1214:LEU:HB3	1:P:1223:GLN:HA	1.78	0.66
1:A:317:LEU:C	1:A:318:THR:HG1	1.94	0.66
1:A:413:LYS:O	1:A:421:SER:HB3	1.96	0.66
1:A:1214:LEU:HB3	1:A:1223:GLN:HA	1.78	0.66
1:B:413:LYS:O	1:B:421:SER:HB3	1.96	0.66
1:C:413:LYS:O	1:C:421:SER:HB3	1.96	0.66
1:D:914:VAL:CG2	1:D:917:TYR:O	2.44	0.66
1:E:266:THR:HG21	1:E:271:VAL:HB	1.78	0.66
1:E:413:LYS:O	1:E:421:SER:HB3	1.96	0.66
1:E:504:ASP:CB	1:E:509:ASN:O	2.41	0.66
1:F:11:GLN:HE21	1:F:70:GLU:HB3	1.60	0.66
1:F:492:LEU:HD11	1:F:561:LEU:HD21	1.78	0.66
1:F:1214:LEU:HB3	1:F:1223:GLN:HA	1.78	0.66
1:G:405:LEU:HG	1:G:411:VAL:HG23	1.77	0.66
1:G:520:GLN:HB3	1:G:524:TYR:OH	1.96	0.66
1:J:142:ARG:NH1	1:K:14:ASP:OD2	2.29	0.66
1:J:504:ASP:CB	1:J:509:ASN:O	2.41	0.66
1:J:637:LEU:O	1:J:638:GLU:CB	2.43	0.66
1:K:637:LEU:O	1:K:638:GLU:CB	2.43	0.66
1:K:914:VAL:CG2	1:K:917:TYR:O	2.44	0.66
1:M:413:LYS:O	1:M:421:SER:HB3	1.96	0.66
1:M:463:LEU:HD22	1:M:467:PHE:HE2	1.55	0.66
1:N:1214:LEU:HB3	1:N:1223:GLN:HA	1.78	0.66
1:O:499:GLN:NE2	1:O:516:ASN:HB3	2.11	0.66
1:P:314:ARG:C	1:P:315:GLU:HG3	2.16	0.66
1:P:317:LEU:CD2	1:P:341:TRP:CZ2	2.78	0.66
1:P:520:GLN:HB3	1:P:524:TYR:OH	1.96	0.66
1:A:405:LEU:HG	1:A:411:VAL:HG23	1.77	0.65
1:B:598:GLN:HG2	1:B:1228:ILE:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:PRO:CG	1:C:338:TRP:HE1	2.07	0.65
1:D:301:LEU:CD2	1:D:313:PRO:HG2	2.22	0.65
1:G:317:LEU:CD2	1:G:341:TRP:CZ2	2.79	0.65
1:G:492:LEU:HD11	1:G:561:LEU:HD21	1.78	0.65
1:G:914:VAL:CG2	1:G:917:TYR:O	2.44	0.65
1:H:451:LYS:HD3	1:H:486:LEU:CD2	2.26	0.65
1:J:413:LYS:O	1:J:421:SER:HB3	1.96	0.65
1:J:499:GLN:NE2	1:J:516:ASN:HB3	2.11	0.65
1:M:598:GLN:HG2	1:M:1228:ILE:HG23	1.78	0.65
1:N:317:LEU:C	1:N:318:THR:HG1	1.94	0.65
1:N:492:LEU:HD11	1:N:561:LEU:HD21	1.78	0.65
1:O:520:GLN:HB3	1:O:524:TYR:OH	1.96	0.65
1:E:499:GLN:NE2	1:E:516:ASN:HB3	2.11	0.65
1:F:413:LYS:O	1:F:421:SER:HB3	1.95	0.65
1:F:520:GLN:HB3	1:F:524:TYR:OH	1.95	0.65
1:H:499:GLN:NE2	1:H:516:ASN:HB3	2.11	0.65
1:H:520:GLN:HB3	1:H:524:TYR:OH	1.95	0.65
1:H:914:VAL:CG2	1:H:917:TYR:O	2.44	0.65
1:I:492:LEU:HD11	1:I:561:LEU:HD21	1.78	0.65
1:J:517:THR:HG23	1:J:518:LEU:H	1.62	0.65
1:K:464:ASP:O	1:K:468:TYR:CE2	2.49	0.65
1:L:598:GLN:HG2	1:L:1228:ILE:HG23	1.78	0.65
1:M:389:ILE:CD1	1:M:446:HIS:CE1	2.70	0.65
1:O:451:LYS:HD3	1:O:486:LEU:CD2	2.26	0.65
1:O:464:ASP:O	1:O:468:TYR:CE2	2.49	0.65
1:O:517:THR:HG23	1:O:518:LEU:H	1.62	0.65
1:P:914:VAL:CG2	1:P:917:TYR:O	2.44	0.65
1:A:492:LEU:HD11	1:A:561:LEU:HD21	1.78	0.65
1:B:266:THR:HG21	1:B:271:VAL:HB	1.78	0.65
1:C:315:GLU:O	1:C:316:VAL:HG22	1.97	0.65
1:E:11:GLN:HE21	1:E:70:GLU:HB3	1.60	0.65
1:E:517:THR:HG23	1:E:518:LEU:H	1.62	0.65
1:F:266:THR:HG21	1:F:271:VAL:HB	1.78	0.65
1:H:464:ASP:O	1:H:468:TYR:CE2	2.49	0.65
1:H:517:THR:HG23	1:H:518:LEU:H	1.62	0.65
1:K:301:LEU:CD2	1:K:313:PRO:HG2	2.22	0.65
1:L:389:ILE:CD1	1:L:446:HIS:CE1	2.70	0.65
1:L:413:LYS:O	1:L:421:SER:HB3	1.96	0.65
1:M:266:THR:HG21	1:M:271:VAL:HB	1.78	0.65
1:N:266:THR:HG21	1:N:271:VAL:HB	1.78	0.65
1:N:405:LEU:HG	1:N:411:VAL:HG23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:413:LYS:O	1:N:421:SER:HB3	1.96	0.65
1:O:914:VAL:CG2	1:O:917:TYR:O	2.44	0.65
1:A:266:THR:HG21	1:A:271:VAL:HB	1.78	0.65
1:C:463:LEU:HD22	1:C:467:PHE:HE2	1.55	0.65
1:C:598:GLN:HG2	1:C:1228:ILE:HG23	1.78	0.65
1:D:315:GLU:O	1:D:316:VAL:HG22	1.97	0.65
1:D:464:ASP:O	1:D:468:TYR:CE2	2.49	0.65
1:D:499:GLN:NE2	1:D:516:ASN:HB3	2.11	0.65
1:D:517:THR:HG23	1:D:518:LEU:H	1.62	0.65
1:D:1214:LEU:HB3	1:D:1223:GLN:HA	1.78	0.65
2:F:1501:DTP:O2A	2:F:1501:DTP:H8	1.96	0.65
1:G:315:GLU:O	1:G:316:VAL:HG22	1.97	0.65
1:H:252:ALA:O	1:H:255:ALA:N	2.25	0.65
1:I:520:GLN:HB3	1:I:524:TYR:OH	1.96	0.65
2:I:1501:DTP:O1A	2:I:1501:DTP:H8	1.97	0.65
1:K:315:GLU:O	1:K:316:VAL:HG22	1.97	0.65
1:K:499:GLN:NE2	1:K:516:ASN:HB3	2.11	0.65
1:K:1214:LEU:HB3	1:K:1223:GLN:HA	1.78	0.65
1:L:315:GLU:O	1:L:316:VAL:HG22	1.97	0.65
1:L:520:GLN:HB3	1:L:524:TYR:OH	1.95	0.65
1:M:373:SER:OG	1:M:433:LEU:HB2	1.97	0.65
1:B:373:SER:OG	1:B:433:LEU:HB2	1.97	0.65
1:B:389:ILE:CD1	1:B:446:HIS:CE1	2.70	0.65
1:B:405:LEU:HG	1:B:411:VAL:HG23	1.77	0.65
1:C:520:GLN:HB3	1:C:524:TYR:OH	1.95	0.65
1:I:266:THR:HG21	1:I:271:VAL:HB	1.78	0.65
1:I:405:LEU:HG	1:I:411:VAL:HG23	1.77	0.65
1:I:413:LYS:O	1:I:421:SER:HB3	1.96	0.65
1:K:517:THR:HG23	1:K:518:LEU:H	1.62	0.65
2:K:1501:DTP:O1A	2:K:1501:DTP:H8	1.97	0.65
1:M:405:LEU:HG	1:M:411:VAL:HG23	1.77	0.65
1:O:252:ALA:O	1:O:255:ALA:N	2.25	0.65
1:A:315:GLU:O	1:A:316:VAL:HG22	1.97	0.65
1:A:373:SER:OG	1:A:433:LEU:HB2	1.97	0.65
1:A:464:ASP:O	1:A:468:TYR:CE2	2.49	0.65
1:A:499:GLN:NE2	1:A:516:ASN:HB3	2.11	0.65
1:B:464:ASP:O	1:B:468:TYR:CE2	2.49	0.65
1:B:538:LEU:HG	1:B:571:GLU:OE2	1.97	0.65
1:C:464:ASP:O	1:C:468:TYR:CE2	2.49	0.65
1:E:315:GLU:O	1:E:316:VAL:HG22	1.97	0.65
1:F:378:SER:N	1:F:422:ILE:HD11	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:413:LYS:O	1:G:421:SER:HB3	1.96	0.65
1:G:538:LEU:HG	1:G:571:GLU:OE2	1.97	0.65
1:H:914:VAL:HG22	1:H:917:TYR:O	1.97	0.65
1:I:11:GLN:HE21	1:I:70:GLU:HB3	1.60	0.65
1:I:314:ARG:C	1:I:315:GLU:HG3	2.15	0.65
1:I:482:GLU:O	1:I:485:THR:OG1	2.15	0.65
1:J:11:GLN:HE21	1:J:70:GLU:HB3	1.60	0.65
1:J:313:PRO:CG	1:J:338:TRP:HE1	2.07	0.65
1:L:464:ASP:O	1:L:468:TYR:CE2	2.49	0.65
1:M:315:GLU:O	1:M:316:VAL:HG22	1.97	0.65
1:M:538:LEU:HG	1:M:571:GLU:OE2	1.97	0.65
1:N:315:GLU:O	1:N:316:VAL:HG22	1.97	0.65
1:N:499:GLN:NE2	1:N:516:ASN:HB3	2.11	0.65
1:O:914:VAL:HG22	1:O:917:TYR:O	1.97	0.65
1:P:315:GLU:O	1:P:316:VAL:HG22	1.97	0.65
1:P:413:LYS:O	1:P:421:SER:HB3	1.96	0.65
1:B:315:GLU:O	1:B:316:VAL:HG22	1.97	0.65
1:B:482:GLU:O	1:B:485:THR:OG1	2.15	0.65
1:B:492:LEU:HD11	1:B:561:LEU:HD21	1.78	0.65
1:C:389:ILE:CD1	1:C:446:HIS:CE1	2.70	0.65
2:D:1501:DTP:H8	2:D:1501:DTP:O2A	1.97	0.65
1:E:405:LEU:HG	1:E:411:VAL:HG23	1.77	0.65
1:F:405:LEU:HG	1:F:411:VAL:HG23	1.77	0.65
1:F:482:GLU:O	1:F:485:THR:OG1	2.15	0.65
1:F:517:THR:HG23	1:F:518:LEU:H	1.62	0.65
1:G:266:THR:HG21	1:G:271:VAL:HB	1.78	0.65
1:G:482:GLU:O	1:G:485:THR:OG1	2.15	0.65
1:I:517:THR:HG23	1:I:518:LEU:H	1.62	0.65
1:J:1177:TYR:HE2	1:K:916:LYS:HE2	1.61	0.65
1:K:545:PHE:HZ	1:K:565:ALA:HA	1.57	0.65
1:L:517:THR:HG23	1:L:518:LEU:H	1.62	0.65
1:M:464:ASP:O	1:M:468:TYR:CE2	2.49	0.65
1:M:1214:LEU:HB3	1:M:1223:GLN:HA	1.78	0.65
1:N:373:SER:OG	1:N:433:LEU:HB2	1.97	0.65
1:O:317:LEU:CD2	1:O:341:TRP:CZ2	2.79	0.65
1:P:538:LEU:HG	1:P:571:GLU:OE2	1.97	0.65
1:A:317:LEU:CD2	1:A:341:TRP:CZ2	2.79	0.65
1:C:482:GLU:O	1:C:485:THR:OG1	2.15	0.65
1:C:517:THR:HG23	1:C:518:LEU:H	1.62	0.65
1:C:538:LEU:HG	1:C:571:GLU:OE2	1.97	0.65
1:E:313:PRO:CG	1:E:338:TRP:HE1	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:373:SER:OG	1:G:433:LEU:HB2	1.97	0.65
1:G:378:SER:N	1:G:422:ILE:HD11	2.10	0.65
1:H:317:LEU:CD2	1:H:341:TRP:CZ2	2.79	0.65
1:H:492:LEU:HD11	1:H:561:LEU:HD21	1.78	0.65
1:I:315:GLU:O	1:I:316:VAL:HG22	1.97	0.65
1:I:447:TYR:OH	1:I:486:LEU:HD23	1.97	0.65
1:J:315:GLU:O	1:J:316:VAL:HG22	1.97	0.65
1:J:405:LEU:HG	1:J:411:VAL:HG23	1.77	0.65
1:K:314:ARG:C	1:K:315:GLU:HG3	2.16	0.65
1:L:378:SER:N	1:L:422:ILE:HD11	2.10	0.65
1:L:499:GLN:NE2	1:L:516:ASN:HB3	2.11	0.65
1:L:538:LEU:HG	1:L:571:GLU:OE2	1.97	0.65
1:M:482:GLU:O	1:M:485:THR:OG1	2.15	0.65
1:N:464:ASP:O	1:N:468:TYR:CE2	2.49	0.65
1:O:266:THR:HG21	1:O:271:VAL:HB	1.78	0.65
1:P:266:THR:HG21	1:P:271:VAL:HB	1.78	0.65
1:P:482:GLU:O	1:P:485:THR:OG1	2.15	0.65
1:B:914:VAL:CG2	1:B:917:TYR:O	2.44	0.65
1:B:914:VAL:HG22	1:B:917:TYR:O	1.97	0.65
1:B:1214:LEU:HB3	1:B:1223:GLN:HA	1.78	0.65
2:B:1501:DTP:H8	2:B:1501:DTP:O2A	1.97	0.65
1:D:314:ARG:C	1:D:315:GLU:HG3	2.15	0.65
1:F:315:GLU:O	1:F:316:VAL:HG22	1.97	0.65
1:F:637:LEU:O	1:F:638:GLU:CB	2.43	0.65
1:H:266:THR:HG21	1:H:271:VAL:HB	1.78	0.65
1:H:317:LEU:C	1:H:318:THR:HG1	1.94	0.65
1:M:492:LEU:HD11	1:M:561:LEU:HD21	1.78	0.65
1:M:914:VAL:CG2	1:M:917:TYR:O	2.44	0.65
1:M:914:VAL:HG22	1:M:917:TYR:O	1.97	0.65
2:M:1501:DTP:O1A	2:M:1501:DTP:H8	1.97	0.65
1:N:317:LEU:CD2	1:N:341:TRP:CZ2	2.79	0.65
2:N:1501:DTP:O1A	2:N:1501:DTP:H8	1.97	0.65
1:P:378:SER:N	1:P:422:ILE:HD11	2.10	0.65
1:C:447:TYR:OH	1:C:486:LEU:HD23	1.97	0.65
1:C:1214:LEU:HB3	1:C:1223:GLN:HA	1.78	0.65
1:D:383:THR:HG23	1:D:419:THR:CA	2.27	0.65
1:D:545:PHE:HZ	1:D:565:ALA:HA	1.57	0.65
1:E:482:GLU:O	1:E:485:THR:OG1	2.15	0.65
1:F:314:ARG:C	1:F:315:GLU:HG3	2.15	0.65
1:G:451:LYS:HD3	1:G:486:LEU:CD2	2.26	0.65
1:I:373:SER:OG	1:I:433:LEU:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:482:GLU:O	1:J:485:THR:OG1	2.15	0.65
1:L:383:THR:HG23	1:L:419:THR:CA	2.27	0.65
1:L:1214:LEU:HB3	1:L:1223:GLN:HA	1.78	0.65
1:N:447:TYR:OH	1:N:486:LEU:HD23	1.97	0.65
1:O:317:LEU:C	1:O:318:THR:HG1	1.94	0.65
1:O:538:LEU:HG	1:O:571:GLU:OE2	1.97	0.65
1:P:373:SER:OG	1:P:433:LEU:HB2	1.97	0.65
1:A:447:TYR:OH	1:A:486:LEU:HD23	1.97	0.64
1:A:482:GLU:O	1:A:485:THR:OG1	2.15	0.64
2:A:1501:DTP:H8	2:A:1501:DTP:O2A	1.97	0.64
1:B:499:GLN:NE2	1:B:516:ASN:HB3	2.11	0.64
1:E:378:SER:N	1:E:422:ILE:HD11	2.10	0.64
1:E:447:TYR:OH	1:E:486:LEU:HD23	1.97	0.64
1:F:373:SER:OG	1:F:433:LEU:HB2	1.97	0.64
1:H:378:SER:N	1:H:422:ILE:HD11	2.10	0.64
1:H:538:LEU:HG	1:H:571:GLU:OE2	1.97	0.64
1:J:447:TYR:OH	1:J:486:LEU:HD23	1.97	0.64
1:K:383:THR:HG23	1:K:419:THR:CA	2.27	0.64
1:K:413:LYS:O	1:K:421:SER:HB3	1.95	0.64
1:M:499:GLN:NE2	1:M:516:ASN:HB3	2.11	0.64
1:O:492:LEU:HD11	1:O:561:LEU:HD21	1.78	0.64
1:P:451:LYS:HD3	1:P:486:LEU:CD2	2.26	0.64
1:A:378:SER:N	1:A:422:ILE:HD11	2.10	0.64
1:A:538:LEU:HG	1:A:571:GLU:OE2	1.97	0.64
2:C:1501:DTP:O2A	2:C:1501:DTP:H8	1.97	0.64
1:D:378:SER:N	1:D:422:ILE:HD11	2.10	0.64
1:E:53:ASP:O	1:E:57:GLY:N	2.27	0.64
1:E:373:SER:OG	1:E:433:LEU:HB2	1.97	0.64
1:E:520:GLN:HB3	1:E:524:TYR:OH	1.95	0.64
1:F:447:TYR:OH	1:F:486:LEU:HD23	1.97	0.64
1:F:547:PRO:HB2	1:F:603:ILE:HA	1.80	0.64
1:G:547:PRO:HB2	1:G:603:ILE:HA	1.80	0.64
1:H:373:SER:OG	1:H:433:LEU:HB2	1.97	0.64
1:I:378:SER:N	1:I:422:ILE:HD11	2.10	0.64
1:I:499:GLN:NE2	1:I:516:ASN:HB3	2.11	0.64
1:J:492:LEU:HD11	1:J:561:LEU:HD21	1.78	0.64
1:J:520:GLN:HB3	1:J:524:TYR:OH	1.96	0.64
1:L:482:GLU:O	1:L:485:THR:OG1	2.15	0.64
1:M:313:PRO:CG	1:M:338:TRP:HE1	2.07	0.64
1:P:517:THR:HG23	1:P:518:LEU:H	1.62	0.64
1:P:545:PHE:HZ	1:P:565:ALA:HA	1.57	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:989:SER:HB2	1:A:1027:ASN:HD22	1.63	0.64
1:C:373:SER:OG	1:C:433:LEU:HB2	1.97	0.64
1:C:383:THR:HG23	1:C:419:THR:CA	2.27	0.64
2:E:1501:DTP:H8	2:E:1501:DTP:O2A	1.96	0.64
1:F:499:GLN:NE2	1:F:516:ASN:HB3	2.11	0.64
1:F:635:VAL:HB	1:F:641:ASP:OD1	1.98	0.64
1:I:547:PRO:HB2	1:I:603:ILE:HA	1.80	0.64
1:I:637:LEU:O	1:I:638:GLU:CB	2.43	0.64
1:J:373:SER:OG	1:J:433:LEU:HB2	1.97	0.64
1:J:378:SER:N	1:J:422:ILE:HD11	2.10	0.64
1:J:383:THR:HG23	1:J:419:THR:CA	2.27	0.64
1:K:382:PRO:CA	1:K:419:THR:HG22	2.23	0.64
1:L:373:SER:OG	1:L:433:LEU:HB2	1.97	0.64
1:L:492:LEU:HD11	1:L:561:LEU:HD21	1.78	0.64
1:N:482:GLU:O	1:N:485:THR:OG1	2.15	0.64
1:O:373:SER:OG	1:O:433:LEU:HB2	1.97	0.64
1:P:313:PRO:CG	1:P:338:TRP:HE1	2.07	0.64
1:P:547:PRO:HB2	1:P:603:ILE:HA	1.80	0.64
1:B:313:PRO:CG	1:B:338:TRP:HE1	2.08	0.64
1:E:383:THR:HG23	1:E:419:THR:CA	2.27	0.64
1:E:548:LYS:HZ2	1:E:601:GLN:N	1.96	0.64
1:G:383:THR:HG23	1:G:419:THR:CA	2.27	0.64
1:G:517:THR:HG23	1:G:518:LEU:H	1.62	0.64
1:H:547:PRO:HB2	1:H:603:ILE:HA	1.80	0.64
1:I:635:VAL:HB	1:I:641:ASP:OD1	1.98	0.64
1:J:635:VAL:HB	1:J:641:ASP:OD1	1.98	0.64
1:K:378:SER:N	1:K:422:ILE:HD11	2.11	0.64
1:L:447:TYR:OH	1:L:486:LEU:HD23	1.97	0.64
1:N:538:LEU:HG	1:N:571:GLU:OE2	1.97	0.64
1:N:989:SER:HB2	1:N:1027:ASN:HD22	1.63	0.64
1:O:378:SER:N	1:O:422:ILE:HD11	2.10	0.64
1:O:547:PRO:HB2	1:O:603:ILE:HA	1.80	0.64
1:P:383:THR:HG23	1:P:419:THR:CA	2.27	0.64
1:P:447:TYR:OH	1:P:486:LEU:HD23	1.97	0.64
1:A:53:ASP:O	1:A:57:GLY:N	2.27	0.64
1:C:499:GLN:NE2	1:C:516:ASN:HB3	2.11	0.64
1:D:413:LYS:O	1:D:421:SER:HB3	1.96	0.64
1:D:538:LEU:HG	1:D:571:GLU:OE2	1.97	0.64
1:E:104:ARG:HA	1:E:107:ILE:HG22	1.80	0.64
1:E:492:LEU:HD11	1:E:561:LEU:HD21	1.78	0.64
1:E:635:VAL:HB	1:E:641:ASP:OD1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:914:VAL:HG22	1:F:917:TYR:O	1.97	0.64
1:G:447:TYR:OH	1:G:486:LEU:HD23	1.97	0.64
1:G:545:PHE:HZ	1:G:565:ALA:HA	1.58	0.64
1:H:482:GLU:O	1:H:485:THR:OG1	2.15	0.64
1:H:989:SER:HB2	1:H:1027:ASN:HD22	1.63	0.64
1:I:538:LEU:HG	1:I:571:GLU:OE2	1.97	0.64
2:J:1501:DTP:O1A	2:J:1501:DTP:H8	1.97	0.64
1:K:464:ASP:O	1:K:468:TYR:HE2	1.81	0.64
1:L:464:ASP:O	1:L:468:TYR:HE2	1.81	0.64
2:L:1501:DTP:H8	2:L:1501:DTP:O1A	1.97	0.64
1:M:989:SER:HB2	1:M:1027:ASN:HD22	1.63	0.64
1:N:378:SER:N	1:N:422:ILE:HD11	2.10	0.64
1:O:482:GLU:O	1:O:485:THR:OG1	2.15	0.64
1:O:989:SER:HB2	1:O:1027:ASN:HD22	1.63	0.64
2:O:1501:DTP:O1A	2:O:1501:DTP:H8	1.96	0.64
1:A:547:PRO:HB2	1:A:603:ILE:HA	1.80	0.64
1:B:464:ASP:O	1:B:468:TYR:HE2	1.81	0.64
1:B:989:SER:HB2	1:B:1027:ASN:HD22	1.63	0.64
1:C:464:ASP:O	1:C:468:TYR:HE2	1.81	0.64
1:D:464:ASP:O	1:D:468:TYR:HE2	1.81	0.64
1:G:313:PRO:CG	1:G:338:TRP:HE1	2.08	0.64
1:I:104:ARG:HA	1:I:107:ILE:HG22	1.80	0.64
1:I:914:VAL:HG22	1:I:917:TYR:O	1.97	0.64
1:J:548:LYS:HZ2	1:J:601:GLN:N	1.96	0.64
1:K:104:ARG:HA	1:K:107:ILE:HG22	1.80	0.64
1:K:538:LEU:HG	1:K:571:GLU:OE2	1.97	0.64
1:L:314:ARG:C	1:L:315:GLU:HG3	2.16	0.64
1:M:464:ASP:O	1:M:468:TYR:HE2	1.81	0.64
1:N:53:ASP:O	1:N:57:GLY:N	2.27	0.64
1:B:447:TYR:OH	1:B:486:LEU:HD23	1.97	0.64
1:D:373:SER:OG	1:D:433:LEU:HB2	1.97	0.64
1:D:382:PRO:CA	1:D:419:THR:HG22	2.24	0.64
1:F:383:THR:HG23	1:F:419:THR:CA	2.27	0.64
1:H:383:THR:HG23	1:H:419:THR:CA	2.27	0.64
1:H:447:TYR:OH	1:H:486:LEU:HD23	1.97	0.64
2:H:1501:DTP:H8	2:H:1501:DTP:O2A	1.96	0.64
1:J:104:ARG:HA	1:J:107:ILE:HG22	1.80	0.64
1:K:165:CYS:SG	1:K:178:ILE:HD13	2.38	0.64
1:L:104:ARG:HA	1:L:107:ILE:HG22	1.80	0.64
1:L:208:THR:OG1	1:L:210:ARG:NH1	2.31	0.64
1:N:165:CYS:SG	1:N:178:ILE:HD13	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:547:PRO:HB2	1:N:603:ILE:HA	1.80	0.64
1:A:121:ALA:HB1	1:B:276:SER:CB	2.20	0.64
1:A:165:CYS:SG	1:A:178:ILE:HD13	2.38	0.64
1:A:333:ASP:OD2	1:B:403:ASN:ND2	2.31	0.64
1:C:208:THR:OG1	1:C:210:ARG:NH1	2.31	0.64
1:C:492:LEU:HD11	1:C:561:LEU:HD21	1.78	0.64
1:C:587:ARG:HG3	1:C:588:VAL:H	1.63	0.64
1:D:104:ARG:HA	1:D:107:ILE:HG22	1.80	0.64
1:D:165:CYS:SG	1:D:178:ILE:HD13	2.38	0.64
1:D:208:THR:OG1	1:D:210:ARG:NH1	2.31	0.64
1:D:635:VAL:HB	1:D:641:ASP:OD1	1.98	0.64
1:E:464:ASP:O	1:E:468:TYR:HE2	1.81	0.64
1:E:538:LEU:HG	1:E:571:GLU:OE2	1.97	0.64
1:E:547:PRO:HB2	1:E:603:ILE:HA	1.80	0.64
1:F:104:ARG:HA	1:F:107:ILE:HG22	1.80	0.64
1:F:451:LYS:HD3	1:F:486:LEU:CD2	2.26	0.64
1:F:538:LEU:HG	1:F:571:GLU:OE2	1.97	0.64
1:G:548:LYS:NZ	1:G:601:GLN:CA	2.61	0.64
1:G:914:VAL:HG22	1:G:917:TYR:O	1.97	0.64
1:H:165:CYS:SG	1:H:178:ILE:HD13	2.38	0.64
1:H:386:LEU:CD1	1:H:420:ILE:HD13	2.28	0.64
1:J:464:ASP:O	1:J:468:TYR:HE2	1.81	0.64
1:J:989:SER:HB2	1:J:1027:ASN:HD22	1.63	0.64
1:K:208:THR:OG1	1:K:210:ARG:NH1	2.31	0.64
1:K:373:SER:OG	1:K:433:LEU:HB2	1.97	0.64
1:K:447:TYR:OH	1:K:486:LEU:HD23	1.97	0.64
1:K:635:VAL:HB	1:K:641:ASP:OD1	1.98	0.64
1:L:635:VAL:HB	1:L:641:ASP:OD1	1.98	0.64
1:M:517:THR:HG23	1:M:518:LEU:H	1.62	0.64
1:N:464:ASP:O	1:N:468:TYR:HE2	1.81	0.64
1:O:165:CYS:SG	1:O:178:ILE:HD13	2.38	0.64
1:O:208:THR:OG1	1:O:210:ARG:NH1	2.31	0.64
1:O:383:THR:HG23	1:O:419:THR:CA	2.27	0.64
1:O:386:LEU:CD1	1:O:420:ILE:HD13	2.28	0.64
1:O:447:TYR:OH	1:O:486:LEU:HD23	1.97	0.64
1:O:635:VAL:HB	1:O:641:ASP:OD1	1.98	0.64
1:B:383:THR:HG23	1:B:419:THR:CA	2.27	0.64
1:B:517:THR:HG23	1:B:518:LEU:H	1.62	0.64
1:C:104:ARG:HA	1:C:107:ILE:HG22	1.80	0.64
1:C:437:TYR:O	1:C:441:ARG:NH1	2.31	0.64
1:C:989:SER:HB2	1:C:1027:ASN:HD22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:482:GLU:O	1:D:485:THR:OG1	2.15	0.64
1:E:208:THR:OG1	1:E:210:ARG:NH1	2.31	0.64
1:E:989:SER:HB2	1:E:1027:ASN:HD22	1.63	0.64
1:G:104:ARG:HA	1:G:107:ILE:HG22	1.80	0.64
1:H:208:THR:OG1	1:H:210:ARG:NH1	2.31	0.64
1:H:635:VAL:HB	1:H:641:ASP:OD1	1.98	0.64
1:J:437:TYR:O	1:J:441:ARG:NH1	2.31	0.64
1:J:538:LEU:HG	1:J:571:GLU:OE2	1.97	0.64
1:J:547:PRO:HB2	1:J:603:ILE:HA	1.80	0.64
1:K:989:SER:HB2	1:K:1027:ASN:HD22	1.63	0.64
1:M:383:THR:HG23	1:M:419:THR:CA	2.27	0.64
1:M:447:TYR:OH	1:M:486:LEU:HD23	1.97	0.64
1:O:499:GLN:HB2	1:O:520:GLN:HE22	1.63	0.64
1:P:548:LYS:NZ	1:P:601:GLN:CA	2.61	0.64
1:P:914:VAL:HG22	1:P:917:TYR:O	1.97	0.64
1:P:989:SER:HB2	1:P:1027:ASN:HD22	1.63	0.64
1:A:386:LEU:CD1	1:A:420:ILE:HD13	2.28	0.64
1:B:437:TYR:O	1:B:441:ARG:NH1	2.31	0.64
1:D:447:TYR:OH	1:D:486:LEU:HD23	1.97	0.64
1:D:914:VAL:HG22	1:D:917:TYR:O	1.97	0.64
1:D:989:SER:HB2	1:D:1027:ASN:HD22	1.63	0.64
1:E:165:CYS:SG	1:E:178:ILE:HD13	2.38	0.64
1:E:437:TYR:O	1:E:441:ARG:NH1	2.31	0.64
1:F:208:THR:OG1	1:F:210:ARG:NH1	2.31	0.64
1:G:989:SER:HB2	1:G:1027:ASN:HD22	1.63	0.64
1:H:104:ARG:HA	1:H:107:ILE:HG22	1.80	0.64
1:H:315:GLU:O	1:H:316:VAL:HG22	1.97	0.64
1:I:383:THR:HG23	1:I:419:THR:CA	2.27	0.64
1:I:548:LYS:HZ2	1:I:601:GLN:N	1.96	0.64
1:J:208:THR:OG1	1:J:210:ARG:NH1	2.31	0.64
1:N:386:LEU:CD1	1:N:420:ILE:HD13	2.28	0.64
1:O:315:GLU:O	1:O:316:VAL:HG22	1.97	0.64
1:P:104:ARG:HA	1:P:107:ILE:HG22	1.80	0.64
1:A:475:LEU:HD23	1:A:478:ILE:HD12	1.80	0.63
1:A:517:THR:HG23	1:A:518:LEU:H	1.62	0.63
1:B:208:THR:OG1	1:B:210:ARG:NH1	2.31	0.63
1:D:603:ILE:HD11	1:D:635:VAL:CG1	2.29	0.63
1:H:499:GLN:HB2	1:H:520:GLN:HE22	1.64	0.63
1:J:165:CYS:SG	1:J:178:ILE:HD13	2.38	0.63
1:K:437:TYR:O	1:K:441:ARG:NH1	2.31	0.63
1:K:482:GLU:O	1:K:485:THR:OG1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:603:ILE:HD11	1:K:635:VAL:CG1	2.29	0.63
1:L:587:ARG:HG3	1:L:588:VAL:H	1.63	0.63
1:M:165:CYS:SG	1:M:178:ILE:HD13	2.38	0.63
1:M:437:TYR:O	1:M:441:ARG:NH1	2.31	0.63
1:O:104:ARG:HA	1:O:107:ILE:HG22	1.80	0.63
1:A:208:THR:OG1	1:A:210:ARG:NH1	2.31	0.63
1:A:635:VAL:HB	1:A:641:ASP:OD1	1.98	0.63
1:A:914:VAL:HG22	1:A:917:TYR:O	1.97	0.63
1:B:165:CYS:SG	1:B:178:ILE:HD13	2.38	0.63
1:B:603:ILE:HD11	1:B:635:VAL:CG1	2.29	0.63
1:D:437:TYR:O	1:D:441:ARG:NH1	2.31	0.63
1:F:165:CYS:SG	1:F:178:ILE:HD13	2.38	0.63
1:I:208:THR:OG1	1:I:210:ARG:NH1	2.31	0.63
1:J:386:LEU:CD1	1:J:420:ILE:HD13	2.28	0.63
1:K:914:VAL:HG22	1:K:917:TYR:O	1.97	0.63
1:L:165:CYS:SG	1:L:178:ILE:HD13	2.38	0.63
1:L:437:TYR:O	1:L:441:ARG:NH1	2.31	0.63
1:M:208:THR:OG1	1:M:210:ARG:NH1	2.31	0.63
1:M:603:ILE:HD11	1:M:635:VAL:CG1	2.29	0.63
1:N:517:THR:HG23	1:N:518:LEU:H	1.62	0.63
1:A:548:LYS:NZ	1:A:601:GLN:CA	2.61	0.63
1:C:165:CYS:SG	1:C:178:ILE:HD13	2.38	0.63
1:E:386:LEU:CD1	1:E:420:ILE:HD13	2.28	0.63
1:F:548:LYS:HZ2	1:F:601:GLN:N	1.96	0.63
1:G:208:THR:OG1	1:G:210:ARG:NH1	2.31	0.63
1:G:386:LEU:CD1	1:G:420:ILE:HD13	2.28	0.63
1:H:552:ASN:HB3	1:H:1226:TYR:HE1	1.64	0.63
1:H:603:ILE:HD11	1:H:635:VAL:CG1	2.29	0.63
1:J:411:VAL:O	1:J:423:PRO:HB3	1.99	0.63
1:L:552:ASN:HB3	1:L:1226:TYR:HE1	1.64	0.63
1:L:989:SER:HB2	1:L:1027:ASN:HD22	1.63	0.63
1:N:104:ARG:HA	1:N:107:ILE:HG22	1.80	0.63
1:N:208:THR:OG1	1:N:210:ARG:NH1	2.31	0.63
1:N:383:THR:HG23	1:N:419:THR:CA	2.27	0.63
1:N:475:LEU:HD23	1:N:478:ILE:HD12	1.80	0.63
1:O:603:ILE:HD11	1:O:635:VAL:CG1	2.29	0.63
1:P:208:THR:OG1	1:P:210:ARG:NH1	2.31	0.63
1:A:383:THR:HG23	1:A:419:THR:CA	2.27	0.63
1:A:587:ARG:HG3	1:A:588:VAL:H	1.63	0.63
1:B:104:ARG:HA	1:B:107:ILE:HG22	1.80	0.63
1:B:378:SER:N	1:B:422:ILE:HD11	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:548:LYS:HZ2	1:C:601:GLN:N	1.96	0.63
1:C:552:ASN:HB3	1:C:1226:TYR:HE1	1.64	0.63
1:C:635:VAL:HB	1:C:641:ASP:OD1	1.98	0.63
1:E:411:VAL:O	1:E:423:PRO:HB3	1.99	0.63
1:F:41:SER:HB3	1:F:44:GLU:HG2	1.81	0.63
1:G:548:LYS:HZ2	1:G:601:GLN:N	1.96	0.63
1:I:437:TYR:O	1:I:441:ARG:NH1	2.31	0.63
1:I:451:LYS:HD3	1:I:486:LEU:CD2	2.26	0.63
1:M:104:ARG:HA	1:M:107:ILE:HG22	1.80	0.63
1:M:378:SER:N	1:M:422:ILE:HD11	2.10	0.63
1:M:547:PRO:HB2	1:M:603:ILE:HA	1.80	0.63
1:N:914:VAL:HG22	1:N:917:TYR:O	1.97	0.63
1:O:552:ASN:HB3	1:O:1226:TYR:HE1	1.64	0.63
1:P:386:LEU:CD1	1:P:420:ILE:HD13	2.28	0.63
1:B:547:PRO:HB2	1:B:603:ILE:HA	1.80	0.63
1:C:41:SER:HB3	1:C:44:GLU:HG2	1.81	0.63
1:F:437:TYR:O	1:F:441:ARG:NH1	2.31	0.63
1:F:603:ILE:HD11	1:F:635:VAL:CG1	2.29	0.63
1:F:989:SER:HB2	1:F:1027:ASN:HD22	1.63	0.63
1:G:552:ASN:HB3	1:G:1226:TYR:HE1	1.63	0.63
2:G:1501:DTP:H8	2:G:1501:DTP:O2A	1.97	0.63
1:H:314:ARG:C	1:H:315:GLU:HG3	2.15	0.63
1:I:41:SER:HB3	1:I:44:GLU:HG2	1.81	0.63
1:I:165:CYS:SG	1:I:178:ILE:HD13	2.38	0.63
1:I:475:LEU:HD23	1:I:478:ILE:HD12	1.80	0.63
1:I:603:ILE:HD11	1:I:635:VAL:CG1	2.29	0.63
1:J:914:VAL:HG22	1:J:917:TYR:O	1.97	0.63
1:K:548:LYS:HZ2	1:K:601:GLN:N	1.96	0.63
1:L:41:SER:HB3	1:L:44:GLU:HG2	1.81	0.63
1:N:548:LYS:NZ	1:N:601:GLN:CA	2.61	0.63
1:N:635:VAL:HB	1:N:641:ASP:OD1	1.98	0.63
1:P:552:ASN:HB3	1:P:1226:TYR:HE1	1.64	0.63
1:A:104:ARG:HA	1:A:107:ILE:HG22	1.80	0.63
1:B:386:LEU:CD1	1:B:420:ILE:HD13	2.28	0.63
1:B:475:LEU:HD23	1:B:478:ILE:HD12	1.80	0.63
1:D:386:LEU:CD1	1:D:420:ILE:HD13	2.28	0.63
1:D:411:VAL:O	1:D:423:PRO:HB3	1.99	0.63
1:F:475:LEU:HD23	1:F:478:ILE:HD12	1.80	0.63
1:F:499:GLN:HB2	1:F:520:GLN:HE22	1.63	0.63
1:G:635:VAL:HB	1:G:641:ASP:OD1	1.98	0.63
1:H:437:TYR:O	1:H:441:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:198:LYS:NZ	1:P:222:HIS:CG	2.66	0.63
1:I:499:GLN:HB2	1:I:520:GLN:HE22	1.63	0.63
1:K:411:VAL:O	1:K:423:PRO:HB3	1.99	0.63
1:K:547:PRO:HB2	1:K:603:ILE:HA	1.80	0.63
1:L:411:VAL:O	1:L:423:PRO:HB3	1.99	0.63
1:L:547:PRO:HB2	1:L:603:ILE:HA	1.80	0.63
1:L:914:VAL:HG22	1:L:917:TYR:O	1.97	0.63
1:M:386:LEU:CD1	1:M:420:ILE:HD13	2.28	0.63
1:M:587:ARG:HG3	1:M:588:VAL:H	1.63	0.63
1:N:587:ARG:HG3	1:N:588:VAL:H	1.63	0.63
1:O:437:TYR:O	1:O:441:ARG:NH1	2.31	0.63
1:P:548:LYS:HZ2	1:P:601:GLN:N	1.96	0.63
1:P:635:VAL:HB	1:P:641:ASP:OD1	1.98	0.63
1:A:437:TYR:O	1:A:441:ARG:NH1	2.31	0.63
1:B:587:ARG:HG3	1:B:588:VAL:H	1.63	0.63
1:C:371:ARG:HG3	1:C:390:TRP:CD1	2.34	0.63
1:D:547:PRO:HB2	1:D:603:ILE:HA	1.80	0.63
1:D:548:LYS:HZ2	1:D:601:GLN:N	1.96	0.63
1:E:378:SER:H	1:E:422:ILE:HD13	1.61	0.63
1:E:499:GLN:HB2	1:E:520:GLN:HE22	1.63	0.63
1:E:914:VAL:HG22	1:E:917:TYR:O	1.97	0.63
1:G:411:VAL:O	1:G:423:PRO:HB3	1.99	0.63
1:J:41:SER:HB3	1:J:44:GLU:HG2	1.81	0.63
1:J:499:GLN:HB2	1:J:520:GLN:HE22	1.63	0.63
1:K:386:LEU:CD1	1:K:420:ILE:HD13	2.28	0.63
1:L:371:ARG:HG3	1:L:390:TRP:CD1	2.34	0.63
1:L:548:LYS:HZ2	1:L:601:GLN:N	1.96	0.63
1:M:475:LEU:HD23	1:M:478:ILE:HD12	1.80	0.63
1:P:411:VAL:O	1:P:423:PRO:HB3	1.99	0.63
2:P:1501:DTP:O1A	2:P:1501:DTP:H8	1.97	0.63
1:A:252:ALA:O	1:A:255:ALA:N	2.25	0.63
1:C:411:VAL:O	1:C:423:PRO:HB3	1.99	0.63
1:E:475:LEU:HD23	1:E:478:ILE:HD12	1.80	0.63
1:G:165:CYS:SG	1:G:178:ILE:HD13	2.38	0.63
1:I:989:SER:HB2	1:I:1027:ASN:HD22	1.63	0.63
1:K:371:ARG:HG3	1:K:390:TRP:CD1	2.34	0.63
1:L:458:LEU:CB	1:L:587:ARG:HH21	2.12	0.63
1:N:41:SER:HB3	1:N:44:GLU:HG2	1.81	0.63
1:O:314:ARG:C	1:O:315:GLU:HG3	2.16	0.63
1:P:165:CYS:SG	1:P:178:ILE:HD13	2.38	0.63
1:A:41:SER:HB3	1:A:44:GLU:HG2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:LEU:CB	1:A:587:ARG:HH21	2.12	0.63
1:A:603:ILE:HD11	1:A:635:VAL:CG1	2.29	0.63
1:B:517:THR:HA	1:B:520:GLN:CD	2.20	0.63
1:C:914:VAL:HG22	1:C:917:TYR:O	1.97	0.63
1:D:371:ARG:HG3	1:D:390:TRP:CD1	2.34	0.63
1:D:499:GLN:HB2	1:D:520:GLN:HE22	1.63	0.63
1:E:913:PRO:O	1:E:914:VAL:HG12	1.99	0.63
1:G:475:LEU:HD23	1:G:478:ILE:HD12	1.80	0.63
1:G:637:LEU:O	1:G:638:GLU:CB	2.43	0.63
1:H:475:LEU:HD23	1:H:478:ILE:HD12	1.80	0.63
1:J:475:LEU:HD23	1:J:478:ILE:HD12	1.80	0.63
1:J:913:PRO:O	1:J:914:VAL:HG12	1.99	0.63
1:K:499:GLN:HB2	1:K:520:GLN:HE22	1.63	0.63
1:N:216:ASN:ND2	1:O:194:GLU:OE2	2.32	0.63
1:N:252:ALA:O	1:N:255:ALA:N	2.25	0.63
1:N:437:TYR:O	1:N:441:ARG:NH1	2.31	0.63
1:N:458:LEU:CB	1:N:587:ARG:HH21	2.12	0.63
1:O:915:TYR:O	1:O:916:LYS:CB	2.47	0.63
1:A:371:ARG:HG3	1:A:390:TRP:CD1	2.34	0.62
1:A:913:PRO:O	1:A:914:VAL:HG12	1.99	0.62
1:B:838:ARG:HB2	1:B:847:VAL:HB	1.81	0.62
1:C:499:GLN:HB2	1:C:520:GLN:HE22	1.64	0.62
1:C:547:PRO:HB2	1:C:603:ILE:HA	1.80	0.62
1:D:41:SER:HB3	1:D:44:GLU:HG2	1.81	0.62
1:E:41:SER:HB3	1:E:44:GLU:HG2	1.81	0.62
1:F:53:ASP:O	1:F:57:GLY:N	2.27	0.62
1:F:371:ARG:HG3	1:F:390:TRP:CD1	2.34	0.62
1:F:386:LEU:CD1	1:F:420:ILE:HD13	2.28	0.62
1:F:548:LYS:NZ	1:F:601:GLN:CA	2.61	0.62
1:G:41:SER:HB3	1:G:44:GLU:HG2	1.81	0.62
1:G:437:TYR:O	1:G:441:ARG:NH1	2.31	0.62
1:H:41:SER:HB3	1:H:44:GLU:HG2	1.81	0.62
1:H:838:ARG:HB2	1:H:847:VAL:HB	1.81	0.62
1:H:915:TYR:O	1:H:916:LYS:CB	2.47	0.62
1:I:552:ASN:HB3	1:I:1226:TYR:HE1	1.64	0.62
1:J:371:ARG:HG3	1:J:390:TRP:CD1	2.34	0.62
1:L:499:GLN:HB2	1:L:520:GLN:HE22	1.63	0.62
1:M:517:THR:HA	1:M:520:GLN:CD	2.20	0.62
1:N:371:ARG:HG3	1:N:390:TRP:CD1	2.34	0.62
1:N:603:ILE:HD11	1:N:635:VAL:CG1	2.29	0.62
1:N:913:PRO:O	1:N:914:VAL:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:475:LEU:HD23	1:O:478:ILE:HD12	1.80	0.62
1:O:838:ARG:HB2	1:O:847:VAL:HB	1.81	0.62
1:P:41:SER:HB3	1:P:44:GLU:HG2	1.81	0.62
1:P:371:ARG:HG3	1:P:390:TRP:CD1	2.34	0.62
1:P:475:LEU:HD23	1:P:478:ILE:HD12	1.80	0.62
1:P:499:GLN:HB2	1:P:520:GLN:HE22	1.63	0.62
1:A:411:VAL:O	1:A:423:PRO:HB3	1.99	0.62
1:A:517:THR:HA	1:A:520:GLN:CD	2.20	0.62
1:B:41:SER:HB3	1:B:44:GLU:HG2	1.81	0.62
1:C:458:LEU:CB	1:C:587:ARG:HH21	2.12	0.62
1:D:194:GLU:OE2	1:E:216:ASN:ND2	2.33	0.62
1:E:371:ARG:HG3	1:E:390:TRP:CD1	2.34	0.62
1:F:464:ASP:O	1:F:468:TYR:HE2	1.81	0.62
1:G:371:ARG:HG3	1:G:390:TRP:CD1	2.34	0.62
1:G:458:LEU:CB	1:G:587:ARG:HH21	2.12	0.62
1:G:499:GLN:HB2	1:G:520:GLN:HE22	1.63	0.62
1:I:371:ARG:HG3	1:I:390:TRP:CD1	2.34	0.62
1:J:518:LEU:HD22	1:J:643:TYR:CE1	2.22	0.62
1:K:913:PRO:O	1:K:914:VAL:HG12	1.99	0.62
1:M:552:ASN:HB3	1:M:1226:TYR:HE1	1.64	0.62
1:M:838:ARG:HB2	1:M:847:VAL:HB	1.81	0.62
1:N:411:VAL:O	1:N:423:PRO:HB3	1.99	0.62
1:P:437:TYR:O	1:P:441:ARG:NH1	2.31	0.62
1:P:458:LEU:CB	1:P:587:ARG:HH21	2.12	0.62
1:P:637:LEU:O	1:P:638:GLU:CB	2.43	0.62
1:A:499:GLN:HB2	1:A:520:GLN:HE22	1.63	0.62
1:A:548:LYS:HG2	1:A:601:GLN:HA	1.81	0.62
1:B:499:GLN:HB2	1:B:520:GLN:HE22	1.63	0.62
1:B:548:LYS:HG2	1:B:601:GLN:HA	1.81	0.62
1:C:517:THR:HA	1:C:520:GLN:CD	2.20	0.62
1:D:913:PRO:O	1:D:914:VAL:HG12	1.99	0.62
1:F:312:LEU:CD2	1:F:313:PRO:HD2	2.30	0.62
1:G:517:THR:HA	1:G:520:GLN:CD	2.19	0.62
1:I:411:VAL:O	1:I:423:PRO:HB3	1.99	0.62
1:K:41:SER:HB3	1:K:44:GLU:HG2	1.81	0.62
1:M:41:SER:HB3	1:M:44:GLU:HG2	1.81	0.62
1:M:499:GLN:HB2	1:M:520:GLN:HE22	1.63	0.62
1:N:548:LYS:HG2	1:N:601:GLN:HA	1.81	0.62
1:O:41:SER:HB3	1:O:44:GLU:HG2	1.81	0.62
1:A:915:TYR:O	1:A:916:LYS:CB	2.47	0.62
1:C:603:ILE:HD11	1:C:635:VAL:CG1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:451:LYS:HD3	1:E:486:LEU:CD2	2.26	0.62
1:E:552:ASN:HB3	1:E:1226:TYR:HE1	1.64	0.62
1:F:411:VAL:O	1:F:423:PRO:HB3	1.99	0.62
1:F:552:ASN:HB3	1:F:1226:TYR:HE1	1.64	0.62
1:I:53:ASP:O	1:I:57:GLY:N	2.27	0.62
1:I:198:LYS:HZ1	1:P:222:HIS:CG	2.17	0.62
1:J:552:ASN:HB3	1:J:1226:TYR:HE1	1.64	0.62
1:L:312:LEU:CD2	1:L:313:PRO:HD2	2.30	0.62
1:M:548:LYS:HG2	1:M:601:GLN:HA	1.81	0.62
1:N:517:THR:HA	1:N:520:GLN:CD	2.19	0.62
1:N:915:TYR:O	1:N:916:LYS:CB	2.47	0.62
1:O:411:VAL:O	1:O:423:PRO:HB3	1.99	0.62
1:P:517:THR:HA	1:P:520:GLN:CD	2.20	0.62
1:B:552:ASN:HB3	1:B:1226:TYR:HE1	1.64	0.62
1:D:552:ASN:HB3	1:D:1226:TYR:HE1	1.64	0.62
1:G:603:ILE:HD11	1:G:635:VAL:CG1	2.29	0.62
1:H:548:LYS:HZ2	1:H:601:GLN:N	1.97	0.62
1:I:312:LEU:CD2	1:I:313:PRO:HD2	2.30	0.62
1:I:386:LEU:CD1	1:I:420:ILE:HD13	2.28	0.62
1:K:378:SER:H	1:K:422:ILE:HD13	1.62	0.62
1:L:517:THR:HA	1:L:520:GLN:CD	2.19	0.62
1:M:635:VAL:HB	1:M:641:ASP:OD1	1.98	0.62
1:N:313:PRO:CG	1:N:338:TRP:HE1	2.07	0.62
1:O:548:LYS:HZ2	1:O:601:GLN:N	1.97	0.62
1:O:587:ARG:HG3	1:O:588:VAL:H	1.63	0.62
1:P:603:ILE:HD11	1:P:635:VAL:CG1	2.29	0.62
1:A:552:ASN:HB3	1:A:1226:TYR:HE1	1.64	0.62
1:B:411:VAL:O	1:B:423:PRO:HB3	1.99	0.62
1:B:548:LYS:HZ2	1:B:601:GLN:N	1.96	0.62
1:B:635:VAL:HB	1:B:641:ASP:OD1	1.98	0.62
1:C:244:LEU:HD21	1:C:256:PHE:HD2	1.64	0.62
1:D:312:LEU:CD2	1:D:313:PRO:HD2	2.30	0.62
1:F:913:PRO:O	1:F:914:VAL:HG12	1.99	0.62
1:G:312:LEU:CD2	1:G:313:PRO:HD2	2.30	0.62
1:H:371:ARG:HG3	1:H:390:TRP:CD1	2.34	0.62
1:H:411:VAL:O	1:H:423:PRO:HB3	1.99	0.62
1:H:517:THR:HA	1:H:520:GLN:CD	2.19	0.62
1:I:216:ASN:ND2	1:J:194:GLU:OE2	2.33	0.62
1:I:464:ASP:O	1:I:468:TYR:HE2	1.81	0.62
1:I:517:THR:HA	1:I:520:GLN:CD	2.19	0.62
1:I:548:LYS:NZ	1:I:601:GLN:CA	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:451:LYS:HD3	1:J:486:LEU:CD2	2.26	0.62
1:K:276:SER:OG	1:L:122:LYS:HG3	2.00	0.62
1:L:603:ILE:HD11	1:L:635:VAL:CG1	2.29	0.62
1:N:499:GLN:HB2	1:N:520:GLN:HE22	1.64	0.62
1:B:371:ARG:HG3	1:B:390:TRP:CD1	2.34	0.62
1:B:538:LEU:HG	1:B:571:GLU:HG2	1.82	0.62
1:D:458:LEU:CB	1:D:587:ARG:HH21	2.12	0.62
1:E:587:ARG:HG3	1:E:588:VAL:H	1.63	0.62
1:E:603:ILE:HD11	1:E:635:VAL:CG1	2.29	0.62
1:F:517:THR:HA	1:F:520:GLN:CD	2.20	0.62
1:H:587:ARG:HG3	1:H:588:VAL:H	1.63	0.62
1:I:313:PRO:HA	1:I:338:TRP:HH2	1.63	0.62
1:I:913:PRO:O	1:I:914:VAL:HG12	1.99	0.62
1:J:458:LEU:CB	1:J:587:ARG:HH21	2.12	0.62
1:J:587:ARG:HG3	1:J:588:VAL:H	1.63	0.62
1:J:603:ILE:HD11	1:J:635:VAL:CG1	2.29	0.62
1:K:312:LEU:CD2	1:K:313:PRO:HD2	2.30	0.62
1:L:386:LEU:CD1	1:L:420:ILE:HD13	2.28	0.62
1:M:244:LEU:HD21	1:M:256:PHE:HD2	1.64	0.62
1:M:411:VAL:O	1:M:423:PRO:HB3	1.99	0.62
1:M:538:LEU:HG	1:M:571:GLU:HG2	1.82	0.62
1:M:548:LYS:HZ2	1:M:601:GLN:N	1.96	0.62
1:O:244:LEU:HD21	1:O:256:PHE:HD2	1.64	0.62
1:O:517:THR:HA	1:O:520:GLN:CD	2.19	0.62
1:P:312:LEU:CD2	1:P:313:PRO:HD2	2.30	0.62
1:P:913:PRO:O	1:P:914:VAL:HG12	1.99	0.62
1:A:313:PRO:CG	1:A:338:TRP:HE1	2.07	0.62
1:A:538:LEU:HG	1:A:571:GLU:HG2	1.82	0.62
1:A:916:LYS:HE2	1:B:1177:TYR:HE2	1.63	0.62
1:B:244:LEU:HD21	1:B:256:PHE:HD2	1.64	0.62
1:B:312:LEU:CD2	1:B:313:PRO:HD2	2.30	0.62
1:B:458:LEU:CB	1:B:587:ARG:HH21	2.12	0.62
1:C:475:LEU:HD23	1:C:478:ILE:HD12	1.80	0.62
1:C:538:LEU:HG	1:C:571:GLU:HG2	1.82	0.62
1:D:451:LYS:HD3	1:D:486:LEU:CD2	2.26	0.62
1:D:475:LEU:HD23	1:D:478:ILE:HD12	1.80	0.62
1:D:517:THR:HA	1:D:520:GLN:CD	2.20	0.62
1:E:458:LEU:CB	1:E:587:ARG:HH21	2.12	0.62
1:E:548:LYS:HG2	1:E:601:GLN:HA	1.81	0.62
1:F:198:LYS:NZ	1:G:222:HIS:CG	2.68	0.62
1:K:475:LEU:HD23	1:K:478:ILE:HD12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:552:ASN:HB3	1:K:1226:TYR:HE1	1.64	0.62
1:M:371:ARG:HG3	1:M:390:TRP:CD1	2.34	0.62
1:M:458:LEU:CB	1:M:587:ARG:HH21	2.12	0.62
1:N:538:LEU:HG	1:N:571:GLU:HG2	1.82	0.62
1:N:552:ASN:HB3	1:N:1226:TYR:HE1	1.63	0.62
1:O:53:ASP:O	1:O:57:GLY:N	2.27	0.62
1:O:371:ARG:HG3	1:O:390:TRP:CD1	2.34	0.62
1:O:458:LEU:CB	1:O:587:ARG:HH21	2.12	0.62
1:P:587:ARG:HG3	1:P:588:VAL:H	1.63	0.62
1:D:378:SER:H	1:D:422:ILE:HD13	1.62	0.62
1:G:587:ARG:HG3	1:G:588:VAL:H	1.63	0.62
1:G:913:PRO:O	1:G:914:VAL:HG12	1.99	0.62
1:H:53:ASP:O	1:H:57:GLY:N	2.27	0.62
1:H:244:LEU:HD21	1:H:256:PHE:HD2	1.64	0.62
1:I:458:LEU:CB	1:I:587:ARG:HH21	2.12	0.62
1:I:548:LYS:HG2	1:I:601:GLN:HA	1.81	0.62
1:J:548:LYS:HG2	1:J:601:GLN:HA	1.81	0.62
1:K:458:LEU:CB	1:K:587:ARG:HH21	2.12	0.62
1:K:587:ARG:HG3	1:K:588:VAL:H	1.63	0.62
1:N:312:LEU:CD2	1:N:313:PRO:HD2	2.30	0.62
1:O:378:SER:H	1:O:422:ILE:HD13	1.61	0.62
1:P:518:LEU:H	1:P:518:LEU:CD1	2.13	0.62
1:A:835:SER:OG	1:A:850:GLN:NE2	2.33	0.62
1:B:915:TYR:O	1:B:916:LYS:CB	2.47	0.62
1:C:386:LEU:CD1	1:C:420:ILE:HD13	2.28	0.62
1:C:548:LYS:HG2	1:C:601:GLN:HA	1.81	0.62
1:D:244:LEU:HD21	1:D:256:PHE:HD2	1.64	0.62
1:D:587:ARG:HG3	1:D:588:VAL:H	1.63	0.62
1:F:313:PRO:HA	1:F:338:TRP:HH2	1.63	0.62
1:G:518:LEU:H	1:G:518:LEU:CD1	2.13	0.62
1:H:458:LEU:CB	1:H:587:ARG:HH21	2.12	0.62
1:H:548:LYS:HG2	1:H:601:GLN:HA	1.81	0.62
1:N:835:SER:OG	1:N:850:GLN:NE2	2.33	0.62
1:O:518:LEU:H	1:O:518:LEU:CD1	2.13	0.62
1:A:312:LEU:CD2	1:A:313:PRO:HD2	2.30	0.61
1:C:451:LYS:HD3	1:C:486:LEU:CD2	2.26	0.61
1:E:517:THR:HA	1:E:520:GLN:CD	2.20	0.61
1:F:458:LEU:CB	1:F:587:ARG:HH21	2.12	0.61
1:F:587:ARG:HG3	1:F:588:VAL:H	1.63	0.61
1:H:518:LEU:H	1:H:518:LEU:CD1	2.13	0.61
1:I:587:ARG:HG3	1:I:588:VAL:H	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:451:LYS:HD3	1:K:486:LEU:CD2	2.26	0.61
1:L:244:LEU:HD21	1:L:256:PHE:HD2	1.64	0.61
1:L:538:LEU:HG	1:L:571:GLU:HG2	1.82	0.61
1:M:913:PRO:O	1:M:914:VAL:HG12	1.99	0.61
1:M:915:TYR:O	1:M:916:LYS:CB	2.47	0.61
1:P:244:LEU:HD21	1:P:256:PHE:HD2	1.64	0.61
1:B:835:SER:OG	1:B:850:GLN:NE2	2.33	0.61
1:C:378:SER:N	1:C:422:ILE:HD11	2.10	0.61
1:D:518:LEU:H	1:D:518:LEU:CD1	2.13	0.61
1:D:838:ARG:HB2	1:D:847:VAL:HB	1.81	0.61
1:F:333:ASP:OD2	1:G:403:ASN:ND2	2.33	0.61
1:F:548:LYS:HG2	1:F:601:GLN:HA	1.81	0.61
1:H:913:PRO:O	1:H:914:VAL:HG12	1.99	0.61
1:J:312:LEU:CD2	1:J:313:PRO:HD2	2.30	0.61
1:K:222:HIS:CG	1:L:198:LYS:HZ2	2.16	0.61
1:K:244:LEU:HD21	1:K:256:PHE:HD2	1.64	0.61
1:K:517:THR:HA	1:K:520:GLN:CD	2.20	0.61
1:K:518:LEU:H	1:K:518:LEU:CD1	2.13	0.61
1:M:216:ASN:ND2	1:N:194:GLU:OE2	2.33	0.61
1:M:835:SER:OG	1:M:850:GLN:NE2	2.33	0.61
1:O:548:LYS:HG2	1:O:601:GLN:HA	1.81	0.61
1:B:913:PRO:O	1:B:914:VAL:HG12	1.99	0.61
1:C:397:ASP:O	1:C:401:VAL:N	2.28	0.61
1:C:838:ARG:HB2	1:C:847:VAL:HB	1.81	0.61
1:F:244:LEU:HD21	1:F:256:PHE:HD2	1.64	0.61
1:G:244:LEU:HD21	1:G:256:PHE:HD2	1.64	0.61
1:L:518:LEU:H	1:L:518:LEU:CD1	2.13	0.61
1:L:548:LYS:HG2	1:L:601:GLN:HA	1.81	0.61
1:N:244:LEU:HD21	1:N:256:PHE:HD2	1.64	0.61
1:P:53:ASP:O	1:P:57:GLY:N	2.27	0.61
1:A:244:LEU:HD21	1:A:256:PHE:HD2	1.64	0.61
1:A:464:ASP:O	1:A:468:TYR:HE2	1.81	0.61
1:A:548:LYS:HZ2	1:A:601:GLN:N	1.97	0.61
1:A:838:ARG:HB2	1:A:847:VAL:HB	1.81	0.61
1:D:130:PRO:HA	1:D:290:MET:CE	2.31	0.61
1:E:130:PRO:HA	1:E:290:MET:CE	2.31	0.61
1:E:312:LEU:CD2	1:E:313:PRO:HD2	2.30	0.61
1:F:838:ARG:HB2	1:F:847:VAL:HB	1.81	0.61
1:G:464:ASP:O	1:G:468:TYR:HE2	1.81	0.61
1:J:244:LEU:HD21	1:J:256:PHE:HD2	1.64	0.61
1:K:276:SER:CB	1:L:122:LYS:HG3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:838:ARG:HB2	1:K:847:VAL:HB	1.81	0.61
1:M:130:PRO:HA	1:M:290:MET:CE	2.31	0.61
1:O:913:PRO:O	1:O:914:VAL:HG12	1.99	0.61
1:B:88:LEU:O	1:B:91:PRO:HD2	2.01	0.61
1:B:130:PRO:HA	1:B:290:MET:CE	2.31	0.61
1:C:88:LEU:O	1:C:91:PRO:HD2	2.01	0.61
1:C:130:PRO:HA	1:C:290:MET:CE	2.31	0.61
1:C:518:LEU:H	1:C:518:LEU:CD1	2.13	0.61
1:C:913:PRO:O	1:C:914:VAL:HG12	1.99	0.61
1:E:244:LEU:HD21	1:E:256:PHE:HD2	1.64	0.61
1:G:53:ASP:O	1:G:57:GLY:N	2.27	0.61
1:G:194:GLU:OE2	1:H:216:ASN:ND2	2.33	0.61
1:H:378:SER:H	1:H:422:ILE:HD13	1.62	0.61
1:I:244:LEU:HD21	1:I:256:PHE:HD2	1.64	0.61
1:I:838:ARG:HB2	1:I:847:VAL:HB	1.81	0.61
1:J:130:PRO:HA	1:J:290:MET:CE	2.31	0.61
1:K:130:PRO:HA	1:K:290:MET:CE	2.31	0.61
1:L:475:LEU:HD23	1:L:478:ILE:HD12	1.80	0.61
1:L:590:PHE:HD2	1:L:1263:MET:HA	1.66	0.61
1:M:88:LEU:O	1:M:91:PRO:HD2	2.01	0.61
1:N:548:LYS:HZ2	1:N:601:GLN:N	1.97	0.61
1:O:312:LEU:CD2	1:O:313:PRO:HD2	2.30	0.61
1:O:557:LYS:HZ2	1:O:1223:GLN:HG3	1.64	0.61
1:B:252:ALA:O	1:B:255:ALA:N	2.25	0.61
1:C:590:PHE:HD2	1:C:1263:MET:HA	1.66	0.61
1:F:518:LEU:H	1:F:518:LEU:CD1	2.13	0.61
1:H:538:LEU:HG	1:H:571:GLU:HG2	1.82	0.61
1:H:548:LYS:NZ	1:H:601:GLN:CA	2.61	0.61
1:J:517:THR:HA	1:J:520:GLN:CD	2.20	0.61
1:K:835:SER:OG	1:K:850:GLN:NE2	2.33	0.61
1:L:913:PRO:O	1:L:914:VAL:HG12	1.99	0.61
1:N:838:ARG:HB2	1:N:847:VAL:HB	1.81	0.61
1:O:835:SER:OG	1:O:850:GLN:NE2	2.33	0.61
1:P:464:ASP:O	1:P:468:TYR:HE2	1.81	0.61
1:A:590:PHE:HD2	1:A:1263:MET:HA	1.66	0.61
1:B:590:PHE:HD2	1:B:1263:MET:HA	1.66	0.61
1:D:548:LYS:HG2	1:D:601:GLN:HA	1.81	0.61
1:D:835:SER:OG	1:D:850:GLN:NE2	2.33	0.61
1:E:252:ALA:O	1:E:255:ALA:N	2.25	0.61
1:F:378:SER:H	1:F:422:ILE:HD13	1.62	0.61
1:H:88:LEU:O	1:H:91:PRO:HD2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:312:LEU:CD2	1:H:313:PRO:HD2	2.30	0.61
1:H:464:ASP:O	1:H:468:TYR:HE2	1.81	0.61
1:H:557:LYS:HZ2	1:H:1223:GLN:HG3	1.64	0.61
1:K:548:LYS:HG2	1:K:601:GLN:HA	1.81	0.61
1:K:590:PHE:HD2	1:K:1263:MET:HA	1.66	0.61
1:L:88:LEU:O	1:L:91:PRO:HD2	2.01	0.61
1:L:130:PRO:HA	1:L:290:MET:CE	2.31	0.61
1:L:631:LEU:HD23	1:L:646:ARG:HH21	1.66	0.61
1:M:590:PHE:HD2	1:M:1263:MET:HA	1.66	0.61
1:N:590:PHE:HD2	1:N:1263:MET:HA	1.66	0.61
1:O:538:LEU:HG	1:O:571:GLU:HG2	1.82	0.61
1:C:915:TYR:O	1:C:916:LYS:CB	2.47	0.61
1:D:590:PHE:HD2	1:D:1263:MET:HA	1.66	0.61
1:F:130:PRO:HA	1:F:290:MET:CE	2.31	0.61
1:H:835:SER:OG	1:H:850:GLN:NE2	2.33	0.61
1:I:130:PRO:HA	1:I:290:MET:CE	2.31	0.61
1:I:518:LEU:H	1:I:518:LEU:CD1	2.13	0.61
1:K:538:LEU:HG	1:K:571:GLU:HG2	1.82	0.61
1:M:252:ALA:O	1:M:255:ALA:N	2.25	0.61
1:O:88:LEU:O	1:O:91:PRO:HD2	2.01	0.61
1:A:130:PRO:HA	1:A:290:MET:CE	2.31	0.61
1:B:631:LEU:HD23	1:B:646:ARG:HH21	1.66	0.61
1:C:378:SER:H	1:C:422:ILE:HD13	1.61	0.61
1:C:631:LEU:HD23	1:C:646:ARG:HH21	1.66	0.61
1:C:919:VAL:HG12	1:C:933:THR:HG22	1.83	0.61
1:D:538:LEU:HG	1:D:571:GLU:HG2	1.82	0.61
1:E:548:LYS:NZ	1:E:601:GLN:CA	2.61	0.61
1:H:631:LEU:HD23	1:H:646:ARG:HH21	1.66	0.61
1:I:357:LEU:HD21	1:I:427:LEU:HD22	1.83	0.61
1:K:313:PRO:CG	1:K:338:TRP:HE1	2.08	0.61
1:L:378:SER:H	1:L:422:ILE:HD13	1.62	0.61
1:L:451:LYS:HD3	1:L:486:LEU:CD2	2.26	0.61
1:L:838:ARG:HB2	1:L:847:VAL:HB	1.81	0.61
1:L:915:TYR:O	1:L:916:LYS:CB	2.47	0.61
1:M:631:LEU:HD23	1:M:646:ARG:HH21	1.66	0.61
1:O:464:ASP:O	1:O:468:TYR:HE2	1.81	0.61
1:O:548:LYS:NZ	1:O:601:GLN:CA	2.61	0.61
1:O:631:LEU:HD23	1:O:646:ARG:HH21	1.66	0.61
1:P:548:LYS:HG2	1:P:601:GLN:HA	1.81	0.61
1:E:835:SER:OG	1:E:850:GLN:NE2	2.33	0.61
1:F:357:LEU:HD21	1:F:427:LEU:HD22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:548:LYS:HG2	1:G:601:GLN:HA	1.81	0.61
1:J:835:SER:OG	1:J:850:GLN:NE2	2.33	0.61
1:L:252:ALA:O	1:L:255:ALA:N	2.25	0.61
1:N:130:PRO:HA	1:N:290:MET:CE	2.31	0.61
1:N:518:LEU:H	1:N:518:LEU:CD1	2.13	0.61
1:B:919:VAL:HG12	1:B:933:THR:HG22	1.83	0.60
1:C:835:SER:OG	1:C:850:GLN:NE2	2.33	0.60
1:D:252:ALA:O	1:D:255:ALA:N	2.25	0.60
1:D:313:PRO:CG	1:D:338:TRP:HE1	2.07	0.60
1:E:590:PHE:HD2	1:E:1263:MET:HA	1.66	0.60
1:G:88:LEU:O	1:G:91:PRO:HD2	2.01	0.60
1:H:412:GLU:O	1:H:421:SER:O	2.19	0.60
1:J:590:PHE:HD2	1:J:1263:MET:HA	1.66	0.60
1:K:357:LEU:HD21	1:K:427:LEU:HD22	1.83	0.60
1:K:631:LEU:HD23	1:K:646:ARG:HH21	1.66	0.60
1:L:919:VAL:HG12	1:L:933:THR:HG22	1.83	0.60
1:O:412:GLU:O	1:O:421:SER:O	2.19	0.60
1:P:88:LEU:O	1:P:91:PRO:HD2	2.01	0.60
1:P:313:PRO:HA	1:P:338:TRP:HH2	1.63	0.60
1:A:412:GLU:O	1:A:421:SER:O	2.19	0.60
1:A:508:TRP:C	1:A:606:GLY:CA	2.69	0.60
1:A:631:LEU:HD23	1:A:646:ARG:HH21	1.66	0.60
1:B:412:GLU:O	1:B:421:SER:O	2.19	0.60
1:D:631:LEU:HD23	1:D:646:ARG:HH21	1.66	0.60
1:E:838:ARG:HB2	1:E:847:VAL:HB	1.81	0.60
1:F:252:ALA:O	1:F:255:ALA:N	2.25	0.60
1:F:590:PHE:HD2	1:F:1263:MET:HA	1.66	0.60
1:F:631:LEU:HD23	1:F:646:ARG:HH21	1.66	0.60
1:H:130:PRO:HA	1:H:290:MET:CE	2.31	0.60
1:H:637:LEU:O	1:H:638:GLU:CB	2.43	0.60
1:J:548:LYS:NZ	1:J:601:GLN:CA	2.61	0.60
1:M:412:GLU:O	1:M:421:SER:O	2.19	0.60
1:N:412:GLU:O	1:N:421:SER:O	2.19	0.60
1:N:508:TRP:C	1:N:606:GLY:CA	2.69	0.60
1:O:357:LEU:HD21	1:O:427:LEU:HD22	1.83	0.60
1:O:590:PHE:HD2	1:O:1263:MET:HA	1.66	0.60
1:B:451:LYS:HD3	1:B:486:LEU:CD2	2.26	0.60
1:E:357:LEU:HD21	1:E:427:LEU:HD22	1.83	0.60
1:G:488:ARG:HG2	1:G:491:PHE:CD2	2.36	0.60
1:G:590:PHE:HD2	1:G:1263:MET:HA	1.66	0.60
1:H:357:LEU:HD21	1:H:427:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:590:PHE:HD2	1:H:1263:MET:HA	1.66	0.60
1:H:663:GLN:HB2	1:H:680:LEU:HD12	1.83	0.60
1:H:712:LEU:HD13	1:H:738:ASN:HD22	1.67	0.60
1:K:252:ALA:O	1:K:255:ALA:N	2.25	0.60
1:L:357:LEU:HD21	1:L:427:LEU:HD22	1.83	0.60
1:L:835:SER:OG	1:L:850:GLN:NE2	2.33	0.60
1:O:663:GLN:HB2	1:O:680:LEU:HD12	1.83	0.60
1:O:712:LEU:HD13	1:O:738:ASN:HD22	1.67	0.60
1:A:518:LEU:H	1:A:518:LEU:CD1	2.13	0.60
1:A:663:GLN:HB2	1:A:680:LEU:HD12	1.83	0.60
1:C:412:GLU:O	1:C:421:SER:O	2.19	0.60
1:D:357:LEU:HD21	1:D:427:LEU:HD22	1.83	0.60
1:D:412:GLU:O	1:D:421:SER:O	2.19	0.60
1:D:915:TYR:O	1:D:916:LYS:CB	2.47	0.60
1:G:313:PRO:HA	1:G:338:TRP:HH2	1.63	0.60
1:G:412:GLU:O	1:G:421:SER:O	2.19	0.60
1:G:538:LEU:HG	1:G:571:GLU:HG2	1.82	0.60
1:G:838:ARG:HB2	1:G:847:VAL:HB	1.81	0.60
1:H:488:ARG:HG2	1:H:491:PHE:CD2	2.37	0.60
1:J:252:ALA:O	1:J:255:ALA:N	2.25	0.60
1:J:357:LEU:HD21	1:J:427:LEU:HD22	1.83	0.60
1:J:838:ARG:HB2	1:J:847:VAL:HB	1.81	0.60
1:K:53:ASP:O	1:K:57:GLY:N	2.27	0.60
1:L:412:GLU:O	1:L:421:SER:O	2.20	0.60
1:M:919:VAL:HG12	1:M:933:THR:HG22	1.84	0.60
1:O:130:PRO:HA	1:O:290:MET:CE	2.31	0.60
1:O:637:LEU:O	1:O:638:GLU:CB	2.43	0.60
1:P:412:GLU:O	1:P:421:SER:O	2.19	0.60
1:P:488:ARG:HG2	1:P:491:PHE:CD2	2.37	0.60
1:P:590:PHE:HD2	1:P:1263:MET:HA	1.66	0.60
1:P:835:SER:OG	1:P:850:GLN:NE2	2.33	0.60
1:P:838:ARG:HB2	1:P:847:VAL:HB	1.81	0.60
1:B:518:LEU:H	1:B:518:LEU:CD1	2.13	0.60
1:C:97:ARG:NH2	1:L:97:ARG:NH2	2.49	0.60
1:C:357:LEU:HD21	1:C:427:LEU:HD22	1.83	0.60
1:D:548:LYS:NZ	1:D:601:GLN:CA	2.61	0.60
1:D:916:LYS:CE	1:E:1177:TYR:CE2	2.85	0.60
1:D:919:VAL:HG12	1:D:933:THR:HG22	1.83	0.60
1:E:915:TYR:O	1:E:916:LYS:CB	2.47	0.60
1:F:915:TYR:O	1:F:916:LYS:CB	2.47	0.60
1:G:835:SER:OG	1:G:850:GLN:NE2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:53:ASP:O	1:J:57:GLY:N	2.27	0.60
1:K:412:GLU:O	1:K:421:SER:O	2.19	0.60
1:K:919:VAL:HG12	1:K:933:THR:HG22	1.83	0.60
1:M:451:LYS:HD3	1:M:486:LEU:CD2	2.26	0.60
1:N:631:LEU:HD23	1:N:646:ARG:HH21	1.66	0.60
1:O:488:ARG:HG2	1:O:491:PHE:CD2	2.37	0.60
1:P:130:PRO:HA	1:P:290:MET:CE	2.31	0.60
1:P:663:GLN:HB2	1:P:680:LEU:HD12	1.83	0.60
1:A:488:ARG:HG2	1:A:491:PHE:CD2	2.36	0.60
1:C:53:ASP:O	1:C:57:GLY:N	2.27	0.60
1:C:488:ARG:HG2	1:C:491:PHE:CD2	2.36	0.60
1:D:53:ASP:O	1:D:57:GLY:N	2.27	0.60
1:F:397:ASP:O	1:F:401:VAL:N	2.28	0.60
1:F:835:SER:OG	1:F:850:GLN:NE2	2.33	0.60
1:G:130:PRO:HA	1:G:290:MET:CE	2.31	0.60
1:G:186:CYS:O	1:G:187:ASN:ND2	2.35	0.60
1:G:712:LEU:HD13	1:G:738:ASN:HD22	1.67	0.60
1:I:538:LEU:HG	1:I:571:GLU:HG2	1.82	0.60
1:I:590:PHE:HD2	1:I:1263:MET:HA	1.66	0.60
1:I:631:LEU:HD23	1:I:646:ARG:HH21	1.66	0.60
1:I:835:SER:OG	1:I:850:GLN:NE2	2.33	0.60
1:J:631:LEU:HD23	1:J:646:ARG:HH21	1.66	0.60
1:K:915:TYR:O	1:K:916:LYS:CB	2.47	0.60
1:L:397:ASP:O	1:L:401:VAL:N	2.28	0.60
1:M:508:TRP:C	1:M:606:GLY:CA	2.69	0.60
1:M:518:LEU:H	1:M:518:LEU:CD1	2.13	0.60
1:N:663:GLN:HB2	1:N:680:LEU:HD12	1.83	0.60
1:P:538:LEU:HG	1:P:571:GLU:HG2	1.82	0.60
1:B:508:TRP:C	1:B:606:GLY:CA	2.69	0.60
1:C:121:ALA:HB1	1:D:276:SER:CB	2.22	0.60
1:C:252:ALA:O	1:C:255:ALA:N	2.25	0.60
1:C:712:LEU:HD13	1:C:738:ASN:HD22	1.67	0.60
1:E:518:LEU:H	1:E:518:LEU:CD1	2.13	0.60
1:E:538:LEU:HG	1:E:571:GLU:HG2	1.82	0.60
1:E:631:LEU:HD23	1:E:646:ARG:HH21	1.66	0.60
1:F:88:LEU:O	1:F:91:PRO:HD2	2.01	0.60
1:G:357:LEU:HD21	1:G:427:LEU:HD22	1.83	0.60
1:G:663:GLN:HB2	1:G:680:LEU:HD12	1.83	0.60
1:I:252:ALA:O	1:I:255:ALA:N	2.25	0.60
1:J:317:LEU:C	1:J:318:THR:HG1	1.96	0.60
1:J:538:LEU:HG	1:J:571:GLU:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:488:ARG:HG2	1:N:491:PHE:CD2	2.37	0.60
1:P:186:CYS:O	1:P:187:ASN:ND2	2.35	0.60
1:B:357:LEU:HD21	1:B:427:LEU:HD22	1.83	0.60
1:B:712:LEU:HD13	1:B:738:ASN:HD22	1.67	0.60
1:C:548:LYS:NZ	1:C:601:GLN:CA	2.61	0.60
1:D:712:LEU:HD13	1:D:738:ASN:HD22	1.67	0.60
1:E:88:LEU:O	1:E:91:PRO:HD2	2.01	0.60
1:E:188:SER:N	1:E:251:APK:O2P	2.31	0.60
1:E:198:LYS:NZ	1:F:222:HIS:CG	2.70	0.60
1:E:412:GLU:O	1:E:421:SER:O	2.19	0.60
1:I:88:LEU:O	1:I:91:PRO:HD2	2.01	0.60
1:J:412:GLU:O	1:J:421:SER:O	2.19	0.60
1:J:518:LEU:H	1:J:518:LEU:CD1	2.13	0.60
1:J:915:TYR:O	1:J:916:LYS:CB	2.47	0.60
1:M:357:LEU:HD21	1:M:427:LEU:HD22	1.83	0.60
1:M:663:GLN:HB2	1:M:680:LEU:HD12	1.83	0.60
1:N:186:CYS:O	1:N:187:ASN:ND2	2.35	0.60
1:N:518:LEU:HA	1:N:521:LEU:HB3	1.84	0.60
1:N:712:LEU:HD13	1:N:738:ASN:HD22	1.67	0.60
1:P:357:LEU:HD21	1:P:427:LEU:HD22	1.83	0.60
1:P:712:LEU:HD13	1:P:738:ASN:HD22	1.67	0.60
1:A:88:LEU:O	1:A:91:PRO:HD2	2.01	0.60
1:A:186:CYS:O	1:A:187:ASN:ND2	2.35	0.60
1:A:397:ASP:O	1:A:401:VAL:N	2.28	0.60
1:A:518:LEU:HA	1:A:521:LEU:HB3	1.84	0.60
1:B:663:GLN:HB2	1:B:680:LEU:HD12	1.83	0.60
1:D:88:LEU:O	1:D:91:PRO:HD2	2.01	0.60
1:E:508:TRP:C	1:E:606:GLY:CA	2.69	0.60
1:F:538:LEU:HG	1:F:571:GLU:HG2	1.82	0.60
1:I:186:CYS:O	1:I:187:ASN:ND2	2.35	0.60
1:I:412:GLU:O	1:I:421:SER:O	2.19	0.60
1:I:915:TYR:O	1:I:916:LYS:CB	2.47	0.60
1:N:88:LEU:O	1:N:91:PRO:HD2	2.01	0.60
1:O:313:PRO:HA	1:O:338:TRP:HH2	1.63	0.60
1:P:518:LEU:HA	1:P:521:LEU:HB3	1.84	0.60
1:A:216:ASN:ND2	1:H:194:GLU:OE2	2.35	0.60
1:A:378:SER:HA	1:A:422:ILE:HD12	1.84	0.60
1:A:712:LEU:HD13	1:A:738:ASN:HD22	1.67	0.60
1:A:919:VAL:HG12	1:A:933:THR:HG22	1.83	0.60
1:E:317:LEU:C	1:E:318:THR:HG1	1.97	0.60
1:F:186:CYS:O	1:F:187:ASN:ND2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:412:GLU:O	1:F:421:SER:O	2.19	0.60
1:I:313:PRO:CG	1:I:338:TRP:HE1	2.07	0.60
1:J:769:ARG:HH12	1:J:771:PHE:HB2	1.67	0.60
1:K:519:GLN:HG2	1:K:523:PHE:CE2	2.37	0.60
1:K:548:LYS:NZ	1:K:601:GLN:CA	2.61	0.60
1:K:712:LEU:HD13	1:K:738:ASN:HD22	1.67	0.60
1:L:712:LEU:HD13	1:L:738:ASN:HD22	1.67	0.60
1:M:712:LEU:HD13	1:M:738:ASN:HD22	1.67	0.60
1:B:519:GLN:HG2	1:B:523:PHE:CE2	2.37	0.59
1:D:663:GLN:HB2	1:D:680:LEU:HD12	1.83	0.59
1:D:769:ARG:HH12	1:D:771:PHE:HB2	1.67	0.59
1:E:663:GLN:HB2	1:E:680:LEU:HD12	1.83	0.59
1:E:769:ARG:HH12	1:E:771:PHE:HB2	1.67	0.59
1:F:316:VAL:HG23	1:F:316:VAL:O	2.02	0.59
1:G:518:LEU:HA	1:G:521:LEU:HB3	1.84	0.59
1:G:557:LYS:HZ2	1:G:1223:GLN:HG3	1.67	0.59
1:I:511:SER:HA	1:I:514:ILE:N	2.17	0.59
1:I:769:ARG:HH12	1:I:771:PHE:HB2	1.67	0.59
1:J:188:SER:N	1:J:251:APK:O2P	2.31	0.59
1:J:508:TRP:C	1:J:606:GLY:CA	2.69	0.59
1:K:88:LEU:O	1:K:91:PRO:HD2	2.01	0.59
1:K:663:GLN:HB2	1:K:680:LEU:HD12	1.83	0.59
1:L:53:ASP:O	1:L:57:GLY:N	2.27	0.59
1:M:519:GLN:HG2	1:M:523:PHE:CE2	2.37	0.59
1:N:378:SER:HA	1:N:422:ILE:HD12	1.84	0.59
1:P:557:LYS:HZ2	1:P:1223:GLN:HG3	1.67	0.59
1:B:488:ARG:HG2	1:B:491:PHE:CD2	2.37	0.59
1:D:519:GLN:HG2	1:D:523:PHE:CE2	2.37	0.59
1:F:511:SER:HA	1:F:514:ILE:N	2.17	0.59
1:H:313:PRO:HA	1:H:338:TRP:HH2	1.63	0.59
1:I:316:VAL:HG23	1:I:316:VAL:O	2.02	0.59
1:I:488:ARG:HG2	1:I:491:PHE:CD2	2.36	0.59
1:J:88:LEU:O	1:J:91:PRO:HD2	2.01	0.59
1:J:663:GLN:HB2	1:J:680:LEU:HD12	1.83	0.59
1:J:919:VAL:HG12	1:J:933:THR:HG22	1.83	0.59
1:K:365:TYR:O	1:K:368:MET:N	2.21	0.59
1:K:769:ARG:HH12	1:K:771:PHE:HB2	1.67	0.59
1:L:488:ARG:HG2	1:L:491:PHE:CD2	2.37	0.59
1:L:508:TRP:C	1:L:606:GLY:CA	2.69	0.59
1:M:511:SER:HA	1:M:514:ILE:N	2.17	0.59
1:N:365:TYR:O	1:N:368:MET:N	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:919:VAL:HG12	1:N:933:THR:HG22	1.83	0.59
1:A:357:LEU:HD21	1:A:427:LEU:HD22	1.83	0.59
1:A:916:LYS:CE	1:B:1177:TYR:HE2	2.15	0.59
1:B:511:SER:HA	1:B:514:ILE:N	2.17	0.59
1:E:519:GLN:HG2	1:E:523:PHE:CE2	2.37	0.59
1:E:919:VAL:HG12	1:E:933:THR:HG22	1.83	0.59
1:F:313:PRO:CG	1:F:338:TRP:HE1	2.07	0.59
1:H:511:SER:HA	1:H:514:ILE:N	2.17	0.59
1:I:142:ARG:NH1	1:J:14:ASP:OD2	2.35	0.59
1:I:365:TYR:O	1:I:368:MET:N	2.21	0.59
1:I:517:THR:O	1:I:519:GLN:N	2.35	0.59
1:J:488:ARG:HG2	1:J:491:PHE:CD2	2.37	0.59
1:J:511:SER:HA	1:J:514:ILE:N	2.18	0.59
1:J:517:THR:O	1:J:519:GLN:N	2.35	0.59
1:K:508:TRP:C	1:K:606:GLY:CA	2.69	0.59
1:M:488:ARG:HG2	1:M:491:PHE:CD2	2.37	0.59
1:M:518:LEU:HA	1:M:521:LEU:HB3	1.84	0.59
1:N:519:GLN:HG2	1:N:523:PHE:CE2	2.37	0.59
1:O:511:SER:HA	1:O:514:ILE:N	2.17	0.59
1:A:519:GLN:HG2	1:A:523:PHE:CE2	2.37	0.59
1:B:518:LEU:HA	1:B:521:LEU:HB3	1.84	0.59
1:C:508:TRP:C	1:C:606:GLY:CA	2.70	0.59
1:C:518:LEU:HA	1:C:521:LEU:HB3	1.84	0.59
1:D:488:ARG:HG2	1:D:491:PHE:CD2	2.37	0.59
1:D:508:TRP:C	1:D:606:GLY:CA	2.69	0.59
1:E:186:CYS:O	1:E:187:ASN:ND2	2.35	0.59
1:E:488:ARG:HG2	1:E:491:PHE:CD2	2.37	0.59
1:E:511:SER:HA	1:E:514:ILE:N	2.18	0.59
1:E:517:THR:O	1:E:519:GLN:N	2.35	0.59
1:E:712:LEU:HD13	1:E:738:ASN:HD22	1.67	0.59
1:F:769:ARG:HH12	1:F:771:PHE:HB2	1.67	0.59
1:J:519:GLN:HG2	1:J:523:PHE:CE2	2.37	0.59
1:K:548:LYS:HZ2	1:K:601:GLN:H	1.51	0.59
1:L:663:GLN:HB2	1:L:680:LEU:HD12	1.83	0.59
1:N:142:ARG:NH1	1:O:14:ASP:OD2	2.33	0.59
1:N:397:ASP:O	1:N:401:VAL:N	2.28	0.59
1:C:769:ARG:HH12	1:C:771:PHE:HB2	1.67	0.59
1:D:365:TYR:O	1:D:368:MET:N	2.21	0.59
1:D:511:SER:HA	1:D:514:ILE:N	2.18	0.59
1:F:130:PRO:HA	1:F:290:MET:HE1	1.84	0.59
1:F:663:GLN:HB2	1:F:680:LEU:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:397:ASP:O	1:I:401:VAL:N	2.28	0.59
1:J:216:ASN:ND2	1:K:194:GLU:OE2	2.36	0.59
1:J:712:LEU:HD13	1:J:738:ASN:HD22	1.67	0.59
1:K:276:SER:HB2	1:L:122:LYS:HG3	1.84	0.59
1:K:488:ARG:HG2	1:K:491:PHE:CD2	2.37	0.59
1:K:511:SER:HA	1:K:514:ILE:N	2.18	0.59
1:L:186:CYS:O	1:L:187:ASN:ND2	2.35	0.59
1:M:142:ARG:NH1	1:N:14:ASP:OD2	2.34	0.59
1:N:357:LEU:HD21	1:N:427:LEU:HD22	1.83	0.59
1:A:365:TYR:O	1:A:368:MET:N	2.21	0.59
1:B:188:SER:N	1:B:251:APK:O2P	2.31	0.59
1:B:316:VAL:O	1:B:316:VAL:HG23	2.02	0.59
1:C:312:LEU:CD2	1:C:313:PRO:HD2	2.30	0.59
1:C:517:THR:O	1:C:519:GLN:N	2.35	0.59
1:E:316:VAL:O	1:E:316:VAL:HG23	2.02	0.59
1:H:378:SER:HA	1:H:422:ILE:HD12	1.84	0.59
1:I:663:GLN:HB2	1:I:680:LEU:HD12	1.83	0.59
1:J:186:CYS:O	1:J:187:ASN:ND2	2.35	0.59
1:J:316:VAL:O	1:J:316:VAL:HG23	2.02	0.59
1:K:518:LEU:HA	1:K:521:LEU:HB3	1.84	0.59
1:L:518:LEU:HA	1:L:521:LEU:HB3	1.84	0.59
1:M:186:CYS:O	1:M:187:ASN:ND2	2.35	0.59
1:M:188:SER:N	1:M:251:APK:O2P	2.31	0.59
1:M:316:VAL:O	1:M:316:VAL:HG23	2.02	0.59
1:N:24:VAL:HA	1:N:58:THR:HG21	1.85	0.59
1:B:24:VAL:HA	1:B:58:THR:HG21	1.85	0.59
1:B:186:CYS:O	1:B:187:ASN:ND2	2.35	0.59
1:B:499:GLN:HB2	1:B:520:GLN:NE2	2.18	0.59
1:C:186:CYS:O	1:C:187:ASN:ND2	2.35	0.59
1:C:365:TYR:O	1:C:368:MET:N	2.21	0.59
1:C:663:GLN:HB2	1:C:680:LEU:HD12	1.83	0.59
1:D:517:THR:O	1:D:519:GLN:N	2.35	0.59
1:E:442:SER:O	1:E:446:HIS:CG	2.55	0.59
1:F:14:ASP:CG	1:G:142:ARG:HH22	2.06	0.59
1:F:314:ARG:O	1:F:315:GLU:HB2	2.03	0.59
1:F:517:THR:O	1:F:519:GLN:N	2.35	0.59
1:F:712:LEU:HD13	1:F:738:ASN:HD22	1.67	0.59
1:G:316:VAL:HG23	1:G:316:VAL:O	2.02	0.59
1:G:915:TYR:O	1:G:916:LYS:CB	2.47	0.59
1:L:769:ARG:HH12	1:L:771:PHE:HB2	1.67	0.59
1:M:378:SER:HA	1:M:422:ILE:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:499:GLN:HB2	1:M:520:GLN:NE2	2.18	0.59
1:O:499:GLN:HB2	1:O:520:GLN:NE2	2.18	0.59
1:A:24:VAL:HA	1:A:58:THR:HG21	1.85	0.59
1:B:378:SER:HA	1:B:422:ILE:HD12	1.84	0.59
1:C:511:SER:HA	1:C:514:ILE:N	2.17	0.59
1:D:518:LEU:HA	1:D:521:LEU:HB3	1.84	0.59
1:E:499:GLN:HB2	1:E:520:GLN:NE2	2.18	0.59
1:E:518:LEU:HA	1:E:521:LEU:HB3	1.84	0.59
1:F:444:VAL:HG22	1:F:478:ILE:HG12	1.85	0.59
1:F:488:ARG:HG2	1:F:491:PHE:CD2	2.37	0.59
1:F:504:ASP:OD2	1:F:509:ASN:O	2.21	0.59
1:F:919:VAL:HG12	1:F:933:THR:HG22	1.83	0.59
1:H:442:SER:O	1:H:446:HIS:CG	2.55	0.59
1:H:517:THR:O	1:H:519:GLN:N	2.35	0.59
1:I:314:ARG:O	1:I:315:GLU:HB2	2.03	0.59
1:I:444:VAL:HG22	1:I:478:ILE:HG12	1.85	0.59
1:I:504:ASP:OD2	1:I:509:ASN:O	2.21	0.59
1:J:518:LEU:HA	1:J:521:LEU:HB3	1.84	0.59
1:K:517:THR:O	1:K:519:GLN:N	2.35	0.59
1:L:442:SER:O	1:L:446:HIS:CG	2.55	0.59
1:L:511:SER:HA	1:L:514:ILE:N	2.17	0.59
1:M:24:VAL:HA	1:M:58:THR:HG21	1.85	0.59
1:M:312:LEU:CD2	1:M:313:PRO:HD2	2.30	0.59
1:O:378:SER:HA	1:O:422:ILE:HD12	1.84	0.59
1:O:517:THR:O	1:O:519:GLN:N	2.35	0.59
1:P:316:VAL:HG23	1:P:316:VAL:O	2.02	0.59
1:P:915:TYR:O	1:P:916:LYS:CB	2.47	0.59
1:A:188:SER:N	1:A:251:APK:O2P	2.31	0.59
1:A:637:LEU:O	1:A:638:GLU:CB	2.43	0.59
1:C:24:VAL:HA	1:C:58:THR:HG21	1.85	0.59
1:F:371:ARG:HB3	1:F:389:ILE:HG21	1.85	0.59
1:G:252:ALA:O	1:G:255:ALA:N	2.25	0.59
1:G:371:ARG:HB3	1:G:389:ILE:HG21	1.85	0.59
1:G:444:VAL:HG22	1:G:478:ILE:HG12	1.85	0.59
1:G:631:LEU:HD23	1:G:646:ARG:HH21	1.66	0.59
1:H:313:PRO:CG	1:H:338:TRP:HE1	2.07	0.59
1:H:499:GLN:HB2	1:H:520:GLN:NE2	2.18	0.59
1:H:504:ASP:OD2	1:H:509:ASN:O	2.21	0.59
1:H:919:VAL:HG12	1:H:933:THR:HG22	1.83	0.59
1:I:371:ARG:HB3	1:I:389:ILE:HG21	1.85	0.59
1:I:499:GLN:HB2	1:I:520:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:442:SER:O	1:J:446:HIS:CG	2.55	0.59
1:J:499:GLN:HB2	1:J:520:GLN:NE2	2.18	0.59
1:L:517:THR:O	1:L:519:GLN:N	2.35	0.59
1:L:548:LYS:HZ2	1:L:601:GLN:H	1.51	0.59
1:M:11:GLN:NE2	1:M:70:GLU:OE1	2.36	0.59
1:O:24:VAL:HA	1:O:58:THR:HG21	1.85	0.59
1:O:313:PRO:CG	1:O:338:TRP:HE1	2.07	0.59
1:O:442:SER:O	1:O:446:HIS:CG	2.55	0.59
1:O:919:VAL:HG12	1:O:933:THR:HG22	1.83	0.59
1:O:1177:TYR:HE2	1:P:916:LYS:CE	2.16	0.59
1:P:371:ARG:HB3	1:P:389:ILE:HG21	1.85	0.59
1:P:444:VAL:HG22	1:P:478:ILE:HG12	1.85	0.59
1:P:504:ASP:OD2	1:P:509:ASN:O	2.21	0.59
1:A:451:LYS:HD3	1:A:486:LEU:CD2	2.26	0.59
1:B:11:GLN:NE2	1:B:70:GLU:OE1	2.36	0.59
1:B:53:ASP:O	1:B:57:GLY:N	2.27	0.59
1:B:130:PRO:HA	1:B:290:MET:HE1	1.85	0.59
1:C:442:SER:O	1:C:446:HIS:CG	2.55	0.59
1:C:548:LYS:HZ2	1:C:601:GLN:H	1.51	0.59
1:D:186:CYS:O	1:D:187:ASN:ND2	2.35	0.59
1:D:248:GLN:CD	1:D:268:PHE:CE2	2.74	0.59
1:D:819:PHE:HD1	1:D:830:LEU:HD13	1.68	0.59
1:E:444:VAL:HG22	1:E:478:ILE:HG12	1.85	0.59
1:E:819:PHE:HD1	1:E:830:LEU:HD13	1.68	0.59
1:F:11:GLN:NE2	1:F:70:GLU:OE1	2.36	0.59
1:G:499:GLN:HB2	1:G:520:GLN:NE2	2.18	0.59
1:G:504:ASP:OD2	1:G:509:ASN:O	2.21	0.59
1:H:24:VAL:HA	1:H:58:THR:HG21	1.85	0.59
1:H:186:CYS:O	1:H:187:ASN:ND2	2.35	0.59
1:I:919:VAL:HG12	1:I:933:THR:HG22	1.83	0.59
1:J:444:VAL:HG22	1:J:478:ILE:HG12	1.85	0.59
1:J:633:THR:HG21	1:J:643:TYR:CA	2.33	0.59
1:J:819:PHE:HD1	1:J:830:LEU:HD13	1.68	0.59
1:K:186:CYS:O	1:K:187:ASN:ND2	2.35	0.59
1:K:819:PHE:HD1	1:K:830:LEU:HD13	1.68	0.59
1:K:1055:GLU:HG3	1:K:1056:GLU:H	1.68	0.59
1:M:53:ASP:O	1:M:57:GLY:N	2.27	0.59
1:M:130:PRO:HA	1:M:290:MET:HE1	1.85	0.59
1:O:504:ASP:OD2	1:O:509:ASN:O	2.21	0.59
1:P:11:GLN:NE2	1:P:70:GLU:OE1	2.36	0.59
1:P:499:GLN:HB2	1:P:520:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:769:ARG:HH12	1:P:771:PHE:HB2	1.67	0.59
1:A:316:VAL:HG23	1:A:316:VAL:O	2.02	0.58
1:A:371:ARG:HB3	1:A:389:ILE:HG21	1.85	0.58
1:A:499:GLN:HB2	1:A:520:GLN:NE2	2.18	0.58
1:A:511:SER:HA	1:A:514:ILE:N	2.17	0.58
1:D:24:VAL:HA	1:D:58:THR:HG21	1.85	0.58
1:D:444:VAL:HG22	1:D:478:ILE:HG12	1.85	0.58
1:E:314:ARG:O	1:E:315:GLU:HB2	2.03	0.58
1:F:365:TYR:O	1:F:368:MET:N	2.21	0.58
1:F:499:GLN:HB2	1:F:520:GLN:NE2	2.18	0.58
1:F:519:GLN:HG2	1:F:523:PHE:CE2	2.37	0.58
1:G:11:GLN:NE2	1:G:70:GLU:OE1	2.36	0.58
1:G:769:ARG:HH12	1:G:771:PHE:HB2	1.67	0.58
1:H:518:LEU:HA	1:H:521:LEU:HB3	1.84	0.58
1:I:712:LEU:HD13	1:I:738:ASN:HD22	1.67	0.58
1:J:314:ARG:O	1:J:315:GLU:HB2	2.03	0.58
1:J:504:ASP:OD2	1:J:509:ASN:O	2.21	0.58
1:K:248:GLN:CD	1:K:268:PHE:CE2	2.74	0.58
1:K:444:VAL:HG22	1:K:478:ILE:HG12	1.85	0.58
1:K:499:GLN:HB2	1:K:520:GLN:NE2	2.18	0.58
1:L:548:LYS:NZ	1:L:601:GLN:CA	2.61	0.58
1:M:769:ARG:HH12	1:M:771:PHE:HB2	1.67	0.58
1:M:819:PHE:HD1	1:M:830:LEU:HD13	1.68	0.58
1:N:11:GLN:NE2	1:N:70:GLU:OE1	2.36	0.58
1:N:188:SER:N	1:N:251:APK:O2P	2.31	0.58
1:N:637:LEU:O	1:N:638:GLU:CB	2.43	0.58
1:O:11:GLN:NE2	1:O:70:GLU:OE1	2.36	0.58
1:O:186:CYS:O	1:O:187:ASN:ND2	2.35	0.58
1:O:519:GLN:HG2	1:O:523:PHE:CE2	2.37	0.58
1:P:314:ARG:O	1:P:315:GLU:HB2	2.03	0.58
1:P:919:VAL:HG12	1:P:933:THR:HG22	1.83	0.58
1:A:11:GLN:NE2	1:A:70:GLU:OE1	2.36	0.58
1:A:819:PHE:HD1	1:A:830:LEU:HD13	1.68	0.58
1:B:365:TYR:O	1:B:368:MET:N	2.21	0.58
1:B:517:THR:O	1:B:519:GLN:N	2.35	0.58
1:B:819:PHE:HD1	1:B:830:LEU:HD13	1.68	0.58
1:C:819:PHE:HD1	1:C:830:LEU:HD13	1.68	0.58
1:D:499:GLN:HB2	1:D:520:GLN:NE2	2.18	0.58
1:D:1055:GLU:HG3	1:D:1056:GLU:H	1.68	0.58
1:E:130:PRO:HA	1:E:290:MET:HE1	1.85	0.58
1:E:504:ASP:OD2	1:E:509:ASN:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:ARG:O	1:G:315:GLU:HB2	2.03	0.58
1:H:11:GLN:NE2	1:H:70:GLU:OE1	2.36	0.58
1:I:11:GLN:NE2	1:I:70:GLU:OE1	2.36	0.58
1:L:24:VAL:HA	1:L:58:THR:HG21	1.85	0.58
1:L:519:GLN:HG2	1:L:523:PHE:CE2	2.37	0.58
1:L:819:PHE:HD1	1:L:830:LEU:HD13	1.68	0.58
1:M:365:TYR:O	1:M:368:MET:N	2.21	0.58
1:M:517:THR:O	1:M:519:GLN:N	2.35	0.58
1:N:316:VAL:HG23	1:N:316:VAL:O	2.02	0.58
1:N:371:ARG:HB3	1:N:389:ILE:HG21	1.85	0.58
1:N:819:PHE:HD1	1:N:830:LEU:HD13	1.68	0.58
1:P:252:ALA:O	1:P:255:ALA:N	2.25	0.58
1:P:631:LEU:HD23	1:P:646:ARG:HH21	1.66	0.58
1:A:130:PRO:HA	1:A:290:MET:HE1	1.85	0.58
1:B:769:ARG:HH12	1:B:771:PHE:HB2	1.67	0.58
1:C:519:GLN:HG2	1:C:523:PHE:CE2	2.37	0.58
1:E:371:ARG:HB3	1:E:389:ILE:HG21	1.85	0.58
1:E:633:THR:HG21	1:E:643:TYR:CA	2.33	0.58
1:F:458:LEU:HA	1:F:587:ARG:NH2	2.19	0.58
1:F:557:LYS:HZ2	1:F:1223:GLN:HG3	1.68	0.58
1:G:919:VAL:HG12	1:G:933:THR:HG22	1.83	0.58
1:H:519:GLN:HG2	1:H:523:PHE:CE2	2.37	0.58
1:J:130:PRO:HA	1:J:290:MET:HE1	1.85	0.58
1:J:371:ARG:HB3	1:J:389:ILE:HG21	1.85	0.58
1:K:24:VAL:HA	1:K:58:THR:HG21	1.85	0.58
1:L:499:GLN:HB2	1:L:520:GLN:NE2	2.18	0.58
1:N:499:GLN:HB2	1:N:520:GLN:NE2	2.18	0.58
1:N:511:SER:HA	1:N:514:ILE:N	2.17	0.58
1:O:371:ARG:HB3	1:O:389:ILE:HG21	1.85	0.58
1:P:819:PHE:HD1	1:P:830:LEU:HD13	1.68	0.58
1:P:1055:GLU:HG3	1:P:1056:GLU:H	1.68	0.58
1:A:517:THR:O	1:A:519:GLN:N	2.35	0.58
1:C:194:GLU:O	1:C:197:GLN:N	2.37	0.58
1:C:313:PRO:HA	1:C:338:TRP:HH2	1.63	0.58
1:C:316:VAL:HG23	1:C:316:VAL:O	2.02	0.58
1:C:499:GLN:HB2	1:C:520:GLN:NE2	2.18	0.58
1:C:637:LEU:O	1:C:638:GLU:CB	2.43	0.58
1:E:198:LYS:HZ1	1:F:222:HIS:CG	2.22	0.58
1:E:336:ALA:HA	1:E:340:ASN:HB3	1.85	0.58
1:F:111:ASP:HB3	1:G:144:ALA:HB3	1.85	0.58
1:G:14:ASP:OD2	1:H:142:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:194:GLU:O	1:G:197:GLN:N	2.37	0.58
1:G:458:LEU:HA	1:G:587:ARG:NH2	2.19	0.58
1:G:511:SER:HA	1:G:514:ILE:N	2.18	0.58
1:G:819:PHE:HD1	1:G:830:LEU:HD13	1.68	0.58
1:G:1055:GLU:HG3	1:G:1056:GLU:H	1.68	0.58
1:H:371:ARG:HB3	1:H:389:ILE:HG21	1.85	0.58
1:H:444:VAL:HG22	1:H:478:ILE:HG12	1.85	0.58
1:I:194:GLU:O	1:I:197:GLN:N	2.37	0.58
1:I:519:GLN:HG2	1:I:523:PHE:CE2	2.37	0.58
1:J:336:ALA:HA	1:J:340:ASN:HB3	1.85	0.58
1:L:1055:GLU:HG3	1:L:1056:GLU:H	1.68	0.58
1:N:130:PRO:HA	1:N:290:MET:HE1	1.85	0.58
1:N:194:GLU:O	1:N:197:GLN:N	2.37	0.58
1:N:451:LYS:HD3	1:N:486:LEU:CD2	2.26	0.58
1:N:517:THR:O	1:N:519:GLN:N	2.35	0.58
1:O:444:VAL:HG22	1:O:478:ILE:HG12	1.85	0.58
1:O:518:LEU:HA	1:O:521:LEU:HB3	1.84	0.58
1:O:1055:GLU:HG3	1:O:1056:GLU:H	1.68	0.58
1:P:458:LEU:HA	1:P:587:ARG:NH2	2.19	0.58
1:P:511:SER:HA	1:P:514:ILE:N	2.17	0.58
1:A:194:GLU:O	1:A:197:GLN:N	2.37	0.58
1:A:458:LEU:HA	1:A:587:ARG:NH2	2.19	0.58
1:B:121:ALA:HB1	1:C:276:SER:HB2	1.79	0.58
1:D:319:THR:O	1:D:320:ASN:ND2	2.37	0.58
1:E:882:LEU:HG	1:E:883:ILE:HG13	1.86	0.58
1:F:194:GLU:O	1:F:197:GLN:N	2.37	0.58
1:F:1055:GLU:HG3	1:F:1056:GLU:H	1.68	0.58
1:H:314:ARG:O	1:H:315:GLU:HB2	2.03	0.58
1:H:1055:GLU:HG3	1:H:1056:GLU:H	1.68	0.58
1:I:458:LEU:HA	1:I:587:ARG:NH2	2.19	0.58
1:K:314:ARG:O	1:K:315:GLU:HB2	2.03	0.58
1:K:319:THR:O	1:K:320:ASN:ND2	2.37	0.58
1:K:371:ARG:HB3	1:K:389:ILE:HG21	1.85	0.58
1:N:504:ASP:OD2	1:N:509:ASN:O	2.21	0.58
1:P:194:GLU:O	1:P:197:GLN:N	2.37	0.58
1:P:519:GLN:HG2	1:P:523:PHE:CE2	2.37	0.58
1:A:1055:GLU:HG3	1:A:1056:GLU:H	1.68	0.58
1:B:319:THR:O	1:B:320:ASN:ND2	2.37	0.58
1:B:637:LEU:O	1:B:638:GLU:CB	2.43	0.58
1:F:518:LEU:HA	1:F:521:LEU:HB3	1.84	0.58
1:G:24:VAL:HA	1:G:58:THR:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:319:THR:O	1:G:320:ASN:ND2	2.37	0.58
1:I:130:PRO:HA	1:I:290:MET:HE1	1.85	0.58
1:I:1055:GLU:HG3	1:I:1056:GLU:H	1.68	0.58
1:J:882:LEU:HG	1:J:883:ILE:HG13	1.86	0.58
1:J:1055:GLU:HG3	1:J:1056:GLU:H	1.68	0.58
1:L:194:GLU:O	1:L:197:GLN:N	2.37	0.58
1:L:313:PRO:HA	1:L:338:TRP:HH2	1.63	0.58
1:L:371:ARG:HB3	1:L:389:ILE:HG21	1.85	0.58
1:L:444:VAL:HG22	1:L:478:ILE:HG12	1.85	0.58
1:M:319:THR:O	1:M:320:ASN:ND2	2.37	0.58
1:M:371:ARG:HB3	1:M:389:ILE:HG21	1.85	0.58
1:M:1055:GLU:HG3	1:M:1056:GLU:H	1.68	0.58
1:N:458:LEU:HA	1:N:587:ARG:NH2	2.19	0.58
1:N:1055:GLU:HG3	1:N:1056:GLU:H	1.68	0.58
1:O:319:THR:O	1:O:320:ASN:ND2	2.37	0.58
1:P:24:VAL:HA	1:P:58:THR:HG21	1.85	0.58
1:P:319:THR:O	1:P:320:ASN:ND2	2.37	0.58
1:A:492:LEU:HD21	1:A:562:LEU:HD23	1.86	0.58
1:A:504:ASP:OD2	1:A:509:ASN:O	2.21	0.58
1:B:371:ARG:HB3	1:B:389:ILE:HG21	1.85	0.58
1:B:548:LYS:HZ2	1:B:601:GLN:H	1.52	0.58
1:B:1055:GLU:HG3	1:B:1056:GLU:H	1.68	0.58
1:C:882:LEU:HG	1:C:883:ILE:HG13	1.86	0.58
1:D:194:GLU:O	1:D:197:GLN:N	2.37	0.58
1:D:314:ARG:O	1:D:315:GLU:HB2	2.03	0.58
1:D:371:ARG:HB3	1:D:389:ILE:HG21	1.85	0.58
1:E:24:VAL:HA	1:E:58:THR:HG21	1.85	0.58
1:G:336:ALA:HA	1:G:340:ASN:HB3	1.85	0.58
1:G:519:GLN:HG2	1:G:523:PHE:CE2	2.37	0.58
1:G:563:ARG:HD3	1:G:566:LEU:HD12	1.86	0.58
1:H:319:THR:O	1:H:320:ASN:ND2	2.37	0.58
1:I:819:PHE:HD1	1:I:830:LEU:HD13	1.68	0.58
1:J:24:VAL:HA	1:J:58:THR:HG21	1.85	0.58
1:L:11:GLN:NE2	1:L:70:GLU:OE1	2.36	0.58
1:L:882:LEU:HG	1:L:883:ILE:HG13	1.86	0.58
1:M:317:LEU:C	1:M:318:THR:HG1	1.95	0.58
1:N:492:LEU:HD21	1:N:562:LEU:HD23	1.86	0.58
1:O:316:VAL:HG23	1:O:316:VAL:O	2.02	0.58
1:P:553:LEU:HB3	1:P:556:SER:OG	2.04	0.58
1:P:563:ARG:HD3	1:P:566:LEU:HD12	1.86	0.58
1:B:548:LYS:NZ	1:B:601:GLN:CA	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:11:GLN:NE2	1:C:70:GLU:OE1	2.36	0.58
1:C:1055:GLU:HG3	1:C:1056:GLU:H	1.68	0.58
1:D:397:ASP:O	1:D:401:VAL:N	2.28	0.58
1:D:458:LEU:HA	1:D:587:ARG:NH2	2.19	0.58
1:E:1055:GLU:HG3	1:E:1056:GLU:H	1.68	0.58
1:G:553:LEU:HB3	1:G:556:SER:OG	2.04	0.58
1:I:492:LEU:HD21	1:I:562:LEU:HD23	1.85	0.58
1:I:518:LEU:HA	1:I:521:LEU:HB3	1.84	0.58
1:J:194:GLU:O	1:J:197:GLN:N	2.37	0.58
1:J:319:THR:O	1:J:320:ASN:ND2	2.37	0.58
1:K:194:GLU:O	1:K:197:GLN:N	2.37	0.58
1:M:194:GLU:O	1:M:197:GLN:N	2.37	0.58
1:M:458:LEU:HA	1:M:587:ARG:NH2	2.19	0.58
1:N:248:GLN:CD	1:N:268:PHE:CE2	2.74	0.58
1:P:517:THR:O	1:P:519:GLN:N	2.35	0.58
1:B:194:GLU:O	1:B:197:GLN:N	2.37	0.58
1:B:444:VAL:HG22	1:B:478:ILE:HG12	1.85	0.58
1:B:553:LEU:HB3	1:B:556:SER:OG	2.04	0.58
1:B:882:LEU:HG	1:B:883:ILE:HG13	1.86	0.58
1:D:316:VAL:HG23	1:D:316:VAL:O	2.02	0.58
1:E:194:GLU:O	1:E:197:GLN:N	2.37	0.58
1:F:492:LEU:HD21	1:F:562:LEU:HD23	1.86	0.58
1:G:517:THR:O	1:G:519:GLN:N	2.35	0.58
1:H:316:VAL:HG23	1:H:316:VAL:O	2.02	0.58
1:H:553:LEU:HB3	1:H:556:SER:OG	2.04	0.58
1:K:316:VAL:HG23	1:K:316:VAL:O	2.03	0.58
1:K:458:LEU:HA	1:K:587:ARG:NH2	2.19	0.58
1:L:365:TYR:O	1:L:368:MET:N	2.21	0.58
1:L:458:LEU:HA	1:L:587:ARG:NH2	2.19	0.58
1:M:444:VAL:HG22	1:M:478:ILE:HG12	1.85	0.58
1:M:553:LEU:HB3	1:M:556:SER:OG	2.04	0.58
1:M:882:LEU:HG	1:M:883:ILE:HG13	1.86	0.58
1:O:194:GLU:O	1:O:197:GLN:N	2.37	0.58
1:P:336:ALA:HA	1:P:340:ASN:HB3	1.85	0.58
1:A:553:LEU:HB3	1:A:556:SER:OG	2.04	0.58
1:B:458:LEU:HA	1:B:587:ARG:NH2	2.19	0.58
1:C:444:VAL:HG22	1:C:478:ILE:HG12	1.85	0.58
1:C:458:LEU:HA	1:C:587:ARG:NH2	2.19	0.58
1:C:499:GLN:HA	1:C:502:ARG:HD2	1.86	0.58
1:E:319:THR:O	1:E:320:ASN:ND2	2.37	0.58
1:F:819:PHE:HD1	1:F:830:LEU:HD13	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:188:SER:N	1:H:251:APK:O2P	2.31	0.58
1:H:194:GLU:O	1:H:197:GLN:N	2.37	0.58
1:H:819:PHE:HD1	1:H:830:LEU:HD13	1.68	0.58
1:I:882:LEU:HG	1:I:883:ILE:HG13	1.86	0.58
1:I:1031:ILE:HD11	1:I:1068:ILE:HD13	1.86	0.58
1:L:314:ARG:O	1:L:315:GLU:HB2	2.03	0.58
1:L:316:VAL:HG23	1:L:316:VAL:O	2.03	0.58
1:N:319:THR:O	1:N:320:ASN:ND2	2.37	0.58
1:N:553:LEU:HB3	1:N:556:SER:OG	2.04	0.58
1:O:492:LEU:HD21	1:O:562:LEU:HD23	1.86	0.58
1:O:553:LEU:HB3	1:O:556:SER:OG	2.04	0.58
1:P:378:SER:HA	1:P:422:ILE:HD12	1.84	0.58
1:A:319:THR:O	1:A:320:ASN:ND2	2.37	0.57
1:B:336:ALA:HA	1:B:340:ASN:HB3	1.85	0.57
1:C:371:ARG:HB3	1:C:389:ILE:HG21	1.85	0.57
1:D:553:LEU:HB3	1:D:556:SER:OG	2.04	0.57
1:D:882:LEU:HG	1:D:883:ILE:HG13	1.86	0.57
1:E:458:LEU:HA	1:E:587:ARG:NH2	2.19	0.57
1:F:114:TYR:O	1:F:117:ASN:N	2.36	0.57
1:F:1031:ILE:HD11	1:F:1068:ILE:HD13	1.86	0.57
1:G:378:SER:HA	1:G:422:ILE:HD12	1.84	0.57
1:I:600:ARG:NE	1:I:1229:GLU:OE1	2.37	0.57
1:J:458:LEU:HA	1:J:587:ARG:NH2	2.19	0.57
1:K:553:LEU:HB3	1:K:556:SER:OG	2.04	0.57
1:K:882:LEU:HG	1:K:883:ILE:HG13	1.86	0.57
1:L:369:PHE:O	1:L:372:LEU:N	2.37	0.57
1:M:336:ALA:HA	1:M:340:ASN:HB3	1.85	0.57
1:M:378:SER:H	1:M:422:ILE:HD13	1.62	0.57
1:M:548:LYS:NZ	1:M:601:GLN:CA	2.61	0.57
1:N:336:ALA:HA	1:N:340:ASN:HB3	1.85	0.57
1:O:769:ARG:HH12	1:O:771:PHE:HB2	1.67	0.57
1:A:369:PHE:O	1:A:372:LEU:N	2.37	0.57
1:A:444:VAL:HG22	1:A:478:ILE:HG12	1.85	0.57
1:A:633:THR:HG21	1:A:643:TYR:CA	2.33	0.57
1:B:369:PHE:O	1:B:372:LEU:N	2.37	0.57
1:B:499:GLN:HA	1:B:502:ARG:HD2	1.86	0.57
1:B:504:ASP:OD2	1:B:509:ASN:O	2.21	0.57
1:C:314:ARG:O	1:C:315:GLU:HB2	2.03	0.57
1:C:336:ALA:HA	1:C:340:ASN:HB3	1.85	0.57
1:C:553:LEU:HB3	1:C:556:SER:OG	2.04	0.57
1:D:11:GLN:NE2	1:D:70:GLU:OE1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:553:LEU:HB3	1:F:556:SER:OG	2.04	0.57
1:F:600:ARG:NE	1:F:1229:GLU:OE1	2.37	0.57
1:F:882:LEU:HG	1:F:883:ILE:HG13	1.86	0.57
1:G:492:LEU:HD21	1:G:562:LEU:HD23	1.85	0.57
1:H:492:LEU:HD21	1:H:562:LEU:HD23	1.86	0.57
1:H:769:ARG:HH12	1:H:771:PHE:HB2	1.67	0.57
1:I:553:LEU:HB3	1:I:556:SER:OG	2.04	0.57
1:K:11:GLN:NE2	1:K:70:GLU:OE1	2.36	0.57
1:K:499:GLN:HA	1:K:502:ARG:HD2	1.86	0.57
1:K:504:ASP:OD2	1:K:509:ASN:O	2.21	0.57
1:K:1031:ILE:HD11	1:K:1068:ILE:HD13	1.86	0.57
1:L:557:LYS:HZ2	1:L:1223:GLN:HG3	1.68	0.57
1:M:369:PHE:O	1:M:372:LEU:N	2.37	0.57
1:M:499:GLN:HA	1:M:502:ARG:HD2	1.86	0.57
1:M:504:ASP:OD2	1:M:509:ASN:O	2.21	0.57
1:N:369:PHE:O	1:N:372:LEU:N	2.37	0.57
1:N:444:VAL:HG22	1:N:478:ILE:HG12	1.85	0.57
1:O:819:PHE:HD1	1:O:830:LEU:HD13	1.68	0.57
1:P:365:TYR:O	1:P:368:MET:N	2.21	0.57
1:P:492:LEU:HD21	1:P:562:LEU:HD23	1.85	0.57
1:A:336:ALA:HA	1:A:340:ASN:HB3	1.85	0.57
1:C:369:PHE:O	1:C:372:LEU:N	2.38	0.57
1:D:369:PHE:O	1:D:372:LEU:N	2.38	0.57
1:D:504:ASP:OD2	1:D:509:ASN:O	2.21	0.57
1:D:1031:ILE:HD11	1:D:1068:ILE:HD13	1.86	0.57
1:E:11:GLN:NE2	1:E:70:GLU:OE1	2.36	0.57
1:F:603:ILE:HD11	1:F:635:VAL:HG13	1.87	0.57
1:H:458:LEU:HA	1:H:587:ARG:NH2	2.19	0.57
1:I:319:THR:O	1:I:320:ASN:ND2	2.37	0.57
1:I:603:ILE:HD11	1:I:635:VAL:HG13	1.87	0.57
1:K:369:PHE:O	1:K:372:LEU:N	2.38	0.57
1:K:397:ASP:O	1:K:401:VAL:N	2.28	0.57
1:L:114:TYR:O	1:L:117:ASN:N	2.36	0.57
1:L:319:THR:O	1:L:320:ASN:ND2	2.37	0.57
1:L:499:GLN:HA	1:L:502:ARG:HD2	1.86	0.57
1:M:548:LYS:HZ2	1:M:601:GLN:H	1.53	0.57
1:N:633:THR:HG21	1:N:643:TYR:CA	2.33	0.57
1:A:142:ARG:NH1	1:H:14:ASP:OD2	2.35	0.57
1:C:319:THR:O	1:C:320:ASN:ND2	2.37	0.57
1:D:499:GLN:HA	1:D:502:ARG:HD2	1.86	0.57
1:G:365:TYR:O	1:G:368:MET:N	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:24:VAL:HA	1:I:58:THR:HG21	1.85	0.57
1:J:369:PHE:O	1:J:372:LEU:N	2.37	0.57
1:L:378:SER:HA	1:L:422:ILE:HD12	1.84	0.57
1:L:504:ASP:OD2	1:L:509:ASN:O	2.21	0.57
1:O:188:SER:N	1:O:251:APK:O2P	2.31	0.57
1:O:603:ILE:HD11	1:O:635:VAL:HG13	1.87	0.57
1:A:518:LEU:HD22	1:A:643:TYR:CE1	2.22	0.57
1:B:378:SER:H	1:B:422:ILE:HD13	1.62	0.57
1:B:951:VAL:HA	1:B:987:VAL:HG11	1.87	0.57
1:C:378:SER:HA	1:C:422:ILE:HD12	1.84	0.57
1:C:504:ASP:OD2	1:C:509:ASN:O	2.21	0.57
1:E:369:PHE:O	1:E:372:LEU:N	2.37	0.57
1:H:603:ILE:HD11	1:H:635:VAL:HG13	1.87	0.57
1:I:563:ARG:HD3	1:I:566:LEU:HD12	1.86	0.57
1:J:11:GLN:NE2	1:J:70:GLU:OE1	2.36	0.57
1:L:553:LEU:HB3	1:L:556:SER:OG	2.04	0.57
1:M:518:LEU:HD22	1:M:643:TYR:CE1	2.22	0.57
1:B:423:PRO:O	1:B:424:SER:HB3	2.05	0.57
1:B:518:LEU:HD22	1:B:643:TYR:CE1	2.22	0.57
1:C:423:PRO:O	1:C:424:SER:HB3	2.05	0.57
1:D:548:LYS:HZ2	1:D:601:GLN:H	1.51	0.57
1:D:553:LEU:HB3	1:D:556:SER:HG	1.69	0.57
1:D:557:LYS:HZ2	1:D:1223:GLN:HG3	1.69	0.57
1:E:557:LYS:CE	1:E:1224:LEU:O	2.51	0.57
1:F:24:VAL:HA	1:F:58:THR:HG21	1.85	0.57
1:F:563:ARG:HD3	1:F:566:LEU:HD12	1.86	0.57
1:H:248:GLN:CD	1:H:268:PHE:CE2	2.74	0.57
1:H:369:PHE:O	1:H:372:LEU:N	2.38	0.57
1:I:423:PRO:O	1:I:424:SER:HB3	2.05	0.57
1:M:314:ARG:O	1:M:315:GLU:HB2	2.03	0.57
1:M:951:VAL:HA	1:M:987:VAL:HG11	1.87	0.57
1:N:124:ASN:H	1:N:303:LYS:HZ3	1.53	0.57
1:N:472:GLY:HA2	1:N:475:LEU:HD12	1.87	0.57
1:N:518:LEU:HD22	1:N:643:TYR:CE1	2.22	0.57
1:N:563:ARG:HD3	1:N:566:LEU:HD12	1.86	0.57
1:O:458:LEU:HA	1:O:587:ARG:NH2	2.19	0.57
1:O:1177:TYR:HE2	1:P:916:LYS:HE2	1.70	0.57
1:P:301:LEU:HD23	1:P:313:PRO:CD	2.35	0.57
1:P:633:THR:HG21	1:P:643:TYR:CA	2.33	0.57
1:A:472:GLY:HA2	1:A:475:LEU:HD12	1.87	0.57
1:A:563:ARG:HD3	1:A:566:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:882:LEU:HG	1:A:883:ILE:HG13	1.86	0.57
1:E:248:GLN:CD	1:E:268:PHE:CE2	2.74	0.57
1:F:319:THR:O	1:F:320:ASN:ND2	2.37	0.57
1:G:301:LEU:HD23	1:G:313:PRO:CD	2.35	0.57
1:G:442:SER:O	1:G:446:HIS:CG	2.55	0.57
1:G:505:SER:OG	1:G:513:SER:OG	2.05	0.57
1:H:449:ILE:HB	1:H:450:PRO:HD3	1.86	0.57
1:H:563:ARG:HD3	1:H:566:LEU:HD12	1.86	0.57
1:J:378:SER:H	1:J:422:ILE:HD13	1.62	0.57
1:L:336:ALA:HA	1:L:340:ASN:HB3	1.85	0.57
1:L:423:PRO:O	1:L:424:SER:HB3	2.05	0.57
1:L:472:GLY:HA2	1:L:475:LEU:HD12	1.87	0.57
1:M:423:PRO:O	1:M:424:SER:HB3	2.05	0.57
1:O:369:PHE:O	1:O:372:LEU:N	2.38	0.57
1:P:882:LEU:HG	1:P:883:ILE:HG13	1.86	0.57
1:A:449:ILE:HB	1:A:450:PRO:HD3	1.87	0.57
1:B:472:GLY:HA2	1:B:475:LEU:HD12	1.87	0.57
1:B:603:ILE:HD11	1:B:635:VAL:HG13	1.87	0.57
1:D:423:PRO:O	1:D:424:SER:HB3	2.05	0.57
1:F:115:ASN:HB3	1:G:257:ASN:OD1	2.04	0.57
1:G:371:ARG:HD3	1:G:435:ASN:HD21	1.70	0.57
1:G:499:GLN:HA	1:G:502:ARG:HD2	1.86	0.57
1:G:600:ARG:NE	1:G:1229:GLU:OE1	2.37	0.57
1:G:633:THR:HG21	1:G:643:TYR:CA	2.33	0.57
1:G:882:LEU:HG	1:G:883:ILE:HG13	1.86	0.57
1:H:301:LEU:HD23	1:H:313:PRO:CD	2.35	0.57
1:I:114:TYR:O	1:I:117:ASN:N	2.36	0.57
1:J:423:PRO:O	1:J:424:SER:HB3	2.05	0.57
1:J:557:LYS:CE	1:J:1224:LEU:O	2.51	0.57
1:K:423:PRO:O	1:K:424:SER:HB3	2.05	0.57
1:K:472:GLY:HA2	1:K:475:LEU:HD12	1.87	0.57
1:K:603:ILE:HD11	1:K:635:VAL:HG13	1.87	0.57
1:M:472:GLY:HA2	1:M:475:LEU:HD12	1.87	0.57
1:M:603:ILE:HD11	1:M:635:VAL:HG13	1.87	0.57
1:N:449:ILE:HB	1:N:450:PRO:HD3	1.87	0.57
1:O:248:GLN:CD	1:O:268:PHE:CE2	2.74	0.57
1:O:301:LEU:HD23	1:O:313:PRO:CD	2.35	0.57
1:O:449:ILE:HB	1:O:450:PRO:HD3	1.86	0.57
1:O:472:GLY:HA2	1:O:475:LEU:HD12	1.87	0.57
1:P:371:ARG:HD3	1:P:435:ASN:HD21	1.70	0.57
1:P:442:SER:O	1:P:446:HIS:CG	2.55	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:600:ARG:NE	1:P:1229:GLU:OE1	2.37	0.57
1:B:314:ARG:O	1:B:315:GLU:HB2	2.03	0.57
1:C:472:GLY:HA2	1:C:475:LEU:HD12	1.87	0.57
1:D:472:GLY:HA2	1:D:475:LEU:HD12	1.87	0.57
1:D:603:ILE:HD11	1:D:635:VAL:HG13	1.87	0.57
1:E:600:ARG:NE	1:E:1229:GLU:OE1	2.37	0.57
1:F:423:PRO:O	1:F:424:SER:HB3	2.05	0.57
1:H:336:ALA:O	1:H:338:TRP:N	2.38	0.57
1:H:371:ARG:HD3	1:H:435:ASN:HD21	1.70	0.57
1:H:472:GLY:HA2	1:H:475:LEU:HD12	1.87	0.57
1:I:124:ASN:H	1:I:303:LYS:NZ	2.03	0.57
1:I:301:LEU:HD23	1:I:313:PRO:CD	2.35	0.57
1:I:336:ALA:HA	1:I:340:ASN:HB3	1.85	0.57
1:I:557:LYS:HZ2	1:I:1223:GLN:HG3	1.69	0.57
1:J:248:GLN:CD	1:J:268:PHE:CE2	2.74	0.57
1:N:371:ARG:HD3	1:N:435:ASN:HD21	1.70	0.57
1:N:769:ARG:HH12	1:N:771:PHE:HB2	1.67	0.57
1:N:882:LEU:HG	1:N:883:ILE:HG13	1.86	0.57
1:O:336:ALA:O	1:O:338:TRP:N	2.38	0.57
1:O:371:ARG:HD3	1:O:435:ASN:HD21	1.70	0.57
1:O:882:LEU:HG	1:O:883:ILE:HG13	1.86	0.57
1:P:124:ASN:H	1:P:303:LYS:NZ	2.03	0.57
1:P:499:GLN:HA	1:P:502:ARG:HD2	1.86	0.57
1:B:347:ASP:OD1	1:B:348:LYS:N	2.37	0.57
1:B:563:ARG:HD3	1:B:566:LEU:HD12	1.86	0.57
1:D:155:SER:HA	1:D:321:PRO:HD2	1.87	0.57
1:E:423:PRO:O	1:E:424:SER:HB3	2.05	0.57
1:E:449:ILE:HB	1:E:450:PRO:HD3	1.86	0.57
1:E:472:GLY:HA2	1:E:475:LEU:HD12	1.87	0.57
1:F:124:ASN:H	1:F:303:LYS:NZ	2.03	0.57
1:F:198:LYS:NZ	1:G:222:HIS:CD2	2.73	0.57
1:F:301:LEU:HD23	1:F:313:PRO:CD	2.35	0.57
1:F:371:ARG:HD3	1:F:435:ASN:HD21	1.70	0.57
1:G:124:ASN:H	1:G:303:LYS:NZ	2.03	0.57
1:G:458:LEU:CD2	1:G:459:ILE:H	2.18	0.57
1:H:336:ALA:HA	1:H:340:ASN:HB3	1.85	0.57
1:H:423:PRO:O	1:H:424:SER:HB3	2.05	0.57
1:H:458:LEU:CD2	1:H:459:ILE:H	2.18	0.57
1:K:155:SER:HA	1:K:321:PRO:HD2	1.87	0.57
1:K:951:VAL:HA	1:K:987:VAL:HG11	1.87	0.57
1:M:347:ASP:OD1	1:M:348:LYS:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:563:ARG:HD3	1:M:566:LEU:HD12	1.86	0.57
1:O:458:LEU:CD2	1:O:459:ILE:H	2.18	0.57
1:O:563:ARG:HD3	1:O:566:LEU:HD12	1.86	0.57
1:O:951:VAL:HA	1:O:987:VAL:HG11	1.87	0.57
1:A:371:ARG:HD3	1:A:435:ASN:HD21	1.70	0.56
1:A:423:PRO:O	1:A:424:SER:HB3	2.05	0.56
1:A:769:ARG:HH12	1:A:771:PHE:HB2	1.67	0.56
1:B:633:THR:HG21	1:B:643:TYR:CA	2.33	0.56
1:C:557:LYS:CE	1:C:1224:LEU:O	2.50	0.56
1:D:124:ASN:H	1:D:303:LYS:NZ	2.03	0.56
1:D:951:VAL:HA	1:D:987:VAL:HG11	1.87	0.56
1:E:124:ASN:H	1:E:303:LYS:NZ	2.03	0.56
1:E:499:GLN:HA	1:E:502:ARG:HD2	1.86	0.56
1:F:336:ALA:O	1:F:338:TRP:N	2.38	0.56
1:H:882:LEU:HG	1:H:883:ILE:HG13	1.86	0.56
1:H:951:VAL:HA	1:H:987:VAL:HG11	1.87	0.56
1:H:1058:ILE:HG13	1:H:1059:ASP:H	1.70	0.56
1:J:124:ASN:H	1:J:303:LYS:NZ	2.03	0.56
1:J:449:ILE:HB	1:J:450:PRO:HD3	1.87	0.56
1:J:600:ARG:NE	1:J:1229:GLU:OE1	2.37	0.56
1:K:124:ASN:H	1:K:303:LYS:NZ	2.03	0.56
1:L:557:LYS:CE	1:L:1224:LEU:O	2.50	0.56
1:M:301:LEU:HD23	1:M:313:PRO:CD	2.35	0.56
1:M:1058:ILE:HG13	1:M:1059:ASP:H	1.70	0.56
1:N:301:LEU:HD23	1:N:313:PRO:CD	2.35	0.56
1:N:1058:ILE:HG13	1:N:1059:ASP:H	1.70	0.56
1:O:336:ALA:HA	1:O:340:ASN:HB3	1.85	0.56
1:O:423:PRO:O	1:O:424:SER:HB3	2.05	0.56
1:O:1058:ILE:HG13	1:O:1059:ASP:H	1.70	0.56
1:P:458:LEU:CD2	1:P:459:ILE:H	2.18	0.56
1:A:301:LEU:HD23	1:A:313:PRO:CD	2.35	0.56
1:B:301:LEU:HD23	1:B:313:PRO:CD	2.35	0.56
1:B:336:ALA:O	1:B:338:TRP:N	2.38	0.56
1:E:548:LYS:HZ2	1:E:601:GLN:H	1.51	0.56
1:F:248:GLN:CD	1:F:268:PHE:CE2	2.74	0.56
1:F:336:ALA:HA	1:F:340:ASN:HB3	1.85	0.56
1:F:518:LEU:HD12	1:F:518:LEU:N	2.20	0.56
1:G:1058:ILE:HG13	1:G:1059:ASP:H	1.70	0.56
1:H:124:ASN:H	1:H:303:LYS:HZ3	1.54	0.56
1:I:336:ALA:O	1:I:338:TRP:N	2.38	0.56
1:I:371:ARG:HD3	1:I:435:ASN:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:155:SER:HA	1:J:321:PRO:HD2	1.87	0.56
1:J:472:GLY:HA2	1:J:475:LEU:HD12	1.87	0.56
1:J:557:LYS:HZ2	1:J:1223:GLN:HG3	1.70	0.56
1:M:336:ALA:O	1:M:338:TRP:N	2.38	0.56
1:M:633:THR:HG21	1:M:643:TYR:CA	2.33	0.56
1:N:423:PRO:O	1:N:424:SER:HB3	2.05	0.56
1:O:124:ASN:H	1:O:303:LYS:HZ3	1.54	0.56
1:A:458:LEU:CD2	1:A:459:ILE:H	2.18	0.56
1:A:499:GLN:HA	1:A:502:ARG:HD2	1.86	0.56
1:A:603:ILE:HD11	1:A:635:VAL:HG13	1.87	0.56
1:A:1058:ILE:HG13	1:A:1059:ASP:H	1.70	0.56
1:B:1058:ILE:HG13	1:B:1059:ASP:H	1.70	0.56
1:C:124:ASN:H	1:C:303:LYS:NZ	2.03	0.56
1:C:301:LEU:HD23	1:C:313:PRO:CD	2.35	0.56
1:C:633:THR:HG21	1:C:643:TYR:CA	2.33	0.56
1:D:188:SER:N	1:D:251:APK:O2P	2.31	0.56
1:D:301:LEU:HD23	1:D:313:PRO:CD	2.35	0.56
1:D:336:ALA:HA	1:D:340:ASN:HB3	1.85	0.56
1:D:449:ILE:HB	1:D:450:PRO:HD3	1.86	0.56
1:D:486:LEU:O	1:D:488:ARG:HG3	2.06	0.56
1:E:155:SER:HA	1:E:321:PRO:HD2	1.87	0.56
1:E:241:LEU:HD12	1:E:241:LEU:O	2.06	0.56
1:E:486:LEU:O	1:E:488:ARG:HG3	2.06	0.56
1:E:557:LYS:HZ2	1:E:1223:GLN:HG3	1.70	0.56
1:F:115:ASN:O	1:G:257:ASN:ND2	2.38	0.56
1:F:378:SER:HA	1:F:422:ILE:HD12	1.84	0.56
1:F:472:GLY:HA2	1:F:475:LEU:HD12	1.87	0.56
1:G:155:SER:HA	1:G:321:PRO:HD2	1.87	0.56
1:G:449:ILE:HB	1:G:450:PRO:HD3	1.86	0.56
1:G:520:GLN:HA	1:G:523:PHE:HD2	1.71	0.56
1:H:397:ASP:O	1:H:401:VAL:N	2.28	0.56
1:H:486:LEU:O	1:H:488:ARG:HG3	2.06	0.56
1:H:1031:ILE:HD11	1:H:1068:ILE:HD13	1.86	0.56
1:I:369:PHE:O	1:I:372:LEU:N	2.38	0.56
1:J:241:LEU:HD12	1:J:241:LEU:O	2.06	0.56
1:J:301:LEU:HD23	1:J:313:PRO:CD	2.35	0.56
1:J:486:LEU:O	1:J:488:ARG:HG3	2.06	0.56
1:J:499:GLN:HA	1:J:502:ARG:HD2	1.86	0.56
1:J:518:LEU:HD12	1:J:518:LEU:N	2.20	0.56
1:J:553:LEU:HB3	1:J:556:SER:OG	2.04	0.56
1:K:301:LEU:HD23	1:K:313:PRO:CD	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:336:ALA:O	1:K:338:TRP:N	2.38	0.56
1:K:449:ILE:HB	1:K:450:PRO:HD3	1.86	0.56
1:K:600:ARG:NE	1:K:1229:GLU:OE1	2.37	0.56
1:L:124:ASN:H	1:L:303:LYS:NZ	2.03	0.56
1:L:1058:ILE:HG13	1:L:1059:ASP:H	1.70	0.56
1:M:449:ILE:HB	1:M:450:PRO:HD3	1.86	0.56
1:N:155:SER:HA	1:N:321:PRO:HD2	1.87	0.56
1:N:314:ARG:O	1:N:315:GLU:HB2	2.03	0.56
1:N:458:LEU:CD2	1:N:459:ILE:H	2.18	0.56
1:N:486:LEU:O	1:N:488:ARG:HG3	2.05	0.56
1:N:499:GLN:HA	1:N:502:ARG:HD2	1.86	0.56
1:O:486:LEU:O	1:O:488:ARG:HG3	2.05	0.56
1:P:449:ILE:HB	1:P:450:PRO:HD3	1.87	0.56
1:P:1058:ILE:HG13	1:P:1059:ASP:H	1.70	0.56
1:A:155:SER:HA	1:A:321:PRO:HD2	1.87	0.56
1:A:336:ALA:O	1:A:338:TRP:N	2.38	0.56
1:B:442:SER:O	1:B:446:HIS:CG	2.55	0.56
1:B:449:ILE:HB	1:B:450:PRO:HD3	1.87	0.56
1:B:520:GLN:HA	1:B:523:PHE:HD2	1.71	0.56
1:C:1058:ILE:HG13	1:C:1059:ASP:H	1.70	0.56
1:D:336:ALA:O	1:D:338:TRP:N	2.38	0.56
1:D:563:ARG:HD3	1:D:566:LEU:HD12	1.86	0.56
1:E:301:LEU:HD23	1:E:313:PRO:CD	2.35	0.56
1:E:518:LEU:HD12	1:E:518:LEU:N	2.20	0.56
1:E:553:LEU:HB3	1:E:556:SER:OG	2.04	0.56
1:E:563:ARG:HD3	1:E:566:LEU:HD12	1.86	0.56
1:F:520:GLN:HA	1:F:523:PHE:HD2	1.71	0.56
1:G:369:PHE:O	1:G:372:LEU:N	2.37	0.56
1:H:600:ARG:NE	1:H:1229:GLU:OE1	2.37	0.56
1:I:458:LEU:CD2	1:I:459:ILE:H	2.18	0.56
1:I:520:GLN:HA	1:I:523:PHE:HD2	1.71	0.56
1:J:548:LYS:HZ2	1:J:601:GLN:H	1.51	0.56
1:K:188:SER:N	1:K:251:APK:O2P	2.31	0.56
1:K:336:ALA:HA	1:K:340:ASN:HB3	1.85	0.56
1:K:486:LEU:O	1:K:488:ARG:HG3	2.06	0.56
1:K:553:LEU:HB3	1:K:556:SER:HG	1.70	0.56
1:K:563:ARG:HD3	1:K:566:LEU:HD12	1.86	0.56
1:L:124:ASN:H	1:L:303:LYS:HZ3	1.53	0.56
1:L:301:LEU:HD23	1:L:313:PRO:CD	2.35	0.56
1:N:124:ASN:H	1:N:303:LYS:NZ	2.03	0.56
1:O:124:ASN:H	1:O:303:LYS:NZ	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1031:ILE:HD11	1:O:1068:ILE:HD13	1.86	0.56
1:P:155:SER:HA	1:P:321:PRO:HD2	1.87	0.56
1:P:369:PHE:O	1:P:372:LEU:N	2.38	0.56
1:P:378:SER:H	1:P:422:ILE:HD13	1.61	0.56
1:P:472:GLY:HA2	1:P:475:LEU:HD12	1.87	0.56
1:A:124:ASN:H	1:A:303:LYS:NZ	2.03	0.56
1:B:371:ARG:HD3	1:B:435:ASN:HD21	1.70	0.56
1:C:347:ASP:OD1	1:C:348:LYS:N	2.37	0.56
1:C:492:LEU:HD21	1:C:562:LEU:HD23	1.86	0.56
1:D:241:LEU:HD12	1:D:241:LEU:O	2.05	0.56
1:D:600:ARG:NE	1:D:1229:GLU:OE1	2.37	0.56
1:E:520:GLN:HA	1:E:523:PHE:HD2	1.71	0.56
1:F:241:LEU:O	1:F:241:LEU:HD12	2.06	0.56
1:F:458:LEU:CD2	1:F:459:ILE:H	2.18	0.56
1:F:486:LEU:O	1:F:488:ARG:HG3	2.06	0.56
1:F:499:GLN:HA	1:F:502:ARG:HD2	1.86	0.56
1:G:472:GLY:HA2	1:G:475:LEU:HD12	1.87	0.56
1:H:350:THR:HA	1:H:353:ILE:HG22	1.88	0.56
1:H:633:THR:HG21	1:H:643:TYR:CA	2.33	0.56
1:I:449:ILE:HB	1:I:450:PRO:HD3	1.86	0.56
1:I:472:GLY:HA2	1:I:475:LEU:HD12	1.87	0.56
1:J:1031:ILE:HD11	1:J:1068:ILE:HD13	1.86	0.56
1:K:241:LEU:HD12	1:K:241:LEU:O	2.06	0.56
1:L:492:LEU:HD21	1:L:562:LEU:HD23	1.86	0.56
1:L:563:ARG:HD3	1:L:566:LEU:HD12	1.86	0.56
1:M:371:ARG:HD3	1:M:435:ASN:HD21	1.70	0.56
1:M:442:SER:O	1:M:446:HIS:CG	2.55	0.56
1:M:520:GLN:HA	1:M:523:PHE:HD2	1.71	0.56
1:N:603:ILE:HD11	1:N:635:VAL:HG13	1.87	0.56
1:O:350:THR:HA	1:O:353:ILE:HG22	1.88	0.56
1:P:248:GLN:CD	1:P:268:PHE:CE2	2.74	0.56
1:P:336:ALA:O	1:P:338:TRP:N	2.38	0.56
1:P:350:THR:HA	1:P:353:ILE:HG22	1.88	0.56
1:P:423:PRO:O	1:P:424:SER:HB3	2.05	0.56
1:P:486:LEU:O	1:P:488:ARG:HG3	2.06	0.56
1:P:520:GLN:HA	1:P:523:PHE:HD2	1.71	0.56
1:A:314:ARG:O	1:A:315:GLU:HB2	2.03	0.56
1:A:486:LEU:O	1:A:488:ARG:HG3	2.06	0.56
1:C:563:ARG:HD3	1:C:566:LEU:HD12	1.86	0.56
1:C:984:LEU:HD12	1:C:1022:ALA:HB2	1.88	0.56
1:F:369:PHE:O	1:F:372:LEU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:946:ARG:HG3	1:F:947:GLU:H	1.71	0.56
1:G:248:GLN:CD	1:G:268:PHE:CE2	2.74	0.56
1:G:336:ALA:O	1:G:338:TRP:N	2.38	0.56
1:G:350:THR:HA	1:G:353:ILE:HG22	1.88	0.56
1:G:378:SER:H	1:G:422:ILE:HD13	1.61	0.56
1:G:423:PRO:O	1:G:424:SER:HB3	2.05	0.56
1:G:486:LEU:O	1:G:488:ARG:HG3	2.06	0.56
1:H:124:ASN:H	1:H:303:LYS:NZ	2.03	0.56
1:J:520:GLN:HA	1:J:523:PHE:HD2	1.71	0.56
1:J:563:ARG:HD3	1:J:566:LEU:HD12	1.86	0.56
1:K:557:LYS:HZ2	1:K:1223:GLN:HG3	1.70	0.56
1:L:241:LEU:HD12	1:L:241:LEU:O	2.06	0.56
1:M:124:ASN:H	1:M:303:LYS:NZ	2.03	0.56
1:M:1031:ILE:HD11	1:M:1068:ILE:HD13	1.86	0.56
1:N:336:ALA:O	1:N:338:TRP:N	2.38	0.56
1:O:518:LEU:HD12	1:O:518:LEU:N	2.20	0.56
1:O:600:ARG:NE	1:O:1229:GLU:OE1	2.37	0.56
1:O:633:THR:HG21	1:O:643:TYR:CA	2.33	0.56
1:A:350:THR:HA	1:A:353:ILE:HG22	1.88	0.56
1:A:1031:ILE:HD11	1:A:1068:ILE:HD13	1.86	0.56
1:B:124:ASN:H	1:B:303:LYS:NZ	2.03	0.56
1:B:984:LEU:HD12	1:B:1022:ALA:HB2	1.88	0.56
1:B:1031:ILE:HD11	1:B:1068:ILE:HD13	1.86	0.56
1:C:155:SER:HA	1:C:321:PRO:HD2	1.87	0.56
1:C:336:ALA:O	1:C:338:TRP:N	2.38	0.56
1:D:378:SER:HA	1:D:422:ILE:HD12	1.84	0.56
1:D:492:LEU:HD21	1:D:562:LEU:HD23	1.86	0.56
1:E:1031:ILE:HD11	1:E:1068:ILE:HD13	1.86	0.56
1:H:518:LEU:HD12	1:H:518:LEU:N	2.20	0.56
1:H:557:LYS:CE	1:H:1224:LEU:O	2.50	0.56
1:I:241:LEU:HD12	1:I:241:LEU:O	2.06	0.56
1:I:486:LEU:O	1:I:488:ARG:HG3	2.06	0.56
1:K:946:ARG:HG3	1:K:947:GLU:H	1.71	0.56
1:L:155:SER:HA	1:L:321:PRO:HD2	1.87	0.56
1:L:347:ASP:OD1	1:L:348:LYS:N	2.37	0.56
1:L:633:THR:HG21	1:L:643:TYR:CA	2.33	0.56
1:O:314:ARG:O	1:O:315:GLU:HB2	2.03	0.56
1:O:397:ASP:O	1:O:401:VAL:N	2.28	0.56
1:O:520:GLN:HA	1:O:523:PHE:HD2	1.71	0.56
1:P:603:ILE:HD11	1:P:635:VAL:HG13	1.87	0.56
1:P:1031:ILE:HD11	1:P:1068:ILE:HD13	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:PHE:CD1	1:A:88:LEU:HD21	2.41	0.56
1:B:557:LYS:CE	1:B:1224:LEU:O	2.50	0.56
1:E:371:ARG:HD3	1:E:435:ASN:HD21	1.70	0.56
1:F:350:THR:HA	1:F:353:ILE:HG22	1.88	0.56
1:G:603:ILE:HD11	1:G:635:VAL:HG13	1.87	0.56
1:H:155:SER:HA	1:H:321:PRO:HD2	1.87	0.56
1:H:520:GLN:HA	1:H:523:PHE:HD2	1.71	0.56
1:I:499:GLN:HA	1:I:502:ARG:HD2	1.86	0.56
1:J:23:PHE:CD1	1:J:88:LEU:HD21	2.41	0.56
1:J:383:THR:N	1:J:419:THR:HA	2.21	0.56
1:J:1058:ILE:HG13	1:J:1059:ASP:H	1.70	0.56
1:K:368:MET:HE1	1:K:401:VAL:HG21	1.88	0.56
1:K:492:LEU:HD21	1:K:562:LEU:HD23	1.86	0.56
1:K:633:THR:HG21	1:K:643:TYR:CA	2.33	0.56
1:L:984:LEU:HD12	1:L:1022:ALA:HB2	1.88	0.56
1:M:946:ARG:HG3	1:M:947:GLU:H	1.71	0.56
1:N:23:PHE:CD1	1:N:88:LEU:HD21	2.41	0.56
1:N:350:THR:HA	1:N:353:ILE:HG22	1.88	0.56
1:O:946:ARG:HG3	1:O:947:GLU:H	1.71	0.56
1:B:23:PHE:CD1	1:B:88:LEU:HD21	2.41	0.56
1:B:946:ARG:HG3	1:B:947:GLU:H	1.71	0.56
1:C:241:LEU:HD12	1:C:241:LEU:O	2.06	0.56
1:C:951:VAL:HA	1:C:987:VAL:HG11	1.87	0.56
1:D:946:ARG:HG3	1:D:947:GLU:H	1.71	0.56
1:E:23:PHE:CD1	1:E:88:LEU:HD21	2.41	0.56
1:E:383:THR:N	1:E:419:THR:HA	2.21	0.56
1:F:449:ILE:HB	1:F:450:PRO:HD3	1.87	0.56
1:G:508:TRP:C	1:G:606:GLY:CA	2.69	0.56
1:G:1031:ILE:HD11	1:G:1068:ILE:HD13	1.86	0.56
1:H:241:LEU:HD12	1:H:241:LEU:O	2.06	0.56
1:H:499:GLN:HA	1:H:502:ARG:HD2	1.86	0.56
1:H:946:ARG:HG3	1:H:947:GLU:H	1.71	0.56
1:I:248:GLN:CD	1:I:268:PHE:CE2	2.74	0.56
1:I:350:THR:HA	1:I:353:ILE:HG22	1.88	0.56
1:I:378:SER:HA	1:I:422:ILE:HD12	1.84	0.56
1:I:946:ARG:HG3	1:I:947:GLU:H	1.71	0.56
1:M:458:LEU:CG	1:M:587:ARG:HH21	2.19	0.56
1:M:984:LEU:HD12	1:M:1022:ALA:HB2	1.88	0.56
1:N:951:VAL:HA	1:N:987:VAL:HG11	1.87	0.56
1:O:410:LEU:HD22	1:O:413:LYS:HA	1.88	0.56
1:O:499:GLN:HA	1:O:502:ARG:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:LEU:CG	1:A:587:ARG:HH21	2.19	0.56
1:B:458:LEU:CD2	1:B:459:ILE:H	2.18	0.56
1:B:492:LEU:HD21	1:B:562:LEU:HD23	1.86	0.56
1:C:516:ASN:O	1:C:517:THR:HG22	2.06	0.56
1:E:1058:ILE:HG13	1:E:1059:ASP:H	1.70	0.56
1:F:410:LEU:HD22	1:F:413:LYS:HA	1.88	0.56
1:G:114:TYR:O	1:G:117:ASN:N	2.36	0.56
1:H:410:LEU:HD22	1:H:413:LYS:HA	1.88	0.56
1:I:155:SER:HA	1:I:321:PRO:HD2	1.87	0.56
1:J:368:MET:HE1	1:J:401:VAL:HG21	1.88	0.56
1:J:371:ARG:HD3	1:J:435:ASN:HD21	1.70	0.56
1:J:492:LEU:HD21	1:J:562:LEU:HD23	1.86	0.56
1:K:984:LEU:HD12	1:K:1022:ALA:HB2	1.88	0.56
1:L:516:ASN:O	1:L:517:THR:HG22	2.06	0.56
1:M:458:LEU:CD2	1:M:459:ILE:H	2.18	0.56
1:M:557:LYS:CE	1:M:1224:LEU:O	2.51	0.56
1:N:458:LEU:CG	1:N:587:ARG:HH21	2.19	0.56
1:N:1031:ILE:HD11	1:N:1068:ILE:HD13	1.86	0.56
1:O:241:LEU:HD12	1:O:241:LEU:O	2.06	0.56
1:A:124:ASN:H	1:A:303:LYS:HZ3	1.54	0.55
1:A:951:VAL:HA	1:A:987:VAL:HG11	1.87	0.55
1:B:458:LEU:CG	1:B:587:ARG:HH21	2.20	0.55
1:C:486:LEU:O	1:C:488:ARG:HG3	2.06	0.55
1:C:946:ARG:HG3	1:C:947:GLU:H	1.71	0.55
1:C:1031:ILE:HD11	1:C:1068:ILE:HD13	1.86	0.55
1:D:442:SER:O	1:D:446:HIS:CG	2.55	0.55
1:D:516:ASN:O	1:D:517:THR:HG22	2.06	0.55
1:D:633:THR:HG21	1:D:643:TYR:CA	2.33	0.55
1:D:984:LEU:HD12	1:D:1022:ALA:HB2	1.88	0.55
1:E:336:ALA:O	1:E:338:TRP:N	2.38	0.55
1:E:368:MET:HE1	1:E:401:VAL:HG21	1.88	0.55
1:E:603:ILE:HD11	1:E:635:VAL:HG13	1.87	0.55
1:F:347:ASP:OD1	1:F:348:LYS:N	2.37	0.55
1:F:951:VAL:HA	1:F:987:VAL:HG11	1.87	0.55
1:F:1058:ILE:HG13	1:F:1059:ASP:H	1.70	0.55
1:H:383:THR:N	1:H:419:THR:HA	2.21	0.55
1:H:458:LEU:CG	1:H:587:ARG:HH21	2.19	0.55
1:H:518:LEU:HD22	1:H:643:TYR:CE1	2.22	0.55
1:I:410:LEU:HD22	1:I:413:LYS:HA	1.88	0.55
1:I:951:VAL:HA	1:I:987:VAL:HG11	1.87	0.55
1:J:336:ALA:O	1:J:338:TRP:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:378:SER:HA	1:K:422:ILE:HD12	1.84	0.55
1:K:442:SER:O	1:K:446:HIS:CG	2.55	0.55
1:K:516:ASN:O	1:K:517:THR:HG22	2.06	0.55
1:L:486:LEU:O	1:L:488:ARG:HG3	2.06	0.55
1:M:23:PHE:CD1	1:M:88:LEU:HD21	2.41	0.55
1:M:492:LEU:HD21	1:M:562:LEU:HD23	1.86	0.55
1:O:23:PHE:CD1	1:O:88:LEU:HD21	2.41	0.55
1:O:458:LEU:CG	1:O:587:ARG:HH21	2.19	0.55
1:O:518:LEU:HD22	1:O:643:TYR:CE1	2.22	0.55
1:O:557:LYS:CE	1:O:1224:LEU:O	2.50	0.55
1:P:114:TYR:O	1:P:117:ASN:N	2.36	0.55
1:P:508:TRP:C	1:P:606:GLY:CA	2.69	0.55
1:B:368:MET:HE1	1:B:401:VAL:HG21	1.88	0.55
1:C:458:LEU:CG	1:C:587:ARG:HH21	2.19	0.55
1:C:603:ILE:HD11	1:C:635:VAL:HG13	1.87	0.55
1:D:520:GLN:HA	1:D:523:PHE:HD2	1.71	0.55
1:D:1058:ILE:HG13	1:D:1059:ASP:H	1.70	0.55
1:E:378:SER:HA	1:E:422:ILE:HD12	1.84	0.55
1:E:458:LEU:CD2	1:E:459:ILE:H	2.18	0.55
1:F:155:SER:HA	1:F:321:PRO:HD2	1.87	0.55
1:G:188:SER:N	1:G:251:APK:O2P	2.31	0.55
1:H:23:PHE:CD1	1:H:88:LEU:HD21	2.41	0.55
1:J:458:LEU:CD2	1:J:459:ILE:H	2.18	0.55
1:K:520:GLN:HA	1:K:523:PHE:HD2	1.71	0.55
1:K:1058:ILE:HG13	1:K:1059:ASP:H	1.70	0.55
1:L:336:ALA:O	1:L:338:TRP:N	2.38	0.55
1:L:458:LEU:CG	1:L:587:ARG:HH21	2.19	0.55
1:L:951:VAL:HA	1:L:987:VAL:HG11	1.87	0.55
1:L:1031:ILE:HD11	1:L:1068:ILE:HD13	1.86	0.55
1:N:520:GLN:HA	1:N:523:PHE:HD2	1.71	0.55
1:O:155:SER:HA	1:O:321:PRO:HD2	1.87	0.55
1:A:241:LEU:HD12	1:A:241:LEU:O	2.06	0.55
1:A:410:LEU:HD22	1:A:413:LYS:HA	1.88	0.55
1:A:520:GLN:HA	1:A:523:PHE:HD2	1.71	0.55
1:A:984:LEU:HD12	1:A:1022:ALA:HB2	1.88	0.55
1:B:155:SER:HA	1:B:321:PRO:HD2	1.87	0.55
1:C:368:MET:HE1	1:C:401:VAL:HG21	1.89	0.55
1:C:449:ILE:HB	1:C:450:PRO:HD3	1.87	0.55
1:C:518:LEU:HD22	1:C:643:TYR:CE1	2.22	0.55
1:C:520:GLN:HA	1:C:523:PHE:HD2	1.71	0.55
1:D:563:ARG:NH1	1:D:591:THR:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:492:LEU:HD21	1:E:562:LEU:HD23	1.86	0.55
1:F:194:GLU:OE2	1:G:216:ASN:ND2	2.40	0.55
1:H:563:ARG:NH1	1:H:591:THR:O	2.40	0.55
1:I:23:PHE:CD1	1:I:88:LEU:HD21	2.41	0.55
1:I:1058:ILE:HG13	1:I:1059:ASP:H	1.70	0.55
1:J:603:ILE:HD11	1:J:635:VAL:HG13	1.87	0.55
1:L:600:ARG:NE	1:L:1229:GLU:OE1	2.37	0.55
1:L:603:ILE:HD11	1:L:635:VAL:HG13	1.87	0.55
1:M:124:ASN:H	1:M:303:LYS:HZ3	1.55	0.55
1:N:241:LEU:O	1:N:241:LEU:HD12	2.06	0.55
1:N:410:LEU:HD22	1:N:413:LYS:HA	1.88	0.55
1:O:383:THR:N	1:O:419:THR:HA	2.21	0.55
1:P:188:SER:N	1:P:251:APK:O2P	2.31	0.55
1:P:241:LEU:HD12	1:P:241:LEU:O	2.06	0.55
1:A:557:LYS:CE	1:A:1224:LEU:O	2.50	0.55
1:B:447:TYR:O	1:B:450:PRO:HD2	2.07	0.55
1:B:486:LEU:O	1:B:488:ARG:HG3	2.06	0.55
1:C:447:TYR:O	1:C:450:PRO:HD2	2.07	0.55
1:C:563:ARG:NH1	1:C:591:THR:O	2.40	0.55
1:F:23:PHE:CD1	1:F:88:LEU:HD21	2.41	0.55
1:F:368:MET:HE1	1:F:401:VAL:HG21	1.88	0.55
1:G:241:LEU:HD12	1:G:241:LEU:O	2.06	0.55
1:G:317:LEU:CD2	1:G:341:TRP:CH2	2.90	0.55
1:G:383:THR:N	1:G:419:THR:HA	2.21	0.55
1:H:317:LEU:CD2	1:H:341:TRP:CH2	2.90	0.55
1:I:368:MET:HE1	1:I:401:VAL:HG21	1.88	0.55
1:K:313:PRO:HA	1:K:338:TRP:HH2	1.63	0.55
1:K:563:ARG:NH1	1:K:591:THR:O	2.40	0.55
1:L:368:MET:HE1	1:L:401:VAL:HG21	1.89	0.55
1:L:447:TYR:O	1:L:450:PRO:HD2	2.07	0.55
1:L:520:GLN:HA	1:L:523:PHE:HD2	1.71	0.55
1:M:155:SER:HA	1:M:321:PRO:HD2	1.87	0.55
1:M:486:LEU:O	1:M:488:ARG:HG3	2.06	0.55
1:N:600:ARG:NE	1:N:1229:GLU:OE1	2.37	0.55
1:N:984:LEU:HD12	1:N:1022:ALA:HB2	1.88	0.55
1:O:317:LEU:CD2	1:O:341:TRP:CH2	2.90	0.55
1:O:563:ARG:NH1	1:O:591:THR:O	2.40	0.55
1:P:317:LEU:CD2	1:P:341:TRP:CH2	2.90	0.55
1:P:383:THR:N	1:P:419:THR:HA	2.21	0.55
1:A:114:TYR:O	1:A:117:ASN:N	2.36	0.55
1:A:301:LEU:HD23	1:A:313:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:THR:N	1:A:419:THR:HA	2.21	0.55
1:B:241:LEU:HD12	1:B:241:LEU:O	2.06	0.55
1:C:541:ALA:O	1:C:544:ASP:N	2.30	0.55
1:D:313:PRO:HA	1:D:338:TRP:HH2	1.63	0.55
1:D:347:ASP:OD1	1:D:348:LYS:N	2.37	0.55
1:D:371:ARG:HD3	1:D:435:ASN:HD21	1.70	0.55
1:F:317:LEU:CD2	1:F:341:TRP:CH2	2.90	0.55
1:G:458:LEU:CG	1:G:587:ARG:HH21	2.19	0.55
1:H:114:TYR:O	1:H:117:ASN:N	2.36	0.55
1:H:130:PRO:HA	1:H:290:MET:HE1	1.87	0.55
1:I:347:ASP:OD1	1:I:348:LYS:N	2.37	0.55
1:I:510:ALA:O	1:I:511:SER:HB2	2.07	0.55
1:J:378:SER:HA	1:J:422:ILE:HD12	1.84	0.55
1:K:23:PHE:CD1	1:K:88:LEU:HD21	2.41	0.55
1:L:563:ARG:NH1	1:L:591:THR:O	2.40	0.55
1:L:946:ARG:HG3	1:L:947:GLU:H	1.71	0.55
1:M:301:LEU:HD23	1:M:313:PRO:HD2	1.89	0.55
1:M:368:MET:HE1	1:M:401:VAL:HG21	1.88	0.55
1:M:447:TYR:O	1:M:450:PRO:HD2	2.07	0.55
1:N:114:TYR:O	1:N:117:ASN:N	2.36	0.55
1:N:557:LYS:HZ2	1:N:1223:GLN:HG3	1.70	0.55
1:P:563:ARG:NH1	1:P:591:THR:O	2.40	0.55
1:A:447:TYR:O	1:A:450:PRO:HD2	2.07	0.55
1:A:563:ARG:NH1	1:A:591:THR:O	2.40	0.55
1:A:600:ARG:NE	1:A:1229:GLU:OE1	2.37	0.55
1:B:301:LEU:HD23	1:B:313:PRO:HD2	1.89	0.55
1:C:458:LEU:CD2	1:C:459:ILE:H	2.18	0.55
1:D:557:LYS:CE	1:D:1224:LEU:O	2.50	0.55
1:E:984:LEU:HD12	1:E:1022:ALA:HB2	1.88	0.55
1:F:516:ASN:O	1:F:517:THR:HG22	2.06	0.55
1:G:563:ARG:NH1	1:G:591:THR:O	2.40	0.55
1:I:317:LEU:CD2	1:I:341:TRP:CH2	2.90	0.55
1:J:124:ASN:H	1:J:303:LYS:HZ3	1.53	0.55
1:J:510:ALA:O	1:J:511:SER:HB2	2.07	0.55
1:J:984:LEU:HD12	1:J:1022:ALA:HB2	1.88	0.55
1:K:347:ASP:OD1	1:K:348:LYS:N	2.37	0.55
1:K:371:ARG:HD3	1:K:435:ASN:HD21	1.70	0.55
1:L:371:ARG:HD3	1:L:435:ASN:HD21	1.70	0.55
1:L:458:LEU:CD2	1:L:459:ILE:H	2.18	0.55
1:M:241:LEU:HD12	1:M:241:LEU:O	2.06	0.55
1:N:301:LEU:HD23	1:N:313:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:317:LEU:CD2	1:N:341:TRP:CH2	2.90	0.55
1:N:563:ARG:NH1	1:N:591:THR:O	2.40	0.55
1:O:114:TYR:O	1:O:117:ASN:N	2.36	0.55
1:P:458:LEU:CG	1:P:587:ARG:HH21	2.19	0.55
1:P:518:LEU:HD12	1:P:518:LEU:N	2.20	0.55
1:P:946:ARG:HG3	1:P:947:GLU:H	1.71	0.55
1:A:317:LEU:CD2	1:A:341:TRP:CH2	2.90	0.55
1:A:412:GLU:OE1	1:A:414:GLN:N	2.40	0.55
1:B:350:THR:HA	1:B:353:ILE:HG22	1.88	0.55
1:B:412:GLU:OE1	1:B:414:GLN:N	2.40	0.55
1:C:371:ARG:HD3	1:C:435:ASN:HD21	1.70	0.55
1:E:124:ASN:H	1:E:303:LYS:HZ3	1.53	0.55
1:E:350:THR:HA	1:E:353:ILE:HG22	1.88	0.55
1:E:510:ALA:O	1:E:511:SER:HB2	2.07	0.55
1:F:317:LEU:HD22	1:F:341:TRP:CH2	2.42	0.55
1:F:412:GLU:OE1	1:F:414:GLN:N	2.40	0.55
1:F:548:LYS:HZ2	1:F:601:GLN:H	1.53	0.55
1:G:518:LEU:HD12	1:G:518:LEU:N	2.20	0.55
1:G:946:ARG:HG3	1:G:947:GLU:H	1.71	0.55
1:I:317:LEU:HD22	1:I:341:TRP:CH2	2.42	0.55
1:I:516:ASN:O	1:I:517:THR:HG22	2.06	0.55
1:J:346:CYS:O	1:J:350:THR:N	2.25	0.55
1:J:347:ASP:OD1	1:J:348:LYS:N	2.37	0.55
1:J:412:GLU:OE1	1:J:414:GLN:N	2.40	0.55
1:J:516:ASN:O	1:J:517:THR:HG22	2.06	0.55
1:J:563:ARG:NH1	1:J:591:THR:O	2.40	0.55
1:K:518:LEU:HD12	1:K:518:LEU:N	2.20	0.55
1:M:410:LEU:HD22	1:M:413:LYS:HA	1.88	0.55
1:M:412:GLU:OE1	1:M:414:GLN:N	2.40	0.55
1:N:383:THR:N	1:N:419:THR:HA	2.21	0.55
1:N:412:GLU:OE1	1:N:414:GLN:N	2.40	0.55
1:N:557:LYS:CE	1:N:124:LEU:O	2.51	0.55
1:O:487:PHE:CD2	1:O:489:MET:HG3	2.42	0.55
1:B:410:LEU:HD22	1:B:413:LYS:HA	1.88	0.55
1:B:487:PHE:CD2	1:B:489:MET:HG3	2.42	0.55
1:B:510:ALA:O	1:B:511:SER:HB2	2.07	0.55
1:B:563:ARG:NH1	1:B:591:THR:O	2.40	0.55
1:C:301:LEU:HD23	1:C:313:PRO:HD2	1.89	0.55
1:D:23:PHE:CD1	1:D:88:LEU:HD21	2.41	0.55
1:D:368:MET:HE1	1:D:401:VAL:HG21	1.89	0.55
1:D:458:LEU:CG	1:D:587:ARG:HH21	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:458:LEU:CD2	1:D:459:ILE:H	2.18	0.55
1:E:347:ASP:OD1	1:E:348:LYS:N	2.37	0.55
1:E:412:GLU:OE1	1:E:414:GLN:N	2.40	0.55
1:E:516:ASN:O	1:E:517:THR:HG22	2.06	0.55
1:E:563:ARG:NH1	1:E:591:THR:O	2.40	0.55
1:F:510:ALA:O	1:F:511:SER:HB2	2.07	0.55
1:F:984:LEU:HD12	1:F:1022:ALA:HB2	1.88	0.55
1:H:487:PHE:CD2	1:H:489:MET:HG3	2.42	0.55
1:I:412:GLU:OE1	1:I:414:GLN:N	2.40	0.55
1:J:350:THR:HA	1:J:353:ILE:HG22	1.88	0.55
1:K:447:TYR:O	1:K:450:PRO:HD2	2.07	0.55
1:K:458:LEU:CG	1:K:587:ARG:HH21	2.20	0.55
1:L:767:GLY:HA2	1:L:783:THR:HG22	1.89	0.55
1:M:350:THR:HA	1:M:353:ILE:HG22	1.88	0.55
1:M:487:PHE:CD2	1:M:489:MET:HG3	2.42	0.55
1:M:563:ARG:NH1	1:M:591:THR:O	2.40	0.55
1:N:447:TYR:O	1:N:450:PRO:HD2	2.07	0.55
1:O:508:TRP:C	1:O:606:GLY:CA	2.69	0.55
1:P:23:PHE:CD1	1:P:88:LEU:HD21	2.41	0.55
1:B:541:ALA:O	1:B:544:ASP:N	2.30	0.55
1:B:600:ARG:NE	1:B:1229:GLU:OE1	2.37	0.55
1:C:23:PHE:CD1	1:C:88:LEU:HD21	2.41	0.55
1:C:350:THR:HA	1:C:353:ILE:HG22	1.88	0.55
1:C:412:GLU:OE1	1:C:414:GLN:N	2.40	0.55
1:C:600:ARG:NE	1:C:1229:GLU:OE1	2.37	0.55
1:E:317:LEU:CD2	1:E:341:TRP:CH2	2.90	0.55
1:E:397:ASP:O	1:E:401:VAL:N	2.28	0.55
1:E:447:TYR:O	1:E:450:PRO:HD2	2.07	0.55
1:F:97:ARG:NH2	1:O:97:ARG:NH2	2.55	0.55
1:F:538:LEU:CD1	1:F:571:GLU:HG2	2.37	0.55
1:G:23:PHE:CD1	1:G:88:LEU:HD21	2.41	0.55
1:G:447:TYR:O	1:G:450:PRO:HD2	2.07	0.55
1:H:301:LEU:HD23	1:H:313:PRO:HD2	1.89	0.55
1:H:412:GLU:OE1	1:H:414:GLN:N	2.40	0.55
1:H:447:TYR:O	1:H:450:PRO:HD2	2.07	0.55
1:I:984:LEU:HD12	1:I:1022:ALA:HB2	1.88	0.55
1:J:317:LEU:CD2	1:J:341:TRP:CH2	2.90	0.55
1:J:365:TYR:O	1:J:368:MET:N	2.21	0.55
1:K:353:ILE:HD11	1:K:427:LEU:HA	1.89	0.55
1:K:410:LEU:HD22	1:K:413:LYS:HA	1.88	0.55
1:K:458:LEU:CD2	1:K:459:ILE:H	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:557:LYS:CE	1:K:1224:LEU:O	2.50	0.55
1:L:23:PHE:CD1	1:L:88:LEU:HD21	2.41	0.55
1:L:449:ILE:HB	1:L:450:PRO:HD3	1.87	0.55
1:M:317:LEU:CD2	1:M:341:TRP:CH2	2.90	0.55
1:M:510:ALA:O	1:M:511:SER:HB2	2.07	0.55
1:M:541:ALA:O	1:M:544:ASP:N	2.30	0.55
1:M:600:ARG:NE	1:M:1229:GLU:OE1	2.37	0.55
1:O:447:TYR:O	1:O:450:PRO:HD2	2.07	0.55
1:O:767:GLY:HA2	1:O:783:THR:HG22	1.89	0.55
1:P:447:TYR:O	1:P:450:PRO:HD2	2.07	0.55
1:B:124:ASN:H	1:B:303:LYS:HZ3	1.55	0.55
1:B:317:LEU:CD2	1:B:341:TRP:CH2	2.90	0.55
1:B:516:ASN:O	1:B:517:THR:HG22	2.06	0.55
1:B:767:GLY:HA2	1:B:783:THR:HG22	1.89	0.55
1:C:487:PHE:CD2	1:C:489:MET:HG3	2.42	0.55
1:C:767:GLY:HA2	1:C:783:THR:HG22	1.90	0.55
1:D:353:ILE:HD11	1:D:427:LEU:HA	1.89	0.55
1:D:447:TYR:O	1:D:450:PRO:HD2	2.07	0.55
1:D:487:PHE:CD2	1:D:489:MET:HG3	2.42	0.55
1:D:518:LEU:HD12	1:D:518:LEU:N	2.20	0.55
1:E:353:ILE:HD11	1:E:427:LEU:HA	1.89	0.55
1:E:951:VAL:HA	1:E:987:VAL:HG11	1.87	0.55
1:F:508:TRP:C	1:F:606:GLY:CA	2.69	0.55
1:H:508:TRP:C	1:H:606:GLY:CA	2.70	0.55
1:H:767:GLY:HA2	1:H:783:THR:HG22	1.89	0.55
1:I:442:SER:O	1:I:446:HIS:CG	2.55	0.55
1:I:508:TRP:C	1:I:606:GLY:CA	2.69	0.55
1:J:353:ILE:HD11	1:J:427:LEU:HA	1.89	0.55
1:J:951:VAL:HA	1:J:987:VAL:HG11	1.87	0.55
1:L:317:LEU:HD22	1:L:341:TRP:CH2	2.42	0.55
1:L:350:THR:HA	1:L:353:ILE:HG22	1.88	0.55
1:L:487:PHE:CD2	1:L:489:MET:HG3	2.42	0.55
1:N:353:ILE:HD11	1:N:427:LEU:HA	1.89	0.55
1:N:487:PHE:CD2	1:N:489:MET:HG3	2.42	0.55
1:O:216:ASN:ND2	1:P:194:GLU:OE2	2.40	0.55
1:O:412:GLU:OE1	1:O:414:GLN:N	2.40	0.55
1:O:984:LEU:HD12	1:O:1022:ALA:HB2	1.88	0.55
1:A:353:ILE:HD11	1:A:427:LEU:HA	1.89	0.54
1:A:487:PHE:CD2	1:A:489:MET:HG3	2.42	0.54
1:A:767:GLY:HA2	1:A:783:THR:HG22	1.89	0.54
1:B:150:ASP:OD1	1:B:151:GLY:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:LEU:HD22	1:C:413:LYS:HA	1.88	0.54
1:C:538:LEU:CG	1:C:571:GLU:HG2	2.37	0.54
1:D:317:LEU:C	1:D:318:THR:HG1	1.96	0.54
1:D:410:LEU:HD22	1:D:413:LYS:HA	1.88	0.54
1:E:538:LEU:CG	1:E:571:GLU:HG2	2.37	0.54
1:E:946:ARG:HG3	1:E:947:GLU:H	1.71	0.54
1:F:150:ASP:OD1	1:F:151:GLY:N	2.40	0.54
1:F:442:SER:O	1:F:446:HIS:CG	2.55	0.54
1:F:557:LYS:CE	1:F:1224:LEU:O	2.50	0.54
1:G:487:PHE:CD2	1:G:489:MET:HG3	2.42	0.54
1:G:538:LEU:CG	1:G:571:GLU:HG2	2.37	0.54
1:G:951:VAL:HA	1:G:987:VAL:HG11	1.87	0.54
1:I:388:LEU:HB2	1:I:446:HIS:CE1	2.43	0.54
1:I:538:LEU:CD1	1:I:571:GLU:HG2	2.38	0.54
1:I:563:ARG:NH1	1:I:591:THR:O	2.40	0.54
1:J:447:TYR:O	1:J:450:PRO:HD2	2.07	0.54
1:J:538:LEU:CG	1:J:571:GLU:HG2	2.37	0.54
1:K:487:PHE:CD2	1:K:489:MET:HG3	2.42	0.54
1:K:538:LEU:CD1	1:K:571:GLU:HG2	2.37	0.54
1:L:301:LEU:HD23	1:L:313:PRO:HD2	1.89	0.54
1:L:538:LEU:CD1	1:L:571:GLU:HG2	2.38	0.54
1:M:150:ASP:OD1	1:M:151:GLY:N	2.41	0.54
1:M:516:ASN:O	1:M:517:THR:HG22	2.06	0.54
1:M:767:GLY:HA2	1:M:783:THR:HG22	1.89	0.54
1:N:767:GLY:HA2	1:N:783:THR:HG22	1.89	0.54
1:P:150:ASP:OD1	1:P:151:GLY:N	2.40	0.54
1:P:487:PHE:CD2	1:P:489:MET:HG3	2.42	0.54
1:P:951:VAL:HA	1:P:987:VAL:HG11	1.87	0.54
1:A:516:ASN:O	1:A:517:THR:HG22	2.06	0.54
1:A:946:ARG:HG3	1:A:947:GLU:H	1.71	0.54
1:C:317:LEU:CD2	1:C:341:TRP:CH2	2.90	0.54
1:C:538:LEU:CD1	1:C:571:GLU:HG2	2.38	0.54
1:D:114:TYR:O	1:D:117:ASN:N	2.36	0.54
1:D:317:LEU:CD2	1:D:341:TRP:CH2	2.90	0.54
1:D:538:LEU:CD1	1:D:571:GLU:HG2	2.38	0.54
1:E:365:TYR:O	1:E:368:MET:N	2.21	0.54
1:E:397:ASP:HA	1:E:400:VAL:HB	1.89	0.54
1:E:1195:VAL:HG11	1:E:1241:PHE:HZ	1.72	0.54
1:F:458:LEU:CG	1:F:587:ARG:HH21	2.19	0.54
1:G:388:LEU:HB2	1:G:446:HIS:CE1	2.43	0.54
1:G:397:ASP:HA	1:G:400:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:510:ALA:O	1:G:511:SER:HB2	2.07	0.54
1:H:317:LEU:HD22	1:H:341:TRP:CH2	2.42	0.54
1:H:388:LEU:HB2	1:H:446:HIS:CE1	2.43	0.54
1:H:397:ASP:HA	1:H:400:VAL:HB	1.89	0.54
1:H:984:LEU:HD12	1:H:1022:ALA:HB2	1.88	0.54
1:J:317:LEU:HD22	1:J:341:TRP:CH2	2.42	0.54
1:K:317:LEU:CD2	1:K:341:TRP:CH2	2.90	0.54
1:K:317:LEU:C	1:K:318:THR:HG1	1.96	0.54
1:L:317:LEU:CD2	1:L:341:TRP:CH2	2.90	0.54
1:L:353:ILE:HD11	1:L:427:LEU:HA	1.89	0.54
1:L:412:GLU:OE1	1:L:414:GLN:N	2.40	0.54
1:N:516:ASN:O	1:N:517:THR:HG22	2.06	0.54
1:O:301:LEU:HD23	1:O:313:PRO:HD2	1.89	0.54
1:O:317:LEU:HD22	1:O:341:TRP:CH2	2.42	0.54
1:O:397:ASP:HA	1:O:400:VAL:HB	1.89	0.54
1:P:120:PHE:HE1	1:P:159:TRP:CE3	2.26	0.54
1:P:124:ASN:H	1:P:303:LYS:HZ3	1.55	0.54
1:P:388:LEU:HB2	1:P:446:HIS:CE1	2.43	0.54
1:P:397:ASP:HA	1:P:400:VAL:HB	1.89	0.54
1:P:538:LEU:CG	1:P:571:GLU:HG2	2.37	0.54
1:P:984:LEU:HD12	1:P:1022:ALA:HB2	1.88	0.54
1:C:91:PRO:O	1:C:94:THR:OG1	2.21	0.54
1:C:317:LEU:HD22	1:C:341:TRP:CH2	2.42	0.54
1:C:353:ILE:HD11	1:C:427:LEU:HA	1.90	0.54
1:C:368:MET:HA	1:C:390:TRP:HE1	1.73	0.54
1:D:100:SER:O	1:D:103:THR:N	2.41	0.54
1:D:350:THR:HA	1:D:353:ILE:HG22	1.88	0.54
1:E:458:LEU:CG	1:E:587:ARG:HH21	2.19	0.54
1:F:563:ARG:NH1	1:F:591:THR:O	2.40	0.54
1:G:120:PHE:HE1	1:G:159:TRP:CE3	2.26	0.54
1:G:150:ASP:OD1	1:G:151:GLY:N	2.41	0.54
1:G:412:GLU:OE1	1:G:414:GLN:N	2.40	0.54
1:G:984:LEU:HD12	1:G:1022:ALA:HB2	1.88	0.54
1:I:383:THR:N	1:I:419:THR:HA	2.21	0.54
1:J:397:ASP:HA	1:J:400:VAL:HB	1.89	0.54
1:J:1195:VAL:HG11	1:J:1241:PHE:HZ	1.73	0.54
1:K:557:LYS:CB	1:K:1226:TYR:CE1	2.87	0.54
1:L:383:THR:N	1:L:419:THR:HA	2.21	0.54
1:L:553:LEU:HB3	1:L:556:SER:HG	1.72	0.54
1:M:317:LEU:HD22	1:M:341:TRP:CH2	2.42	0.54
1:M:353:ILE:HD11	1:M:427:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:487:PHE:HD2	1:M:489:MET:HG3	1.72	0.54
1:M:538:LEU:CD1	1:M:571:GLU:HG2	2.38	0.54
1:O:487:PHE:HD2	1:O:489:MET:HG3	1.72	0.54
1:P:100:SER:O	1:P:103:THR:N	2.41	0.54
1:P:368:MET:HE1	1:P:401:VAL:HG21	1.88	0.54
1:P:412:GLU:OE1	1:P:414:GLN:N	2.40	0.54
1:A:368:MET:HE1	1:A:401:VAL:HG21	1.88	0.54
1:A:389:ILE:CD1	1:A:446:HIS:CD2	2.91	0.54
1:A:538:LEU:CD1	1:A:571:GLU:HG2	2.38	0.54
1:B:317:LEU:HD22	1:B:341:TRP:CH2	2.42	0.54
1:B:353:ILE:HD11	1:B:427:LEU:HA	1.89	0.54
1:B:487:PHE:HD2	1:B:489:MET:HG3	1.72	0.54
1:B:538:LEU:CD1	1:B:571:GLU:HG2	2.38	0.54
1:C:100:SER:O	1:C:103:THR:N	2.41	0.54
1:C:130:PRO:HA	1:C:290:MET:HE1	1.90	0.54
1:C:383:THR:N	1:C:419:THR:HA	2.21	0.54
1:D:120:PHE:HE1	1:D:159:TRP:CE3	2.26	0.54
1:D:510:ALA:O	1:D:511:SER:HB2	2.07	0.54
1:D:557:LYS:CB	1:D:1226:TYR:CE1	2.87	0.54
1:D:1195:VAL:HG11	1:D:1241:PHE:HZ	1.73	0.54
1:E:317:LEU:HD22	1:E:341:TRP:CH2	2.42	0.54
1:F:388:LEU:HB2	1:F:446:HIS:CE1	2.43	0.54
1:F:538:LEU:CG	1:F:571:GLU:HG2	2.37	0.54
1:G:100:SER:O	1:G:103:THR:N	2.41	0.54
1:G:368:MET:HE1	1:G:401:VAL:HG21	1.89	0.54
1:G:550:GLU:O	1:G:552:ASN:ND2	2.41	0.54
1:H:353:ILE:HD11	1:H:427:LEU:HA	1.89	0.54
1:H:487:PHE:HD2	1:H:489:MET:HG3	1.72	0.54
1:I:100:SER:O	1:I:103:THR:N	2.41	0.54
1:I:150:ASP:OD1	1:I:151:GLY:N	2.40	0.54
1:I:458:LEU:CG	1:I:587:ARG:HH21	2.19	0.54
1:J:946:ARG:HG3	1:J:947:GLU:H	1.71	0.54
1:K:100:SER:O	1:K:103:THR:N	2.41	0.54
1:K:350:THR:HA	1:K:353:ILE:HG22	1.88	0.54
1:K:412:GLU:OE1	1:K:414:GLN:N	2.40	0.54
1:K:510:ALA:O	1:K:511:SER:HB2	2.07	0.54
1:L:130:PRO:HA	1:L:290:MET:HE1	1.90	0.54
1:L:150:ASP:OD1	1:L:151:GLY:N	2.40	0.54
1:N:368:MET:HE1	1:N:401:VAL:HG21	1.88	0.54
1:N:389:ILE:CD1	1:N:446:HIS:CD2	2.91	0.54
1:N:538:LEU:CD1	1:N:571:GLU:HG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:301:LEU:HD23	1:P:313:PRO:HD2	1.89	0.54
1:P:510:ALA:O	1:P:511:SER:HB2	2.07	0.54
1:P:550:GLU:O	1:P:552:ASN:ND2	2.41	0.54
1:P:767:GLY:HA2	1:P:783:THR:HG22	1.89	0.54
1:A:388:LEU:HB2	1:A:446:HIS:CE1	2.43	0.54
1:D:317:LEU:HD22	1:D:341:TRP:CH2	2.42	0.54
1:D:767:GLY:HA2	1:D:783:THR:HG22	1.89	0.54
1:F:100:SER:O	1:F:103:THR:N	2.41	0.54
1:F:550:GLU:O	1:F:552:ASN:ND2	2.41	0.54
1:G:301:LEU:HD23	1:G:313:PRO:HD2	1.89	0.54
1:G:767:GLY:HA2	1:G:783:THR:HG22	1.89	0.54
1:H:100:SER:O	1:H:103:THR:N	2.41	0.54
1:H:301:LEU:CD2	1:H:313:PRO:CD	2.86	0.54
1:H:538:LEU:CD1	1:H:571:GLU:HG2	2.38	0.54
1:H:541:ALA:O	1:H:544:ASP:N	2.30	0.54
1:H:550:GLU:O	1:H:552:ASN:ND2	2.41	0.54
1:I:124:ASN:H	1:I:303:LYS:HZ3	1.56	0.54
1:I:353:ILE:HD11	1:I:427:LEU:HA	1.89	0.54
1:I:550:GLU:O	1:I:552:ASN:ND2	2.41	0.54
1:J:458:LEU:CG	1:J:587:ARG:HH21	2.19	0.54
1:K:538:LEU:CG	1:K:571:GLU:HG2	2.37	0.54
1:K:1195:VAL:HG11	1:K:1241:PHE:HZ	1.73	0.54
1:L:100:SER:O	1:L:103:THR:N	2.41	0.54
1:L:368:MET:HA	1:L:390:TRP:HE1	1.73	0.54
1:L:538:LEU:CG	1:L:571:GLU:HG2	2.37	0.54
1:M:368:MET:HA	1:M:390:TRP:HE1	1.73	0.54
1:N:388:LEU:HB2	1:N:446:HIS:CE1	2.43	0.54
1:N:946:ARG:HG3	1:N:947:GLU:H	1.71	0.54
1:O:100:SER:O	1:O:103:THR:N	2.41	0.54
1:O:353:ILE:HD11	1:O:427:LEU:HA	1.89	0.54
1:O:388:LEU:HB2	1:O:446:HIS:CE1	2.43	0.54
1:O:516:ASN:O	1:O:517:THR:HG22	2.06	0.54
1:O:538:LEU:CD1	1:O:571:GLU:HG2	2.38	0.54
1:O:541:ALA:O	1:O:544:ASP:N	2.30	0.54
1:O:550:GLU:O	1:O:552:ASN:ND2	2.41	0.54
1:P:410:LEU:HD22	1:P:413:LYS:HA	1.88	0.54
1:P:516:ASN:O	1:P:517:THR:HG22	2.06	0.54
1:A:120:PHE:HE1	1:A:159:TRP:CE3	2.26	0.54
1:A:150:ASP:OD1	1:A:151:GLY:N	2.40	0.54
1:A:541:ALA:O	1:A:544:ASP:N	2.30	0.54
1:B:368:MET:HA	1:B:390:TRP:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:LEU:HD12	1:B:420:ILE:HD13	1.90	0.54
1:C:389:ILE:CD1	1:C:446:HIS:CD2	2.91	0.54
1:D:412:GLU:OE1	1:D:414:GLN:N	2.40	0.54
1:E:120:PHE:HE1	1:E:159:TRP:CE3	2.26	0.54
1:F:124:ASN:H	1:F:303:LYS:HZ3	1.56	0.54
1:F:156:GLY:HA2	2:F:1501:DTP:O2A	2.08	0.54
1:F:353:ILE:HD11	1:F:427:LEU:HA	1.89	0.54
1:F:633:THR:HG21	1:F:643:TYR:CA	2.33	0.54
1:G:119:VAL:HA	1:G:159:TRP:CH2	2.43	0.54
1:G:301:LEU:CD2	1:G:313:PRO:CD	2.86	0.54
1:G:317:LEU:HD22	1:G:341:TRP:CH2	2.42	0.54
1:G:516:ASN:O	1:G:517:THR:HG22	2.06	0.54
1:H:516:ASN:O	1:H:517:THR:HG22	2.06	0.54
1:I:557:LYS:CE	1:I:1224:LEU:O	2.50	0.54
1:J:119:VAL:HA	1:J:159:TRP:CH2	2.43	0.54
1:J:120:PHE:HE1	1:J:159:TRP:CE3	2.26	0.54
1:J:397:ASP:O	1:J:401:VAL:N	2.28	0.54
1:K:120:PHE:HE1	1:K:159:TRP:CE3	2.26	0.54
1:K:767:GLY:HA2	1:K:783:THR:HG22	1.89	0.54
1:L:410:LEU:HD22	1:L:413:LYS:HA	1.88	0.54
1:M:386:LEU:HD12	1:M:420:ILE:HD13	1.90	0.54
1:M:538:LEU:CG	1:M:571:GLU:HG2	2.37	0.54
1:N:120:PHE:HE1	1:N:159:TRP:CE3	2.26	0.54
1:O:301:LEU:CD2	1:O:313:PRO:CD	2.86	0.54
1:P:301:LEU:CD2	1:P:313:PRO:CD	2.86	0.54
1:A:168:TYR:O	1:A:171:GLN:N	2.41	0.54
1:A:538:LEU:CG	1:A:571:GLU:HG2	2.37	0.54
1:B:538:LEU:CG	1:B:571:GLU:HG2	2.37	0.54
1:C:150:ASP:OD1	1:C:151:GLY:N	2.41	0.54
1:C:301:LEU:CD2	1:C:313:PRO:CD	2.86	0.54
1:C:1182:GLU:O	1:C:1183:GLU:HG3	2.08	0.54
1:D:168:TYR:O	1:D:171:GLN:N	2.41	0.54
1:D:383:THR:N	1:D:419:THR:HA	2.21	0.54
1:D:538:LEU:CG	1:D:571:GLU:HG2	2.37	0.54
1:H:168:TYR:O	1:H:171:GLN:N	2.41	0.54
1:I:156:GLY:HA2	2:I:1501:DTP:O1A	2.08	0.54
1:I:1195:VAL:HG11	1:I:1241:PHE:HZ	1.73	0.54
1:J:168:TYR:O	1:J:171:GLN:N	2.41	0.54
1:K:114:TYR:O	1:K:117:ASN:N	2.36	0.54
1:K:168:TYR:O	1:K:171:GLN:N	2.41	0.54
1:K:317:LEU:HD22	1:K:341:TRP:CH2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:389:ILE:CD1	1:L:446:HIS:CD2	2.91	0.54
1:N:100:SER:O	1:N:103:THR:N	2.41	0.54
1:N:150:ASP:OD1	1:N:151:GLY:N	2.40	0.54
1:N:168:TYR:O	1:N:171:GLN:N	2.41	0.54
1:O:168:TYR:O	1:O:171:GLN:N	2.41	0.54
1:O:368:MET:HE1	1:O:401:VAL:HG21	1.88	0.54
1:A:100:SER:O	1:A:103:THR:N	2.41	0.54
1:A:317:LEU:HD22	1:A:341:TRP:CH2	2.42	0.54
1:A:388:LEU:CB	1:A:446:HIS:CE1	2.91	0.54
1:A:442:SER:O	1:A:446:HIS:CG	2.55	0.54
1:B:120:PHE:HE1	1:B:159:TRP:CE3	2.26	0.54
1:C:124:ASN:H	1:C:303:LYS:HZ3	1.56	0.54
1:E:119:VAL:HA	1:E:159:TRP:CH2	2.43	0.54
1:E:388:LEU:HB2	1:E:446:HIS:CE1	2.43	0.54
1:E:487:PHE:CD2	1:E:489:MET:HG3	2.42	0.54
1:F:383:THR:N	1:F:419:THR:HA	2.21	0.54
1:F:397:ASP:HA	1:F:400:VAL:HB	1.89	0.54
1:F:447:TYR:O	1:F:450:PRO:HD2	2.07	0.54
1:G:410:LEU:HD22	1:G:413:LYS:HA	1.88	0.54
1:H:156:GLY:HA2	2:H:1501:DTP:O2A	2.08	0.54
1:H:389:ILE:CD1	1:H:446:HIS:CD2	2.91	0.54
1:I:447:TYR:O	1:I:450:PRO:HD2	2.07	0.54
1:I:538:LEU:CG	1:I:571:GLU:HG2	2.37	0.54
1:I:633:THR:HG21	1:I:643:TYR:CA	2.33	0.54
1:L:120:PHE:HE1	1:L:159:TRP:CE3	2.26	0.54
1:L:301:LEU:CD2	1:L:313:PRO:CD	2.86	0.54
1:L:518:LEU:HD22	1:L:643:TYR:CE1	2.22	0.54
1:L:541:ALA:O	1:L:544:ASP:N	2.30	0.54
1:M:120:PHE:HE1	1:M:159:TRP:CE3	2.26	0.54
1:N:301:LEU:CD2	1:N:313:PRO:CD	2.86	0.54
1:N:317:LEU:HD22	1:N:341:TRP:CH2	2.42	0.54
1:N:388:LEU:CB	1:N:446:HIS:CE1	2.91	0.54
1:N:442:SER:O	1:N:446:HIS:CG	2.55	0.54
1:N:538:LEU:CG	1:N:571:GLU:HG2	2.37	0.54
1:N:541:ALA:O	1:N:544:ASP:N	2.30	0.54
1:P:119:VAL:HA	1:P:159:TRP:CH2	2.43	0.54
1:P:317:LEU:HD22	1:P:341:TRP:CH2	2.42	0.54
1:A:106:TYR:O	1:A:109:GLN:N	2.41	0.54
1:A:122:LYS:HG3	1:B:276:SER:OG	2.07	0.54
1:A:301:LEU:CD2	1:A:313:PRO:CD	2.86	0.54
1:B:168:TYR:O	1:B:171:GLN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:343:HIS:O	1:B:344:VAL:C	2.46	0.54
1:B:388:LEU:HB2	1:B:446:HIS:CE1	2.43	0.54
1:C:120:PHE:HE1	1:C:159:TRP:CE3	2.26	0.54
1:C:343:HIS:O	1:C:344:VAL:C	2.46	0.54
1:C:510:ALA:O	1:C:511:SER:HB2	2.07	0.54
1:C:550:GLU:O	1:C:552:ASN:ND2	2.41	0.54
1:C:1195:VAL:HG11	1:C:1241:PHE:HZ	1.72	0.54
1:D:124:ASN:H	1:D:303:LYS:HZ3	1.56	0.54
1:D:301:LEU:CD2	1:D:313:PRO:CD	2.86	0.54
1:D:301:LEU:HD23	1:D:313:PRO:HD2	1.89	0.54
1:D:368:MET:HA	1:D:390:TRP:HE1	1.73	0.54
1:D:388:LEU:HB2	1:D:446:HIS:CE1	2.43	0.54
1:E:168:TYR:O	1:E:171:GLN:N	2.41	0.54
1:F:120:PHE:HE1	1:F:159:TRP:CE3	2.26	0.54
1:F:301:LEU:HD23	1:F:313:PRO:HD2	1.89	0.54
1:F:1195:VAL:HG11	1:F:1241:PHE:HZ	1.73	0.54
1:G:106:TYR:O	1:G:109:GLN:N	2.41	0.54
1:G:353:ILE:HD11	1:G:427:LEU:HA	1.89	0.54
1:G:538:LEU:CD1	1:G:571:GLU:HG2	2.37	0.54
1:H:368:MET:HE1	1:H:401:VAL:HG21	1.88	0.54
1:H:604:ASN:HB3	1:H:929:VAL:HG12	1.90	0.54
1:I:120:PHE:HE1	1:I:159:TRP:CE3	2.26	0.54
1:J:388:LEU:HB2	1:J:446:HIS:CE1	2.43	0.54
1:J:487:PHE:CD2	1:J:489:MET:HG3	2.42	0.54
1:K:106:TYR:O	1:K:109:GLN:N	2.41	0.54
1:K:124:ASN:H	1:K:303:LYS:HZ3	1.56	0.54
1:K:301:LEU:HD23	1:K:313:PRO:HD2	1.89	0.54
1:K:383:THR:N	1:K:419:THR:HA	2.21	0.54
1:K:388:LEU:HB2	1:K:446:HIS:CE1	2.43	0.54
1:L:1182:GLU:O	1:L:1183:GLU:HG3	2.08	0.54
1:L:1195:VAL:HG11	1:L:1241:PHE:HZ	1.73	0.54
1:M:168:TYR:O	1:M:171:GLN:N	2.41	0.54
1:M:301:LEU:CD2	1:M:313:PRO:CD	2.86	0.54
1:M:383:THR:N	1:M:419:THR:HA	2.21	0.54
1:M:388:LEU:HB2	1:M:446:HIS:CE1	2.43	0.54
1:N:106:TYR:O	1:N:109:GLN:N	2.41	0.54
1:O:156:GLY:HA2	2:O:1501:DTP:O1A	2.08	0.54
1:O:389:ILE:CD1	1:O:446:HIS:CD2	2.91	0.54
1:O:510:ALA:O	1:O:511:SER:HB2	2.07	0.54
1:O:604:ASN:HB3	1:O:929:VAL:HG12	1.90	0.54
1:P:353:ILE:HD11	1:P:427:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:PHE:HD2	1:A:489:MET:HG3	1.72	0.54
1:A:550:GLU:O	1:A:552:ASN:ND2	2.41	0.54
1:B:301:LEU:CD2	1:B:313:PRO:CD	2.86	0.54
1:B:383:THR:N	1:B:419:THR:HA	2.21	0.54
1:B:1182:GLU:O	1:B:1183:GLU:HG3	2.08	0.54
1:C:106:TYR:O	1:C:109:GLN:N	2.41	0.54
1:C:119:VAL:HA	1:C:159:TRP:CH2	2.43	0.54
1:D:106:TYR:O	1:D:109:GLN:N	2.41	0.54
1:D:119:VAL:HA	1:D:159:TRP:CH2	2.43	0.54
1:E:100:SER:O	1:E:103:THR:N	2.41	0.54
1:E:557:LYS:CB	1:E:1226:TYR:CE1	2.87	0.54
1:F:301:LEU:CD2	1:F:313:PRO:CD	2.86	0.54
1:F:767:GLY:HA2	1:F:783:THR:HG22	1.89	0.54
1:H:150:ASP:OD1	1:H:151:GLY:N	2.40	0.54
1:H:388:LEU:CB	1:H:446:HIS:CE1	2.91	0.54
1:H:538:LEU:CG	1:H:571:GLU:HG2	2.37	0.54
1:I:301:LEU:HD23	1:I:313:PRO:HD2	1.89	0.54
1:I:388:LEU:CB	1:I:446:HIS:CE1	2.91	0.54
1:K:119:VAL:HA	1:K:159:TRP:CH2	2.43	0.54
1:K:301:LEU:CD2	1:K:313:PRO:CD	2.86	0.54
1:K:368:MET:HA	1:K:390:TRP:HE1	1.73	0.54
1:L:106:TYR:O	1:L:109:GLN:N	2.41	0.54
1:L:343:HIS:O	1:L:344:VAL:C	2.46	0.54
1:M:343:HIS:O	1:M:344:VAL:C	2.46	0.54
1:N:550:GLU:O	1:N:552:ASN:ND2	2.41	0.54
1:O:150:ASP:OD1	1:O:151:GLY:N	2.40	0.54
1:P:106:TYR:O	1:P:109:GLN:N	2.41	0.54
1:P:557:LYS:CE	1:P:1224:LEU:O	2.50	0.54
1:A:368:MET:HA	1:A:390:TRP:HE1	1.73	0.53
1:A:510:ALA:O	1:A:511:SER:HB2	2.07	0.53
1:B:120:PHE:CZ	1:B:162:LEU:HB2	2.43	0.53
1:B:743:ILE:HG22	1:B:762:LYS:HA	1.91	0.53
1:C:553:LEU:HB3	1:C:556:SER:HG	1.73	0.53
1:E:150:ASP:OD1	1:E:151:GLY:N	2.40	0.53
1:E:538:LEU:CD1	1:E:571:GLU:HG2	2.38	0.53
1:F:386:LEU:HD12	1:F:420:ILE:HD13	1.90	0.53
1:G:124:ASN:H	1:G:303:LYS:HZ3	1.56	0.53
1:H:120:PHE:CZ	1:H:162:LEU:HB2	2.43	0.53
1:H:510:ALA:O	1:H:511:SER:HB2	2.07	0.53
1:I:487:PHE:CD2	1:I:489:MET:HG3	2.42	0.53
1:I:553:LEU:HB3	1:I:556:SER:HG	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:100:SER:O	1:J:103:THR:N	2.41	0.53
1:J:171:GLN:HE22	1:J:178:ILE:HD12	1.74	0.53
1:J:557:LYS:CB	1:J:1226:TYR:CE1	2.87	0.53
1:J:767:GLY:HA2	1:J:783:THR:HG22	1.89	0.53
1:L:550:GLU:O	1:L:552:ASN:ND2	2.41	0.53
1:L:557:LYS:CB	1:L:1226:TYR:CE1	2.87	0.53
1:M:114:TYR:O	1:M:117:ASN:N	2.36	0.53
1:M:120:PHE:CZ	1:M:162:LEU:HB2	2.43	0.53
1:M:1182:GLU:O	1:M:1183:GLU:HG3	2.08	0.53
1:N:386:LEU:HD12	1:N:420:ILE:HD13	1.90	0.53
1:N:510:ALA:O	1:N:511:SER:HB2	2.07	0.53
1:P:538:LEU:CD1	1:P:571:GLU:HG2	2.38	0.53
1:P:604:ASN:HB3	1:P:929:VAL:HG12	1.90	0.53
1:B:100:SER:O	1:B:103:THR:N	2.41	0.53
1:B:114:TYR:O	1:B:117:ASN:N	2.36	0.53
1:B:171:GLN:HE22	1:B:178:ILE:HD12	1.74	0.53
1:B:389:ILE:CD1	1:B:446:HIS:CD2	2.91	0.53
1:D:120:PHE:HZ	1:D:162:LEU:HB2	1.73	0.53
1:E:386:LEU:HD12	1:E:420:ILE:HD13	1.90	0.53
1:E:487:PHE:HD2	1:E:489:MET:HG3	1.72	0.53
1:E:767:GLY:HA2	1:E:783:THR:HG22	1.89	0.53
1:F:106:TYR:O	1:F:109:GLN:N	2.41	0.53
1:F:1182:GLU:O	1:F:1183:GLU:HG3	2.08	0.53
1:G:120:PHE:CZ	1:G:162:LEU:HB2	2.43	0.53
1:G:156:GLY:HA2	2:G:1501:DTP:O2A	2.08	0.53
1:G:168:TYR:O	1:G:171:GLN:N	2.41	0.53
1:G:557:LYS:CE	1:G:1224:LEU:O	2.51	0.53
1:G:604:ASN:HB3	1:G:929:VAL:HG12	1.90	0.53
1:I:301:LEU:CD2	1:I:313:PRO:CD	2.86	0.53
1:J:120:PHE:HZ	1:J:162:LEU:HB2	1.73	0.53
1:J:150:ASP:OD1	1:J:151:GLY:N	2.40	0.53
1:J:386:LEU:HD12	1:J:420:ILE:HD13	1.90	0.53
1:J:538:LEU:CD1	1:J:571:GLU:HG2	2.38	0.53
1:K:120:PHE:HZ	1:K:162:LEU:HB2	1.73	0.53
1:L:119:VAL:HA	1:L:159:TRP:CH2	2.43	0.53
1:M:100:SER:O	1:M:103:THR:N	2.41	0.53
1:M:171:GLN:HE22	1:M:178:ILE:HD12	1.74	0.53
1:M:389:ILE:CD1	1:M:446:HIS:CD2	2.91	0.53
1:N:119:VAL:HA	1:N:159:TRP:CH2	2.43	0.53
1:O:120:PHE:CZ	1:O:162:LEU:HB2	2.43	0.53
1:O:388:LEU:CB	1:O:446:HIS:CE1	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:538:LEU:CG	1:O:571:GLU:HG2	2.37	0.53
1:P:156:GLY:HA2	2:P:1501:DTP:O1A	2.08	0.53
1:P:168:TYR:O	1:P:171:GLN:N	2.41	0.53
1:A:119:VAL:HA	1:A:159:TRP:CH2	2.43	0.53
1:A:120:PHE:CZ	1:A:162:LEU:HB2	2.43	0.53
1:A:386:LEU:HD12	1:A:420:ILE:HD13	1.90	0.53
1:A:548:LYS:HZ2	1:A:601:GLN:H	1.56	0.53
1:B:248:GLN:CD	1:B:268:PHE:CE2	2.74	0.53
1:B:388:LEU:CB	1:B:446:HIS:CE1	2.91	0.53
1:C:388:LEU:HB2	1:C:446:HIS:CE1	2.43	0.53
1:D:343:HIS:O	1:D:344:VAL:C	2.46	0.53
1:E:120:PHE:HZ	1:E:162:LEU:HB2	1.73	0.53
1:E:171:GLN:HE22	1:E:178:ILE:HD12	1.74	0.53
1:E:388:LEU:CB	1:E:446:HIS:CE1	2.91	0.53
1:F:388:LEU:CB	1:F:446:HIS:CE1	2.91	0.53
1:F:487:PHE:CD2	1:F:489:MET:HG3	2.42	0.53
1:G:450:PRO:HG2	1:G:471:ILE:HD11	1.90	0.53
1:I:106:TYR:O	1:I:109:GLN:N	2.41	0.53
1:I:548:LYS:HZ2	1:I:601:GLN:H	1.53	0.53
1:I:767:GLY:HA2	1:I:783:THR:HG22	1.89	0.53
1:I:1182:GLU:O	1:I:1183:GLU:HG3	2.08	0.53
1:J:388:LEU:CB	1:J:446:HIS:CE1	2.91	0.53
1:J:487:PHE:HD2	1:J:489:MET:HG3	1.72	0.53
1:K:150:ASP:OD1	1:K:151:GLY:N	2.40	0.53
1:K:343:HIS:O	1:K:344:VAL:C	2.46	0.53
1:L:91:PRO:O	1:L:94:THR:OG1	2.22	0.53
1:L:637:LEU:O	1:L:638:GLU:CB	2.43	0.53
1:M:388:LEU:CB	1:M:446:HIS:CE1	2.91	0.53
1:M:743:ILE:HG22	1:M:762:LYS:HA	1.91	0.53
1:N:368:MET:HA	1:N:390:TRP:HE1	1.73	0.53
1:N:397:ASP:HA	1:N:400:VAL:HB	1.89	0.53
1:N:487:PHE:HD2	1:N:489:MET:HG3	1.72	0.53
1:P:120:PHE:CZ	1:P:162:LEU:HB2	2.43	0.53
1:P:450:PRO:HG2	1:P:471:ILE:HD11	1.90	0.53
1:A:343:HIS:O	1:A:344:VAL:C	2.46	0.53
1:B:106:TYR:O	1:B:109:GLN:N	2.41	0.53
1:B:119:VAL:HA	1:B:159:TRP:CH2	2.43	0.53
1:B:313:PRO:HA	1:B:338:TRP:HH2	1.63	0.53
1:C:156:GLY:HA2	2:C:1501:DTP:O2A	2.08	0.53
1:C:248:GLN:CD	1:C:268:PHE:CE2	2.74	0.53
1:C:557:LYS:CB	1:C:1226:TYR:CE1	2.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:156:GLY:HA2	2:D:1501:DTP:O2A	2.08	0.53
1:D:550:GLU:O	1:D:552:ASN:ND2	2.41	0.53
1:E:301:LEU:CD2	1:E:313:PRO:CD	2.86	0.53
1:E:301:LEU:HD23	1:E:313:PRO:HD2	1.89	0.53
1:E:743:ILE:HG22	1:E:762:LYS:HA	1.91	0.53
1:F:553:LEU:HB3	1:F:556:SER:HG	1.73	0.53
1:G:388:LEU:CB	1:G:446:HIS:CE1	2.91	0.53
1:G:389:ILE:CD1	1:G:446:HIS:CD2	2.91	0.53
1:G:394:ILE:HD12	1:G:395:LYS:HE3	1.91	0.53
1:H:450:PRO:HG2	1:H:471:ILE:HD11	1.91	0.53
1:I:168:TYR:O	1:I:171:GLN:N	2.41	0.53
1:I:386:LEU:HD12	1:I:420:ILE:HD13	1.90	0.53
1:I:397:ASP:HA	1:I:400:VAL:HB	1.89	0.53
1:J:301:LEU:CD2	1:J:313:PRO:CD	2.86	0.53
1:J:743:ILE:HG22	1:J:762:LYS:HA	1.91	0.53
1:K:156:GLY:HA2	2:K:1501:DTP:O1A	2.08	0.53
1:K:389:ILE:CD1	1:K:446:HIS:CD2	2.91	0.53
1:L:388:LEU:HB2	1:L:446:HIS:CE1	2.43	0.53
1:M:106:TYR:O	1:M:109:GLN:N	2.41	0.53
1:M:248:GLN:CD	1:M:268:PHE:CE2	2.74	0.53
1:N:156:GLY:HA2	2:N:1501:DTP:O1A	2.08	0.53
1:P:388:LEU:CB	1:P:446:HIS:CE1	2.91	0.53
1:P:389:ILE:CD1	1:P:446:HIS:CD2	2.91	0.53
1:A:604:ASN:HB3	1:A:929:VAL:HG12	1.90	0.53
1:C:114:TYR:O	1:C:117:ASN:N	2.36	0.53
1:C:168:TYR:O	1:C:171:GLN:N	2.41	0.53
1:C:386:LEU:HD12	1:C:420:ILE:HD13	1.90	0.53
1:C:631:LEU:HD22	1:C:680:LEU:HD22	1.91	0.53
1:C:743:ILE:HG22	1:C:762:LYS:HA	1.91	0.53
1:D:150:ASP:OD1	1:D:151:GLY:N	2.41	0.53
1:D:389:ILE:CD1	1:D:446:HIS:CD2	2.91	0.53
1:E:368:MET:HA	1:E:390:TRP:HE1	1.73	0.53
1:G:171:GLN:HE22	1:G:178:ILE:HD12	1.74	0.53
1:H:106:TYR:O	1:H:109:GLN:N	2.41	0.53
1:H:119:VAL:HA	1:H:159:TRP:CH2	2.43	0.53
1:H:799:ASN:C	1:H:800:THR:HG23	2.29	0.53
1:I:120:PHE:HZ	1:I:162:LEU:HB2	1.73	0.53
1:I:631:LEU:HD22	1:I:680:LEU:HD22	1.91	0.53
1:J:301:LEU:HD23	1:J:313:PRO:HD2	1.89	0.53
1:J:410:LEU:HD22	1:J:413:LYS:HA	1.88	0.53
1:K:550:GLU:O	1:K:552:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:510:ALA:O	1:L:511:SER:HB2	2.07	0.53
1:M:119:VAL:HA	1:M:159:TRP:CH2	2.43	0.53
1:M:313:PRO:HA	1:M:338:TRP:HH2	1.63	0.53
1:N:120:PHE:CZ	1:N:162:LEU:HB2	2.43	0.53
1:N:343:HIS:O	1:N:344:VAL:C	2.46	0.53
1:N:548:LYS:HZ2	1:N:601:GLN:H	1.56	0.53
1:O:106:TYR:O	1:O:109:GLN:N	2.41	0.53
1:O:386:LEU:HD12	1:O:420:ILE:HD13	1.90	0.53
1:P:1195:VAL:HG11	1:P:1241:PHE:HZ	1.73	0.53
1:A:156:GLY:HA2	2:A:1501:DTP:O2A	2.08	0.53
1:A:397:ASP:HA	1:A:400:VAL:HB	1.89	0.53
1:B:799:ASN:C	1:B:800:THR:HG23	2.29	0.53
1:C:388:LEU:CB	1:C:446:HIS:CE1	2.91	0.53
1:C:487:PHE:HD2	1:C:489:MET:HG3	1.72	0.53
1:C:508:TRP:CZ3	1:C:927:GLN:C	2.82	0.53
1:E:508:TRP:CZ3	1:E:927:GLN:C	2.82	0.53
1:F:119:VAL:HA	1:F:159:TRP:CH2	2.43	0.53
1:F:631:LEU:HD22	1:F:680:LEU:HD22	1.91	0.53
1:F:743:ILE:HG22	1:F:762:LYS:HA	1.91	0.53
1:H:368:MET:HA	1:H:390:TRP:HE1	1.72	0.53
1:H:1182:GLU:O	1:H:1183:GLU:HG3	2.08	0.53
1:I:343:HIS:O	1:I:344:VAL:C	2.46	0.53
1:J:368:MET:HA	1:J:390:TRP:HE1	1.73	0.53
1:L:397:ASP:HA	1:L:400:VAL:HB	1.89	0.53
1:L:631:LEU:HD22	1:L:680:LEU:HD22	1.91	0.53
1:M:397:ASP:HA	1:M:400:VAL:HB	1.89	0.53
1:M:799:ASN:C	1:M:800:THR:HG23	2.29	0.53
1:N:604:ASN:HB3	1:N:929:VAL:HG12	1.90	0.53
1:O:119:VAL:HA	1:O:159:TRP:CH2	2.43	0.53
1:O:450:PRO:HG2	1:O:471:ILE:HD11	1.91	0.53
1:O:616:LEU:HD23	1:O:620:PHE:HB2	1.91	0.53
1:O:799:ASN:C	1:O:800:THR:HG23	2.29	0.53
1:O:1182:GLU:O	1:O:1183:GLU:HG3	2.08	0.53
1:P:171:GLN:HE22	1:P:178:ILE:HD12	1.74	0.53
1:P:394:ILE:HD12	1:P:395:LYS:HE3	1.91	0.53
1:A:1182:GLU:O	1:A:1183:GLU:HG3	2.08	0.53
1:B:156:GLY:HA2	2:B:1501:DTP:O2A	2.08	0.53
1:B:397:ASP:HA	1:B:400:VAL:HB	1.89	0.53
1:B:508:TRP:CZ3	1:B:927:GLN:C	2.82	0.53
1:C:397:ASP:HA	1:C:400:VAL:HB	1.89	0.53
1:D:388:LEU:CB	1:D:446:HIS:CE1	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:511:SER:C	1:D:513:SER:N	2.60	0.53
1:E:410:LEU:HD22	1:E:413:LYS:HA	1.88	0.53
1:F:120:PHE:HZ	1:F:162:LEU:HB2	1.73	0.53
1:F:120:PHE:CZ	1:F:162:LEU:HB2	2.43	0.53
1:F:171:GLN:HE22	1:F:178:ILE:HD12	1.74	0.53
1:G:799:ASN:C	1:G:800:THR:HG23	2.29	0.53
1:G:1195:VAL:HG11	1:G:1241:PHE:HZ	1.73	0.53
1:H:386:LEU:HD12	1:H:420:ILE:HD13	1.90	0.53
1:H:394:ILE:HD12	1:H:395:LYS:HE3	1.91	0.53
1:H:616:LEU:HD23	1:H:620:PHE:HB2	1.91	0.53
1:I:743:ILE:HG22	1:I:762:LYS:HA	1.91	0.53
1:K:388:LEU:CB	1:K:446:HIS:CE1	2.91	0.53
1:K:487:PHE:HD2	1:K:489:MET:HG3	1.72	0.53
1:L:388:LEU:CB	1:L:446:HIS:CE1	2.91	0.53
1:M:156:GLY:HA2	2:M:1501:DTP:O1A	2.08	0.53
1:O:120:PHE:HE1	1:O:159:TRP:CE3	2.26	0.53
1:P:799:ASN:C	1:P:800:THR:HG23	2.29	0.53
1:A:1195:VAL:HG11	1:A:1241:PHE:HZ	1.73	0.53
1:D:508:TRP:CZ3	1:D:927:GLN:C	2.82	0.53
1:D:1182:GLU:O	1:D:1183:GLU:HG3	2.08	0.53
1:F:14:ASP:OD2	1:G:142:ARG:CZ	2.55	0.53
1:F:168:TYR:O	1:F:171:GLN:N	2.41	0.53
1:F:487:PHE:HD2	1:F:489:MET:HG3	1.72	0.53
1:J:508:TRP:CZ3	1:J:927:GLN:C	2.82	0.53
1:J:550:GLU:O	1:J:552:ASN:ND2	2.41	0.53
1:L:156:GLY:HA2	2:L:1501:DTP:O1A	2.08	0.53
1:L:168:TYR:O	1:L:171:GLN:N	2.41	0.53
1:L:487:PHE:HD2	1:L:489:MET:HG3	1.72	0.53
1:N:743:ILE:HG22	1:N:762:LYS:HA	1.91	0.53
1:N:1182:GLU:O	1:N:1183:GLU:HG3	2.08	0.53
1:N:1195:VAL:HG11	1:N:1241:PHE:HZ	1.73	0.53
1:O:368:MET:HA	1:O:390:TRP:HE1	1.73	0.53
1:O:394:ILE:HD12	1:O:395:LYS:HE3	1.91	0.53
1:A:508:TRP:CZ3	1:A:927:GLN:C	2.82	0.53
1:A:557:LYS:HZ2	1:A:1223:GLN:HG3	1.73	0.53
1:A:992:ARG:HH12	1:A:1029:GLU:HG2	1.74	0.53
1:B:550:GLU:O	1:B:552:ASN:ND2	2.41	0.53
1:D:487:PHE:HD2	1:D:489:MET:HG3	1.72	0.53
1:E:156:GLY:HA2	2:E:1501:DTP:O2A	2.08	0.53
1:E:389:ILE:CD1	1:E:446:HIS:CD2	2.91	0.53
1:E:550:GLU:O	1:E:552:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:616:LEU:HD23	1:E:620:PHE:HB2	1.91	0.53
1:F:188:SER:N	1:F:251:APK:O2P	2.31	0.53
1:F:394:ILE:HD12	1:F:395:LYS:HE3	1.91	0.53
1:F:604:ASN:HB3	1:F:929:VAL:HG12	1.90	0.53
1:F:799:ASN:C	1:F:800:THR:HG23	2.29	0.53
1:H:120:PHE:HE1	1:H:159:TRP:CE3	2.26	0.53
1:H:1195:VAL:HG11	1:H:1241:PHE:HZ	1.72	0.53
1:I:119:VAL:HA	1:I:159:TRP:CH2	2.43	0.53
1:I:120:PHE:CZ	1:I:162:LEU:HB2	2.43	0.53
1:I:799:ASN:C	1:I:800:THR:HG23	2.29	0.53
1:J:120:PHE:CZ	1:J:162:LEU:HB2	2.43	0.53
1:J:156:GLY:HA2	2:J:1501:DTP:O1A	2.08	0.53
1:J:389:ILE:CD1	1:J:446:HIS:CD2	2.91	0.53
1:K:511:SER:C	1:K:513:SER:N	2.61	0.53
1:K:1182:GLU:O	1:K:1183:GLU:HG3	2.08	0.53
1:L:386:LEU:HD12	1:L:420:ILE:HD13	1.90	0.53
1:L:508:TRP:CZ3	1:L:927:GLN:C	2.82	0.53
1:L:743:ILE:HG22	1:L:762:LYS:HA	1.91	0.53
1:M:508:TRP:CZ3	1:M:927:GLN:C	2.82	0.53
1:N:171:GLN:HE22	1:N:178:ILE:HD12	1.74	0.53
1:N:992:ARG:HH12	1:N:1029:GLU:HG2	1.74	0.53
1:O:992:ARG:HH12	1:O:1029:GLU:HG2	1.74	0.53
1:B:557:LYS:HZ2	1:B:1223:GLN:HG3	1.73	0.53
1:C:171:GLN:HE22	1:C:178:ILE:HD12	1.74	0.53
1:C:799:ASN:C	1:C:800:THR:HG23	2.29	0.53
1:D:604:ASN:HB3	1:D:929:VAL:HG12	1.90	0.53
1:D:616:LEU:HD23	1:D:620:PHE:HB2	1.91	0.53
1:D:631:LEU:HD22	1:D:680:LEU:HD22	1.91	0.53
1:E:106:TYR:O	1:E:109:GLN:N	2.41	0.53
1:E:120:PHE:CZ	1:E:162:LEU:HB2	2.43	0.53
1:G:487:PHE:HD2	1:G:489:MET:HG3	1.72	0.53
1:G:992:ARG:HH12	1:G:1029:GLU:HG2	1.74	0.53
1:H:992:ARG:HH12	1:H:1029:GLU:HG2	1.74	0.53
1:I:171:GLN:HE22	1:I:178:ILE:HD12	1.74	0.53
1:I:450:PRO:HG2	1:I:471:ILE:HD11	1.90	0.53
1:I:836:VAL:HG21	1:I:876:LEU:HD22	1.91	0.53
1:J:616:LEU:HD23	1:J:620:PHE:HB2	1.91	0.53
1:J:836:VAL:HG21	1:J:876:LEU:HD22	1.91	0.53
1:J:1086:LYS:O	1:J:1087:ILE:HG13	2.09	0.53
1:K:508:TRP:CZ3	1:K:927:GLN:C	2.82	0.53
1:K:604:ASN:HB3	1:K:929:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:616:LEU:HD23	1:K:620:PHE:HB2	1.91	0.53
1:M:550:GLU:O	1:M:552:ASN:ND2	2.41	0.53
1:M:604:ASN:HB3	1:M:929:VAL:HG12	1.90	0.53
1:O:1195:VAL:HG11	1:O:1241:PHE:HZ	1.73	0.53
1:P:616:LEU:HD23	1:P:620:PHE:HB2	1.91	0.53
1:P:992:ARG:HH12	1:P:1029:GLU:HG2	1.74	0.53
1:A:743:ILE:HG22	1:A:762:LYS:HA	1.91	0.52
1:E:394:ILE:HD12	1:E:395:LYS:HE3	1.91	0.52
1:E:836:VAL:HG21	1:E:876:LEU:HD22	1.91	0.52
1:E:1182:GLU:O	1:E:1183:GLU:HG3	2.08	0.52
1:G:616:LEU:HD23	1:G:620:PHE:HB2	1.91	0.52
1:I:394:ILE:HD12	1:I:395:LYS:HE3	1.91	0.52
1:I:604:ASN:HB3	1:I:929:VAL:HG12	1.90	0.52
1:J:394:ILE:HD12	1:J:395:LYS:HE3	1.91	0.52
1:J:1182:GLU:O	1:J:1183:GLU:HG3	2.08	0.52
1:K:631:LEU:HD22	1:K:680:LEU:HD22	1.91	0.52
1:L:188:SER:N	1:L:251:APK:O2P	2.31	0.52
1:M:992:ARG:HH12	1:M:1029:GLU:HG2	1.74	0.52
1:N:378:SER:H	1:N:422:ILE:HD13	1.62	0.52
1:N:508:TRP:CZ3	1:N:927:GLN:C	2.82	0.52
1:P:518:LEU:HD22	1:P:643:TYR:CE1	2.22	0.52
1:A:171:GLN:HE22	1:A:178:ILE:HD12	1.74	0.52
1:A:450:PRO:HG2	1:A:471:ILE:HD11	1.90	0.52
1:A:912:ASP:OD2	1:A:921:CYS:SG	2.68	0.52
1:B:992:ARG:HH12	1:B:1029:GLU:HG2	1.74	0.52
1:B:1195:VAL:HG11	1:B:1241:PHE:HZ	1.73	0.52
1:C:120:PHE:CZ	1:C:162:LEU:HB2	2.43	0.52
1:D:1086:LYS:O	1:D:1087:ILE:HG13	2.09	0.52
1:E:912:ASP:OD2	1:E:921:CYS:SG	2.68	0.52
1:E:1086:LYS:O	1:E:1087:ILE:HG13	2.09	0.52
1:F:389:ILE:CD1	1:F:446:HIS:CD2	2.91	0.52
1:F:625:LEU:HD22	1:F:629:GLN:HA	1.92	0.52
1:G:386:LEU:HD12	1:G:420:ILE:HD13	1.90	0.52
1:G:518:LEU:HD22	1:G:643:TYR:CE1	2.22	0.52
1:G:553:LEU:HB3	1:G:556:SER:HG	1.74	0.52
1:G:631:LEU:HD22	1:G:680:LEU:HD22	1.91	0.52
1:G:1182:GLU:O	1:G:1183:GLU:HG3	2.08	0.52
1:I:487:PHE:HD2	1:I:489:MET:HG3	1.72	0.52
1:J:106:TYR:O	1:J:109:GLN:N	2.41	0.52
1:J:912:ASP:OD2	1:J:921:CYS:SG	2.68	0.52
1:J:1177:TYR:CE2	1:K:916:LYS:CE	2.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:171:GLN:HE22	1:K:178:ILE:HD12	1.74	0.52
1:K:450:PRO:HG2	1:K:471:ILE:HD11	1.90	0.52
1:K:1086:LYS:O	1:K:1087:ILE:HG13	2.09	0.52
1:L:120:PHE:HZ	1:L:162:LEU:HB2	1.73	0.52
1:L:912:ASP:OD2	1:L:921:CYS:SG	2.68	0.52
1:M:557:LYS:HZ2	1:M:1223:GLN:HG3	1.73	0.52
1:N:912:ASP:OD2	1:N:921:CYS:SG	2.68	0.52
1:O:171:GLN:HE22	1:O:178:ILE:HD12	1.74	0.52
1:P:631:LEU:HD22	1:P:680:LEU:HD22	1.91	0.52
1:A:120:PHE:HZ	1:A:162:LEU:HB2	1.73	0.52
1:A:616:LEU:HD23	1:A:620:PHE:HB2	1.91	0.52
1:B:604:ASN:HB3	1:B:929:VAL:HG12	1.90	0.52
1:B:912:ASP:OD2	1:B:921:CYS:SG	2.68	0.52
1:D:346:CYS:O	1:D:350:THR:N	2.25	0.52
1:D:397:ASP:HA	1:D:400:VAL:HB	1.89	0.52
1:D:450:PRO:HG2	1:D:471:ILE:HD11	1.90	0.52
1:D:836:VAL:HG21	1:D:876:LEU:HD22	1.91	0.52
1:E:625:LEU:HD22	1:E:629:GLN:HA	1.92	0.52
1:F:183:LEU:HD11	1:F:256:PHE:HE2	1.75	0.52
1:F:450:PRO:HG2	1:F:471:ILE:HD11	1.90	0.52
1:F:836:VAL:HG21	1:F:876:LEU:HD22	1.91	0.52
1:F:1086:LYS:O	1:F:1087:ILE:HG13	2.09	0.52
1:G:397:ASP:O	1:G:401:VAL:N	2.28	0.52
1:H:171:GLN:HE22	1:H:178:ILE:HD12	1.74	0.52
1:I:912:ASP:OD2	1:I:921:CYS:SG	2.68	0.52
1:K:397:ASP:HA	1:K:400:VAL:HB	1.89	0.52
1:K:836:VAL:HG21	1:K:876:LEU:HD22	1.91	0.52
1:M:631:LEU:HD22	1:M:680:LEU:HD22	1.91	0.52
1:M:912:ASP:OD2	1:M:921:CYS:SG	2.68	0.52
1:O:743:ILE:HG22	1:O:762:LYS:HA	1.91	0.52
1:P:386:LEU:HD12	1:P:420:ILE:HD13	1.90	0.52
1:P:397:ASP:O	1:P:401:VAL:N	2.28	0.52
1:P:487:PHE:HD2	1:P:489:MET:HG3	1.72	0.52
1:C:120:PHE:HZ	1:C:162:LEU:HB2	1.73	0.52
1:C:1086:LYS:O	1:C:1087:ILE:HG13	2.09	0.52
1:D:130:PRO:HA	1:D:290:MET:HE1	1.91	0.52
1:E:631:LEU:HD22	1:E:680:LEU:HD22	1.91	0.52
1:E:799:ASN:C	1:E:800:THR:HG23	2.29	0.52
1:F:992:ARG:HH12	1:F:1029:GLU:HG2	1.74	0.52
1:G:120:PHE:HZ	1:G:162:LEU:HB2	1.73	0.52
1:H:743:ILE:HG22	1:H:762:LYS:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:183:LEU:HD11	1:I:256:PHE:HE2	1.75	0.52
1:I:625:LEU:HD22	1:I:629:GLN:HA	1.92	0.52
1:I:992:ARG:HH12	1:I:1029:GLU:HG2	1.74	0.52
1:I:1086:LYS:O	1:I:1087:ILE:HG13	2.09	0.52
1:J:36:PRO:O	1:J:39:ILE:HG22	2.10	0.52
1:J:625:LEU:HD22	1:J:629:GLN:HA	1.92	0.52
1:J:631:LEU:HD22	1:J:680:LEU:HD22	1.91	0.52
1:K:276:SER:OG	1:L:122:LYS:CG	2.57	0.52
1:L:36:PRO:O	1:L:39:ILE:HG22	2.10	0.52
1:L:346:CYS:O	1:L:350:THR:N	2.25	0.52
1:M:1195:VAL:HG11	1:M:1241:PHE:HZ	1.73	0.52
1:N:120:PHE:HZ	1:N:162:LEU:HB2	1.73	0.52
1:N:450:PRO:HG2	1:N:471:ILE:HD11	1.90	0.52
1:P:1182:GLU:O	1:P:1183:GLU:HG3	2.08	0.52
1:A:378:SER:H	1:A:422:ILE:HD13	1.62	0.52
1:A:394:ILE:HD12	1:A:395:LYS:HE3	1.91	0.52
1:B:631:LEU:HD22	1:B:680:LEU:HD22	1.91	0.52
1:C:14:ASP:OD2	1:D:142:ARG:CZ	2.57	0.52
1:C:36:PRO:O	1:C:39:ILE:HG22	2.10	0.52
1:C:122:LYS:HG3	1:D:276:SER:HB2	1.91	0.52
1:C:188:SER:N	1:C:251:APK:O2P	2.31	0.52
1:D:518:LEU:HD22	1:D:643:TYR:CE1	2.22	0.52
1:D:625:LEU:HD22	1:D:629:GLN:HA	1.92	0.52
1:E:36:PRO:O	1:E:39:ILE:HG22	2.10	0.52
1:F:912:ASP:OD2	1:F:921:CYS:SG	2.68	0.52
1:G:508:TRP:CZ3	1:G:927:GLN:C	2.82	0.52
1:H:508:TRP:CZ3	1:H:927:GLN:C	2.82	0.52
1:J:343:HIS:O	1:J:344:VAL:C	2.46	0.52
1:J:799:ASN:C	1:J:800:THR:HG23	2.29	0.52
1:K:625:LEU:HD22	1:K:629:GLN:HA	1.92	0.52
1:L:120:PHE:CZ	1:L:162:LEU:HB2	2.43	0.52
1:L:171:GLN:HE22	1:L:178:ILE:HD12	1.74	0.52
1:N:394:ILE:HD12	1:N:395:LYS:HE3	1.91	0.52
1:N:616:LEU:HD23	1:N:620:PHE:HB2	1.91	0.52
1:N:625:LEU:HD22	1:N:629:GLN:HA	1.92	0.52
1:P:162:LEU:O	1:P:165:CYS:N	2.43	0.52
1:A:625:LEU:HD22	1:A:629:GLN:HA	1.92	0.52
1:C:346:CYS:O	1:C:350:THR:N	2.25	0.52
1:D:171:GLN:HE22	1:D:178:ILE:HD12	1.74	0.52
1:D:992:ARG:HH12	1:D:1029:GLU:HG2	1.74	0.52
1:G:548:LYS:HZ2	1:G:601:GLN:H	1.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:743:ILE:HG22	1:G:762:LYS:HA	1.91	0.52
1:H:162:LEU:O	1:H:165:CYS:N	2.43	0.52
1:K:120:PHE:CZ	1:K:162:LEU:HB2	2.43	0.52
1:K:130:PRO:HA	1:K:290:MET:HE1	1.91	0.52
1:K:346:CYS:O	1:K:350:THR:N	2.25	0.52
1:L:450:PRO:HG2	1:L:471:ILE:HD11	1.91	0.52
1:N:518:LEU:HD12	1:N:518:LEU:N	2.20	0.52
1:O:162:LEU:O	1:O:165:CYS:N	2.43	0.52
1:O:375:PHE:CD2	1:O:381:ILE:HG12	2.45	0.52
1:O:508:TRP:CZ3	1:O:927:GLN:C	2.82	0.52
1:A:183:LEU:HD11	1:A:256:PHE:HE2	1.75	0.52
1:A:799:ASN:C	1:A:800:THR:HG23	2.29	0.52
1:A:836:VAL:HG21	1:A:876:LEU:HD22	1.91	0.52
1:B:616:LEU:HD23	1:B:620:PHE:HB2	1.91	0.52
1:B:631:LEU:H	1:B:646:ARG:HB3	1.74	0.52
1:C:450:PRO:HG2	1:C:471:ILE:HD11	1.91	0.52
1:C:631:LEU:H	1:C:646:ARG:HB3	1.74	0.52
1:C:992:ARG:HH12	1:C:1029:GLU:HG2	1.74	0.52
1:D:120:PHE:CZ	1:D:162:LEU:HB2	2.43	0.52
1:D:799:ASN:C	1:D:800:THR:HG23	2.29	0.52
1:D:912:ASP:OD2	1:D:921:CYS:SG	2.68	0.52
1:E:343:HIS:O	1:E:344:VAL:C	2.46	0.52
1:E:511:SER:C	1:E:513:SER:N	2.60	0.52
1:E:553:LEU:HB3	1:E:556:SER:HG	1.75	0.52
1:F:883:ILE:HA	1:F:898:VAL:HB	1.92	0.52
1:G:162:LEU:O	1:G:165:CYS:N	2.43	0.52
1:G:1086:LYS:O	1:G:1087:ILE:HG13	2.09	0.52
1:H:343:HIS:O	1:H:344:VAL:C	2.46	0.52
1:H:375:PHE:CD2	1:H:381:ILE:HG12	2.45	0.52
1:H:631:LEU:H	1:H:646:ARG:HB3	1.74	0.52
1:I:389:ILE:CD1	1:I:446:HIS:CD2	2.91	0.52
1:I:883:ILE:HA	1:I:898:VAL:HB	1.92	0.52
1:J:183:LEU:HD11	1:J:256:PHE:HE2	1.75	0.52
1:J:604:ASN:HB3	1:J:929:VAL:HG12	1.90	0.52
1:K:36:PRO:O	1:K:39:ILE:HG22	2.10	0.52
1:K:375:PHE:CD2	1:K:381:ILE:HG12	2.45	0.52
1:K:992:ARG:HH12	1:K:1029:GLU:HG2	1.74	0.52
1:L:1086:LYS:O	1:L:1087:ILE:HG13	2.09	0.52
1:N:183:LEU:HD11	1:N:256:PHE:HE2	1.75	0.52
1:N:799:ASN:C	1:N:800:THR:HG23	2.29	0.52
1:O:63:TRP:CZ3	1:O:126:SER:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:343:HIS:O	1:O:344:VAL:C	2.46	0.52
1:O:631:LEU:H	1:O:646:ARG:HB3	1.74	0.52
1:P:120:PHE:HZ	1:P:162:LEU:HB2	1.73	0.52
1:P:508:TRP:CZ3	1:P:927:GLN:C	2.82	0.52
1:P:548:LYS:HZ2	1:P:601:GLN:H	1.54	0.52
1:P:743:ILE:HG22	1:P:762:LYS:HA	1.91	0.52
1:P:1086:LYS:O	1:P:1087:ILE:HG13	2.09	0.52
1:A:373:SER:HB3	1:A:433:LEU:CG	2.40	0.52
1:A:518:LEU:HD12	1:A:518:LEU:N	2.20	0.52
1:C:394:ILE:HD12	1:C:395:LYS:HE3	1.91	0.52
1:D:36:PRO:O	1:D:39:ILE:HG22	2.10	0.52
1:D:375:PHE:CD2	1:D:381:ILE:HG12	2.45	0.52
1:E:183:LEU:HD11	1:E:256:PHE:HE2	1.75	0.52
1:E:450:PRO:HG2	1:E:471:ILE:HD11	1.90	0.52
1:E:604:ASN:HB3	1:E:929:VAL:HG12	1.90	0.52
1:F:162:LEU:O	1:F:165:CYS:N	2.43	0.52
1:F:343:HIS:O	1:F:344:VAL:C	2.46	0.52
1:F:375:PHE:CD2	1:F:381:ILE:HG12	2.45	0.52
1:H:912:ASP:OD2	1:H:921:CYS:SG	2.68	0.52
1:I:162:LEU:O	1:I:165:CYS:N	2.43	0.52
1:I:188:SER:N	1:I:251:APK:O2P	2.31	0.52
1:J:375:PHE:CD2	1:J:381:ILE:HG12	2.45	0.52
1:J:553:LEU:HB3	1:J:556:SER:HG	1.75	0.52
1:K:518:LEU:HD22	1:K:643:TYR:CE1	2.22	0.52
1:K:799:ASN:C	1:K:800:THR:HG23	2.29	0.52
1:K:912:ASP:OD2	1:K:921:CYS:SG	2.68	0.52
1:L:248:GLN:CD	1:L:268:PHE:CE2	2.74	0.52
1:L:373:SER:HB3	1:L:433:LEU:CG	2.40	0.52
1:L:375:PHE:CD2	1:L:381:ILE:HG12	2.45	0.52
1:L:616:LEU:HD23	1:L:620:PHE:HB2	1.91	0.52
1:L:992:ARG:HH12	1:L:1029:GLU:HG2	1.74	0.52
1:N:162:LEU:O	1:N:165:CYS:N	2.43	0.52
1:N:373:SER:HB3	1:N:433:LEU:CG	2.40	0.52
1:N:836:VAL:HG21	1:N:876:LEU:HD22	1.91	0.52
1:O:912:ASP:OD2	1:O:921:CYS:SG	2.68	0.52
1:P:368:MET:HA	1:P:390:TRP:HE1	1.73	0.52
1:A:162:LEU:O	1:A:165:CYS:N	2.43	0.52
1:A:467:PHE:HD1	1:A:471:ILE:HD12	1.75	0.52
1:B:36:PRO:O	1:B:39:ILE:HG22	2.10	0.52
1:B:1086:LYS:O	1:B:1087:ILE:HG13	2.09	0.52
1:C:162:LEU:O	1:C:165:CYS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:373:SER:HB3	1:C:433:LEU:CG	2.40	0.52
1:C:467:PHE:HD1	1:C:471:ILE:HD12	1.75	0.52
1:D:394:ILE:HD12	1:D:395:LYS:HE3	1.91	0.52
1:E:63:TRP:CZ3	1:E:126:SER:HB2	2.45	0.52
1:E:375:PHE:CD2	1:E:381:ILE:HG12	2.45	0.52
1:E:992:ARG:HH12	1:E:1029:GLU:HG2	1.74	0.52
1:F:36:PRO:O	1:F:39:ILE:HG22	2.10	0.52
1:F:508:TRP:CZ3	1:F:927:GLN:C	2.82	0.52
1:G:36:PRO:O	1:G:39:ILE:HG22	2.10	0.52
1:G:343:HIS:O	1:G:344:VAL:C	2.46	0.52
1:H:63:TRP:CZ3	1:H:126:SER:HB2	2.45	0.52
1:J:450:PRO:HG2	1:J:471:ILE:HD11	1.91	0.52
1:J:992:ARG:HH12	1:J:1029:GLU:HG2	1.74	0.52
1:K:394:ILE:HD12	1:K:395:LYS:HE3	1.91	0.52
1:K:883:ILE:HA	1:K:898:VAL:HB	1.92	0.52
1:L:799:ASN:C	1:L:800:THR:HG23	2.29	0.52
1:M:36:PRO:O	1:M:39:ILE:HG22	2.10	0.52
1:M:631:LEU:H	1:M:646:ARG:HB3	1.74	0.52
1:M:1086:LYS:O	1:M:1087:ILE:HG13	2.09	0.52
1:N:467:PHE:HD1	1:N:471:ILE:HD12	1.75	0.52
1:N:1086:LYS:O	1:N:1087:ILE:HG13	2.09	0.52
1:P:36:PRO:O	1:P:39:ILE:HG22	2.10	0.52
1:P:553:LEU:HB3	1:P:556:SER:HG	1.74	0.52
1:P:836:VAL:HG21	1:P:876:LEU:HD22	1.91	0.52
1:B:492:LEU:HD11	1:B:561:LEU:CD2	2.40	0.52
1:C:375:PHE:CD2	1:C:381:ILE:HG12	2.45	0.52
1:C:557:LYS:HZ2	1:C:1223:GLN:HG3	1.74	0.52
1:C:604:ASN:HB3	1:C:929:VAL:HG12	1.90	0.52
1:E:373:SER:HB3	1:E:433:LEU:CG	2.40	0.52
1:G:625:LEU:HD22	1:G:629:GLN:HA	1.92	0.52
1:G:836:VAL:HG21	1:G:876:LEU:HD22	1.91	0.52
1:H:1086:LYS:O	1:H:1087:ILE:HG13	2.09	0.52
1:J:63:TRP:CZ3	1:J:126:SER:HB2	2.45	0.52
1:J:373:SER:HB3	1:J:433:LEU:CG	2.40	0.52
1:L:467:PHE:HD1	1:L:471:ILE:HD12	1.75	0.52
1:L:604:ASN:HB3	1:L:929:VAL:HG12	1.90	0.52
1:L:836:VAL:HG21	1:L:876:LEU:HD22	1.91	0.52
1:M:492:LEU:HD11	1:M:561:LEU:CD2	2.40	0.52
1:M:616:LEU:HD23	1:M:620:PHE:HB2	1.91	0.52
1:N:386:LEU:HD21	1:N:390:TRP:HZ3	1.75	0.52
1:N:661:ASN:OD1	1:N:662:GLN:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:661:ASN:OD1	1:O:662:GLN:N	2.44	0.52
1:O:1086:LYS:O	1:O:1087:ILE:HG13	2.09	0.52
1:P:373:SER:HB3	1:P:433:LEU:CG	2.40	0.52
1:P:625:LEU:HD22	1:P:629:GLN:HA	1.92	0.52
1:A:386:LEU:HD21	1:A:390:TRP:HZ3	1.76	0.51
1:A:661:ASN:OD1	1:A:662:GLN:N	2.44	0.51
1:A:1086:LYS:O	1:A:1087:ILE:HG13	2.09	0.51
1:B:554:ILE:C	1:B:556:SER:H	2.13	0.51
1:C:492:LEU:HD11	1:C:561:LEU:CD2	2.40	0.51
1:C:616:LEU:HD23	1:C:620:PHE:HB2	1.91	0.51
1:D:386:LEU:HD21	1:D:390:TRP:HZ3	1.75	0.51
1:D:883:ILE:HA	1:D:898:VAL:HB	1.92	0.51
1:G:368:MET:HA	1:G:390:TRP:HE1	1.73	0.51
1:G:373:SER:HB3	1:G:433:LEU:CG	2.40	0.51
1:G:661:ASN:OD1	1:G:662:GLN:N	2.44	0.51
1:G:912:ASP:OD2	1:G:921:CYS:SG	2.68	0.51
1:H:36:PRO:O	1:H:39:ILE:HG22	2.10	0.51
1:H:631:LEU:HD22	1:H:680:LEU:HD22	1.91	0.51
1:H:661:ASN:OD1	1:H:662:GLN:N	2.44	0.51
1:I:36:PRO:O	1:I:39:ILE:HG22	2.10	0.51
1:I:373:SER:HB3	1:I:433:LEU:CG	2.40	0.51
1:I:375:PHE:CD2	1:I:381:ILE:HG12	2.45	0.51
1:I:508:TRP:CZ3	1:I:927:GLN:C	2.82	0.51
1:J:511:SER:C	1:J:513:SER:N	2.60	0.51
1:K:386:LEU:HD21	1:K:390:TRP:HZ3	1.76	0.51
1:L:162:LEU:O	1:L:165:CYS:N	2.43	0.51
1:L:394:ILE:HD12	1:L:395:LYS:HE3	1.91	0.51
1:M:63:TRP:CZ3	1:M:126:SER:HB2	2.45	0.51
1:M:554:ILE:C	1:M:556:SER:H	2.13	0.51
1:O:36:PRO:O	1:O:39:ILE:HG22	2.10	0.51
1:O:365:TYR:O	1:O:368:MET:N	2.21	0.51
1:P:343:HIS:O	1:P:344:VAL:C	2.46	0.51
1:P:661:ASN:OD1	1:P:662:GLN:N	2.43	0.51
1:P:912:ASP:OD2	1:P:921:CYS:SG	2.68	0.51
1:A:557:LYS:CB	1:A:1226:TYR:CE1	2.87	0.51
1:B:488:ARG:HA	1:B:491:PHE:H	1.75	0.51
1:B:625:LEU:HD22	1:B:629:GLN:HA	1.92	0.51
1:B:661:ASN:OD1	1:B:662:GLN:N	2.44	0.51
1:B:994:HIS:HE1	1:B:1023:ILE:HG23	1.75	0.51
1:C:115:ASN:HB3	1:D:257:ASN:HD21	1.75	0.51
1:C:488:ARG:HA	1:C:491:PHE:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:286:ASP:OD1	1:D:287:HIS:N	2.44	0.51
1:D:661:ASN:OD1	1:D:662:GLN:N	2.43	0.51
1:D:994:HIS:HE1	1:D:1023:ILE:HG23	1.75	0.51
1:F:373:SER:HB3	1:F:433:LEU:CG	2.40	0.51
1:F:480:HIS:HB2	1:F:481:PRO:HD3	1.92	0.51
1:G:479:GLU:HB3	1:G:482:GLU:HB3	1.92	0.51
1:H:553:LEU:HB3	1:H:556:SER:HG	1.75	0.51
1:H:836:VAL:HG21	1:H:876:LEU:HD22	1.91	0.51
1:I:63:TRP:CZ3	1:I:126:SER:HB2	2.45	0.51
1:I:557:LYS:CB	1:I:1226:TYR:CE1	2.87	0.51
1:I:994:HIS:HE1	1:I:1023:ILE:HG23	1.75	0.51
1:K:661:ASN:OD1	1:K:662:GLN:N	2.44	0.51
1:L:554:ILE:C	1:L:556:SER:H	2.13	0.51
1:M:373:SER:HB3	1:M:433:LEU:CG	2.40	0.51
1:M:625:LEU:HD22	1:M:629:GLN:HA	1.92	0.51
1:M:661:ASN:OD1	1:M:662:GLN:N	2.43	0.51
1:N:631:LEU:H	1:N:646:ARG:HB3	1.74	0.51
1:O:120:PHE:HZ	1:O:162:LEU:HB2	1.73	0.51
1:O:631:LEU:HD22	1:O:680:LEU:HD22	1.91	0.51
1:O:836:VAL:HG21	1:O:876:LEU:HD22	1.91	0.51
1:B:63:TRP:CZ3	1:B:126:SER:HB2	2.45	0.51
1:B:375:PHE:CD2	1:B:381:ILE:HG12	2.45	0.51
1:C:479:GLU:HB3	1:C:482:GLU:HB3	1.92	0.51
1:C:625:LEU:HD22	1:C:629:GLN:HA	1.92	0.51
1:E:631:LEU:H	1:E:646:ARG:HB3	1.74	0.51
1:E:994:HIS:HE1	1:E:1023:ILE:HG23	1.75	0.51
1:F:63:TRP:CZ3	1:F:126:SER:HB2	2.45	0.51
1:F:368:MET:HA	1:F:390:TRP:HE1	1.73	0.51
1:G:431:VAL:HB	1:G:432:LYS:HB2	1.93	0.51
1:H:183:LEU:HD11	1:H:256:PHE:HE2	1.75	0.51
1:I:368:MET:HA	1:I:390:TRP:HE1	1.73	0.51
1:I:631:LEU:H	1:I:646:ARG:HB3	1.74	0.51
1:K:286:ASP:OD1	1:K:287:HIS:N	2.44	0.51
1:K:386:LEU:HD12	1:K:420:ILE:HD13	1.90	0.51
1:K:743:ILE:HG22	1:K:762:LYS:HA	1.91	0.51
1:K:994:HIS:HE1	1:K:1023:ILE:HG23	1.76	0.51
1:L:63:TRP:CZ3	1:L:126:SER:HB2	2.45	0.51
1:L:492:LEU:HD11	1:L:561:LEU:CD2	2.40	0.51
1:L:625:LEU:HD22	1:L:629:GLN:HA	1.92	0.51
1:L:631:LEU:H	1:L:646:ARG:HB3	1.74	0.51
1:M:375:PHE:CD2	1:M:381:ILE:HG12	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:450:PRO:HG2	1:M:471:ILE:HD11	1.90	0.51
1:M:488:ARG:HA	1:M:491:PHE:H	1.75	0.51
1:M:994:HIS:HE1	1:M:1023:ILE:HG23	1.75	0.51
1:N:36:PRO:O	1:N:39:ILE:HG22	2.10	0.51
1:O:183:LEU:HD11	1:O:256:PHE:HE2	1.75	0.51
1:O:625:LEU:HD22	1:O:629:GLN:HA	1.92	0.51
1:P:375:PHE:CD2	1:P:381:ILE:HG12	2.45	0.51
1:P:431:VAL:HB	1:P:432:LYS:HB2	1.93	0.51
1:A:36:PRO:O	1:A:39:ILE:HG22	2.10	0.51
1:A:307:CYS:HB3	1:A:311:ASP:OD2	2.11	0.51
1:A:554:ILE:C	1:A:556:SER:H	2.13	0.51
1:A:631:LEU:H	1:A:646:ARG:HB3	1.74	0.51
1:A:994:HIS:HE1	1:A:1023:ILE:HG23	1.75	0.51
1:B:373:SER:HB3	1:B:433:LEU:CG	2.40	0.51
1:B:450:PRO:HG2	1:B:471:ILE:HD11	1.90	0.51
1:B:557:LYS:CB	1:B:1226:TYR:CE1	2.87	0.51
1:C:301:LEU:CD2	1:C:313:PRO:CG	2.87	0.51
1:C:554:ILE:C	1:C:556:SER:H	2.13	0.51
1:C:836:VAL:HG21	1:C:876:LEU:HD22	1.91	0.51
1:C:912:ASP:OD2	1:C:921:CYS:SG	2.68	0.51
1:D:386:LEU:HD12	1:D:420:ILE:HD13	1.90	0.51
1:E:661:ASN:OD1	1:E:662:GLN:N	2.44	0.51
1:F:631:LEU:H	1:F:646:ARG:HB3	1.74	0.51
1:G:307:CYS:HB3	1:G:311:ASP:OD2	2.11	0.51
1:G:375:PHE:CD2	1:G:381:ILE:HG12	2.45	0.51
1:H:120:PHE:HZ	1:H:162:LEU:HB2	1.73	0.51
1:H:480:HIS:HB2	1:H:481:PRO:HD3	1.93	0.51
1:H:625:LEU:HD22	1:H:629:GLN:HA	1.92	0.51
1:I:253:TRP:CH2	1:I:262:ILE:HD11	2.46	0.51
1:I:480:HIS:HB2	1:I:481:PRO:HD3	1.93	0.51
1:I:492:LEU:HD11	1:I:561:LEU:CD2	2.40	0.51
1:J:286:ASP:OD1	1:J:287:HIS:N	2.44	0.51
1:J:467:PHE:HD1	1:J:471:ILE:HD12	1.75	0.51
1:J:631:LEU:H	1:J:646:ARG:HB3	1.74	0.51
1:J:661:ASN:OD1	1:J:662:GLN:N	2.43	0.51
1:J:994:HIS:HE1	1:J:1023:ILE:HG23	1.75	0.51
1:M:557:LYS:CB	1:M:1226:TYR:CE1	2.87	0.51
1:N:554:ILE:C	1:N:556:SER:H	2.13	0.51
1:N:994:HIS:HE1	1:N:1023:ILE:HG23	1.75	0.51
1:O:480:HIS:HB2	1:O:481:PRO:HD3	1.93	0.51
1:O:638:GLU:OE1	1:O:640:GLU:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:307:CYS:HB3	1:P:311:ASP:OD2	2.11	0.51
1:A:248:GLN:CD	1:A:268:PHE:CE2	2.74	0.51
1:A:253:TRP:CH2	1:A:262:ILE:HD11	2.46	0.51
1:B:162:LEU:O	1:B:165:CYS:N	2.43	0.51
1:B:394:ILE:HD12	1:B:395:LYS:HE3	1.91	0.51
1:B:397:ASP:O	1:B:401:VAL:N	2.28	0.51
1:B:511:SER:C	1:B:513:SER:N	2.60	0.51
1:B:901:HIS:CG	1:B:902:ILE:H	2.29	0.51
1:C:63:TRP:CZ3	1:C:126:SER:HB2	2.45	0.51
1:C:307:CYS:HB3	1:C:311:ASP:OD2	2.11	0.51
1:D:183:LEU:HD11	1:D:256:PHE:HE2	1.75	0.51
1:D:373:SER:HB3	1:D:433:LEU:CG	2.40	0.51
1:D:551:GLU:HB3	1:D:605:LEU:O	2.11	0.51
1:D:743:ILE:HG22	1:D:762:LYS:HA	1.91	0.51
1:D:901:HIS:CG	1:D:902:ILE:H	2.29	0.51
1:E:286:ASP:OD1	1:E:287:HIS:N	2.44	0.51
1:F:467:PHE:HD1	1:F:471:ILE:HD12	1.75	0.51
1:F:492:LEU:HD11	1:F:561:LEU:CD2	2.40	0.51
1:G:901:HIS:CG	1:G:902:ILE:H	2.29	0.51
1:H:253:TRP:CH2	1:H:262:ILE:HD11	2.46	0.51
1:H:365:TYR:O	1:H:368:MET:N	2.21	0.51
1:H:638:GLU:OE1	1:H:640:GLU:N	2.42	0.51
1:I:467:PHE:HD1	1:I:471:ILE:HD12	1.75	0.51
1:I:901:HIS:CG	1:I:902:ILE:H	2.29	0.51
1:K:183:LEU:HD11	1:K:256:PHE:HE2	1.75	0.51
1:K:551:GLU:HB3	1:K:605:LEU:O	2.11	0.51
1:K:901:HIS:CG	1:K:902:ILE:H	2.29	0.51
1:L:307:CYS:HB3	1:L:311:ASP:OD2	2.11	0.51
1:M:162:LEU:O	1:M:165:CYS:N	2.43	0.51
1:M:463:LEU:HD22	1:M:467:PHE:HD2	1.74	0.51
1:M:901:HIS:CG	1:M:902:ILE:H	2.29	0.51
1:N:253:TRP:CH2	1:N:262:ILE:HD11	2.46	0.51
1:N:307:CYS:HB3	1:N:311:ASP:OD2	2.11	0.51
1:O:253:TRP:CH2	1:O:262:ILE:HD11	2.46	0.51
1:P:479:GLU:HB3	1:P:482:GLU:HB3	1.92	0.51
1:A:883:ILE:HA	1:A:898:VAL:HB	1.92	0.51
1:B:120:PHE:HZ	1:B:162:LEU:HB2	1.73	0.51
1:B:463:LEU:HD22	1:B:467:PHE:HD2	1.74	0.51
1:B:836:VAL:HG21	1:B:876:LEU:HD22	1.91	0.51
1:B:883:ILE:HA	1:B:898:VAL:HB	1.92	0.51
1:C:286:ASP:OD1	1:C:287:HIS:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:162:LEU:O	1:E:165:CYS:N	2.43	0.51
1:E:467:PHE:HD1	1:E:471:ILE:HD12	1.75	0.51
1:F:253:TRP:CH2	1:F:262:ILE:HD11	2.46	0.51
1:F:386:LEU:HD21	1:F:390:TRP:HZ3	1.75	0.51
1:F:458:LEU:CG	1:F:587:ARG:NH2	2.74	0.51
1:F:557:LYS:CB	1:F:1226:TYR:CE1	2.87	0.51
1:F:616:LEU:HD23	1:F:620:PHE:HB2	1.91	0.51
1:F:901:HIS:CG	1:F:902:ILE:H	2.29	0.51
1:F:916:LYS:HE3	1:G:1177:TYR:CE2	2.42	0.51
1:G:63:TRP:CZ3	1:G:126:SER:HB2	2.45	0.51
1:G:541:ALA:O	1:G:544:ASP:N	2.30	0.51
1:G:631:LEU:H	1:G:646:ARG:HB3	1.74	0.51
1:G:638:GLU:OE1	1:G:640:GLU:N	2.42	0.51
1:H:463:LEU:HD22	1:H:467:PHE:HD2	1.74	0.51
1:I:551:GLU:HB3	1:I:605:LEU:O	2.11	0.51
1:J:162:LEU:O	1:J:165:CYS:N	2.43	0.51
1:K:222:HIS:CD2	1:L:198:LYS:HZ1	2.27	0.51
1:K:431:VAL:HB	1:K:432:LYS:HB2	1.93	0.51
1:L:386:LEU:HD21	1:L:390:TRP:HZ3	1.75	0.51
1:L:463:LEU:CD2	1:L:467:PHE:CD2	2.92	0.51
1:L:488:ARG:HA	1:L:491:PHE:H	1.75	0.51
1:M:394:ILE:HD12	1:M:395:LYS:HE3	1.91	0.51
1:N:557:LYS:CB	1:N:1226:TYR:CE1	2.87	0.51
1:O:463:LEU:HD22	1:O:467:PHE:HD2	1.74	0.51
1:P:467:PHE:HD1	1:P:471:ILE:HD12	1.75	0.51
1:P:541:ALA:O	1:P:544:ASP:N	2.30	0.51
1:P:638:GLU:OE1	1:P:640:GLU:N	2.42	0.51
1:P:901:HIS:CG	1:P:902:ILE:H	2.29	0.51
1:B:183:LEU:HD11	1:B:256:PHE:HE2	1.75	0.51
1:D:63:TRP:CZ3	1:D:126:SER:HB2	2.45	0.51
1:D:187:ASN:HA	1:D:249:ASN:ND2	2.23	0.51
1:E:479:GLU:HB3	1:E:482:GLU:HB3	1.92	0.51
1:F:551:GLU:HB3	1:F:605:LEU:O	2.11	0.51
1:F:994:HIS:HE1	1:F:1023:ILE:HG23	1.75	0.51
1:G:253:TRP:CH2	1:G:262:ILE:HD11	2.46	0.51
1:G:467:PHE:HD1	1:G:471:ILE:HD12	1.76	0.51
1:H:64:THR:O	1:H:67:SER:OG	2.27	0.51
1:H:994:HIS:HE1	1:H:1023:ILE:HG23	1.75	0.51
1:I:386:LEU:HD21	1:I:390:TRP:HZ3	1.76	0.51
1:I:431:VAL:HB	1:I:432:LYS:HB2	1.93	0.51
1:I:458:LEU:CG	1:I:587:ARG:NH2	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:313:PRO:HA	1:J:338:TRP:HH2	1.63	0.51
1:J:479:GLU:HB3	1:J:482:GLU:HB3	1.92	0.51
1:K:63:TRP:CZ3	1:K:126:SER:HB2	2.45	0.51
1:K:187:ASN:HA	1:K:249:ASN:ND2	2.23	0.51
1:K:373:SER:HB3	1:K:433:LEU:CG	2.40	0.51
1:L:286:ASP:OD1	1:L:287:HIS:N	2.44	0.51
1:L:479:GLU:HB3	1:L:482:GLU:HB3	1.92	0.51
1:L:661:ASN:OD1	1:L:662:GLN:N	2.44	0.51
1:M:120:PHE:HZ	1:M:162:LEU:HB2	1.73	0.51
1:M:183:LEU:HD11	1:M:256:PHE:HE2	1.75	0.51
1:M:286:ASP:OD1	1:M:287:HIS:N	2.44	0.51
1:M:397:ASP:O	1:M:401:VAL:N	2.28	0.51
1:M:883:ILE:HA	1:M:898:VAL:HB	1.92	0.51
1:N:231:LEU:O	1:N:234:SER:OG	2.26	0.51
1:N:883:ILE:HA	1:N:898:VAL:HB	1.92	0.51
1:O:553:LEU:HB3	1:O:556:SER:HG	1.76	0.51
1:P:63:TRP:CZ3	1:P:126:SER:HB2	2.45	0.51
1:P:253:TRP:CH2	1:P:262:ILE:HD11	2.46	0.51
1:P:631:LEU:H	1:P:646:ARG:HB3	1.74	0.51
1:A:231:LEU:O	1:A:234:SER:OG	2.26	0.51
1:A:551:GLU:HB3	1:A:605:LEU:O	2.11	0.51
1:A:631:LEU:HD22	1:A:680:LEU:HD22	1.91	0.51
1:B:286:ASP:OD1	1:B:287:HIS:N	2.44	0.51
1:C:386:LEU:HD21	1:C:390:TRP:HZ3	1.76	0.51
1:D:91:PRO:O	1:D:94:THR:OG1	2.21	0.51
1:D:122:LYS:HG3	1:E:276:SER:OG	2.11	0.51
1:D:162:LEU:O	1:D:165:CYS:N	2.43	0.51
1:D:431:VAL:HB	1:D:432:LYS:HB2	1.93	0.51
1:D:467:PHE:HD1	1:D:471:ILE:HD12	1.75	0.51
1:D:916:LYS:HE2	1:E:1177:TYR:CE2	2.43	0.51
1:F:248:GLN:NE2	1:F:268:PHE:CZ	2.79	0.51
1:G:183:LEU:HD11	1:G:256:PHE:HE2	1.75	0.51
1:G:386:LEU:HD21	1:G:390:TRP:HZ3	1.76	0.51
1:H:554:ILE:C	1:H:556:SER:H	2.13	0.51
1:I:286:ASP:OD1	1:I:287:HIS:N	2.44	0.51
1:I:661:ASN:OD1	1:I:662:GLN:N	2.43	0.51
1:J:64:THR:O	1:J:67:SER:OG	2.27	0.51
1:K:162:LEU:O	1:K:165:CYS:N	2.43	0.51
1:K:554:ILE:C	1:K:556:SER:H	2.13	0.51
1:M:253:TRP:CH2	1:M:262:ILE:HD11	2.46	0.51
1:M:511:SER:C	1:M:513:SER:N	2.60	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:836:VAL:HG21	1:M:876:LEU:HD22	1.91	0.51
1:N:551:GLU:HB3	1:N:605:LEU:O	2.11	0.51
1:N:631:LEU:HD22	1:N:680:LEU:HD22	1.91	0.51
1:O:554:ILE:C	1:O:556:SER:H	2.13	0.51
1:O:994:HIS:HE1	1:O:1023:ILE:HG23	1.75	0.51
1:A:375:PHE:CD2	1:A:381:ILE:HG12	2.45	0.51
1:C:661:ASN:OD1	1:C:662:GLN:N	2.44	0.51
1:D:488:ARG:HA	1:D:491:PHE:H	1.75	0.51
1:E:307:CYS:HB3	1:E:311:ASP:OD2	2.11	0.51
1:E:431:VAL:HB	1:E:432:LYS:HB2	1.93	0.51
1:G:248:GLN:NE2	1:G:268:PHE:CZ	2.79	0.51
1:H:551:GLU:HB3	1:H:605:LEU:O	2.11	0.51
1:I:248:GLN:NE2	1:I:268:PHE:CZ	2.79	0.51
1:K:91:PRO:O	1:K:94:THR:OG1	2.22	0.51
1:K:488:ARG:HA	1:K:491:PHE:H	1.75	0.51
1:L:994:HIS:HE1	1:L:1023:ILE:HG23	1.75	0.51
1:N:375:PHE:CD2	1:N:381:ILE:HG12	2.45	0.51
1:O:467:PHE:HD1	1:O:471:ILE:HD12	1.75	0.51
1:O:551:GLU:HB3	1:O:605:LEU:O	2.11	0.51
1:P:183:LEU:HD11	1:P:256:PHE:HE2	1.75	0.51
1:P:386:LEU:HD21	1:P:390:TRP:HZ3	1.76	0.51
1:B:253:TRP:CH2	1:B:262:ILE:HD11	2.46	0.51
1:B:479:GLU:HB3	1:B:482:GLU:HB3	1.92	0.51
1:C:463:LEU:CD2	1:C:467:PHE:CD2	2.92	0.51
1:C:994:HIS:HE1	1:C:1023:ILE:HG23	1.75	0.51
1:E:346:CYS:O	1:E:350:THR:N	2.25	0.51
1:E:551:GLU:HB3	1:E:605:LEU:O	2.11	0.51
1:E:883:ILE:HA	1:E:898:VAL:HB	1.92	0.51
1:F:286:ASP:OD1	1:F:287:HIS:N	2.44	0.51
1:F:431:VAL:HB	1:F:432:LYS:HB2	1.93	0.51
1:F:518:LEU:HD22	1:F:643:TYR:CE1	2.22	0.51
1:F:661:ASN:OD1	1:F:662:GLN:N	2.44	0.51
1:F:901:HIS:CD2	1:F:902:ILE:H	2.29	0.51
1:G:492:LEU:HD11	1:G:561:LEU:CD2	2.40	0.51
1:H:705:PHE:HB3	1:H:706:ILE:HD12	1.93	0.51
1:I:479:GLU:HB3	1:I:482:GLU:HB3	1.92	0.51
1:I:616:LEU:HD23	1:I:620:PHE:HB2	1.91	0.51
1:I:901:HIS:CD2	1:I:902:ILE:H	2.29	0.51
1:J:307:CYS:HB3	1:J:311:ASP:OD2	2.11	0.51
1:J:386:LEU:HD21	1:J:390:TRP:HZ3	1.75	0.51
1:J:431:VAL:HB	1:J:432:LYS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:539:VAL:O	1:J:543:LEU:HG	2.11	0.51
1:J:551:GLU:HB3	1:J:605:LEU:O	2.11	0.51
1:K:467:PHE:HD1	1:K:471:ILE:HD12	1.75	0.51
1:M:479:GLU:HB3	1:M:482:GLU:HB3	1.92	0.51
1:N:286:ASP:OD1	1:N:287:HIS:N	2.44	0.51
1:O:386:LEU:HD21	1:O:390:TRP:HZ3	1.75	0.51
1:P:187:ASN:HA	1:P:249:ASN:ND2	2.23	0.51
1:P:248:GLN:NE2	1:P:268:PHE:CZ	2.79	0.51
1:P:492:LEU:HD11	1:P:561:LEU:CD2	2.40	0.51
1:A:63:TRP:CZ3	1:A:126:SER:HB2	2.45	0.50
1:A:480:HIS:HB2	1:A:481:PRO:HD3	1.93	0.50
1:A:539:VAL:O	1:A:543:LEU:HG	2.12	0.50
1:B:301:LEU:CD2	1:B:313:PRO:CG	2.87	0.50
1:B:307:CYS:HB3	1:B:311:ASP:OD2	2.11	0.50
1:C:183:LEU:HD11	1:C:256:PHE:HE2	1.75	0.50
1:D:554:ILE:C	1:D:556:SER:H	2.13	0.50
1:E:248:GLN:NE2	1:E:268:PHE:CZ	2.79	0.50
1:E:386:LEU:HD21	1:E:390:TRP:HZ3	1.76	0.50
1:E:539:VAL:O	1:E:543:LEU:HG	2.12	0.50
1:F:539:VAL:O	1:F:543:LEU:HG	2.12	0.50
1:G:187:ASN:HA	1:G:249:ASN:ND2	2.23	0.50
1:H:286:ASP:OD1	1:H:287:HIS:N	2.44	0.50
1:H:488:ARG:HA	1:H:491:PHE:H	1.75	0.50
1:H:883:ILE:HA	1:H:898:VAL:HB	1.92	0.50
1:I:378:SER:H	1:I:422:ILE:HD13	1.62	0.50
1:I:539:VAL:O	1:I:543:LEU:HG	2.11	0.50
1:L:183:LEU:HD11	1:L:256:PHE:HE2	1.75	0.50
1:N:539:VAL:O	1:N:543:LEU:HG	2.11	0.50
1:O:479:GLU:HB3	1:O:482:GLU:HB3	1.92	0.50
1:O:488:ARG:HA	1:O:491:PHE:H	1.75	0.50
1:O:705:PHE:HB3	1:O:706:ILE:HD12	1.93	0.50
1:O:883:ILE:HA	1:O:898:VAL:HB	1.92	0.50
1:P:152:VAL:O	1:P:155:SER:OG	2.29	0.50
1:P:921:CYS:HA	1:P:930:HIS:O	2.11	0.50
1:P:994:HIS:HE1	1:P:1023:ILE:HG23	1.75	0.50
1:A:286:ASP:OD1	1:A:287:HIS:N	2.44	0.50
1:A:479:GLU:HB3	1:A:482:GLU:HB3	1.92	0.50
1:B:386:LEU:HD21	1:B:390:TRP:HZ3	1.75	0.50
1:D:458:LEU:CG	1:D:587:ARG:NH2	2.74	0.50
1:D:479:GLU:HB3	1:D:482:GLU:HB3	1.92	0.50
1:D:631:LEU:H	1:D:646:ARG:HB3	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:14:ASP:OD2	1:F:142:ARG:NH1	2.44	0.50
1:E:488:ARG:HA	1:E:491:PHE:H	1.75	0.50
1:F:554:ILE:C	1:F:556:SER:H	2.13	0.50
1:F:705:PHE:HB3	1:F:706:ILE:HD12	1.94	0.50
1:G:317:LEU:C	1:G:318:THR:HG1	1.96	0.50
1:G:994:HIS:HE1	1:G:1023:ILE:HG23	1.75	0.50
1:H:386:LEU:HD21	1:H:390:TRP:HZ3	1.75	0.50
1:H:467:PHE:HD1	1:H:471:ILE:HD12	1.75	0.50
1:H:539:VAL:O	1:H:543:LEU:HG	2.11	0.50
1:H:901:HIS:CG	1:H:902:ILE:H	2.29	0.50
1:I:488:ARG:HA	1:I:491:PHE:H	1.75	0.50
1:J:248:GLN:NE2	1:J:268:PHE:CZ	2.79	0.50
1:J:488:ARG:HA	1:J:491:PHE:H	1.75	0.50
1:J:538:LEU:HD12	1:J:571:GLU:HG2	1.94	0.50
1:K:307:CYS:HB3	1:K:311:ASP:OD2	2.11	0.50
1:K:631:LEU:H	1:K:646:ARG:HB3	1.74	0.50
1:K:921:CYS:HA	1:K:930:HIS:O	2.11	0.50
1:L:253:TRP:CH2	1:L:262:ILE:HD11	2.46	0.50
1:M:301:LEU:CD2	1:M:313:PRO:CG	2.87	0.50
1:M:307:CYS:HB3	1:M:311:ASP:OD2	2.11	0.50
1:N:63:TRP:CZ3	1:N:126:SER:HB2	2.45	0.50
1:N:479:GLU:HB3	1:N:482:GLU:HB3	1.92	0.50
1:O:130:PRO:HA	1:O:290:MET:HE3	1.92	0.50
1:O:286:ASP:OD1	1:O:287:HIS:N	2.44	0.50
1:O:1058:ILE:HG13	1:O:1059:ASP:N	2.27	0.50
1:P:554:ILE:C	1:P:556:SER:H	2.13	0.50
1:A:99:PRO:HB2	1:A:104:ARG:HG3	1.93	0.50
1:C:463:LEU:HD22	1:C:467:PHE:HD2	1.74	0.50
1:D:253:TRP:CH2	1:D:262:ILE:HD11	2.46	0.50
1:D:307:CYS:HB3	1:D:311:ASP:OD2	2.11	0.50
1:E:313:PRO:HA	1:E:338:TRP:HH2	1.63	0.50
1:E:538:LEU:HD12	1:E:571:GLU:HG2	1.94	0.50
1:E:554:ILE:C	1:E:556:SER:H	2.13	0.50
1:F:488:ARG:HA	1:F:491:PHE:H	1.75	0.50
1:G:554:ILE:C	1:G:556:SER:H	2.13	0.50
1:G:921:CYS:HA	1:G:930:HIS:O	2.11	0.50
1:H:373:SER:HB3	1:H:433:LEU:CG	2.40	0.50
1:H:479:GLU:HB3	1:H:482:GLU:HB3	1.92	0.50
1:H:538:LEU:HD12	1:H:571:GLU:HG2	1.94	0.50
1:H:1058:ILE:HG13	1:H:1059:ASP:N	2.27	0.50
1:I:705:PHE:HB3	1:I:706:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:883:ILE:HA	1:J:898:VAL:HB	1.92	0.50
1:K:458:LEU:CG	1:K:587:ARG:NH2	2.74	0.50
1:K:479:GLU:HB3	1:K:482:GLU:HB3	1.92	0.50
1:N:480:HIS:HB2	1:N:481:PRO:HD3	1.93	0.50
1:O:492:LEU:HD11	1:O:561:LEU:CD2	2.40	0.50
1:O:538:LEU:HD12	1:O:571:GLU:HG2	1.94	0.50
1:O:539:VAL:O	1:O:543:LEU:HG	2.12	0.50
1:O:901:HIS:CG	1:O:902:ILE:H	2.29	0.50
1:A:222:HIS:CG	1:H:198:LYS:NZ	2.79	0.50
1:A:553:LEU:HB3	1:A:556:SER:HG	1.76	0.50
1:A:916:LYS:CE	1:B:1177:TYR:CE2	2.93	0.50
1:B:551:GLU:HB3	1:B:605:LEU:O	2.11	0.50
1:C:551:GLU:HB3	1:C:605:LEU:O	2.11	0.50
1:D:921:CYS:HA	1:D:930:HIS:O	2.11	0.50
1:G:286:ASP:OD1	1:G:287:HIS:N	2.44	0.50
1:G:539:VAL:O	1:G:543:LEU:HG	2.12	0.50
1:H:492:LEU:HD11	1:H:561:LEU:CD2	2.40	0.50
1:I:518:LEU:HD22	1:I:643:TYR:CE1	2.22	0.50
1:K:253:TRP:CH2	1:K:262:ILE:HD11	2.46	0.50
1:K:492:LEU:HD11	1:K:561:LEU:CD2	2.40	0.50
1:M:386:LEU:HD21	1:M:390:TRP:HZ3	1.75	0.50
1:M:551:GLU:HB3	1:M:605:LEU:O	2.11	0.50
1:N:99:PRO:HB2	1:N:104:ARG:HG3	1.93	0.50
1:N:313:PRO:HA	1:N:338:TRP:HH2	1.63	0.50
1:N:553:LEU:HB3	1:N:556:SER:HG	1.75	0.50
1:O:307:CYS:HB3	1:O:311:ASP:OD2	2.11	0.50
1:O:373:SER:HB3	1:O:433:LEU:CG	2.40	0.50
1:P:130:PRO:HA	1:P:290:MET:HE1	1.91	0.50
1:P:317:LEU:C	1:P:318:THR:HG1	1.96	0.50
1:P:1240:LEU:HD12	1:P:1250:SER:HB2	1.93	0.50
1:A:313:PRO:HA	1:A:338:TRP:HH2	1.63	0.50
1:A:901:HIS:CD2	1:A:902:ILE:H	2.29	0.50
1:B:467:PHE:HD1	1:B:471:ILE:HD12	1.75	0.50
1:B:638:GLU:OE1	1:B:640:GLU:N	2.42	0.50
1:C:478:ILE:HG22	1:C:479:GLU:H	1.77	0.50
1:C:883:ILE:HA	1:C:898:VAL:HB	1.92	0.50
1:D:478:ILE:HG22	1:D:479:GLU:H	1.77	0.50
1:D:492:LEU:HD11	1:D:561:LEU:CD2	2.40	0.50
1:D:1058:ILE:HG13	1:D:1059:ASP:N	2.27	0.50
1:E:705:PHE:HB3	1:E:706:ILE:HD12	1.93	0.50
1:E:901:HIS:CD2	1:E:902:ILE:H	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:901:HIS:CG	1:E:902:ILE:H	2.29	0.50
1:F:479:GLU:HB3	1:F:482:GLU:HB3	1.92	0.50
1:F:538:LEU:HD12	1:F:571:GLU:HG2	1.94	0.50
1:F:1240:LEU:HD12	1:F:1250:SER:HB2	1.93	0.50
1:G:130:PRO:HA	1:G:290:MET:HE1	1.91	0.50
1:G:538:LEU:HG	1:G:571:GLU:CG	2.42	0.50
1:H:307:CYS:HB3	1:H:311:ASP:OD2	2.11	0.50
1:H:478:ILE:HG22	1:H:479:GLU:H	1.77	0.50
1:H:557:LYS:CB	1:H:1226:TYR:CE1	2.87	0.50
1:H:901:HIS:CD2	1:H:902:ILE:H	2.29	0.50
1:I:554:ILE:C	1:I:556:SER:H	2.13	0.50
1:J:231:LEU:O	1:J:234:SER:OG	2.26	0.50
1:J:492:LEU:HD11	1:J:561:LEU:CD2	2.40	0.50
1:J:705:PHE:HB3	1:J:706:ILE:HD12	1.93	0.50
1:K:478:ILE:HG22	1:K:479:GLU:H	1.77	0.50
1:L:478:ILE:HG22	1:L:479:GLU:H	1.77	0.50
1:L:1058:ILE:HG13	1:L:1059:ASP:N	2.27	0.50
1:M:91:PRO:O	1:M:94:THR:OG1	2.22	0.50
1:M:467:PHE:HD1	1:M:471:ILE:HD12	1.75	0.50
1:N:901:HIS:CD2	1:N:902:ILE:H	2.29	0.50
1:O:478:ILE:HG22	1:O:479:GLU:H	1.77	0.50
1:P:286:ASP:OD1	1:P:287:HIS:N	2.44	0.50
1:P:539:VAL:O	1:P:543:LEU:HG	2.12	0.50
1:P:551:GLU:HB3	1:P:605:LEU:O	2.11	0.50
1:P:883:ILE:HA	1:P:898:VAL:HB	1.92	0.50
1:A:431:VAL:HB	1:A:432:LYS:HB2	1.93	0.50
1:A:488:ARG:HA	1:A:491:PHE:H	1.75	0.50
1:A:538:LEU:HD12	1:A:571:GLU:HG2	1.94	0.50
1:B:91:PRO:O	1:B:94:THR:OG1	2.22	0.50
1:B:99:PRO:HB2	1:B:104:ARG:HG3	1.93	0.50
1:C:253:TRP:CH2	1:C:262:ILE:HD11	2.46	0.50
1:C:1058:ILE:HG13	1:C:1059:ASP:N	2.27	0.50
1:D:275:LEU:HD23	1:D:280:THR:HG21	1.93	0.50
1:E:99:PRO:HB2	1:E:104:ARG:HG3	1.93	0.50
1:E:114:TYR:O	1:E:117:ASN:N	2.36	0.50
1:E:538:LEU:HG	1:E:571:GLU:CG	2.42	0.50
1:F:511:SER:C	1:F:513:SER:N	2.60	0.50
1:G:480:HIS:HB2	1:G:481:PRO:HD3	1.92	0.50
1:G:551:GLU:HB3	1:G:605:LEU:O	2.11	0.50
1:G:883:ILE:HA	1:G:898:VAL:HB	1.92	0.50
1:G:1240:LEU:HD12	1:G:1250:SER:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:GLN:NE2	1:H:268:PHE:CZ	2.79	0.50
1:I:478:ILE:HG22	1:I:479:GLU:H	1.77	0.50
1:I:638:GLU:OE1	1:I:640:GLU:N	2.42	0.50
1:J:114:TYR:O	1:J:117:ASN:N	2.36	0.50
1:J:253:TRP:CH2	1:J:262:ILE:HD11	2.46	0.50
1:J:901:HIS:CD2	1:J:902:ILE:H	2.29	0.50
1:J:901:HIS:CG	1:J:902:ILE:H	2.29	0.50
1:K:988:ASP:OD1	1:K:989:SER:N	2.43	0.50
1:K:1058:ILE:HG13	1:K:1059:ASP:N	2.27	0.50
1:L:551:GLU:HB3	1:L:605:LEU:O	2.11	0.50
1:M:99:PRO:HB2	1:M:104:ARG:HG3	1.93	0.50
1:M:480:HIS:HB2	1:M:481:PRO:HD3	1.93	0.50
1:N:431:VAL:HB	1:N:432:LYS:HB2	1.93	0.50
1:N:538:LEU:HD12	1:N:571:GLU:HG2	1.94	0.50
1:N:921:CYS:HA	1:N:930:HIS:O	2.11	0.50
1:O:248:GLN:NE2	1:O:268:PHE:CZ	2.79	0.50
1:O:901:HIS:CD2	1:O:902:ILE:H	2.29	0.50
1:P:538:LEU:HG	1:P:571:GLU:CG	2.42	0.50
1:P:863:THR:HA	1:P:907:ILE:HG13	1.93	0.50
1:A:458:LEU:HG	1:A:587:ARG:HH21	1.77	0.50
1:C:539:VAL:O	1:C:543:LEU:HG	2.12	0.50
1:C:604:ASN:ND2	1:C:929:VAL:H	2.04	0.50
1:C:863:THR:HA	1:C:907:ILE:HG13	1.94	0.50
1:D:988:ASP:OD1	1:D:989:SER:N	2.43	0.50
1:E:492:LEU:HD11	1:E:561:LEU:CD2	2.40	0.50
1:G:863:THR:HA	1:G:907:ILE:HG13	1.94	0.50
1:H:921:CYS:HA	1:H:930:HIS:O	2.11	0.50
1:I:1240:LEU:HD12	1:I:1250:SER:HB2	1.93	0.50
1:J:99:PRO:HB2	1:J:104:ARG:HG3	1.93	0.50
1:J:538:LEU:HG	1:J:571:GLU:CG	2.42	0.50
1:J:554:ILE:C	1:J:556:SER:H	2.13	0.50
1:K:275:LEU:HD23	1:K:280:THR:HG21	1.93	0.50
1:K:539:VAL:O	1:K:543:LEU:HG	2.11	0.50
1:M:638:GLU:OE1	1:M:640:GLU:N	2.42	0.50
1:M:1240:LEU:HD12	1:M:1250:SER:HB2	1.93	0.50
1:N:458:LEU:HG	1:N:587:ARG:HH21	1.77	0.50
1:O:382:PRO:HA	1:O:419:THR:CG2	2.36	0.50
1:O:538:LEU:HD21	1:O:573:ILE:HD11	1.94	0.50
1:O:548:LYS:HZ2	1:O:601:GLN:H	1.56	0.50
1:P:705:PHE:HB3	1:P:706:ILE:HD12	1.93	0.50
1:A:492:LEU:HD11	1:A:561:LEU:CD2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:921:CYS:HA	1:A:930:HIS:O	2.11	0.50
1:B:248:GLN:NE2	1:B:268:PHE:CZ	2.79	0.50
1:B:480:HIS:HB2	1:B:481:PRO:HD3	1.93	0.50
1:B:518:LEU:HD12	1:B:518:LEU:N	2.20	0.50
1:B:539:VAL:O	1:B:543:LEU:HG	2.12	0.50
1:B:921:CYS:HA	1:B:930:HIS:O	2.11	0.50
1:B:1058:ILE:HG13	1:B:1059:ASP:N	2.27	0.50
1:B:1240:LEU:HD12	1:B:1250:SER:HB2	1.93	0.50
1:C:901:HIS:CG	1:C:902:ILE:H	2.29	0.50
1:D:20:GLU:O	1:D:23:PHE:N	2.45	0.50
1:D:480:HIS:HB2	1:D:481:PRO:HD3	1.92	0.50
1:D:705:PHE:HB3	1:D:706:ILE:HD12	1.93	0.50
1:E:253:TRP:CH2	1:E:262:ILE:HD11	2.46	0.50
1:E:507:ALA:N	1:E:608:ASN:HB2	2.27	0.50
1:E:921:CYS:HA	1:E:930:HIS:O	2.11	0.50
1:F:863:THR:HA	1:F:907:ILE:HG13	1.93	0.50
1:G:705:PHE:HB3	1:G:706:ILE:HD12	1.93	0.50
1:G:901:HIS:CD2	1:G:902:ILE:H	2.29	0.50
1:H:275:LEU:HD23	1:H:280:THR:HG21	1.94	0.50
1:H:538:LEU:HD21	1:H:573:ILE:HD11	1.94	0.50
1:I:99:PRO:HB2	1:I:104:ARG:HG3	1.93	0.50
1:I:307:CYS:HB3	1:I:311:ASP:OD2	2.11	0.50
1:J:20:GLU:O	1:J:23:PHE:N	2.45	0.50
1:J:507:ALA:N	1:J:608:ASN:HB2	2.27	0.50
1:J:921:CYS:HA	1:J:930:HIS:O	2.11	0.50
1:J:1058:ILE:HG13	1:J:1059:ASP:N	2.27	0.50
1:K:480:HIS:HB2	1:K:481:PRO:HD3	1.92	0.50
1:K:705:PHE:HB3	1:K:706:ILE:HD12	1.94	0.50
1:L:64:THR:O	1:L:67:SER:OG	2.27	0.50
1:L:480:HIS:HB2	1:L:481:PRO:HD3	1.93	0.50
1:M:248:GLN:NE2	1:M:268:PHE:CZ	2.79	0.50
1:M:458:LEU:HG	1:M:587:ARG:HH21	1.77	0.50
1:M:539:VAL:O	1:M:543:LEU:HG	2.12	0.50
1:M:1058:ILE:HG13	1:M:1059:ASP:N	2.27	0.50
1:N:488:ARG:HA	1:N:491:PHE:H	1.75	0.50
1:N:492:LEU:HD11	1:N:561:LEU:CD2	2.40	0.50
1:O:64:THR:O	1:O:67:SER:OG	2.27	0.50
1:O:275:LEU:HD23	1:O:280:THR:HG21	1.94	0.50
1:O:557:LYS:CB	1:O:1226:TYR:CE1	2.87	0.50
1:O:921:CYS:HA	1:O:930:HIS:O	2.11	0.50
1:P:480:HIS:HB2	1:P:481:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:901:HIS:CD2	1:P:902:ILE:H	2.29	0.50
1:A:275:LEU:HD23	1:A:280:THR:HG21	1.93	0.50
1:A:1058:ILE:HG13	1:A:1059:ASP:N	2.27	0.50
1:B:458:LEU:HG	1:B:587:ARG:HH21	1.77	0.50
1:C:20:GLU:O	1:C:23:PHE:N	2.45	0.50
1:C:480:HIS:HB2	1:C:481:PRO:HD3	1.93	0.50
1:D:463:LEU:CD2	1:D:467:PHE:CD2	2.92	0.50
1:D:539:VAL:O	1:D:543:LEU:HG	2.11	0.50
1:D:541:ALA:O	1:D:544:ASP:N	2.30	0.50
1:E:20:GLU:O	1:E:23:PHE:N	2.45	0.50
1:E:231:LEU:O	1:E:234:SER:OG	2.26	0.50
1:E:541:ALA:O	1:E:544:ASP:N	2.30	0.50
1:F:99:PRO:HB2	1:F:104:ARG:HG3	1.93	0.50
1:F:651:SER:O	1:F:654:ILE:HG23	2.12	0.50
1:G:1058:ILE:HG13	1:G:1059:ASP:N	2.27	0.50
1:H:20:GLU:O	1:H:23:PHE:N	2.45	0.50
1:H:382:PRO:HA	1:H:419:THR:CG2	2.36	0.50
1:H:548:LYS:HZ2	1:H:601:GLN:H	1.56	0.50
1:I:538:LEU:HD12	1:I:571:GLU:HG2	1.94	0.50
1:I:863:THR:HA	1:I:907:ILE:HG13	1.93	0.50
1:J:541:ALA:O	1:J:544:ASP:N	2.30	0.50
1:J:1240:LEU:HD12	1:J:1250:SER:HB2	1.93	0.50
1:K:20:GLU:O	1:K:23:PHE:N	2.45	0.50
1:K:563:ARG:HH11	1:K:593:HIS:HA	1.77	0.50
1:L:431:VAL:HB	1:L:432:LYS:HB2	1.93	0.50
1:L:863:THR:HA	1:L:907:ILE:HG13	1.93	0.50
1:L:883:ILE:HA	1:L:898:VAL:HB	1.92	0.50
1:M:518:LEU:HD12	1:M:518:LEU:N	2.20	0.50
1:M:553:LEU:HB3	1:M:556:SER:HG	1.76	0.50
1:M:705:PHE:HB3	1:M:706:ILE:HD12	1.93	0.50
1:M:901:HIS:CD2	1:M:902:ILE:H	2.29	0.50
1:M:921:CYS:HA	1:M:930:HIS:O	2.11	0.50
1:N:152:VAL:O	1:N:155:SER:OG	2.29	0.50
1:N:1058:ILE:HG13	1:N:1059:ASP:N	2.27	0.50
1:O:20:GLU:O	1:O:23:PHE:N	2.45	0.50
1:A:563:ARG:HH11	1:A:593:HIS:HA	1.77	0.49
1:B:538:LEU:HD12	1:B:571:GLU:HG2	1.94	0.49
1:B:901:HIS:CD2	1:B:902:ILE:H	2.29	0.49
1:C:198:LYS:NZ	1:D:222:HIS:CG	2.80	0.49
1:C:248:GLN:NE2	1:C:268:PHE:CZ	2.79	0.49
1:D:507:ALA:N	1:D:608:ASN:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:563:ARG:HH11	1:D:593:HIS:HA	1.78	0.49
1:E:478:ILE:HG22	1:E:479:GLU:H	1.77	0.49
1:E:518:LEU:HD22	1:E:643:TYR:CE1	2.22	0.49
1:E:563:ARG:HH11	1:E:593:HIS:HA	1.77	0.49
1:E:1058:ILE:HG13	1:E:1059:ASP:N	2.27	0.49
1:E:1240:LEU:HD12	1:E:1250:SER:HB2	1.93	0.49
1:F:307:CYS:HB3	1:F:311:ASP:OD2	2.11	0.49
1:F:478:ILE:HG22	1:F:479:GLU:H	1.77	0.49
1:F:538:LEU:HD21	1:F:573:ILE:HD11	1.94	0.49
1:I:20:GLU:O	1:I:23:PHE:N	2.45	0.49
1:I:538:LEU:HD21	1:I:573:ILE:HD11	1.94	0.49
1:I:651:SER:O	1:I:654:ILE:HG23	2.12	0.49
1:J:651:SER:O	1:J:654:ILE:HG23	2.12	0.49
1:K:248:GLN:NE2	1:K:268:PHE:CZ	2.79	0.49
1:K:463:LEU:CD2	1:K:467:PHE:CD2	2.92	0.49
1:K:538:LEU:HD12	1:K:571:GLU:HG2	1.93	0.49
1:N:275:LEU:HD23	1:N:280:THR:HG21	1.94	0.49
1:N:301:LEU:CD2	1:N:313:PRO:CG	2.87	0.49
1:N:563:ARG:HH11	1:N:593:HIS:HA	1.77	0.49
1:O:130:PRO:HA	1:O:290:MET:HE1	1.93	0.49
1:O:431:VAL:HB	1:O:432:LYS:HB2	1.93	0.49
1:O:507:ALA:N	1:O:608:ASN:HB2	2.27	0.49
1:P:275:LEU:HD23	1:P:280:THR:HG21	1.93	0.49
1:P:538:LEU:HG	1:P:571:GLU:CD	2.33	0.49
1:P:1058:ILE:HG13	1:P:1059:ASP:N	2.27	0.49
1:A:511:SER:C	1:A:513:SER:N	2.60	0.49
1:B:553:LEU:HB3	1:B:556:SER:HG	1.75	0.49
1:B:705:PHE:HB3	1:B:706:ILE:HD12	1.94	0.49
1:C:518:LEU:HD12	1:C:518:LEU:N	2.20	0.49
1:C:1240:LEU:HD12	1:C:1250:SER:HB2	1.93	0.49
1:D:99:PRO:HB2	1:D:104:ARG:HG3	1.93	0.49
1:D:248:GLN:HE22	1:D:268:PHE:HZ	1.61	0.49
1:D:248:GLN:NE2	1:D:268:PHE:CZ	2.79	0.49
1:E:651:SER:O	1:E:654:ILE:HG23	2.12	0.49
1:E:863:THR:HA	1:E:907:ILE:HG13	1.93	0.49
1:F:248:GLN:HE22	1:F:268:PHE:HZ	1.60	0.49
1:G:162:LEU:HD23	1:G:180:TRP:CH2	2.48	0.49
1:G:275:LEU:HD23	1:G:280:THR:HG21	1.94	0.49
1:G:538:LEU:HG	1:G:571:GLU:CD	2.33	0.49
1:H:507:ALA:N	1:H:608:ASN:HB2	2.27	0.49
1:I:563:ARG:HH11	1:I:593:HIS:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:921:CYS:HA	1:I:930:HIS:O	2.11	0.49
1:J:563:ARG:HH11	1:J:593:HIS:HA	1.77	0.49
1:J:863:THR:HA	1:J:907:ILE:HG13	1.94	0.49
1:K:99:PRO:HB2	1:K:104:ARG:HG3	1.93	0.49
1:K:248:GLN:HE22	1:K:268:PHE:HZ	1.61	0.49
1:K:507:ALA:N	1:K:608:ASN:HB2	2.27	0.49
1:L:463:LEU:HD22	1:L:467:PHE:HD2	1.74	0.49
1:L:539:VAL:O	1:L:543:LEU:HG	2.12	0.49
1:M:431:VAL:HB	1:M:432:LYS:HB2	1.93	0.49
1:M:538:LEU:HD12	1:M:571:GLU:HG2	1.94	0.49
1:N:20:GLU:O	1:N:23:PHE:N	2.45	0.49
1:N:705:PHE:HB3	1:N:706:ILE:HD12	1.93	0.49
1:O:515:LEU:HD12	1:O:517:THR:H	1.78	0.49
1:P:557:LYS:CB	1:P:1226:TYR:CE1	2.87	0.49
1:A:152:VAL:O	1:A:155:SER:OG	2.29	0.49
1:A:162:LEU:HD23	1:A:180:TRP:CH2	2.48	0.49
1:A:248:GLN:NE2	1:A:268:PHE:CZ	2.79	0.49
1:A:301:LEU:CD2	1:A:313:PRO:CG	2.87	0.49
1:A:347:ASP:OD1	1:A:348:LYS:N	2.37	0.49
1:A:901:HIS:CG	1:A:902:ILE:H	2.29	0.49
1:A:1240:LEU:HD12	1:A:1250:SER:HB2	1.93	0.49
1:B:162:LEU:HD23	1:B:180:TRP:CH2	2.48	0.49
1:B:556:SER:O	1:B:557:LYS:HB2	2.13	0.49
1:C:64:THR:O	1:C:67:SER:OG	2.27	0.49
1:C:431:VAL:HB	1:C:432:LYS:HB2	1.93	0.49
1:C:504:ASP:CG	1:C:509:ASN:O	2.51	0.49
1:C:563:ARG:HH11	1:C:593:HIS:HA	1.77	0.49
1:C:1252:ALA:HB1	1:C:1256:CYS:HB2	1.95	0.49
1:D:538:LEU:HD12	1:D:571:GLU:HG2	1.94	0.49
1:E:248:GLN:HE22	1:E:268:PHE:HZ	1.60	0.49
1:E:538:LEU:HG	1:E:571:GLU:CD	2.33	0.49
1:F:20:GLU:O	1:F:23:PHE:N	2.45	0.49
1:F:162:LEU:HD23	1:F:180:TRP:CH2	2.48	0.49
1:F:541:ALA:O	1:F:544:ASP:N	2.30	0.49
1:F:563:ARG:HH11	1:F:593:HIS:HA	1.77	0.49
1:G:488:ARG:HA	1:G:491:PHE:H	1.75	0.49
1:G:538:LEU:HD12	1:G:571:GLU:HG2	1.94	0.49
1:G:557:LYS:CB	1:G:1226:TYR:CE1	2.87	0.49
1:G:660:PHE:HZ	1:G:731:GLN:HG3	1.78	0.49
1:J:478:ILE:HG22	1:J:479:GLU:H	1.77	0.49
1:K:293:THR:O	1:K:296:GLU:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:20:GLU:O	1:L:23:PHE:N	2.45	0.49
1:L:275:LEU:HD23	1:L:280:THR:HG21	1.93	0.49
1:L:293:THR:O	1:L:296:GLU:N	2.40	0.49
1:L:563:ARG:HH11	1:L:593:HIS:HA	1.78	0.49
1:L:604:ASN:ND2	1:L:929:VAL:H	2.04	0.49
1:L:651:SER:O	1:L:654:ILE:HG23	2.12	0.49
1:L:705:PHE:HB3	1:L:706:ILE:HD12	1.93	0.49
1:L:901:HIS:CD2	1:L:902:ILE:H	2.29	0.49
1:L:901:HIS:CG	1:L:902:ILE:H	2.29	0.49
1:L:1252:ALA:HB1	1:L:1256:CYS:HB2	1.94	0.49
1:M:162:LEU:HD23	1:M:180:TRP:CH2	2.48	0.49
1:M:556:SER:O	1:M:557:LYS:HB2	2.13	0.49
1:N:511:SER:C	1:N:513:SER:N	2.60	0.49
1:N:556:SER:O	1:N:557:LYS:HB2	2.13	0.49
1:O:99:PRO:HB2	1:O:104:ARG:HG3	1.93	0.49
1:O:162:LEU:HD23	1:O:180:TRP:CH2	2.48	0.49
1:P:162:LEU:HD23	1:P:180:TRP:CH2	2.48	0.49
1:A:20:GLU:O	1:A:23:PHE:N	2.45	0.49
1:A:556:SER:O	1:A:557:LYS:HB2	2.13	0.49
1:A:705:PHE:HB3	1:A:706:ILE:HD12	1.93	0.49
1:B:431:VAL:HB	1:B:432:LYS:HB2	1.93	0.49
1:C:248:GLN:HE22	1:C:268:PHE:HZ	1.60	0.49
1:C:275:LEU:HD23	1:C:280:THR:HG21	1.94	0.49
1:C:293:THR:O	1:C:296:GLU:N	2.40	0.49
1:D:221:ILE:HG13	1:D:222:HIS:N	2.28	0.49
1:D:882:LEU:HB2	1:D:901:HIS:CE1	2.48	0.49
1:D:1240:LEU:HD12	1:D:1250:SER:HB2	1.93	0.49
1:F:221:ILE:HG13	1:F:222:HIS:N	2.28	0.49
1:F:921:CYS:HA	1:F:930:HIS:O	2.11	0.49
1:G:450:PRO:O	1:G:452:THR:N	2.46	0.49
1:G:458:LEU:CG	1:G:587:ARG:NH2	2.74	0.49
1:H:162:LEU:HD23	1:H:180:TRP:CH2	2.48	0.49
1:H:431:VAL:HB	1:H:432:LYS:HB2	1.93	0.49
1:I:221:ILE:HG13	1:I:222:HIS:N	2.28	0.49
1:J:187:ASN:HA	1:J:249:ASN:ND2	2.24	0.49
1:J:221:ILE:HG13	1:J:222:HIS:N	2.28	0.49
1:J:248:GLN:HE22	1:J:268:PHE:HZ	1.61	0.49
1:J:538:LEU:HG	1:J:571:GLU:CD	2.33	0.49
1:K:221:ILE:HG13	1:K:222:HIS:N	2.28	0.49
1:K:882:LEU:HB2	1:K:901:HIS:CE1	2.48	0.49
1:L:248:GLN:HE22	1:L:268:PHE:HZ	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:504:ASP:CG	1:L:509:ASN:O	2.51	0.49
1:L:1240:LEU:HD12	1:L:1250:SER:HB2	1.93	0.49
1:M:450:PRO:O	1:M:452:THR:N	2.46	0.49
1:N:162:LEU:HD23	1:N:180:TRP:CH2	2.48	0.49
1:N:901:HIS:CG	1:N:902:ILE:H	2.29	0.49
1:O:556:SER:O	1:O:557:LYS:HB2	2.13	0.49
1:P:488:ARG:HA	1:P:491:PHE:H	1.75	0.49
1:P:538:LEU:HD12	1:P:571:GLU:HG2	1.94	0.49
1:P:660:PHE:HZ	1:P:731:GLN:HG3	1.78	0.49
1:A:651:SER:O	1:A:654:ILE:HG23	2.12	0.49
1:B:450:PRO:O	1:B:452:THR:N	2.46	0.49
1:B:563:ARG:HH11	1:B:593:HIS:HA	1.77	0.49
1:C:538:LEU:HD12	1:C:571:GLU:HG2	1.94	0.49
1:C:901:HIS:CD2	1:C:902:ILE:H	2.29	0.49
1:C:946:ARG:HG3	1:C:947:GLU:N	2.28	0.49
1:D:293:THR:O	1:D:296:GLU:N	2.40	0.49
1:D:504:ASP:CG	1:D:509:ASN:O	2.51	0.49
1:D:515:LEU:HD12	1:D:517:THR:H	1.78	0.49
1:D:901:HIS:CD2	1:D:902:ILE:H	2.29	0.49
1:E:187:ASN:HA	1:E:249:ASN:ND2	2.23	0.49
1:G:248:GLN:HE22	1:G:268:PHE:HZ	1.61	0.49
1:G:507:ALA:N	1:G:608:ASN:HB2	2.27	0.49
1:G:517:THR:HA	1:G:520:GLN:CG	2.43	0.49
1:G:882:LEU:HB2	1:G:901:HIS:CE1	2.48	0.49
1:H:99:PRO:HB2	1:H:104:ARG:HG3	1.93	0.49
1:H:511:SER:HB3	1:H:645:LEU:HD21	1.94	0.49
1:H:556:SER:O	1:H:557:LYS:HB2	2.13	0.49
1:I:162:LEU:HD23	1:I:180:TRP:CH2	2.48	0.49
1:I:248:GLN:HE22	1:I:268:PHE:HZ	1.61	0.49
1:I:511:SER:C	1:I:513:SER:N	2.60	0.49
1:J:480:HIS:HB2	1:J:481:PRO:HD3	1.93	0.49
1:K:504:ASP:CG	1:K:509:ASN:O	2.51	0.49
1:K:541:ALA:O	1:K:544:ASP:N	2.30	0.49
1:K:901:HIS:CD2	1:K:902:ILE:H	2.30	0.49
1:K:1240:LEU:HD12	1:K:1250:SER:HB2	1.93	0.49
1:L:538:LEU:HD12	1:L:571:GLU:HG2	1.94	0.49
1:M:988:ASP:OD1	1:M:989:SER:N	2.43	0.49
1:N:507:ALA:N	1:N:608:ASN:HB2	2.27	0.49
1:N:651:SER:O	1:N:654:ILE:HG23	2.12	0.49
1:N:1240:LEU:HD12	1:N:1250:SER:HB2	1.93	0.49
1:O:187:ASN:HA	1:O:249:ASN:ND2	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:946:ARG:HG3	1:O:947:GLU:N	2.28	0.49
1:P:221:ILE:HG13	1:P:222:HIS:N	2.28	0.49
1:P:248:GLN:HE22	1:P:268:PHE:HZ	1.61	0.49
1:P:450:PRO:O	1:P:452:THR:N	2.46	0.49
1:P:458:LEU:CG	1:P:587:ARG:NH2	2.74	0.49
1:P:507:ALA:N	1:P:608:ASN:HB2	2.27	0.49
1:P:517:THR:HA	1:P:520:GLN:CG	2.43	0.49
1:P:563:ARG:HH11	1:P:593:HIS:HA	1.77	0.49
1:P:882:LEU:HB2	1:P:901:HIS:CE1	2.48	0.49
1:A:450:PRO:O	1:A:452:THR:N	2.46	0.49
1:A:507:ALA:N	1:A:608:ASN:HB2	2.27	0.49
1:A:517:THR:HA	1:A:520:GLN:CG	2.43	0.49
1:B:64:THR:O	1:B:67:SER:OG	2.27	0.49
1:B:478:ILE:HG22	1:B:479:GLU:H	1.77	0.49
1:B:507:ALA:N	1:B:608:ASN:HB2	2.27	0.49
1:B:517:THR:HA	1:B:520:GLN:CG	2.43	0.49
1:B:660:PHE:HZ	1:B:731:GLN:HG3	1.78	0.49
1:B:863:THR:HA	1:B:907:ILE:HG13	1.93	0.49
1:B:988:ASP:OD1	1:B:989:SER:N	2.43	0.49
1:C:507:ALA:N	1:C:608:ASN:HB2	2.27	0.49
1:C:517:THR:HA	1:C:520:GLN:CG	2.43	0.49
1:E:221:ILE:HG13	1:E:222:HIS:N	2.28	0.49
1:E:480:HIS:HB2	1:E:481:PRO:HD3	1.93	0.49
1:E:1252:ALA:HB1	1:E:1256:CYS:HB2	1.94	0.49
1:F:175:ASP:O	1:F:177:LYS:HG2	2.13	0.49
1:F:337:THR:C	1:F:339:ASP:H	2.16	0.49
1:F:882:LEU:HB2	1:F:901:HIS:CE1	2.48	0.49
1:G:99:PRO:HB2	1:G:104:ARG:HG3	1.93	0.49
1:G:221:ILE:HG13	1:G:222:HIS:N	2.28	0.49
1:G:451:LYS:CD	1:G:486:LEU:HD21	2.33	0.49
1:H:504:ASP:CG	1:H:509:ASN:O	2.51	0.49
1:H:515:LEU:HD12	1:H:517:THR:H	1.78	0.49
1:H:651:SER:O	1:H:654:ILE:HG23	2.12	0.49
1:I:538:LEU:HG	1:I:571:GLU:CG	2.42	0.49
1:I:1058:ILE:HG13	1:I:1059:ASP:N	2.27	0.49
1:K:515:LEU:HD12	1:K:517:THR:H	1.78	0.49
1:K:604:ASN:ND2	1:K:929:VAL:H	2.04	0.49
1:L:162:LEU:HD23	1:L:180:TRP:CH2	2.48	0.49
1:M:398:VAL:HG23	1:M:399:MET:N	2.28	0.49
1:M:478:ILE:HG22	1:M:479:GLU:H	1.77	0.49
1:M:507:ALA:N	1:M:608:ASN:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:563:ARG:HH11	1:M:593:HIS:HA	1.77	0.49
1:M:660:PHE:HZ	1:M:731:GLN:HG3	1.78	0.49
1:M:863:THR:HA	1:M:907:ILE:HG13	1.93	0.49
1:N:347:ASP:OD1	1:N:348:LYS:N	2.37	0.49
1:O:863:THR:HA	1:O:907:ILE:HG13	1.93	0.49
1:A:187:ASN:HA	1:A:249:ASN:ND2	2.23	0.49
1:A:346:CYS:O	1:A:350:THR:N	2.25	0.49
1:A:478:ILE:HG22	1:A:479:GLU:H	1.77	0.49
1:A:863:THR:HA	1:A:907:ILE:HG13	1.93	0.49
1:B:346:CYS:O	1:B:350:THR:N	2.25	0.49
1:B:398:VAL:HG23	1:B:399:MET:N	2.28	0.49
1:C:99:PRO:HB2	1:C:104:ARG:HG3	1.93	0.49
1:C:162:LEU:HD23	1:C:180:TRP:CH2	2.48	0.49
1:C:651:SER:O	1:C:654:ILE:HG23	2.12	0.49
1:D:604:ASN:ND2	1:D:929:VAL:H	2.04	0.49
1:D:651:SER:O	1:D:654:ILE:HG23	2.12	0.49
1:F:275:LEU:HD23	1:F:280:THR:HG21	1.93	0.49
1:F:346:CYS:O	1:F:350:THR:N	2.25	0.49
1:F:443:ILE:HG21	1:F:477:ASN:ND2	2.24	0.49
1:F:517:THR:HA	1:F:520:GLN:CG	2.43	0.49
1:G:563:ARG:HH11	1:G:593:HIS:HA	1.78	0.49
1:G:946:ARG:HG3	1:G:947:GLU:N	2.28	0.49
1:H:187:ASN:HA	1:H:249:ASN:ND2	2.23	0.49
1:H:248:GLN:HE22	1:H:268:PHE:HZ	1.61	0.49
1:H:337:THR:HG1	1:H:340:ASN:H	1.61	0.49
1:H:863:THR:HA	1:H:907:ILE:HG13	1.93	0.49
1:H:946:ARG:HG3	1:H:947:GLU:N	2.28	0.49
1:H:1240:LEU:HD12	1:H:1250:SER:HB2	1.93	0.49
1:I:175:ASP:O	1:I:177:LYS:HG2	2.13	0.49
1:I:275:LEU:HD23	1:I:280:THR:HG21	1.94	0.49
1:I:517:THR:HA	1:I:520:GLN:CG	2.43	0.49
1:I:882:LEU:HB2	1:I:901:HIS:CE1	2.48	0.49
1:J:1252:ALA:HB1	1:J:1256:CYS:HB2	1.95	0.49
1:K:651:SER:O	1:K:654:ILE:HG23	2.12	0.49
1:L:507:ALA:N	1:L:608:ASN:HB2	2.27	0.49
1:L:515:LEU:HD12	1:L:517:THR:H	1.78	0.49
1:L:517:THR:HA	1:L:520:GLN:CG	2.43	0.49
1:L:921:CYS:HA	1:L:930:HIS:O	2.11	0.49
1:M:517:THR:HA	1:M:520:GLN:CG	2.43	0.49
1:N:187:ASN:HA	1:N:249:ASN:ND2	2.24	0.49
1:N:450:PRO:O	1:N:452:THR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:517:THR:HA	1:N:520:GLN:CG	2.43	0.49
1:O:504:ASP:CG	1:O:509:ASN:O	2.51	0.49
1:O:511:SER:HB3	1:O:645:LEU:HD21	1.95	0.49
1:O:517:THR:HA	1:O:520:GLN:CG	2.43	0.49
1:O:651:SER:O	1:O:654:ILE:HG23	2.12	0.49
1:P:99:PRO:HB2	1:P:104:ARG:HG3	1.93	0.49
1:P:946:ARG:HG3	1:P:947:GLU:N	2.28	0.49
1:A:248:GLN:HE22	1:A:268:PHE:HZ	1.60	0.49
1:B:248:GLN:HE22	1:B:268:PHE:HZ	1.61	0.49
1:B:946:ARG:HG3	1:B:947:GLU:N	2.28	0.49
1:C:921:CYS:HA	1:C:930:HIS:O	2.11	0.49
1:D:450:PRO:O	1:D:452:THR:N	2.46	0.49
1:E:660:PHE:HZ	1:E:731:GLN:HG3	1.78	0.49
1:F:122:LYS:HG2	1:G:276:SER:OG	2.13	0.49
1:F:450:PRO:O	1:F:452:THR:N	2.46	0.49
1:F:1058:ILE:HG13	1:F:1059:ASP:N	2.27	0.49
1:H:517:THR:HA	1:H:520:GLN:CG	2.43	0.49
1:I:198:LYS:NZ	1:P:222:HIS:CD2	2.81	0.49
1:I:507:ALA:N	1:I:608:ASN:HB2	2.27	0.49
1:I:541:ALA:O	1:I:544:ASP:N	2.30	0.49
1:J:337:THR:C	1:J:339:ASP:H	2.16	0.49
1:K:450:PRO:O	1:K:452:THR:N	2.46	0.49
1:L:99:PRO:HB2	1:L:104:ARG:HG3	1.93	0.49
1:L:1192:SER:OG	1:L:1208:GLU:OE2	2.28	0.49
1:M:221:ILE:HG13	1:M:222:HIS:N	2.28	0.49
1:O:248:GLN:HE22	1:O:268:PHE:HZ	1.61	0.49
1:O:538:LEU:HG	1:O:571:GLU:CD	2.33	0.49
1:P:451:LYS:CD	1:P:486:LEU:HD21	2.33	0.49
1:A:538:LEU:HG	1:A:571:GLU:CD	2.33	0.49
1:B:221:ILE:HG13	1:B:222:HIS:N	2.28	0.49
1:C:705:PHE:HB3	1:C:706:ILE:HD12	1.93	0.49
1:D:162:LEU:HD23	1:D:180:TRP:CH2	2.48	0.49
1:D:946:ARG:HG3	1:D:947:GLU:N	2.28	0.49
1:E:162:LEU:HD23	1:E:180:TRP:CH2	2.48	0.49
1:E:337:THR:C	1:E:339:ASP:H	2.16	0.49
1:E:462:TYR:CZ	1:E:467:PHE:HB3	2.48	0.49
1:F:462:TYR:CZ	1:F:467:PHE:HB3	2.48	0.49
1:F:504:ASP:CG	1:F:509:ASN:O	2.51	0.49
1:F:538:LEU:HG	1:F:571:GLU:CG	2.42	0.49
1:H:538:LEU:HG	1:H:571:GLU:CD	2.33	0.49
1:I:504:ASP:CG	1:I:509:ASN:O	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:518:LEU:HD12	1:I:518:LEU:N	2.20	0.49
1:I:523:PHE:HD1	1:I:527:TYR:CE2	2.28	0.49
1:K:162:LEU:HD23	1:K:180:TRP:CH2	2.48	0.49
1:L:248:GLN:NE2	1:L:268:PHE:CZ	2.79	0.49
1:L:538:LEU:HG	1:L:571:GLU:CD	2.33	0.49
1:L:946:ARG:HG3	1:L:947:GLU:N	2.28	0.49
1:M:248:GLN:HE22	1:M:268:PHE:HZ	1.61	0.49
1:M:275:LEU:HD23	1:M:280:THR:HG21	1.93	0.49
1:M:346:CYS:O	1:M:350:THR:N	2.25	0.49
1:N:248:GLN:NE2	1:N:268:PHE:CZ	2.79	0.49
1:N:478:ILE:HG22	1:N:479:GLU:H	1.77	0.49
1:N:538:LEU:HG	1:N:571:GLU:CD	2.33	0.49
1:O:337:THR:HG1	1:O:340:ASN:H	1.61	0.49
1:O:347:ASP:OD1	1:O:348:LYS:N	2.37	0.49
1:O:450:PRO:O	1:O:452:THR:N	2.46	0.49
1:O:882:LEU:HB2	1:O:901:HIS:CE1	2.48	0.49
1:A:511:SER:HB3	1:A:645:LEU:HD21	1.94	0.49
1:A:515:LEU:HD12	1:A:517:THR:H	1.78	0.49
1:B:20:GLU:O	1:B:23:PHE:N	2.45	0.49
1:B:275:LEU:HD23	1:B:280:THR:HG21	1.93	0.49
1:B:538:LEU:HD21	1:B:573:ILE:HD11	1.94	0.49
1:B:604:ASN:ND2	1:B:929:VAL:H	2.04	0.49
1:B:1252:ALA:HB1	1:B:1256:CYS:HB2	1.94	0.49
1:C:175:ASP:O	1:C:177:LYS:HG2	2.13	0.49
1:D:517:THR:HA	1:D:520:GLN:CG	2.43	0.49
1:D:660:PHE:HZ	1:D:731:GLN:HG3	1.78	0.49
1:D:863:THR:HA	1:D:907:ILE:HG13	1.93	0.49
1:E:517:THR:HA	1:E:520:GLN:CG	2.43	0.49
1:F:523:PHE:HD1	1:F:527:TYR:CE2	2.28	0.49
1:F:660:PHE:HZ	1:F:731:GLN:HG3	1.78	0.49
1:G:175:ASP:O	1:G:177:LYS:HG2	2.13	0.49
1:G:462:TYR:CZ	1:G:467:PHE:HB3	2.48	0.49
1:G:463:LEU:CD2	1:G:467:PHE:CD2	2.92	0.49
1:G:538:LEU:HD21	1:G:573:ILE:HD11	1.94	0.49
1:H:221:ILE:HG13	1:H:222:HIS:N	2.28	0.49
1:H:347:ASP:OD1	1:H:348:LYS:N	2.37	0.49
1:H:882:LEU:HB2	1:H:901:HIS:CE1	2.48	0.49
1:I:337:THR:C	1:I:339:ASP:H	2.16	0.49
1:I:450:PRO:O	1:I:452:THR:N	2.46	0.49
1:I:462:TYR:CZ	1:I:467:PHE:HB3	2.48	0.49
1:I:660:PHE:HZ	1:I:731:GLN:HG3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:162:LEU:HD23	1:J:180:TRP:CH2	2.48	0.49
1:J:504:ASP:CG	1:J:509:ASN:O	2.51	0.49
1:J:517:THR:HA	1:J:520:GLN:CG	2.43	0.49
1:J:660:PHE:HZ	1:J:731:GLN:HG3	1.78	0.49
1:K:517:THR:HA	1:K:520:GLN:CG	2.43	0.49
1:K:660:PHE:HZ	1:K:731:GLN:HG3	1.78	0.49
1:K:946:ARG:HG3	1:K:947:GLU:N	2.28	0.49
1:M:538:LEU:HG	1:M:571:GLU:CG	2.42	0.49
1:M:538:LEU:HD21	1:M:573:ILE:HD11	1.94	0.49
1:M:946:ARG:HG3	1:M:947:GLU:N	2.28	0.49
1:M:1252:ALA:HB1	1:M:1256:CYS:HB2	1.94	0.49
1:N:248:GLN:HE22	1:N:268:PHE:HZ	1.61	0.49
1:N:504:ASP:CG	1:N:509:ASN:O	2.51	0.49
1:N:511:SER:HB3	1:N:645:LEU:HD21	1.94	0.49
1:N:515:LEU:HD12	1:N:517:THR:H	1.78	0.49
1:O:1240:LEU:HD12	1:O:1250:SER:HB2	1.93	0.49
1:P:175:ASP:O	1:P:177:LYS:HG2	2.13	0.49
1:P:462:TYR:CZ	1:P:467:PHE:HB3	2.48	0.49
1:P:511:SER:HB3	1:P:645:LEU:HD21	1.94	0.49
1:P:538:LEU:HD21	1:P:573:ILE:HD11	1.94	0.49
1:A:253:TRP:CZ3	1:A:262:ILE:HD11	2.48	0.48
1:A:462:TYR:CZ	1:A:467:PHE:HB3	2.48	0.48
1:A:504:ASP:CG	1:A:509:ASN:O	2.51	0.48
1:A:538:LEU:HG	1:A:571:GLU:CG	2.42	0.48
1:A:1252:ALA:HB1	1:A:1256:CYS:HB2	1.94	0.48
1:B:538:LEU:HG	1:B:571:GLU:CG	2.42	0.48
1:C:14:ASP:CG	1:D:142:ARG:HH12	2.15	0.48
1:C:515:LEU:HD12	1:C:517:THR:H	1.78	0.48
1:G:337:THR:HG1	1:G:340:ASN:H	1.61	0.48
1:G:478:ILE:HG22	1:G:479:GLU:H	1.77	0.48
1:G:511:SER:HB3	1:G:645:LEU:HD21	1.94	0.48
1:G:556:SER:O	1:G:557:LYS:HB2	2.13	0.48
1:H:175:ASP:O	1:H:177:LYS:HG2	2.13	0.48
1:H:450:PRO:O	1:H:452:THR:N	2.46	0.48
1:H:462:TYR:CZ	1:H:467:PHE:HB3	2.48	0.48
1:H:900:GLU:HB2	1:H:930:HIS:CD2	2.48	0.48
1:I:538:LEU:HG	1:I:571:GLU:CD	2.33	0.48
1:J:462:TYR:CZ	1:J:467:PHE:HB3	2.48	0.48
1:K:538:LEU:HG	1:K:571:GLU:CG	2.42	0.48
1:L:175:ASP:O	1:L:177:LYS:HG2	2.13	0.48
1:L:450:PRO:O	1:L:452:THR:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:20:GLU:O	1:M:23:PHE:N	2.45	0.48
1:M:604:ASN:ND2	1:M:929:VAL:H	2.04	0.48
1:N:253:TRP:CZ3	1:N:262:ILE:HD11	2.48	0.48
1:N:337:THR:HG1	1:N:340:ASN:H	1.61	0.48
1:N:346:CYS:O	1:N:350:THR:N	2.25	0.48
1:N:863:THR:HA	1:N:907:ILE:HG13	1.94	0.48
1:O:221:ILE:HG13	1:O:222:HIS:N	2.28	0.48
1:O:462:TYR:CZ	1:O:467:PHE:HB3	2.48	0.48
1:O:988:ASP:OD1	1:O:989:SER:N	2.43	0.48
1:P:463:LEU:CD2	1:P:467:PHE:CD2	2.92	0.48
1:P:478:ILE:HG22	1:P:479:GLU:H	1.77	0.48
1:A:900:GLU:HB2	1:A:930:HIS:CD2	2.48	0.48
1:B:253:TRP:CZ3	1:B:262:ILE:HD11	2.48	0.48
1:C:408:TYR:O	1:C:411:VAL:HG22	2.14	0.48
1:D:175:ASP:O	1:D:177:LYS:HG2	2.13	0.48
1:D:900:GLU:HB2	1:D:930:HIS:CD2	2.48	0.48
1:E:504:ASP:CG	1:E:509:ASN:O	2.51	0.48
1:E:636:SER:O	1:E:637:LEU:O	2.31	0.48
1:E:946:ARG:HG3	1:E:947:GLU:N	2.28	0.48
1:F:507:ALA:N	1:F:608:ASN:HB2	2.27	0.48
1:F:946:ARG:HG3	1:F:947:GLU:N	2.28	0.48
1:G:64:THR:O	1:G:67:SER:OG	2.27	0.48
1:G:651:SER:O	1:G:654:ILE:HG23	2.12	0.48
1:H:346:CYS:O	1:H:350:THR:N	2.25	0.48
1:H:408:TYR:O	1:H:411:VAL:HG22	2.13	0.48
1:H:538:LEU:HG	1:H:571:GLU:CG	2.42	0.48
1:H:660:PHE:HZ	1:H:731:GLN:HG3	1.78	0.48
1:I:64:THR:O	1:I:67:SER:OG	2.27	0.48
1:I:443:ILE:HG21	1:I:477:ASN:ND2	2.24	0.48
1:I:946:ARG:HG3	1:I:947:GLU:N	2.28	0.48
1:J:636:SER:O	1:J:637:LEU:O	2.31	0.48
1:K:175:ASP:O	1:K:177:LYS:HG2	2.13	0.48
1:K:863:THR:HA	1:K:907:ILE:HG13	1.93	0.48
1:K:900:GLU:HB2	1:K:930:HIS:CD2	2.48	0.48
1:L:408:TYR:O	1:L:411:VAL:HG22	2.14	0.48
1:L:518:LEU:HD12	1:L:518:LEU:N	2.20	0.48
1:N:462:TYR:CZ	1:N:467:PHE:HB3	2.48	0.48
1:N:538:LEU:HG	1:N:571:GLU:CG	2.42	0.48
1:N:660:PHE:HZ	1:N:731:GLN:HG3	1.78	0.48
1:N:882:LEU:HB2	1:N:901:HIS:CE1	2.48	0.48
1:N:900:GLU:HB2	1:N:930:HIS:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:175:ASP:O	1:O:177:LYS:HG2	2.13	0.48
1:P:20:GLU:O	1:P:23:PHE:N	2.45	0.48
1:A:660:PHE:HZ	1:A:731:GLN:HG3	1.78	0.48
1:B:293:THR:O	1:B:296:GLU:N	2.40	0.48
1:B:651:SER:O	1:B:654:ILE:HG23	2.12	0.48
1:C:462:TYR:CZ	1:C:467:PHE:HB3	2.48	0.48
1:C:511:SER:HB3	1:C:645:LEU:HD21	1.94	0.48
1:C:538:LEU:HG	1:C:571:GLU:CD	2.33	0.48
1:C:538:LEU:HG	1:C:571:GLU:CG	2.42	0.48
1:C:660:PHE:HZ	1:C:731:GLN:HG3	1.78	0.48
1:C:1192:SER:OG	1:C:1208:GLU:OE2	2.28	0.48
1:D:462:TYR:CZ	1:D:467:PHE:HB3	2.48	0.48
1:E:882:LEU:HB2	1:E:901:HIS:CE1	2.48	0.48
1:G:20:GLU:O	1:G:23:PHE:N	2.45	0.48
1:G:504:ASP:CG	1:G:509:ASN:O	2.51	0.48
1:J:275:LEU:HD23	1:J:280:THR:HG21	1.94	0.48
1:J:538:LEU:HD21	1:J:573:ILE:HD11	1.94	0.48
1:J:882:LEU:HB2	1:J:901:HIS:CE1	2.48	0.48
1:J:946:ARG:HG3	1:J:947:GLU:N	2.28	0.48
1:K:462:TYR:CZ	1:K:467:PHE:HB3	2.48	0.48
1:K:538:LEU:HD21	1:K:573:ILE:HD11	1.94	0.48
1:K:636:SER:O	1:K:637:LEU:O	2.31	0.48
1:M:253:TRP:CZ3	1:M:262:ILE:HD11	2.48	0.48
1:M:293:THR:O	1:M:296:GLU:N	2.40	0.48
1:M:462:TYR:CZ	1:M:467:PHE:HB3	2.48	0.48
1:M:651:SER:O	1:M:654:ILE:HG23	2.12	0.48
1:N:463:LEU:HD22	1:N:467:PHE:HD2	1.74	0.48
1:N:1252:ALA:HB1	1:N:1256:CYS:HB2	1.95	0.48
1:O:900:GLU:HB2	1:O:930:HIS:CD2	2.48	0.48
1:P:515:LEU:HD12	1:P:517:THR:H	1.78	0.48
1:P:556:SER:O	1:P:557:LYS:HB2	2.13	0.48
1:P:651:SER:O	1:P:654:ILE:HG23	2.12	0.48
1:P:900:GLU:HB2	1:P:930:HIS:CD2	2.48	0.48
1:A:337:THR:HG1	1:A:340:ASN:H	1.62	0.48
1:A:882:LEU:HB2	1:A:901:HIS:CE1	2.48	0.48
1:B:462:TYR:CZ	1:B:467:PHE:HB3	2.48	0.48
1:B:882:LEU:HB2	1:B:901:HIS:CE1	2.48	0.48
1:C:253:TRP:CZ3	1:C:262:ILE:HD11	2.48	0.48
1:C:900:GLU:HB2	1:C:930:HIS:CD2	2.48	0.48
1:D:253:TRP:CZ3	1:D:262:ILE:HD11	2.48	0.48
1:D:538:LEU:HG	1:D:571:GLU:CG	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:LEU:HD21	1:D:573:ILE:HD11	1.94	0.48
1:D:636:SER:O	1:D:637:LEU:O	2.31	0.48
1:E:175:ASP:O	1:E:177:LYS:HG2	2.13	0.48
1:E:654:ILE:HG22	1:E:670:HIS:HD2	1.79	0.48
1:F:64:THR:O	1:F:67:SER:OG	2.27	0.48
1:F:187:ASN:HA	1:F:249:ASN:ND2	2.23	0.48
1:F:538:LEU:HG	1:F:571:GLU:CD	2.33	0.48
1:G:337:THR:C	1:G:339:ASP:H	2.16	0.48
1:G:515:LEU:HD12	1:G:517:THR:H	1.78	0.48
1:G:900:GLU:HB2	1:G:930:HIS:CD2	2.48	0.48
1:H:563:ARG:HH11	1:H:593:HIS:HA	1.77	0.48
1:H:988:ASP:OD1	1:H:989:SER:N	2.43	0.48
1:I:187:ASN:HA	1:I:249:ASN:ND2	2.23	0.48
1:I:636:SER:O	1:I:637:LEU:O	2.31	0.48
1:I:654:ILE:HG22	1:I:670:HIS:HD2	1.78	0.48
1:J:398:VAL:HG23	1:J:399:MET:N	2.28	0.48
1:J:654:ILE:HG22	1:J:670:HIS:HD2	1.78	0.48
1:K:1252:ALA:HB1	1:K:1256:CYS:HB2	1.95	0.48
1:L:221:ILE:HG13	1:L:222:HIS:N	2.28	0.48
1:L:511:SER:HB3	1:L:645:LEU:HD21	1.94	0.48
1:L:882:LEU:HB2	1:L:901:HIS:CE1	2.48	0.48
1:M:337:THR:HG1	1:M:340:ASN:H	1.61	0.48
1:M:882:LEU:HB2	1:M:901:HIS:CE1	2.48	0.48
1:N:946:ARG:HG3	1:N:947:GLU:N	2.28	0.48
1:O:253:TRP:CZ3	1:O:264:LEU:HD11	2.48	0.48
1:O:408:TYR:O	1:O:411:VAL:HG22	2.14	0.48
1:O:538:LEU:HG	1:O:571:GLU:CG	2.42	0.48
1:O:563:ARG:HH11	1:O:593:HIS:HA	1.77	0.48
1:O:660:PHE:HZ	1:O:731:GLN:HG3	1.78	0.48
1:P:504:ASP:CG	1:P:509:ASN:O	2.51	0.48
1:A:946:ARG:HG3	1:A:947:GLU:N	2.28	0.48
1:B:324:LEU:HD12	1:B:324:LEU:HA	1.61	0.48
1:B:337:THR:HG1	1:B:340:ASN:H	1.61	0.48
1:B:515:LEU:HD12	1:B:517:THR:H	1.78	0.48
1:C:450:PRO:O	1:C:452:THR:N	2.46	0.48
1:D:408:TYR:O	1:D:411:VAL:HG22	2.14	0.48
1:D:1252:ALA:HB1	1:D:1256:CYS:HB2	1.94	0.48
1:E:275:LEU:HD23	1:E:280:THR:HG21	1.93	0.48
1:E:398:VAL:HG23	1:E:399:MET:N	2.28	0.48
1:E:515:LEU:HD12	1:E:517:THR:H	1.78	0.48
1:E:538:LEU:HD21	1:E:573:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:654:ILE:HG22	1:F:670:HIS:HD2	1.79	0.48
1:G:499:GLN:HG3	1:G:502:ARG:HB2	1.96	0.48
1:G:641:ASP:OD1	1:G:642:THR:N	2.45	0.48
1:H:247:VAL:HG21	1:H:264:LEU:HD22	1.96	0.48
1:H:253:TRP:CZ3	1:H:264:LEU:HD11	2.49	0.48
1:I:515:LEU:HD12	1:I:517:THR:H	1.78	0.48
1:J:175:ASP:O	1:J:177:LYS:HG2	2.13	0.48
1:J:515:LEU:HD12	1:J:517:THR:H	1.78	0.48
1:L:462:TYR:CZ	1:L:467:PHE:HB3	2.48	0.48
1:L:900:GLU:HB2	1:L:930:HIS:CD2	2.48	0.48
1:M:175:ASP:O	1:M:177:LYS:HG2	2.13	0.48
1:M:324:LEU:HD12	1:M:324:LEU:HA	1.61	0.48
1:N:221:ILE:HG13	1:N:222:HIS:N	2.28	0.48
1:N:538:LEU:HD21	1:N:573:ILE:HD11	1.94	0.48
1:O:499:GLN:HG3	1:O:502:ARG:HB2	1.96	0.48
1:P:337:THR:C	1:P:339:ASP:H	2.16	0.48
1:P:499:GLN:HG3	1:P:502:ARG:HB2	1.96	0.48
1:A:463:LEU:HD22	1:A:467:PHE:HD2	1.74	0.48
1:C:499:GLN:HG3	1:C:502:ARG:HB2	1.96	0.48
1:D:373:SER:CB	1:D:433:LEU:CD1	2.73	0.48
1:E:293:THR:O	1:E:296:GLU:N	2.40	0.48
1:E:450:PRO:O	1:E:452:THR:N	2.46	0.48
1:E:511:SER:HB3	1:E:645:LEU:HD21	1.95	0.48
1:F:636:SER:O	1:F:637:LEU:O	2.31	0.48
1:F:965:LEU:HD11	1:F:993:ILE:HG12	1.96	0.48
1:G:347:ASP:OD1	1:G:348:LYS:N	2.37	0.48
1:H:499:GLN:HG3	1:H:502:ARG:HB2	1.96	0.48
1:K:253:TRP:CZ3	1:K:262:ILE:HD11	2.48	0.48
1:K:408:TYR:O	1:K:411:VAL:HG22	2.14	0.48
1:K:556:SER:O	1:K:557:LYS:HB2	2.13	0.48
1:K:875:LEU:CD1	1:K:911:PHE:HD2	2.07	0.48
1:L:538:LEU:HG	1:L:571:GLU:CG	2.42	0.48
1:M:515:LEU:HD12	1:M:517:THR:H	1.78	0.48
1:M:654:ILE:HG22	1:M:670:HIS:HD2	1.78	0.48
1:O:247:VAL:HG21	1:O:264:LEU:HD22	1.96	0.48
1:P:347:ASP:OD1	1:P:348:LYS:N	2.37	0.48
1:P:463:LEU:HD22	1:P:467:PHE:HD2	1.74	0.48
1:P:641:ASP:OD1	1:P:642:THR:N	2.45	0.48
1:P:965:LEU:HD11	1:P:993:ILE:HG12	1.96	0.48
1:A:90:SER:OG	1:A:91:PRO:HD3	2.14	0.48
1:A:221:ILE:HG13	1:A:222:HIS:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:ASP:O	1:B:177:LYS:HG2	2.13	0.48
1:B:253:TRP:CZ3	1:B:264:LEU:HD11	2.49	0.48
1:B:408:TYR:O	1:B:411:VAL:HG22	2.14	0.48
1:B:654:ILE:HG22	1:B:670:HIS:HD2	1.78	0.48
1:C:221:ILE:HG13	1:C:222:HIS:N	2.28	0.48
1:C:882:LEU:HB2	1:C:901:HIS:CE1	2.48	0.48
1:D:556:SER:O	1:D:557:LYS:HB2	2.13	0.48
1:D:654:ILE:HG22	1:D:670:HIS:HD2	1.78	0.48
1:E:253:TRP:CZ3	1:E:262:ILE:HD11	2.48	0.48
1:E:458:LEU:CG	1:E:587:ARG:NH2	2.74	0.48
1:F:383:THR:O	1:F:386:LEU:HB3	2.14	0.48
1:F:499:GLN:HG3	1:F:502:ARG:HB2	1.96	0.48
1:G:965:LEU:HD11	1:G:993:ILE:HG12	1.96	0.48
1:I:317:LEU:O	1:I:318:THR:CB	2.61	0.48
1:I:346:CYS:O	1:I:350:THR:N	2.25	0.48
1:I:383:THR:O	1:I:386:LEU:HB3	2.14	0.48
1:J:293:THR:O	1:J:296:GLU:N	2.40	0.48
1:J:450:PRO:O	1:J:452:THR:N	2.46	0.48
1:J:511:SER:HB3	1:J:645:LEU:HD21	1.95	0.48
1:K:398:VAL:HG23	1:K:399:MET:N	2.28	0.48
1:L:187:ASN:HA	1:L:249:ASN:ND2	2.24	0.48
1:L:253:TRP:CZ3	1:L:262:ILE:HD11	2.48	0.48
1:L:499:GLN:HG3	1:L:502:ARG:HB2	1.96	0.48
1:L:636:SER:O	1:L:637:LEU:O	2.31	0.48
1:L:660:PHE:HZ	1:L:731:GLN:HG3	1.78	0.48
1:M:247:VAL:HG21	1:M:264:LEU:HD22	1.96	0.48
1:M:408:TYR:O	1:M:411:VAL:HG22	2.14	0.48
1:N:90:SER:OG	1:N:91:PRO:HD3	2.14	0.48
1:N:337:THR:C	1:N:339:ASP:H	2.16	0.48
1:N:499:GLN:HG3	1:N:502:ARG:HB2	1.96	0.48
1:O:346:CYS:O	1:O:350:THR:N	2.25	0.48
1:P:337:THR:HG1	1:P:340:ASN:H	1.61	0.48
1:A:175:ASP:O	1:A:177:LYS:HG2	2.13	0.48
1:A:499:GLN:HG3	1:A:502:ARG:HB2	1.96	0.48
1:B:247:VAL:HG21	1:B:264:LEU:HD22	1.96	0.48
1:B:499:GLN:HG3	1:B:502:ARG:HB2	1.96	0.48
1:B:511:SER:HB3	1:B:645:LEU:HD21	1.95	0.48
1:B:538:LEU:HG	1:B:571:GLU:CD	2.33	0.48
1:B:900:GLU:HB2	1:B:930:HIS:CD2	2.48	0.48
1:C:337:THR:C	1:C:339:ASP:H	2.16	0.48
1:C:538:LEU:HD21	1:C:573:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:654:ILE:HG22	1:C:670:HIS:HD2	1.78	0.48
1:D:499:GLN:HG3	1:D:502:ARG:HB2	1.96	0.48
1:D:875:LEU:CD1	1:D:911:PHE:HD2	2.07	0.48
1:E:121:ALA:CB	1:F:276:SER:CB	2.79	0.48
1:E:408:TYR:O	1:E:411:VAL:HG22	2.14	0.48
1:F:90:SER:OG	1:F:91:PRO:HD3	2.14	0.48
1:F:247:VAL:HG21	1:F:264:LEU:HD22	1.96	0.48
1:F:398:VAL:HG23	1:F:399:MET:N	2.28	0.48
1:F:463:LEU:HD22	1:F:467:PHE:HD2	1.74	0.48
1:F:511:SER:HB3	1:F:645:LEU:HD21	1.94	0.48
1:G:1252:ALA:HB1	1:G:1256:CYS:HB2	1.94	0.48
1:I:398:VAL:HG23	1:I:399:MET:N	2.28	0.48
1:J:408:TYR:O	1:J:411:VAL:HG22	2.14	0.48
1:K:499:GLN:HG3	1:K:502:ARG:HB2	1.96	0.48
1:K:511:SER:HB3	1:K:645:LEU:HD21	1.94	0.48
1:K:654:ILE:HG22	1:K:670:HIS:HD2	1.78	0.48
1:L:337:THR:HG1	1:L:340:ASN:H	1.62	0.48
1:M:253:TRP:CZ3	1:M:264:LEU:HD11	2.49	0.48
1:M:511:SER:HB3	1:M:645:LEU:HD21	1.94	0.48
1:M:538:LEU:HG	1:M:571:GLU:CD	2.33	0.48
1:M:900:GLU:HB2	1:M:930:HIS:CD2	2.48	0.48
1:N:398:VAL:HG23	1:N:399:MET:N	2.28	0.48
1:P:408:TYR:O	1:P:411:VAL:HG22	2.14	0.48
1:P:1252:ALA:HB1	1:P:1256:CYS:HB2	1.94	0.48
1:A:253:TRP:CZ3	1:A:264:LEU:HD11	2.48	0.48
1:A:337:THR:C	1:A:339:ASP:H	2.16	0.48
1:A:398:VAL:HG23	1:A:399:MET:N	2.28	0.48
1:A:538:LEU:HD21	1:A:573:ILE:HD11	1.94	0.48
1:A:552:ASN:HB3	1:A:1226:TYR:CE1	2.48	0.48
1:B:337:THR:C	1:B:339:ASP:H	2.16	0.48
1:B:392:ASP:OD1	1:B:393:VAL:N	2.47	0.48
1:C:253:TRP:CZ3	1:C:264:LEU:HD11	2.49	0.48
1:C:337:THR:HG1	1:C:340:ASN:H	1.62	0.48
1:D:130:PRO:HA	1:D:290:MET:HE3	1.95	0.48
1:D:317:LEU:O	1:D:318:THR:CB	2.61	0.48
1:D:511:SER:HB3	1:D:645:LEU:HD21	1.95	0.48
1:E:463:LEU:CD2	1:E:467:PHE:CD2	2.92	0.48
1:E:510:ALA:HB1	1:E:515:LEU:HA	1.96	0.48
1:E:604:ASN:ND2	1:E:929:VAL:H	2.04	0.48
1:E:900:GLU:HB2	1:E:930:HIS:CD2	2.48	0.48
1:F:317:LEU:O	1:F:318:THR:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:510:ALA:HB1	1:F:515:LEU:HA	1.96	0.48
1:F:515:LEU:HD12	1:F:517:THR:H	1.78	0.48
1:G:383:THR:O	1:G:386:LEU:HB3	2.14	0.48
1:G:408:TYR:O	1:G:411:VAL:HG22	2.14	0.48
1:G:463:LEU:HD22	1:G:467:PHE:HD2	1.74	0.48
1:H:383:THR:O	1:H:386:LEU:HB3	2.14	0.48
1:I:90:SER:OG	1:I:91:PRO:HD3	2.14	0.48
1:I:499:GLN:HG3	1:I:502:ARG:HB2	1.96	0.48
1:I:965:LEU:HD11	1:I:993:ILE:HG12	1.96	0.48
1:J:253:TRP:CZ3	1:J:262:ILE:HD11	2.48	0.48
1:J:458:LEU:CG	1:J:587:ARG:NH2	2.74	0.48
1:J:510:ALA:HB1	1:J:515:LEU:HA	1.96	0.48
1:J:604:ASN:ND2	1:J:929:VAL:H	2.04	0.48
1:J:900:GLU:HB2	1:J:930:HIS:CD2	2.48	0.48
1:J:965:LEU:HD11	1:J:993:ILE:HG12	1.96	0.48
1:K:130:PRO:HA	1:K:290:MET:HE3	1.95	0.48
1:K:317:LEU:O	1:K:318:THR:CB	2.61	0.48
1:K:538:LEU:HG	1:K:571:GLU:CD	2.33	0.48
1:L:180:TRP:O	1:L:181:LEU:HD12	2.14	0.48
1:L:654:ILE:HG22	1:L:670:HIS:HD2	1.79	0.48
1:M:90:SER:OG	1:M:91:PRO:HD3	2.14	0.48
1:M:337:THR:C	1:M:339:ASP:H	2.16	0.48
1:M:499:GLN:HG3	1:M:502:ARG:HB2	1.96	0.48
1:N:253:TRP:CZ3	1:N:264:LEU:HD11	2.49	0.48
1:N:552:ASN:HB3	1:N:1226:TYR:CE1	2.48	0.48
1:N:654:ILE:HG22	1:N:670:HIS:HD2	1.78	0.48
1:O:337:THR:C	1:O:339:ASP:H	2.16	0.48
1:O:383:THR:O	1:O:386:LEU:HB3	2.14	0.48
1:O:965:LEU:HD11	1:O:993:ILE:HG12	1.96	0.48
1:P:383:THR:O	1:P:386:LEU:HB3	2.14	0.48
1:A:198:LYS:NZ	1:B:222:HIS:CG	2.81	0.48
1:A:502:ARG:HD3	1:A:516:ASN:HA	1.96	0.48
1:A:654:ILE:HG22	1:A:670:HIS:HD2	1.78	0.48
1:B:90:SER:OG	1:B:91:PRO:HD3	2.14	0.48
1:B:441:ARG:O	1:B:445:ASP:HB3	2.14	0.48
1:B:504:ASP:CG	1:B:509:ASN:O	2.51	0.48
1:C:180:TRP:O	1:C:181:LEU:HD12	2.14	0.48
1:C:247:VAL:HG21	1:C:264:LEU:HD22	1.96	0.48
1:C:383:THR:O	1:C:386:LEU:HB3	2.14	0.48
1:C:441:ARG:O	1:C:445:ASP:HB3	2.14	0.48
1:C:556:SER:O	1:C:557:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:604:ASN:ND2	1:C:928:VAL:HB	2.29	0.48
1:D:180:TRP:O	1:D:181:LEU:HD12	2.14	0.48
1:D:398:VAL:HG23	1:D:399:MET:N	2.28	0.48
1:D:447:TYR:O	1:D:447:TYR:CG	2.67	0.48
1:D:538:LEU:HG	1:D:571:GLU:CD	2.33	0.48
1:E:180:TRP:O	1:E:181:LEU:HD12	2.14	0.48
1:E:965:LEU:HD11	1:E:993:ILE:HG12	1.96	0.48
1:G:130:PRO:HA	1:G:290:MET:HE3	1.95	0.48
1:H:337:THR:C	1:H:339:ASP:H	2.16	0.48
1:I:11:GLN:O	1:I:14:ASP:N	2.46	0.48
1:I:247:VAL:HG21	1:I:264:LEU:HD22	1.96	0.48
1:I:510:ALA:HB1	1:I:515:LEU:HA	1.96	0.48
1:J:382:PRO:HA	1:J:419:THR:CG2	2.36	0.48
1:K:247:VAL:HG21	1:K:264:LEU:HD22	1.96	0.48
1:K:337:THR:HG1	1:K:340:ASN:H	1.62	0.48
1:K:441:ARG:O	1:K:445:ASP:HB3	2.14	0.48
1:K:447:TYR:O	1:K:447:TYR:CG	2.67	0.48
1:L:441:ARG:O	1:L:445:ASP:HB3	2.14	0.48
1:L:447:TYR:O	1:L:447:TYR:CG	2.67	0.48
1:L:538:LEU:HD21	1:L:573:ILE:HD11	1.94	0.48
1:L:604:ASN:ND2	1:L:928:VAL:HB	2.29	0.48
1:M:441:ARG:O	1:M:445:ASP:HB3	2.14	0.48
1:N:64:THR:O	1:N:67:SER:OG	2.27	0.48
1:N:175:ASP:O	1:N:177:LYS:HG2	2.13	0.48
1:N:502:ARG:HD3	1:N:516:ASN:HA	1.96	0.48
1:P:510:ALA:HB1	1:P:515:LEU:HA	1.96	0.48
1:A:463:LEU:CD2	1:A:467:PHE:CD2	2.92	0.47
1:A:965:LEU:HD11	1:A:993:ILE:HG12	1.96	0.47
1:B:194:GLU:OE2	1:C:216:ASN:ND2	2.47	0.47
1:B:478:ILE:HG22	1:B:479:GLU:N	2.29	0.47
1:C:447:TYR:O	1:C:447:TYR:CG	2.67	0.47
1:C:636:SER:O	1:C:637:LEU:O	2.31	0.47
1:D:441:ARG:O	1:D:445:ASP:HB3	2.14	0.47
1:E:117:ASN:O	1:E:119:VAL:N	2.47	0.47
1:E:434:GLU:C	1:E:436:GLU:H	2.18	0.47
1:E:478:ILE:HG22	1:E:479:GLU:N	2.29	0.47
1:F:253:TRP:CZ3	1:F:262:ILE:HD11	2.48	0.47
1:G:510:ALA:HB1	1:G:515:LEU:HA	1.96	0.47
1:G:654:ILE:HG22	1:G:670:HIS:HD2	1.78	0.47
1:H:253:TRP:CZ3	1:H:262:ILE:HD11	2.48	0.47
1:H:965:LEU:HD11	1:H:993:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:253:TRP:CZ3	1:I:262:ILE:HD11	2.48	0.47
1:J:117:ASN:O	1:J:119:VAL:N	2.47	0.47
1:J:180:TRP:O	1:J:181:LEU:HD12	2.14	0.47
1:J:556:SER:O	1:J:557:LYS:HB2	2.13	0.47
1:K:180:TRP:O	1:K:181:LEU:HD12	2.14	0.47
1:K:373:SER:CB	1:K:433:LEU:CD1	2.73	0.47
1:L:247:VAL:HG21	1:L:264:LEU:HD22	1.96	0.47
1:L:253:TRP:CZ3	1:L:264:LEU:HD11	2.49	0.47
1:N:965:LEU:HD11	1:N:993:ILE:HG12	1.96	0.47
1:O:11:GLN:O	1:O:14:ASP:N	2.46	0.47
1:O:1192:SER:OG	1:O:1208:GLU:OE2	2.28	0.47
1:O:1252:ALA:HB1	1:O:1256:CYS:HB2	1.94	0.47
1:P:130:PRO:HA	1:P:290:MET:HE3	1.95	0.47
1:P:604:ASN:ND2	1:P:928:VAL:HB	2.29	0.47
1:P:654:ILE:HG22	1:P:670:HIS:HD2	1.78	0.47
1:A:117:ASN:O	1:A:119:VAL:N	2.47	0.47
1:A:604:ASN:ND2	1:A:928:VAL:HB	2.29	0.47
1:A:638:GLU:OE1	1:A:640:GLU:N	2.42	0.47
1:B:117:ASN:O	1:B:119:VAL:N	2.47	0.47
1:B:180:TRP:O	1:B:181:LEU:HD12	2.14	0.47
1:C:365:TYR:OH	1:C:404:LYS:HG2	2.15	0.47
1:D:247:VAL:HG21	1:D:264:LEU:HD22	1.96	0.47
1:D:376:PRO:HG3	1:D:473:HIS:CD2	2.49	0.47
1:D:496:PHE:HE2	1:D:555:CYS:HG	1.58	0.47
1:D:552:ASN:HB3	1:D:1226:TYR:CE1	2.48	0.47
1:D:875:LEU:CD2	1:D:911:PHE:CE2	2.97	0.47
1:E:247:VAL:HG21	1:E:264:LEU:HD22	1.96	0.47
1:E:382:PRO:HA	1:E:419:THR:CG2	2.36	0.47
1:E:441:ARG:O	1:E:445:ASP:HB3	2.14	0.47
1:E:453:PHE:CE2	1:E:460:PRO:HB3	2.49	0.47
1:E:556:SER:O	1:E:557:LYS:HB2	2.13	0.47
1:E:875:LEU:CD2	1:E:911:PHE:CE2	2.97	0.47
1:F:376:PRO:HG3	1:F:473:HIS:CD2	2.49	0.47
1:F:408:TYR:O	1:F:411:VAL:HG22	2.14	0.47
1:F:462:TYR:OH	1:F:494:PHE:CZ	2.66	0.47
1:G:253:TRP:CZ3	1:G:262:ILE:HD11	2.48	0.47
1:G:462:TYR:OH	1:G:494:PHE:CZ	2.66	0.47
1:G:502:ARG:HD3	1:G:516:ASN:HA	1.96	0.47
1:G:602:ILE:HD12	1:G:900:GLU:HG2	1.96	0.47
1:G:604:ASN:ND2	1:G:928:VAL:HB	2.29	0.47
1:H:478:ILE:HG22	1:H:479:GLU:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:511:SER:C	1:H:513:SER:N	2.60	0.47
1:H:554:ILE:O	1:H:556:SER:N	2.45	0.47
1:H:1252:ALA:HB1	1:H:1256:CYS:HB2	1.94	0.47
1:I:180:TRP:O	1:I:181:LEU:HD12	2.14	0.47
1:I:511:SER:HB3	1:I:645:LEU:HD21	1.95	0.47
1:J:434:GLU:C	1:J:436:GLU:H	2.18	0.47
1:J:441:ARG:O	1:J:445:ASP:HB3	2.14	0.47
1:J:453:PHE:CE2	1:J:460:PRO:HB3	2.49	0.47
1:J:478:ILE:HG22	1:J:479:GLU:N	2.30	0.47
1:J:875:LEU:CD2	1:J:911:PHE:CE2	2.97	0.47
1:K:337:THR:C	1:K:339:ASP:H	2.16	0.47
1:K:376:PRO:HG3	1:K:473:HIS:CD2	2.49	0.47
1:K:875:LEU:CD2	1:K:911:PHE:CE2	2.97	0.47
1:L:337:THR:C	1:L:339:ASP:H	2.16	0.47
1:L:602:ILE:HD12	1:L:900:GLU:HG2	1.97	0.47
1:M:180:TRP:O	1:M:181:LEU:HD12	2.14	0.47
1:M:187:ASN:HA	1:M:249:ASN:ND2	2.24	0.47
1:M:478:ILE:HG22	1:M:479:GLU:N	2.30	0.47
1:M:504:ASP:CG	1:M:509:ASN:O	2.51	0.47
1:N:463:LEU:CD2	1:N:467:PHE:CD2	2.92	0.47
1:N:604:ASN:ND2	1:N:928:VAL:HB	2.29	0.47
1:O:253:TRP:CZ3	1:O:262:ILE:HD11	2.48	0.47
1:O:511:SER:C	1:O:513:SER:N	2.61	0.47
1:O:1177:TYR:CE2	1:P:916:LYS:CE	2.97	0.47
1:P:253:TRP:CZ3	1:P:262:ILE:HD11	2.48	0.47
1:P:602:ILE:HD12	1:P:900:GLU:HG2	1.97	0.47
1:A:64:THR:O	1:A:67:SER:OG	2.27	0.47
1:B:365:TYR:OH	1:B:404:LYS:HG2	2.15	0.47
1:B:447:TYR:O	1:B:447:TYR:CG	2.67	0.47
1:C:90:SER:OG	1:C:91:PRO:HD3	2.14	0.47
1:C:187:ASN:HA	1:C:249:ASN:ND2	2.24	0.47
1:C:502:ARG:HD3	1:C:516:ASN:HA	1.96	0.47
1:D:510:ALA:HB1	1:D:515:LEU:HA	1.96	0.47
1:E:447:TYR:O	1:E:447:TYR:CG	2.67	0.47
1:F:180:TRP:O	1:F:181:LEU:HD12	2.14	0.47
1:F:337:THR:HG1	1:F:340:ASN:H	1.62	0.47
1:F:604:ASN:ND2	1:F:928:VAL:HB	2.29	0.47
1:G:11:GLN:O	1:G:14:ASP:N	2.46	0.47
1:G:253:TRP:CZ3	1:G:264:LEU:HD11	2.49	0.47
1:G:552:ASN:HB3	1:G:1226:TYR:CE1	2.48	0.47
1:H:11:GLN:O	1:H:14:ASP:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:122:LYS:O	1:I:303:LYS:NZ	2.38	0.47
1:I:376:PRO:HG3	1:I:473:HIS:CD2	2.50	0.47
1:I:408:TYR:O	1:I:411:VAL:HG22	2.13	0.47
1:I:463:LEU:HD22	1:I:467:PHE:HD2	1.74	0.47
1:I:875:LEU:CD2	1:I:911:PHE:CE2	2.97	0.47
1:J:499:GLN:HG3	1:J:502:ARG:HB2	1.96	0.47
1:J:602:ILE:HD12	1:J:900:GLU:HG2	1.97	0.47
1:K:496:PHE:HE2	1:K:555:CYS:HG	1.58	0.47
1:K:965:LEU:HD11	1:K:993:ILE:HG12	1.96	0.47
1:L:365:TYR:OH	1:L:404:LYS:HG2	2.15	0.47
1:L:383:THR:O	1:L:386:LEU:HB3	2.14	0.47
1:L:483:ARG:O	1:L:486:LEU:N	2.48	0.47
1:M:117:ASN:O	1:M:119:VAL:N	2.48	0.47
1:M:447:TYR:O	1:M:447:TYR:CG	2.67	0.47
1:N:117:ASN:O	1:N:119:VAL:N	2.47	0.47
1:N:434:GLU:C	1:N:436:GLU:H	2.18	0.47
1:O:324:LEU:HD12	1:O:324:LEU:HA	1.61	0.47
1:O:554:ILE:O	1:O:556:SER:N	2.45	0.47
1:P:11:GLN:O	1:P:14:ASP:N	2.46	0.47
1:P:253:TRP:CZ3	1:P:264:LEU:HD11	2.49	0.47
1:A:376:PRO:HG3	1:A:473:HIS:CD2	2.50	0.47
1:A:434:GLU:C	1:A:436:GLU:H	2.18	0.47
1:A:443:ILE:HG21	1:A:477:ASN:ND2	2.24	0.47
1:A:875:LEU:CD2	1:A:911:PHE:CE2	2.97	0.47
1:B:187:ASN:HA	1:B:249:ASN:ND2	2.24	0.47
1:C:198:LYS:HZ1	1:D:222:HIS:CG	2.32	0.47
1:C:483:ARG:O	1:C:486:LEU:N	2.48	0.47
1:C:523:PHE:HD1	1:C:527:TYR:CE2	2.28	0.47
1:C:602:ILE:HD12	1:C:900:GLU:HG2	1.97	0.47
1:D:90:SER:OG	1:D:91:PRO:HD3	2.14	0.47
1:D:122:LYS:O	1:D:303:LYS:NZ	2.38	0.47
1:D:965:LEU:HD11	1:D:993:ILE:HG12	1.96	0.47
1:E:90:SER:OG	1:E:91:PRO:HD3	2.14	0.47
1:E:499:GLN:HG3	1:E:502:ARG:HB2	1.96	0.47
1:E:602:ILE:HD12	1:E:900:GLU:HG2	1.97	0.47
1:F:451:LYS:CD	1:F:486:LEU:HD21	2.33	0.47
1:F:875:LEU:CD2	1:F:911:PHE:CE2	2.97	0.47
1:I:462:TYR:OH	1:I:494:PHE:CZ	2.66	0.47
1:I:1252:ALA:HB1	1:I:1256:CYS:HB2	1.94	0.47
1:J:247:VAL:HG21	1:J:264:LEU:HD22	1.96	0.47
1:J:447:TYR:O	1:J:447:TYR:CG	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:463:LEU:CD2	1:J:467:PHE:CD2	2.92	0.47
1:K:510:ALA:HB1	1:K:515:LEU:HA	1.96	0.47
1:M:365:TYR:OH	1:M:404:LYS:HG2	2.15	0.47
1:N:376:PRO:HG3	1:N:473:HIS:CD2	2.49	0.47
1:N:523:PHE:HD1	1:N:527:TYR:CE2	2.28	0.47
1:N:875:LEU:CD2	1:N:911:PHE:CE2	2.97	0.47
1:O:478:ILE:HG22	1:O:479:GLU:N	2.30	0.47
1:P:90:SER:OG	1:P:91:PRO:HD3	2.14	0.47
1:P:502:ARG:HD3	1:P:516:ASN:HA	1.96	0.47
1:P:552:ASN:HB3	1:P:1226:TYR:CE1	2.48	0.47
1:A:383:THR:O	1:A:386:LEU:HB3	2.14	0.47
1:A:408:TYR:O	1:A:411:VAL:HG22	2.14	0.47
1:B:636:SER:O	1:B:637:LEU:O	2.31	0.47
1:B:965:LEU:HD11	1:B:993:ILE:HG12	1.96	0.47
1:C:152:VAL:O	1:C:155:SER:OG	2.29	0.47
1:C:478:ILE:HG22	1:C:479:GLU:N	2.29	0.47
1:D:337:THR:C	1:D:339:ASP:H	2.16	0.47
1:E:483:ARG:O	1:E:486:LEU:N	2.48	0.47
1:F:11:GLN:O	1:F:14:ASP:N	2.46	0.47
1:F:253:TRP:CZ3	1:F:264:LEU:HD11	2.49	0.47
1:F:365:TYR:OH	1:F:404:LYS:HG2	2.15	0.47
1:F:483:ARG:O	1:F:486:LEU:N	2.48	0.47
1:F:1252:ALA:HB1	1:F:1256:CYS:HB2	1.95	0.47
1:G:90:SER:OG	1:G:91:PRO:HD3	2.14	0.47
1:G:636:SER:O	1:G:637:LEU:O	2.31	0.47
1:H:510:ALA:HB1	1:H:515:LEU:HA	1.96	0.47
1:H:875:LEU:CD2	1:H:911:PHE:CE2	2.97	0.47
1:H:1192:SER:OG	1:H:1208:GLU:OE2	2.28	0.47
1:I:478:ILE:HG22	1:I:479:GLU:N	2.29	0.47
1:I:604:ASN:ND2	1:I:928:VAL:HB	2.29	0.47
1:J:483:ARG:O	1:J:486:LEU:N	2.48	0.47
1:J:604:ASN:ND2	1:J:928:VAL:HB	2.29	0.47
1:J:988:ASP:OD1	1:J:989:SER:N	2.43	0.47
1:K:552:ASN:HB3	1:K:1226:TYR:CE1	2.48	0.47
1:L:392:ASP:OD1	1:L:393:VAL:N	2.47	0.47
1:L:502:ARG:HD3	1:L:516:ASN:HA	1.96	0.47
1:L:556:SER:O	1:L:557:LYS:HB2	2.13	0.47
1:L:965:LEU:HD11	1:L:993:ILE:HG12	1.96	0.47
1:M:636:SER:O	1:M:637:LEU:O	2.31	0.47
1:M:875:LEU:CD2	1:M:911:PHE:CE2	2.97	0.47
1:M:965:LEU:HD11	1:M:993:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:365:TYR:OH	1:N:404:LYS:HG2	2.15	0.47
1:N:383:THR:O	1:N:386:LEU:HB3	2.14	0.47
1:O:434:GLU:C	1:O:436:GLU:H	2.18	0.47
1:O:636:SER:O	1:O:637:LEU:O	2.31	0.47
1:P:636:SER:O	1:P:637:LEU:O	2.31	0.47
1:A:365:TYR:OH	1:A:404:LYS:HG2	2.15	0.47
1:A:604:ASN:ND2	1:A:929:VAL:H	2.04	0.47
1:A:916:LYS:HE2	1:B:1177:TYR:CE2	2.47	0.47
1:B:383:THR:O	1:B:386:LEU:HB3	2.14	0.47
1:B:615:TYR:CD1	1:B:622:LEU:HD13	2.50	0.47
1:B:875:LEU:CD2	1:B:911:PHE:CE2	2.97	0.47
1:C:965:LEU:HD11	1:C:993:ILE:HG12	1.96	0.47
1:D:352:ILE:O	1:D:356:SER:OG	2.29	0.47
1:D:434:GLU:C	1:D:436:GLU:H	2.18	0.47
1:E:383:THR:O	1:E:386:LEU:HB3	2.14	0.47
1:E:463:LEU:HD22	1:E:467:PHE:HD2	1.74	0.47
1:E:604:ASN:ND2	1:E:928:VAL:HB	2.29	0.47
1:F:615:TYR:CD1	1:F:622:LEU:HD13	2.50	0.47
1:G:615:TYR:CD1	1:G:622:LEU:HD13	2.50	0.47
1:H:434:GLU:C	1:H:436:GLU:H	2.18	0.47
1:H:636:SER:O	1:H:637:LEU:O	2.31	0.47
1:H:811:ASP:OD1	1:H:812:THR:N	2.47	0.47
1:I:483:ARG:O	1:I:486:LEU:N	2.48	0.47
1:I:900:GLU:HB2	1:I:930:HIS:CD2	2.48	0.47
1:J:90:SER:OG	1:J:91:PRO:HD3	2.14	0.47
1:J:463:LEU:HD22	1:J:467:PHE:HD2	1.74	0.47
1:K:90:SER:OG	1:K:91:PRO:HD3	2.14	0.47
1:L:90:SER:OG	1:L:91:PRO:HD3	2.14	0.47
1:L:170:VAL:O	1:L:173:LYS:N	2.48	0.47
1:L:478:ILE:HG22	1:L:479:GLU:N	2.29	0.47
1:M:615:TYR:CD1	1:M:622:LEU:HD13	2.50	0.47
1:N:408:TYR:O	1:N:411:VAL:HG22	2.14	0.47
1:N:638:GLU:OE1	1:N:640:GLU:N	2.42	0.47
1:O:376:PRO:HG3	1:O:473:HIS:CD2	2.49	0.47
1:O:811:ASP:OD1	1:O:812:THR:N	2.46	0.47
1:O:875:LEU:CD2	1:O:911:PHE:CE2	2.97	0.47
1:P:615:TYR:CD1	1:P:622:LEU:HD13	2.50	0.47
1:A:198:LYS:HZ1	1:B:222:HIS:CG	2.32	0.47
1:A:222:HIS:CG	1:H:198:LYS:HZ1	2.32	0.47
1:A:336:ALA:C	1:A:338:TRP:H	2.17	0.47
1:A:441:ARG:O	1:A:445:ASP:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:TYR:O	1:A:447:TYR:CG	2.67	0.47
1:A:523:PHE:HD1	1:A:527:TYR:CE2	2.28	0.47
1:A:602:ILE:HD12	1:A:900:GLU:HG2	1.97	0.47
1:A:615:TYR:CD1	1:A:622:LEU:HD13	2.50	0.47
1:A:636:SER:O	1:A:637:LEU:O	2.31	0.47
1:B:376:PRO:HG3	1:B:473:HIS:CD2	2.49	0.47
1:B:1074:HIS:O	1:B:1075:SER:OG	2.33	0.47
1:C:115:ASN:HB3	1:D:257:ASN:OD1	2.14	0.47
1:C:117:ASN:O	1:C:119:VAL:N	2.47	0.47
1:C:170:VAL:O	1:C:173:LYS:N	2.48	0.47
1:C:392:ASP:OD1	1:C:393:VAL:N	2.47	0.47
1:D:117:ASN:O	1:D:119:VAL:N	2.47	0.47
1:D:253:TRP:CZ3	1:D:264:LEU:HD11	2.49	0.47
1:D:337:THR:HG1	1:D:340:ASN:H	1.63	0.47
1:D:483:ARG:O	1:D:486:LEU:N	2.48	0.47
1:D:604:ASN:ND2	1:D:928:VAL:HB	2.29	0.47
1:E:170:VAL:O	1:E:173:LYS:N	2.48	0.47
1:E:209:SER:OG	1:F:212:ASP:CG	2.48	0.47
1:E:554:ILE:O	1:E:556:SER:N	2.45	0.47
1:E:988:ASP:OD1	1:E:989:SER:N	2.43	0.47
1:F:170:VAL:O	1:F:173:LYS:N	2.48	0.47
1:F:441:ARG:O	1:F:445:ASP:HB3	2.14	0.47
1:F:478:ILE:HG22	1:F:479:GLU:N	2.30	0.47
1:F:556:SER:O	1:F:557:LYS:HB2	2.13	0.47
1:F:900:GLU:HB2	1:F:930:HIS:CD2	2.48	0.47
1:G:117:ASN:O	1:G:118:GLN:C	2.53	0.47
1:G:117:ASN:O	1:G:119:VAL:N	2.47	0.47
1:G:331:ILE:HG21	1:G:338:TRP:HB2	1.97	0.47
1:G:346:CYS:O	1:G:350:THR:N	2.25	0.47
1:G:441:ARG:O	1:G:445:ASP:HB3	2.14	0.47
1:G:483:ARG:O	1:G:486:LEU:N	2.48	0.47
1:G:537:ARG:HA	1:G:540:ASN:HB2	1.97	0.47
1:G:875:LEU:CD2	1:G:911:PHE:CE2	2.97	0.47
1:H:90:SER:OG	1:H:91:PRO:HD3	2.14	0.47
1:H:376:PRO:HG3	1:H:473:HIS:CD2	2.49	0.47
1:H:441:ARG:O	1:H:445:ASP:HB3	2.14	0.47
1:H:447:TYR:O	1:H:447:TYR:CG	2.67	0.47
1:H:537:ARG:HA	1:H:540:ASN:HB2	1.97	0.47
1:I:253:TRP:CZ3	1:I:264:LEU:HD11	2.49	0.47
1:I:365:TYR:OH	1:I:404:LYS:HG2	2.15	0.47
1:I:556:SER:O	1:I:557:LYS:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:615:TYR:CD1	1:I:622:LEU:HD13	2.50	0.47
1:I:1192:SER:OG	1:I:1208:GLU:OE2	2.28	0.47
1:J:170:VAL:O	1:J:173:LYS:N	2.48	0.47
1:K:122:LYS:O	1:K:303:LYS:NZ	2.38	0.47
1:K:331:ILE:HG21	1:K:338:TRP:HB2	1.97	0.47
1:K:604:ASN:ND2	1:K:928:VAL:HB	2.29	0.47
1:L:212:ASP:OD2	1:M:209:SER:CB	2.57	0.47
1:L:510:ALA:HB1	1:L:515:LEU:HA	1.96	0.47
1:L:523:PHE:HD1	1:L:527:TYR:CE2	2.28	0.47
1:L:875:LEU:CD2	1:L:911:PHE:CE2	2.97	0.47
1:M:376:PRO:HG3	1:M:473:HIS:CD2	2.49	0.47
1:M:383:THR:O	1:M:386:LEU:HB3	2.14	0.47
1:N:441:ARG:O	1:N:445:ASP:HB3	2.14	0.47
1:N:443:ILE:HG21	1:N:477:ASN:ND2	2.24	0.47
1:N:602:ILE:HD12	1:N:900:GLU:HG2	1.97	0.47
1:N:604:ASN:ND2	1:N:929:VAL:H	2.04	0.47
1:N:615:TYR:CD1	1:N:622:LEU:HD13	2.50	0.47
1:N:1074:HIS:O	1:N:1075:SER:OG	2.33	0.47
1:O:441:ARG:O	1:O:445:ASP:HB3	2.14	0.47
1:O:447:TYR:O	1:O:447:TYR:CG	2.67	0.47
1:O:510:ALA:HB1	1:O:515:LEU:HA	1.96	0.47
1:O:537:ARG:HA	1:O:540:ASN:HB2	1.97	0.47
1:O:615:TYR:CD1	1:O:622:LEU:HD13	2.50	0.47
1:O:654:ILE:HG22	1:O:670:HIS:HD2	1.78	0.47
1:P:117:ASN:O	1:P:119:VAL:N	2.48	0.47
1:P:331:ILE:HG21	1:P:338:TRP:HB2	1.97	0.47
1:P:441:ARG:O	1:P:445:ASP:HB3	2.14	0.47
1:P:483:ARG:O	1:P:486:LEU:N	2.48	0.47
1:P:537:ARG:HA	1:P:540:ASN:HB2	1.97	0.47
1:P:875:LEU:CD2	1:P:911:PHE:CE2	2.97	0.47
1:A:510:ALA:HB1	1:A:515:LEU:HA	1.96	0.47
1:B:604:ASN:ND2	1:B:928:VAL:HB	2.29	0.47
1:C:615:TYR:CD1	1:C:622:LEU:HD13	2.50	0.47
1:C:1074:HIS:O	1:C:1075:SER:OG	2.33	0.47
1:E:331:ILE:HG21	1:E:338:TRP:HB2	1.97	0.47
1:E:615:TYR:CD1	1:E:622:LEU:HD13	2.50	0.47
1:F:293:THR:O	1:F:296:GLU:N	2.40	0.47
1:F:317:LEU:C	1:F:318:THR:HG1	1.95	0.47
1:F:331:ILE:HG21	1:F:338:TRP:HB2	1.97	0.47
1:F:641:ASP:OD1	1:F:642:THR:N	2.45	0.47
1:G:1075:SER:OG	1:G:1094:ASP:O	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:483:ARG:O	1:H:486:LEU:N	2.47	0.47
1:H:615:TYR:CD1	1:H:622:LEU:HD13	2.50	0.47
1:H:654:ILE:HG22	1:H:670:HIS:HD2	1.79	0.47
1:I:170:VAL:O	1:I:173:LYS:N	2.48	0.47
1:I:336:ALA:C	1:I:338:TRP:H	2.18	0.47
1:J:331:ILE:HG21	1:J:338:TRP:HB2	1.97	0.47
1:J:383:THR:O	1:J:386:LEU:HB3	2.14	0.47
1:J:615:TYR:CD1	1:J:622:LEU:HD13	2.50	0.47
1:K:253:TRP:CZ3	1:K:264:LEU:HD11	2.49	0.47
1:K:483:ARG:O	1:K:486:LEU:N	2.48	0.47
1:L:117:ASN:O	1:L:119:VAL:N	2.47	0.47
1:L:434:GLU:C	1:L:436:GLU:H	2.18	0.47
1:L:615:TYR:CD1	1:L:622:LEU:HD13	2.50	0.47
1:M:458:LEU:HA	1:M:587:ARG:HH21	1.80	0.47
1:M:1074:HIS:O	1:M:1075:SER:OG	2.33	0.47
1:N:247:VAL:HG21	1:N:264:LEU:HD22	1.96	0.47
1:N:336:ALA:C	1:N:338:TRP:H	2.18	0.47
1:N:447:TYR:O	1:N:447:TYR:CG	2.67	0.47
1:O:90:SER:OG	1:O:91:PRO:HD3	2.14	0.47
1:O:483:ARG:O	1:O:486:LEU:N	2.48	0.47
1:P:117:ASN:O	1:P:118:GLN:C	2.53	0.47
1:P:1075:SER:OG	1:P:1094:ASP:O	2.29	0.47
1:A:180:TRP:O	1:A:181:LEU:HD12	2.14	0.47
1:A:247:VAL:HG21	1:A:264:LEU:HD22	1.96	0.47
1:A:1074:HIS:O	1:A:1075:SER:OG	2.33	0.47
1:B:434:GLU:C	1:B:436:GLU:H	2.18	0.47
1:B:483:ARG:O	1:B:486:LEU:N	2.48	0.47
1:C:371:ARG:HB3	1:C:389:ILE:CG2	2.45	0.47
1:D:293:THR:HG22	1:D:295:ASP:H	1.80	0.47
1:D:331:ILE:HG21	1:D:338:TRP:HB2	1.97	0.47
1:D:453:PHE:CE2	1:D:460:PRO:HB3	2.49	0.47
1:E:293:THR:HG22	1:E:295:ASP:H	1.80	0.47
1:G:496:PHE:HE2	1:G:555:CYS:HG	1.61	0.47
1:H:331:ILE:HG21	1:H:338:TRP:HB2	1.97	0.47
1:I:301:LEU:CD2	1:I:313:PRO:CG	2.87	0.47
1:J:117:ASN:O	1:J:118:GLN:C	2.53	0.47
1:J:554:ILE:O	1:J:556:SER:N	2.46	0.47
1:K:117:ASN:O	1:K:119:VAL:N	2.48	0.47
1:K:293:THR:HG22	1:K:295:ASP:H	1.80	0.47
1:K:434:GLU:C	1:K:436:GLU:H	2.18	0.47
1:M:483:ARG:O	1:M:486:LEU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:604:ASN:ND2	1:M:928:VAL:HB	2.29	0.47
1:N:478:ILE:HG22	1:N:479:GLU:N	2.30	0.47
1:N:483:ARG:O	1:N:486:LEU:N	2.48	0.47
1:N:510:ALA:HB1	1:N:515:LEU:HA	1.96	0.47
1:N:636:SER:O	1:N:637:LEU:O	2.31	0.47
1:O:331:ILE:HG21	1:O:338:TRP:HB2	1.97	0.47
1:P:346:CYS:O	1:P:350:THR:N	2.25	0.47
1:P:496:PHE:HE2	1:P:555:CYS:HG	1.61	0.47
1:A:293:THR:O	1:A:296:GLU:N	2.40	0.47
1:A:478:ILE:HG22	1:A:479:GLU:N	2.30	0.47
1:A:483:ARG:O	1:A:486:LEU:N	2.48	0.47
1:B:117:ASN:O	1:B:118:GLN:C	2.53	0.47
1:B:811:ASP:OD1	1:B:812:THR:N	2.46	0.47
1:C:122:LYS:HG3	1:D:276:SER:CB	2.45	0.47
1:C:443:ILE:HG21	1:C:477:ASN:ND2	2.24	0.47
1:C:451:LYS:CD	1:C:486:LEU:HD21	2.33	0.47
1:D:54:ALA:O	1:D:58:THR:N	2.48	0.47
1:D:365:TYR:OH	1:D:404:LYS:HG2	2.15	0.47
1:D:383:THR:O	1:D:386:LEU:HB3	2.14	0.47
1:D:443:ILE:HG21	1:D:477:ASN:ND2	2.24	0.47
1:D:463:LEU:HD22	1:D:467:PHE:HD2	1.74	0.47
1:D:478:ILE:HG22	1:D:479:GLU:N	2.30	0.47
1:D:811:ASP:OD1	1:D:812:THR:N	2.46	0.47
1:E:117:ASN:O	1:E:118:GLN:C	2.53	0.47
1:E:253:TRP:CZ3	1:E:264:LEU:HD11	2.49	0.47
1:F:336:ALA:C	1:F:338:TRP:H	2.18	0.47
1:F:447:TYR:O	1:F:447:TYR:CG	2.67	0.47
1:F:552:ASN:HB3	1:F:1226:TYR:CE1	2.48	0.47
1:I:331:ILE:HG21	1:I:338:TRP:HB2	1.97	0.47
1:I:441:ARG:O	1:I:445:ASP:HB3	2.14	0.47
1:I:447:TYR:O	1:I:447:TYR:CG	2.67	0.47
1:I:508:TRP:O	1:I:606:GLY:CA	2.63	0.47
1:J:293:THR:HG22	1:J:295:ASP:H	1.80	0.47
1:K:54:ALA:O	1:K:58:THR:N	2.48	0.47
1:K:64:THR:O	1:K:67:SER:OG	2.27	0.47
1:K:453:PHE:CE2	1:K:460:PRO:HB3	2.49	0.47
1:K:478:ILE:HG22	1:K:479:GLU:N	2.29	0.47
1:L:331:ILE:HG21	1:L:338:TRP:HB2	1.97	0.47
1:L:371:ARG:HB3	1:L:389:ILE:CG2	2.45	0.47
1:L:376:PRO:HG3	1:L:473:HIS:CD2	2.49	0.47
1:L:811:ASP:OD1	1:L:812:THR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:434:GLU:C	1:M:436:GLU:H	2.18	0.47
1:M:510:ALA:HB1	1:M:515:LEU:HA	1.96	0.47
1:N:180:TRP:O	1:N:181:LEU:HD12	2.14	0.47
1:N:293:THR:O	1:N:296:GLU:N	2.40	0.47
1:O:117:ASN:O	1:O:119:VAL:N	2.47	0.47
1:A:117:ASN:O	1:A:118:GLN:C	2.53	0.46
1:A:811:ASP:OD1	1:A:812:THR:N	2.46	0.46
1:B:458:LEU:HA	1:B:587:ARG:HH21	1.80	0.46
1:B:510:ALA:HB1	1:B:515:LEU:HA	1.96	0.46
1:C:875:LEU:CD2	1:C:911:PHE:CE2	2.97	0.46
1:D:64:THR:O	1:D:67:SER:OG	2.27	0.46
1:E:201:TYR:CZ	1:F:223:SER:OG	2.65	0.46
1:E:358:ASN:HA	1:E:366:ARG:NH2	2.31	0.46
1:F:314:ARG:C	1:F:315:GLU:CG	2.81	0.46
1:F:1192:SER:OG	1:F:1208:GLU:OE2	2.28	0.46
1:H:117:ASN:O	1:H:119:VAL:N	2.48	0.46
1:H:462:TYR:OH	1:H:494:PHE:CZ	2.66	0.46
1:I:117:ASN:O	1:I:119:VAL:N	2.47	0.46
1:K:383:THR:O	1:K:386:LEU:HB3	2.14	0.46
1:K:638:GLU:OE1	1:K:640:GLU:N	2.42	0.46
1:K:811:ASP:OD1	1:K:812:THR:N	2.46	0.46
1:L:1074:HIS:O	1:L:1075:SER:OG	2.33	0.46
1:M:117:ASN:O	1:M:118:GLN:C	2.53	0.46
1:N:811:ASP:OD1	1:N:812:THR:N	2.46	0.46
1:O:365:TYR:OH	1:O:404:LYS:HG2	2.15	0.46
1:O:462:TYR:OH	1:O:494:PHE:CZ	2.66	0.46
1:O:502:ARG:HD3	1:O:516:ASN:HA	1.96	0.46
1:P:247:VAL:HG21	1:P:264:LEU:HD22	1.96	0.46
1:P:376:PRO:HG3	1:P:473:HIS:CD2	2.49	0.46
1:P:434:GLU:C	1:P:436:GLU:H	2.18	0.46
1:A:122:LYS:HG3	1:B:276:SER:CB	2.44	0.46
1:A:293:THR:HG22	1:A:295:ASP:H	1.80	0.46
1:A:331:ILE:HG21	1:A:338:TRP:HB2	1.97	0.46
1:A:458:LEU:HA	1:A:587:ARG:HH21	1.80	0.46
1:A:537:ARG:HA	1:A:540:ASN:HB2	1.97	0.46
1:B:336:ALA:C	1:B:338:TRP:H	2.17	0.46
1:C:376:PRO:HG3	1:C:473:HIS:CD2	2.49	0.46
1:C:462:TYR:OH	1:C:494:PHE:CZ	2.66	0.46
1:C:510:ALA:HB1	1:C:515:LEU:HA	1.96	0.46
1:D:336:ALA:C	1:D:338:TRP:H	2.18	0.46
1:D:543:LEU:O	1:D:547:PRO:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:615:TYR:CD1	1:D:622:LEU:HD13	2.50	0.46
1:D:638:GLU:OE1	1:D:640:GLU:N	2.42	0.46
1:E:502:ARG:HD3	1:E:516:ASN:HA	1.96	0.46
1:F:508:TRP:O	1:F:606:GLY:CA	2.63	0.46
1:F:543:LEU:O	1:F:547:PRO:HD2	2.16	0.46
1:G:247:VAL:HG21	1:G:264:LEU:HD22	1.96	0.46
1:G:365:TYR:OH	1:G:404:LYS:HG2	2.15	0.46
1:G:447:TYR:O	1:G:447:TYR:CG	2.67	0.46
1:H:251:APK:H2'	1:H:251:APK:H8	1.74	0.46
1:H:365:TYR:OH	1:H:404:LYS:HG2	2.15	0.46
1:H:604:ASN:ND2	1:H:928:VAL:HB	2.29	0.46
1:I:293:THR:O	1:I:296:GLU:N	2.40	0.46
1:I:602:ILE:HD12	1:I:900:GLU:HG2	1.97	0.46
1:J:253:TRP:CZ3	1:J:264:LEU:HD11	2.49	0.46
1:J:352:ILE:O	1:J:356:SER:OG	2.29	0.46
1:K:336:ALA:C	1:K:338:TRP:H	2.17	0.46
1:K:463:LEU:HD22	1:K:467:PHE:HD2	1.74	0.46
1:K:615:TYR:CD1	1:K:622:LEU:HD13	2.50	0.46
1:L:537:ARG:HA	1:L:540:ASN:HB2	1.97	0.46
1:M:811:ASP:OD1	1:M:812:THR:N	2.47	0.46
1:N:117:ASN:O	1:N:118:GLN:C	2.53	0.46
1:N:293:THR:HG22	1:N:295:ASP:H	1.80	0.46
1:N:458:LEU:HA	1:N:587:ARG:HH21	1.80	0.46
1:N:537:ARG:HA	1:N:540:ASN:HB2	1.97	0.46
1:O:336:ALA:C	1:O:338:TRP:H	2.17	0.46
1:O:496:PHE:HE2	1:O:555:CYS:HG	1.61	0.46
1:O:1074:HIS:O	1:O:1075:SER:OG	2.33	0.46
1:O:1201:THR:OG1	1:O:1202:MET:N	2.48	0.46
1:P:447:TYR:O	1:P:447:TYR:CG	2.67	0.46
1:P:478:ILE:HG22	1:P:479:GLU:N	2.29	0.46
1:P:508:TRP:O	1:P:606:GLY:CA	2.63	0.46
1:A:133:LYS:O	1:A:136:GLN:HB3	2.16	0.46
1:B:502:ARG:HD3	1:B:516:ASN:HA	1.96	0.46
1:C:54:ALA:O	1:C:58:THR:N	2.48	0.46
1:C:331:ILE:HG21	1:C:338:TRP:HB2	1.97	0.46
1:C:811:ASP:OD1	1:C:812:THR:N	2.46	0.46
1:D:537:ARG:HA	1:D:540:ASN:HB2	1.97	0.46
1:E:225:GLN:HG3	1:E:258:LEU:HD22	1.98	0.46
1:E:376:PRO:HG3	1:E:473:HIS:CD2	2.49	0.46
1:E:811:ASP:OD1	1:E:812:THR:N	2.46	0.46
1:F:537:ARG:HA	1:F:540:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:602:ILE:HD12	1:F:900:GLU:HG2	1.96	0.46
1:G:133:LYS:O	1:G:136:GLN:HB3	2.16	0.46
1:G:376:PRO:HG3	1:G:473:HIS:CD2	2.50	0.46
1:G:434:GLU:C	1:G:436:GLU:H	2.18	0.46
1:G:508:TRP:O	1:G:606:GLY:CA	2.63	0.46
1:G:811:ASP:OD1	1:G:812:THR:N	2.47	0.46
1:H:336:ALA:C	1:H:338:TRP:H	2.17	0.46
1:H:502:ARG:HD3	1:H:516:ASN:HA	1.96	0.46
1:H:1074:HIS:O	1:H:1075:SER:OG	2.33	0.46
1:I:434:GLU:C	1:I:436:GLU:H	2.18	0.46
1:I:543:LEU:O	1:I:547:PRO:HD2	2.16	0.46
1:I:552:ASN:HB3	1:I:1226:TYR:CE1	2.48	0.46
1:J:358:ASN:HA	1:J:366:ARG:NH2	2.31	0.46
1:K:365:TYR:OH	1:K:404:LYS:HG2	2.15	0.46
1:K:443:ILE:HG21	1:K:477:ASN:ND2	2.24	0.46
1:K:537:ARG:HA	1:K:540:ASN:HB2	1.97	0.46
1:K:543:LEU:O	1:K:547:PRO:HD2	2.16	0.46
1:L:54:ALA:O	1:L:58:THR:N	2.48	0.46
1:L:443:ILE:HG21	1:L:477:ASN:ND2	2.24	0.46
1:M:331:ILE:HG21	1:M:338:TRP:HB2	1.97	0.46
1:M:336:ALA:C	1:M:338:TRP:H	2.17	0.46
1:M:443:ILE:HG21	1:M:477:ASN:ND2	2.24	0.46
1:N:331:ILE:HG21	1:N:338:TRP:HB2	1.97	0.46
1:O:602:ILE:HD12	1:O:900:GLU:HG2	1.97	0.46
1:O:604:ASN:ND2	1:O:928:VAL:HB	2.29	0.46
1:P:133:LYS:O	1:P:136:GLN:HB3	2.16	0.46
1:P:170:VAL:O	1:P:173:LYS:N	2.48	0.46
1:P:365:TYR:OH	1:P:404:LYS:HG2	2.15	0.46
1:P:811:ASP:OD1	1:P:812:THR:N	2.46	0.46
1:A:543:LEU:O	1:A:547:PRO:HD2	2.16	0.46
1:B:331:ILE:HG21	1:B:338:TRP:HB2	1.97	0.46
1:C:336:ALA:C	1:C:338:TRP:H	2.18	0.46
1:C:537:ARG:HA	1:C:540:ASN:HB2	1.97	0.46
1:D:198:LYS:NZ	1:E:222:HIS:CG	2.83	0.46
1:E:352:ILE:O	1:E:356:SER:OG	2.29	0.46
1:F:133:LYS:O	1:F:136:GLN:HB3	2.16	0.46
1:F:301:LEU:CD2	1:F:313:PRO:CG	2.87	0.46
1:F:358:ASN:HA	1:F:366:ARG:NH2	2.31	0.46
1:G:170:VAL:O	1:G:173:LYS:N	2.48	0.46
1:G:293:THR:HG22	1:G:295:ASP:H	1.80	0.46
1:G:478:ILE:HG22	1:G:479:GLU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:511:SER:C	1:G:513:SER:N	2.61	0.46
1:H:180:TRP:O	1:H:181:LEU:HD12	2.14	0.46
1:H:1201:THR:OG1	1:H:1202:MET:N	2.48	0.46
1:I:133:LYS:O	1:I:136:GLN:HB3	2.16	0.46
1:I:537:ARG:HA	1:I:540:ASN:HB2	1.97	0.46
1:J:301:LEU:CD2	1:J:313:PRO:CG	2.87	0.46
1:J:376:PRO:HG3	1:J:473:HIS:CD2	2.49	0.46
1:J:502:ARG:HD3	1:J:516:ASN:HA	1.96	0.46
1:J:638:GLU:OE1	1:J:640:GLU:N	2.42	0.46
1:K:301:LEU:CD2	1:K:313:PRO:CG	2.87	0.46
1:K:392:ASP:OD1	1:K:393:VAL:N	2.47	0.46
1:K:554:ILE:O	1:K:556:SER:N	2.45	0.46
1:L:358:ASN:HA	1:L:366:ARG:NH2	2.31	0.46
1:N:133:LYS:O	1:N:136:GLN:HB3	2.16	0.46
1:N:222:HIS:CG	1:O:198:LYS:NZ	2.84	0.46
1:N:543:LEU:O	1:N:547:PRO:HD2	2.16	0.46
1:O:180:TRP:O	1:O:181:LEU:HD12	2.14	0.46
1:P:293:THR:HG22	1:P:295:ASP:H	1.80	0.46
1:P:336:ALA:C	1:P:338:TRP:H	2.17	0.46
1:C:207:TRP:CH2	1:C:209:SER:HA	2.51	0.46
1:C:458:LEU:HA	1:C:587:ARG:HH21	1.80	0.46
1:D:358:ASN:HA	1:D:366:ARG:NH2	2.31	0.46
1:D:392:ASP:OD1	1:D:393:VAL:N	2.47	0.46
1:D:554:ILE:O	1:D:556:SER:N	2.45	0.46
1:E:180:TRP:C	1:E:181:LEU:HD12	2.36	0.46
1:E:336:ALA:C	1:E:338:TRP:H	2.18	0.46
1:E:638:GLU:OE1	1:E:640:GLU:N	2.42	0.46
1:F:117:ASN:O	1:F:119:VAL:N	2.47	0.46
1:F:371:ARG:HB3	1:F:389:ILE:CG2	2.45	0.46
1:G:336:ALA:C	1:G:338:TRP:H	2.17	0.46
1:G:358:ASN:HA	1:G:366:ARG:NH2	2.31	0.46
1:G:371:ARG:HB3	1:G:389:ILE:CG2	2.45	0.46
1:H:207:TRP:CH2	1:H:209:SER:HA	2.51	0.46
1:H:458:LEU:CG	1:H:587:ARG:NH2	2.74	0.46
1:I:127:ARG:HD3	1:I:292:LEU:HD12	1.98	0.46
1:I:451:LYS:CD	1:I:486:LEU:HD21	2.33	0.46
1:J:225:GLN:HG3	1:J:258:LEU:HD22	1.98	0.46
1:J:365:TYR:OH	1:J:404:LYS:HG2	2.15	0.46
1:J:392:ASP:OD1	1:J:393:VAL:N	2.47	0.46
1:J:811:ASP:OD1	1:J:812:THR:N	2.46	0.46
1:K:225:GLN:HG3	1:K:258:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:358:ASN:HA	1:K:366:ARG:NH2	2.31	0.46
1:L:207:TRP:CH2	1:L:209:SER:HA	2.51	0.46
1:L:398:VAL:HG23	1:L:399:MET:N	2.28	0.46
1:M:502:ARG:HD3	1:M:516:ASN:HA	1.96	0.46
1:N:170:VAL:O	1:N:173:LYS:N	2.48	0.46
1:N:1201:THR:OG1	1:N:1202:MET:N	2.48	0.46
1:O:508:TRP:O	1:O:606:GLY:CA	2.63	0.46
1:P:180:TRP:O	1:P:181:LEU:HD12	2.14	0.46
1:P:361:GLU:HB2	1:P:364:GLU:HB3	1.98	0.46
1:P:371:ARG:HB3	1:P:389:ILE:CG2	2.45	0.46
1:A:170:VAL:O	1:A:173:LYS:N	2.48	0.46
1:A:371:ARG:HB3	1:A:389:ILE:CG2	2.45	0.46
1:C:293:THR:HG22	1:C:295:ASP:H	1.80	0.46
1:C:866:LYS:HE2	1:C:872:ARG:HH11	1.81	0.46
1:D:225:GLN:HG3	1:D:258:LEU:HD22	1.98	0.46
1:D:1059:ASP:HB3	1:D:1071:ALA:HB3	1.98	0.46
1:E:301:LEU:CD2	1:E:313:PRO:CG	2.87	0.46
1:E:365:TYR:OH	1:E:404:LYS:HG2	2.15	0.46
1:E:1074:HIS:O	1:E:1075:SER:OG	2.33	0.46
1:F:127:ARG:HD3	1:F:292:LEU:HD12	1.98	0.46
1:G:180:TRP:O	1:G:181:LEU:HD12	2.14	0.46
1:G:361:GLU:HB2	1:G:364:GLU:HB3	1.98	0.46
1:G:1074:HIS:O	1:G:1075:SER:OG	2.33	0.46
1:H:170:VAL:O	1:H:173:LYS:N	2.48	0.46
1:H:602:ILE:HD12	1:H:900:GLU:HG2	1.97	0.46
1:H:1036:VAL:HG12	1:H:1037:ASP:N	2.31	0.46
1:I:80:VAL:HA	1:I:83:ILE:HD12	1.98	0.46
1:I:358:ASN:HA	1:I:366:ARG:NH2	2.31	0.46
1:I:641:ASP:OD1	1:I:642:THR:N	2.45	0.46
1:J:180:TRP:C	1:J:181:LEU:HD12	2.36	0.46
1:J:317:LEU:O	1:J:318:THR:CB	2.61	0.46
1:J:336:ALA:C	1:J:338:TRP:H	2.18	0.46
1:J:462:TYR:OH	1:J:494:PHE:CZ	2.66	0.46
1:J:1074:HIS:O	1:J:1075:SER:OG	2.33	0.46
1:L:130:PRO:HA	1:L:290:MET:HE3	1.96	0.46
1:L:293:THR:HG22	1:L:295:ASP:H	1.80	0.46
1:L:866:LYS:HE2	1:L:872:ARG:HH11	1.81	0.46
1:O:117:ASN:O	1:O:118:GLN:C	2.53	0.46
1:O:207:TRP:CH2	1:O:209:SER:HA	2.51	0.46
1:A:1201:THR:OG1	1:A:1202:MET:N	2.48	0.46
1:B:543:LEU:O	1:B:547:PRO:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1059:ASP:HB3	1:B:1071:ALA:HB3	1.98	0.46
1:C:641:ASP:OD1	1:C:642:THR:N	2.45	0.46
1:D:133:LYS:O	1:D:136:GLN:HB3	2.16	0.46
1:D:301:LEU:CD2	1:D:313:PRO:CG	2.87	0.46
1:D:602:ILE:HD12	1:D:900:GLU:HG2	1.97	0.46
1:D:1074:HIS:O	1:D:1075:SER:OG	2.33	0.46
1:E:371:ARG:HB3	1:E:389:ILE:CG2	2.45	0.46
1:E:392:ASP:OD1	1:E:393:VAL:N	2.47	0.46
1:F:458:LEU:HA	1:F:587:ARG:HH21	1.80	0.46
1:G:80:VAL:HA	1:G:83:ILE:HD12	1.98	0.46
1:H:371:ARG:HB3	1:H:389:ILE:CG2	2.45	0.46
1:H:508:TRP:O	1:H:606:GLY:CA	2.63	0.46
1:I:85:TYR:HB2	1:I:87:PHE:CE2	2.51	0.46
1:I:371:ARG:HB3	1:I:389:ILE:CG2	2.45	0.46
1:J:322:ARG:C	1:J:324:LEU:H	2.19	0.46
1:J:537:ARG:HA	1:J:540:ASN:HB2	1.97	0.46
1:J:1036:VAL:HG12	1:J:1037:ASP:N	2.31	0.46
1:K:133:LYS:O	1:K:136:GLN:HB3	2.16	0.46
1:K:602:ILE:HD12	1:K:900:GLU:HG2	1.97	0.46
1:L:336:ALA:C	1:L:338:TRP:H	2.17	0.46
1:L:458:LEU:HA	1:L:587:ARG:HH21	1.80	0.46
1:M:1059:ASP:HB3	1:M:1071:ALA:HB3	1.98	0.46
1:N:371:ARG:HB3	1:N:389:ILE:CG2	2.45	0.46
1:O:170:VAL:O	1:O:173:LYS:N	2.48	0.46
1:O:371:ARG:HB3	1:O:389:ILE:CG2	2.45	0.46
1:O:398:VAL:HG23	1:O:399:MET:N	2.28	0.46
1:O:1036:VAL:HG12	1:O:1037:ASP:N	2.31	0.46
1:P:358:ASN:HA	1:P:366:ARG:NH2	2.31	0.46
1:P:1074:HIS:O	1:P:1075:SER:OG	2.33	0.46
1:A:207:TRP:CH2	1:A:209:SER:HA	2.51	0.46
1:A:1059:ASP:HB3	1:A:1071:ALA:HB3	1.98	0.46
1:B:537:ARG:HA	1:B:540:ASN:HB2	1.97	0.46
1:C:11:GLN:O	1:C:14:ASP:N	2.46	0.46
1:C:115:ASN:HB3	1:D:257:ASN:ND2	2.31	0.46
1:C:358:ASN:HA	1:C:366:ARG:NH2	2.31	0.46
1:D:146:ASN:HB2	1:D:280:THR:HG22	1.98	0.46
1:D:170:VAL:O	1:D:173:LYS:N	2.48	0.46
1:E:85:TYR:HB2	1:E:87:PHE:CE2	2.51	0.46
1:E:322:ARG:C	1:E:324:LEU:H	2.19	0.46
1:E:361:GLU:HB2	1:E:364:GLU:HB3	1.98	0.46
1:E:1036:VAL:HG12	1:E:1037:ASP:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:85:TYR:HB2	1:F:87:PHE:CE2	2.51	0.46
1:G:453:PHE:CE1	1:G:460:PRO:HB3	2.51	0.46
1:H:117:ASN:O	1:H:118:GLN:C	2.53	0.46
1:H:398:VAL:HG23	1:H:399:MET:N	2.28	0.46
1:H:543:LEU:O	1:H:547:PRO:HD2	2.16	0.46
1:I:1074:HIS:O	1:I:1075:SER:OG	2.33	0.46
1:J:54:ALA:O	1:J:58:THR:N	2.48	0.46
1:J:85:TYR:HB2	1:J:87:PHE:CE2	2.51	0.46
1:J:1059:ASP:HB3	1:J:1071:ALA:HB3	1.98	0.46
1:K:170:VAL:O	1:K:173:LYS:N	2.48	0.46
1:K:1059:ASP:HB3	1:K:1071:ALA:HB3	1.98	0.46
1:K:1074:HIS:O	1:K:1075:SER:OG	2.33	0.46
1:L:146:ASN:HB2	1:L:280:THR:HG22	1.98	0.46
1:L:451:LYS:CD	1:L:486:LEU:HD21	2.33	0.46
1:M:543:LEU:O	1:M:547:PRO:HD2	2.16	0.46
1:N:207:TRP:CH2	1:N:209:SER:HA	2.51	0.46
1:N:453:PHE:CE1	1:N:460:PRO:HB3	2.51	0.46
1:O:458:LEU:CG	1:O:587:ARG:NH2	2.74	0.46
1:P:225:GLN:HG3	1:P:258:LEU:HD22	1.98	0.46
1:P:317:LEU:O	1:P:318:THR:CB	2.61	0.46
1:P:511:SER:C	1:P:513:SER:N	2.60	0.46
1:P:543:LEU:O	1:P:547:PRO:HD2	2.16	0.46
1:A:453:PHE:CE1	1:A:460:PRO:HB3	2.51	0.46
1:A:656:ARG:HG2	1:A:657:MET:H	1.81	0.46
1:C:85:TYR:HB2	1:C:87:PHE:CE2	2.51	0.46
1:C:117:ASN:O	1:C:118:GLN:C	2.53	0.46
1:C:130:PRO:HA	1:C:290:MET:HE3	1.96	0.46
1:C:146:ASN:HB2	1:C:280:THR:HG22	1.98	0.46
1:C:398:VAL:HG23	1:C:399:MET:N	2.28	0.46
1:C:434:GLU:C	1:C:436:GLU:H	2.18	0.46
1:C:458:LEU:CG	1:C:587:ARG:NH2	2.74	0.46
1:D:85:TYR:HB2	1:D:87:PHE:CE2	2.51	0.46
1:D:1201:THR:OG1	1:D:1202:MET:N	2.48	0.46
1:E:54:ALA:O	1:E:58:THR:N	2.48	0.46
1:E:146:ASN:HB2	1:E:280:THR:HG22	1.98	0.46
1:E:317:LEU:O	1:E:318:THR:CB	2.61	0.46
1:E:537:ARG:HA	1:E:540:ASN:HB2	1.97	0.46
1:F:80:VAL:HA	1:F:83:ILE:HD12	1.98	0.46
1:F:121:ALA:CB	1:G:276:SER:HB3	2.29	0.46
1:F:207:TRP:CH2	1:F:209:SER:HA	2.51	0.46
1:F:293:THR:HG22	1:F:295:ASP:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:434:GLU:C	1:F:436:GLU:H	2.18	0.46
1:G:225:GLN:HG3	1:G:258:LEU:HD22	1.98	0.46
1:G:317:LEU:O	1:G:318:THR:CB	2.61	0.46
1:H:458:LEU:HA	1:H:587:ARG:HH21	1.80	0.46
1:I:293:THR:HG22	1:I:295:ASP:H	1.80	0.46
1:I:322:ARG:C	1:I:324:LEU:H	2.19	0.46
1:I:392:ASP:OD1	1:I:393:VAL:N	2.47	0.46
1:I:475:LEU:HA	1:I:478:ILE:HD12	1.98	0.46
1:J:146:ASN:HB2	1:J:280:THR:HG22	1.98	0.46
1:J:361:GLU:HB2	1:J:364:GLU:HB3	1.98	0.46
1:K:85:TYR:HB2	1:K:87:PHE:CE2	2.51	0.46
1:K:146:ASN:HB2	1:K:280:THR:HG22	1.98	0.46
1:K:633:THR:HG22	1:K:643:TYR:HA	1.97	0.46
1:K:1201:THR:OG1	1:K:1202:MET:N	2.48	0.46
1:L:458:LEU:HG	1:L:587:ARG:HH22	1.81	0.46
1:M:602:ILE:HD12	1:M:900:GLU:HG2	1.97	0.46
1:M:1177:TYR:HE2	1:N:916:LYS:HE2	1.81	0.46
1:N:554:ILE:O	1:N:556:SER:N	2.45	0.46
1:N:1059:ASP:HB3	1:N:1071:ALA:HB3	1.98	0.46
1:O:543:LEU:O	1:O:547:PRO:HD2	2.16	0.46
1:P:80:VAL:HA	1:P:83:ILE:HD12	1.98	0.46
1:P:1036:VAL:HG12	1:P:1037:ASP:N	2.31	0.46
1:A:475:LEU:HA	1:A:478:ILE:HD12	1.98	0.46
1:A:597:HIS:CD2	1:A:598:GLN:H	2.34	0.46
1:A:866:LYS:HE2	1:A:872:ARG:HH11	1.81	0.46
1:B:602:ILE:HD12	1:B:900:GLU:HG2	1.97	0.46
1:C:127:ARG:HD3	1:C:292:LEU:HD12	1.98	0.46
1:C:1059:ASP:HB3	1:C:1071:ALA:HB3	1.98	0.46
1:D:180:TRP:C	1:D:181:LEU:HD12	2.36	0.46
1:D:633:THR:HG22	1:D:643:TYR:HA	1.97	0.46
1:E:207:TRP:CH2	1:E:209:SER:HA	2.51	0.46
1:E:1059:ASP:HB3	1:E:1071:ALA:HB3	1.98	0.46
1:G:475:LEU:HA	1:G:478:ILE:HD12	1.98	0.46
1:G:543:LEU:O	1:G:547:PRO:HD2	2.16	0.46
1:G:1036:VAL:HG12	1:G:1037:ASP:N	2.31	0.46
1:H:361:GLU:HB2	1:H:364:GLU:HB3	1.98	0.46
1:J:523:PHE:HD1	1:J:527:TYR:CE2	2.28	0.46
1:J:656:ARG:HG2	1:J:657:MET:H	1.81	0.46
1:J:866:LYS:HE2	1:J:872:ARG:HH11	1.81	0.46
1:K:180:TRP:C	1:K:181:LEU:HD12	2.36	0.46
1:L:85:TYR:HB2	1:L:87:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:LEU:CG	1:L:587:ARG:NH2	2.74	0.46
1:L:554:ILE:O	1:L:556:SER:N	2.46	0.46
1:L:1036:VAL:HG12	1:L:1037:ASP:N	2.31	0.46
1:L:1059:ASP:HB3	1:L:1071:ALA:HB3	1.98	0.46
1:M:207:TRP:CH2	1:M:209:SER:HA	2.51	0.46
1:M:537:ARG:HA	1:M:540:ASN:HB2	1.97	0.46
1:N:475:LEU:HA	1:N:478:ILE:HD12	1.98	0.46
1:P:231:LEU:O	1:P:234:SER:OG	2.26	0.46
1:A:85:TYR:HB2	1:A:87:PHE:CE2	2.51	0.45
1:A:491:PHE:N	1:A:491:PHE:CD1	2.83	0.45
1:B:207:TRP:CH2	1:B:209:SER:HA	2.51	0.45
1:B:352:ILE:O	1:B:356:SER:OG	2.29	0.45
1:B:656:ARG:HG2	1:B:657:MET:H	1.81	0.45
1:C:36:PRO:HG2	1:C:39:ILE:CG2	2.46	0.45
1:D:322:ARG:C	1:D:324:LEU:H	2.19	0.45
1:D:502:ARG:HD3	1:D:516:ASN:HA	1.96	0.45
1:D:1036:VAL:HG12	1:D:1037:ASP:N	2.31	0.45
1:E:36:PRO:HG2	1:E:39:ILE:CG2	2.46	0.45
1:E:458:LEU:HA	1:E:587:ARG:HH21	1.80	0.45
1:E:552:ASN:HB3	1:E:1226:TYR:CE1	2.48	0.45
1:E:656:ARG:HG2	1:E:657:MET:H	1.81	0.45
1:E:866:LYS:HE2	1:E:872:ARG:HH11	1.81	0.45
1:F:322:ARG:C	1:F:324:LEU:H	2.19	0.45
1:F:475:LEU:HA	1:F:478:ILE:HD12	1.99	0.45
1:F:1074:HIS:O	1:F:1075:SER:OG	2.33	0.45
1:F:1201:THR:OG1	1:F:1202:MET:N	2.48	0.45
1:H:597:HIS:CD2	1:H:598:GLN:H	2.34	0.45
1:H:604:ASN:ND2	1:H:929:VAL:H	2.04	0.45
1:H:841:PHE:O	1:H:842:LEU:HB2	2.16	0.45
1:I:91:PRO:O	1:I:94:THR:OG1	2.21	0.45
1:I:207:TRP:CH2	1:I:209:SER:HA	2.51	0.45
1:I:231:LEU:O	1:I:234:SER:OG	2.26	0.45
1:I:453:PHE:CE1	1:I:460:PRO:HB3	2.51	0.45
1:I:502:ARG:HD3	1:I:516:ASN:HA	1.96	0.45
1:I:656:ARG:HG2	1:I:657:MET:H	1.81	0.45
1:I:1201:THR:OG1	1:I:1202:MET:N	2.48	0.45
1:J:36:PRO:HG2	1:J:39:ILE:CG2	2.47	0.45
1:J:207:TRP:CH2	1:J:209:SER:HA	2.51	0.45
1:K:322:ARG:C	1:K:324:LEU:H	2.19	0.45
1:K:480:HIS:O	1:K:483:ARG:HG2	2.16	0.45
1:K:1036:VAL:HG12	1:K:1037:ASP:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:133:LYS:O	1:L:136:GLN:HB3	2.16	0.45
1:L:231:LEU:O	1:L:234:SER:OG	2.26	0.45
1:L:453:PHE:CE2	1:L:460:PRO:HB3	2.49	0.45
1:L:875:LEU:CD1	1:L:911:PHE:HD2	2.07	0.45
1:M:146:ASN:HB2	1:M:280:THR:HG22	1.98	0.45
1:M:222:HIS:CG	1:N:198:LYS:NZ	2.84	0.45
1:M:352:ILE:O	1:M:356:SER:OG	2.29	0.45
1:M:358:ASN:HA	1:M:366:ARG:NH2	2.31	0.45
1:M:656:ARG:HG2	1:M:657:MET:H	1.81	0.45
1:N:85:TYR:HB2	1:N:87:PHE:CE2	2.51	0.45
1:N:508:TRP:O	1:N:606:GLY:CA	2.63	0.45
1:N:597:HIS:CD2	1:N:598:GLN:H	2.34	0.45
1:N:656:ARG:HG2	1:N:657:MET:H	1.81	0.45
1:O:36:PRO:HG2	1:O:39:ILE:CG2	2.46	0.45
1:O:80:VAL:HA	1:O:83:ILE:HD12	1.98	0.45
1:O:361:GLU:HB2	1:O:364:GLU:HB3	1.98	0.45
1:O:458:LEU:HA	1:O:587:ARG:HH21	1.80	0.45
1:O:597:HIS:CD2	1:O:598:GLN:H	2.34	0.45
1:O:604:ASN:ND2	1:O:929:VAL:H	2.04	0.45
1:P:64:THR:O	1:P:67:SER:OG	2.27	0.45
1:P:85:TYR:HB2	1:P:87:PHE:CE2	2.51	0.45
1:P:475:LEU:HA	1:P:478:ILE:HD12	1.98	0.45
1:A:36:PRO:HG2	1:A:39:ILE:CG2	2.46	0.45
1:A:146:ASN:HB2	1:A:280:THR:HG22	1.98	0.45
1:A:508:TRP:O	1:A:606:GLY:CA	2.63	0.45
1:A:554:ILE:O	1:A:556:SER:N	2.46	0.45
1:B:358:ASN:HA	1:B:366:ARG:NH2	2.31	0.45
1:B:1036:VAL:HG12	1:B:1037:ASP:N	2.31	0.45
1:C:80:VAL:HA	1:C:83:ILE:HD12	1.98	0.45
1:C:633:THR:HG22	1:C:643:TYR:HA	1.97	0.45
1:D:458:LEU:HG	1:D:587:ARG:HH22	1.81	0.45
1:D:480:HIS:O	1:D:483:ARG:HG2	2.16	0.45
1:D:557:LYS:CD	1:D:1223:GLN:HE21	2.30	0.45
1:D:841:PHE:O	1:D:842:LEU:HB2	2.17	0.45
1:E:523:PHE:HD1	1:E:527:TYR:CE2	2.28	0.45
1:F:604:ASN:ND2	1:F:929:VAL:H	2.03	0.45
1:F:656:ARG:HG2	1:F:657:MET:H	1.81	0.45
1:F:1036:VAL:HG12	1:F:1037:ASP:N	2.31	0.45
1:G:85:TYR:HB2	1:G:87:PHE:CE2	2.51	0.45
1:G:127:ARG:HD3	1:G:292:LEU:HD12	1.98	0.45
1:G:597:HIS:CD2	1:G:598:GLN:H	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:633:THR:HG22	1:G:643:TYR:HA	1.97	0.45
1:H:322:ARG:C	1:H:324:LEU:H	2.19	0.45
1:H:475:LEU:HA	1:H:478:ILE:HD12	1.98	0.45
1:I:811:ASP:OD1	1:I:812:THR:N	2.46	0.45
1:J:133:LYS:O	1:J:136:GLN:HB3	2.16	0.45
1:J:841:PHE:O	1:J:842:LEU:HB2	2.16	0.45
1:K:382:PRO:HA	1:K:419:THR:CG2	2.36	0.45
1:K:557:LYS:CD	1:K:1223:GLN:HE21	2.30	0.45
1:L:11:GLN:O	1:L:14:ASP:N	2.46	0.45
1:M:475:LEU:HA	1:M:478:ILE:HD12	1.98	0.45
1:M:597:HIS:CD2	1:M:598:GLN:H	2.34	0.45
1:M:866:LYS:HE2	1:M:872:ARG:HH11	1.81	0.45
1:N:146:ASN:HB2	1:N:280:THR:HG22	1.98	0.45
1:N:361:GLU:HB2	1:N:364:GLU:HB3	1.98	0.45
1:N:458:LEU:CG	1:N:587:ARG:NH2	2.74	0.45
1:N:866:LYS:HE2	1:N:872:ARG:HH11	1.81	0.45
1:O:389:ILE:CD1	1:O:446:HIS:HE2	2.14	0.45
1:O:475:LEU:HA	1:O:478:ILE:HD12	1.98	0.45
1:O:841:PHE:O	1:O:842:LEU:HB2	2.17	0.45
1:P:102:MET:O	1:P:105:MET:N	2.46	0.45
1:P:633:THR:HG22	1:P:643:TYR:HA	1.97	0.45
1:B:127:ARG:HD3	1:B:292:LEU:HD12	1.98	0.45
1:B:146:ASN:HB2	1:B:280:THR:HG22	1.98	0.45
1:B:552:ASN:HB3	1:B:1226:TYR:CE1	2.48	0.45
1:B:597:HIS:CD2	1:B:598:GLN:H	2.34	0.45
1:B:866:LYS:HE2	1:B:872:ARG:HH11	1.81	0.45
1:B:1035:TYR:HA	1:B:1057:PRO:HG2	1.99	0.45
1:C:231:LEU:O	1:C:234:SER:OG	2.26	0.45
1:C:475:LEU:HA	1:C:478:ILE:HD12	1.98	0.45
1:C:557:LYS:NZ	1:C:1223:GLN:HG3	2.31	0.45
1:C:1036:VAL:HG12	1:C:1037:ASP:N	2.31	0.45
1:D:207:TRP:CH2	1:D:209:SER:HA	2.51	0.45
1:E:133:LYS:O	1:E:136:GLN:HB3	2.16	0.45
1:E:480:HIS:O	1:E:483:ARG:HG2	2.16	0.45
1:F:146:ASN:HB2	1:F:280:THR:HG22	1.98	0.45
1:F:458:LEU:HG	1:F:587:ARG:HH22	1.81	0.45
1:F:597:HIS:CD2	1:F:598:GLN:H	2.34	0.45
1:G:180:TRP:C	1:G:181:LEU:HD12	2.36	0.45
1:G:231:LEU:O	1:G:234:SER:OG	2.26	0.45
1:H:36:PRO:HG2	1:H:39:ILE:CG2	2.47	0.45
1:H:80:VAL:HA	1:H:83:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:ARG:HD3	1:H:292:LEU:HD12	1.98	0.45
1:H:225:GLN:HG3	1:H:258:LEU:HD22	1.98	0.45
1:H:389:ILE:CD1	1:H:446:HIS:HE2	2.14	0.45
1:H:491:PHE:CD1	1:H:491:PHE:N	2.83	0.45
1:H:1059:ASP:HB3	1:H:1071:ALA:HB3	1.98	0.45
1:I:117:ASN:O	1:I:118:GLN:C	2.53	0.45
1:I:458:LEU:HG	1:I:587:ARG:HH22	1.81	0.45
1:J:475:LEU:HA	1:J:478:ILE:HD12	1.98	0.45
1:K:458:LEU:HG	1:K:587:ARG:HH22	1.81	0.45
1:K:841:PHE:O	1:K:842:LEU:HB2	2.17	0.45
1:L:542:ILE:HA	1:L:545:PHE:HD2	1.82	0.45
1:L:557:LYS:NZ	1:L:1223:GLN:HG3	2.31	0.45
1:L:633:THR:HG22	1:L:643:TYR:HA	1.97	0.45
1:M:127:ARG:HD3	1:M:292:LEU:HD12	1.98	0.45
1:M:322:ARG:C	1:M:324:LEU:H	2.19	0.45
1:M:542:ILE:HA	1:M:545:PHE:HD2	1.81	0.45
1:M:552:ASN:HB3	1:M:1226:TYR:CE1	2.48	0.45
1:M:1036:VAL:HG12	1:M:1037:ASP:N	2.31	0.45
1:N:491:PHE:N	1:N:491:PHE:CD1	2.83	0.45
1:N:1075:SER:OG	1:N:1094:ASP:O	2.29	0.45
1:O:127:ARG:HD3	1:O:292:LEU:HD12	1.98	0.45
1:O:293:THR:HG22	1:O:295:ASP:H	1.80	0.45
1:O:480:HIS:O	1:O:483:ARG:HG2	2.16	0.45
1:O:491:PHE:N	1:O:491:PHE:CD1	2.83	0.45
1:P:382:PRO:HA	1:P:419:THR:CG2	2.36	0.45
1:P:523:PHE:HD1	1:P:527:TYR:CE2	2.28	0.45
1:P:656:ARG:HG2	1:P:657:MET:H	1.81	0.45
1:P:841:PHE:O	1:P:842:LEU:HB2	2.17	0.45
1:A:458:LEU:CG	1:A:587:ARG:NH2	2.74	0.45
1:A:662:GLN:O	1:A:663:GLN:HG2	2.17	0.45
1:B:80:VAL:HA	1:B:83:ILE:HD12	1.98	0.45
1:B:85:TYR:HB2	1:B:87:PHE:CE2	2.51	0.45
1:B:180:TRP:C	1:B:181:LEU:HD12	2.36	0.45
1:B:475:LEU:HA	1:B:478:ILE:HD12	1.98	0.45
1:B:542:ILE:HA	1:B:545:PHE:HD2	1.82	0.45
1:B:898:VAL:HG13	1:B:930:HIS:CD2	2.52	0.45
1:C:133:LYS:O	1:C:136:GLN:HB3	2.16	0.45
1:C:453:PHE:CE2	1:C:460:PRO:HB3	2.49	0.45
1:C:508:TRP:O	1:C:606:GLY:CA	2.63	0.45
1:C:543:LEU:O	1:C:547:PRO:HD2	2.16	0.45
1:C:597:HIS:CD2	1:C:598:GLN:H	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:898:VAL:HG13	1:C:930:HIS:CD2	2.52	0.45
1:D:458:LEU:HA	1:D:587:ARG:HH21	1.80	0.45
1:D:866:LYS:HE2	1:D:872:ARG:HH11	1.81	0.45
1:E:80:VAL:HA	1:E:83:ILE:HD12	1.98	0.45
1:E:597:HIS:CD2	1:E:598:GLN:H	2.34	0.45
1:E:902:ILE:HD13	1:E:930:HIS:CE1	2.43	0.45
1:E:1201:THR:OG1	1:E:1202:MET:N	2.48	0.45
1:F:36:PRO:HG2	1:F:39:ILE:CG2	2.46	0.45
1:F:392:ASP:OD1	1:F:393:VAL:N	2.47	0.45
1:F:453:PHE:CE1	1:F:460:PRO:HB3	2.51	0.45
1:F:502:ARG:HD3	1:F:516:ASN:HA	1.96	0.45
1:F:811:ASP:OD1	1:F:812:THR:N	2.47	0.45
1:F:1075:SER:OG	1:F:1094:ASP:O	2.29	0.45
1:G:102:MET:O	1:G:105:MET:N	2.46	0.45
1:G:293:THR:O	1:G:296:GLU:N	2.40	0.45
1:H:146:ASN:HB2	1:H:280:THR:HG22	1.98	0.45
1:H:293:THR:O	1:H:296:GLU:N	2.40	0.45
1:H:480:HIS:O	1:H:483:ARG:HG2	2.16	0.45
1:H:557:LYS:NZ	1:H:1223:GLN:HG3	2.31	0.45
1:I:1036:VAL:HG12	1:I:1037:ASP:N	2.31	0.45
1:J:80:VAL:HA	1:J:83:ILE:HD12	1.97	0.45
1:J:552:ASN:HB3	1:J:1226:TYR:CE1	2.48	0.45
1:J:557:LYS:CD	1:J:1223:GLN:HE21	2.30	0.45
1:K:207:TRP:CH2	1:K:209:SER:HA	2.51	0.45
1:K:502:ARG:HD3	1:K:516:ASN:HA	1.96	0.45
1:L:36:PRO:HG2	1:L:39:ILE:CG2	2.47	0.45
1:L:80:VAL:HA	1:L:83:ILE:HD12	1.97	0.45
1:L:117:ASN:O	1:L:118:GLN:C	2.53	0.45
1:L:508:TRP:O	1:L:606:GLY:CA	2.63	0.45
1:L:557:LYS:CD	1:L:1223:GLN:HE21	2.30	0.45
1:L:898:VAL:HG13	1:L:930:HIS:CD2	2.52	0.45
1:M:80:VAL:HA	1:M:83:ILE:HD12	1.98	0.45
1:M:376:PRO:HA	1:M:377:PRO:HD3	1.89	0.45
1:M:898:VAL:HG13	1:M:930:HIS:CD2	2.52	0.45
1:N:36:PRO:HG2	1:N:39:ILE:CG2	2.47	0.45
1:N:496:PHE:HE2	1:N:555:CYS:HG	1.64	0.45
1:N:662:GLN:O	1:N:663:GLN:HG2	2.17	0.45
1:N:1035:TYR:HA	1:N:1057:PRO:HG2	1.99	0.45
1:O:225:GLN:HG3	1:O:258:LEU:HD22	1.98	0.45
1:O:523:PHE:HD1	1:O:527:TYR:CE2	2.28	0.45
1:O:1059:ASP:HB3	1:O:1071:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:127:ARG:HD3	1:P:292:LEU:HD12	1.98	0.45
1:P:180:TRP:C	1:P:181:LEU:HD12	2.36	0.45
1:P:293:THR:O	1:P:296:GLU:N	2.40	0.45
1:P:597:HIS:CD2	1:P:598:GLN:H	2.34	0.45
1:A:322:ARG:C	1:A:324:LEU:H	2.19	0.45
1:A:361:GLU:HB2	1:A:364:GLU:HB3	1.98	0.45
1:A:496:PHE:HE2	1:A:555:CYS:HG	1.64	0.45
1:A:1075:SER:OG	1:A:1094:ASP:O	2.29	0.45
1:B:322:ARG:C	1:B:324:LEU:H	2.19	0.45
1:B:557:LYS:NZ	1:B:1223:GLN:HG3	2.31	0.45
1:C:511:SER:C	1:C:513:SER:N	2.61	0.45
1:C:542:ILE:HA	1:C:545:PHE:HD2	1.82	0.45
1:C:1035:TYR:HA	1:C:1057:PRO:HG2	1.99	0.45
1:D:382:PRO:HA	1:D:419:THR:CG2	2.36	0.45
1:D:475:LEU:HA	1:D:478:ILE:HD12	1.98	0.45
1:D:508:TRP:O	1:D:606:GLY:CA	2.63	0.45
1:D:597:HIS:CD2	1:D:598:GLN:H	2.34	0.45
1:E:443:ILE:HG21	1:E:477:ASN:ND2	2.24	0.45
1:E:475:LEU:HA	1:E:478:ILE:HD12	1.99	0.45
1:E:543:LEU:O	1:E:547:PRO:HD2	2.16	0.45
1:E:557:LYS:CD	1:E:1223:GLN:HE21	2.30	0.45
1:E:841:PHE:O	1:E:842:LEU:HB2	2.17	0.45
1:F:91:PRO:O	1:F:94:THR:OG1	2.21	0.45
1:G:557:LYS:NZ	1:G:1223:GLN:HG3	2.31	0.45
1:G:584:PHE:HB3	1:G:585:ASP:H	1.61	0.45
1:G:656:ARG:HG2	1:G:657:MET:H	1.81	0.45
1:G:841:PHE:O	1:G:842:LEU:HB2	2.17	0.45
1:H:130:PRO:HA	1:H:290:MET:HE3	1.98	0.45
1:H:293:THR:HG22	1:H:295:ASP:H	1.80	0.45
1:I:146:ASN:HB2	1:I:280:THR:HG22	1.98	0.45
1:I:597:HIS:CD2	1:I:598:GLN:H	2.34	0.45
1:J:336:ALA:O	1:J:337:THR:OG1	2.35	0.45
1:J:597:HIS:CD2	1:J:598:GLN:H	2.34	0.45
1:J:1201:THR:OG1	1:J:1202:MET:N	2.48	0.45
1:K:11:GLN:O	1:K:14:ASP:N	2.46	0.45
1:K:371:ARG:HB3	1:K:389:ILE:CG2	2.45	0.45
1:K:597:HIS:CD2	1:K:598:GLN:H	2.34	0.45
1:K:656:ARG:HG2	1:K:657:MET:H	1.81	0.45
1:K:866:LYS:HE2	1:K:872:ARG:HH11	1.81	0.45
1:L:127:ARG:HD3	1:L:292:LEU:HD12	1.98	0.45
1:L:480:HIS:O	1:L:483:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:543:LEU:O	1:L:547:PRO:HD2	2.16	0.45
1:L:597:HIS:CD2	1:L:598:GLN:H	2.34	0.45
1:M:85:TYR:HB2	1:M:87:PHE:CE2	2.51	0.45
1:M:180:TRP:C	1:M:181:LEU:HD12	2.36	0.45
1:N:322:ARG:C	1:N:324:LEU:H	2.19	0.45
1:N:1036:VAL:HG12	1:N:1037:ASP:N	2.31	0.45
1:N:1177:TYR:HE2	1:O:916:LYS:HE2	1.81	0.45
1:O:146:ASN:HB2	1:O:280:THR:HG22	1.98	0.45
1:O:293:THR:O	1:O:296:GLU:N	2.40	0.45
1:O:322:ARG:C	1:O:324:LEU:H	2.19	0.45
1:P:146:ASN:HB2	1:P:280:THR:HG22	1.98	0.45
1:P:557:LYS:NZ	1:P:1223:GLN:HG3	2.31	0.45
1:P:604:ASN:ND2	1:P:929:VAL:H	2.04	0.45
1:A:180:TRP:C	1:A:181:LEU:HD12	2.36	0.45
1:A:269:LYS:HB3	1:A:407:LYS:O	2.17	0.45
1:A:898:VAL:HG13	1:A:930:HIS:CD2	2.52	0.45
1:A:1035:TYR:HA	1:A:1057:PRO:HG2	1.99	0.45
1:A:1036:VAL:HG12	1:A:1037:ASP:N	2.31	0.45
1:B:376:PRO:HA	1:B:377:PRO:HD3	1.89	0.45
1:B:641:ASP:OD1	1:B:642:THR:N	2.45	0.45
1:D:11:GLN:O	1:D:14:ASP:N	2.46	0.45
1:E:336:ALA:O	1:E:337:THR:OG1	2.35	0.45
1:E:633:THR:HG22	1:E:643:TYR:HA	1.97	0.45
1:E:999:ALA:HA	1:E:1019:LYS:HA	1.98	0.45
1:F:898:VAL:HG13	1:F:930:HIS:CD2	2.52	0.45
1:F:1059:ASP:HB3	1:F:1071:ALA:HB3	1.98	0.45
1:G:146:ASN:HB2	1:G:280:THR:HG22	1.98	0.45
1:G:322:ARG:C	1:G:324:LEU:H	2.19	0.45
1:G:523:PHE:HD1	1:G:527:TYR:CE2	2.28	0.45
1:G:604:ASN:ND2	1:G:929:VAL:H	2.04	0.45
1:G:1035:TYR:HA	1:G:1057:PRO:HG2	1.99	0.45
1:G:1201:THR:OG1	1:G:1202:MET:N	2.48	0.45
1:H:133:LYS:O	1:H:136:GLN:HB3	2.16	0.45
1:H:180:TRP:C	1:H:181:LEU:HD12	2.36	0.45
1:H:898:VAL:HG13	1:H:930:HIS:CD2	2.52	0.45
1:H:1035:TYR:HA	1:H:1057:PRO:HG2	1.99	0.45
1:I:36:PRO:HG2	1:I:39:ILE:CG2	2.46	0.45
1:I:225:GLN:HG3	1:I:258:LEU:HD22	1.98	0.45
1:I:317:LEU:C	1:I:318:THR:HG1	1.94	0.45
1:I:1059:ASP:HB3	1:I:1071:ALA:HB3	1.98	0.45
1:I:1075:SER:OG	1:I:1094:ASP:O	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:480:HIS:O	1:J:483:ARG:HG2	2.16	0.45
1:J:543:LEU:O	1:J:547:PRO:HD2	2.16	0.45
1:J:999:ALA:HA	1:J:1019:LYS:HA	1.98	0.45
1:K:117:ASN:O	1:K:118:GLN:C	2.53	0.45
1:K:475:LEU:HA	1:K:478:ILE:HD12	1.98	0.45
1:L:475:LEU:HA	1:L:478:ILE:HD12	1.98	0.45
1:L:511:SER:C	1:L:513:SER:N	2.60	0.45
1:M:170:VAL:O	1:M:173:LYS:N	2.48	0.45
1:M:225:GLN:HG3	1:M:258:LEU:HD22	1.98	0.45
1:M:641:ASP:OD1	1:M:642:THR:N	2.45	0.45
1:M:1035:TYR:HA	1:M:1057:PRO:HG2	1.99	0.45
1:N:457:ASP:OD2	1:N:458:LEU:HB2	2.17	0.45
1:N:898:VAL:HG13	1:N:930:HIS:CD2	2.52	0.45
1:O:133:LYS:O	1:O:136:GLN:HB3	2.16	0.45
1:O:249:ASN:O	1:O:251:APK:O	2.35	0.45
1:O:898:VAL:HG13	1:O:930:HIS:CD2	2.52	0.45
1:O:1035:TYR:HA	1:O:1057:PRO:HG2	1.99	0.45
1:P:322:ARG:C	1:P:324:LEU:H	2.19	0.45
1:P:1035:TYR:HA	1:P:1057:PRO:HG2	1.99	0.45
1:P:1201:THR:OG1	1:P:1202:MET:N	2.48	0.45
1:A:225:GLN:HG3	1:A:258:LEU:HD22	1.98	0.45
1:A:249:ASN:O	1:A:251:APK:O	2.35	0.45
1:A:457:ASP:OD2	1:A:458:LEU:HB2	2.17	0.45
1:A:480:HIS:O	1:A:483:ARG:HG2	2.16	0.45
1:A:782:CYS:HB3	1:A:816:LEU:HD13	1.99	0.45
1:B:170:VAL:O	1:B:173:LYS:N	2.48	0.45
1:B:225:GLN:HG3	1:B:258:LEU:HD22	1.98	0.45
1:B:480:HIS:O	1:B:483:ARG:HG2	2.16	0.45
1:B:508:TRP:O	1:B:606:GLY:CA	2.63	0.45
1:C:111:ASP:HB3	1:D:144:ALA:HB3	1.97	0.45
1:C:180:TRP:C	1:C:181:LEU:HD12	2.36	0.45
1:C:554:ILE:O	1:C:556:SER:N	2.45	0.45
1:C:557:LYS:CD	1:C:1223:GLN:HE21	2.30	0.45
1:D:117:ASN:O	1:D:118:GLN:C	2.53	0.45
1:D:269:LYS:HB3	1:D:407:LYS:O	2.17	0.45
1:D:371:ARG:HB3	1:D:389:ILE:CG2	2.45	0.45
1:D:557:LYS:NZ	1:D:1223:GLN:HG3	2.31	0.45
1:D:656:ARG:HG2	1:D:657:MET:H	1.81	0.45
1:E:337:THR:OG1	1:E:340:ASN:N	2.50	0.45
1:F:180:TRP:C	1:F:181:LEU:HD12	2.36	0.45
1:G:458:LEU:HG	1:G:587:ARG:HH22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1059:ASP:HB3	1:G:1071:ALA:HB3	1.98	0.45
1:H:249:ASN:O	1:H:251:APK:O	2.35	0.45
1:H:358:ASN:HA	1:H:366:ARG:NH2	2.31	0.45
1:H:523:PHE:HD1	1:H:527:TYR:CE2	2.28	0.45
1:H:662:GLN:O	1:H:663:GLN:HG2	2.17	0.45
1:I:336:ALA:O	1:I:337:THR:OG1	2.35	0.45
1:I:604:ASN:ND2	1:I:929:VAL:H	2.04	0.45
1:I:999:ALA:HA	1:I:1019:LYS:HA	1.98	0.45
1:I:1035:TYR:HA	1:I:1057:PRO:HG2	1.99	0.45
1:J:222:HIS:CG	1:K:198:LYS:NZ	2.84	0.45
1:J:337:THR:OG1	1:J:340:ASN:N	2.50	0.45
1:J:443:ILE:HG21	1:J:477:ASN:ND2	2.24	0.45
1:J:633:THR:HG22	1:J:643:TYR:HA	1.97	0.45
1:J:1188:LYS:HG3	1:J:1189:ALA:H	1.82	0.45
1:K:222:HIS:CD2	1:L:198:LYS:HG2	2.52	0.45
1:K:508:TRP:O	1:K:606:GLY:CA	2.63	0.45
1:L:180:TRP:C	1:L:181:LEU:HD12	2.36	0.45
1:L:1035:TYR:HA	1:L:1057:PRO:HG2	1.99	0.45
1:M:480:HIS:O	1:M:483:ARG:HG2	2.16	0.45
1:M:1201:THR:OG1	1:M:1202:MET:N	2.48	0.45
1:N:249:ASN:O	1:N:251:APK:O	2.35	0.45
1:N:269:LYS:HB3	1:N:407:LYS:O	2.17	0.45
1:N:480:HIS:O	1:N:483:ARG:HG2	2.16	0.45
1:N:782:CYS:HB3	1:N:816:LEU:HD13	1.99	0.45
1:O:269:LYS:HB3	1:O:407:LYS:O	2.17	0.45
1:O:557:LYS:NZ	1:O:1223:GLN:HG3	2.31	0.45
1:A:841:PHE:O	1:A:842:LEU:HB2	2.17	0.45
1:B:662:GLN:O	1:B:663:GLN:HG2	2.17	0.45
1:B:782:CYS:HB3	1:B:816:LEU:HD13	1.99	0.45
1:B:1098:LEU:HG	1:B:1111:GLU:HG2	1.98	0.45
1:B:1201:THR:OG1	1:B:1202:MET:N	2.48	0.45
1:D:127:ARG:HD3	1:D:292:LEU:HD12	1.98	0.45
1:D:337:THR:OG1	1:D:340:ASN:N	2.50	0.45
1:D:542:ILE:HA	1:D:545:PHE:HD2	1.82	0.45
1:E:451:LYS:CD	1:E:486:LEU:HD21	2.33	0.45
1:E:457:ASP:OD2	1:E:458:LEU:HB2	2.17	0.45
1:E:1188:LYS:HG3	1:E:1189:ALA:H	1.82	0.45
1:F:117:ASN:O	1:F:118:GLN:C	2.53	0.45
1:F:480:HIS:O	1:F:483:ARG:HG2	2.16	0.45
1:F:1035:TYR:HA	1:F:1057:PRO:HG2	1.99	0.45
1:G:382:PRO:HA	1:G:419:THR:CG2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:491:PHE:N	1:G:491:PHE:CD1	2.83	0.45
1:H:269:LYS:HB3	1:H:407:LYS:O	2.17	0.45
1:H:656:ARG:HG2	1:H:657:MET:H	1.81	0.45
1:H:999:ALA:HA	1:H:1019:LYS:HA	1.98	0.45
1:I:557:LYS:CD	1:I:1223:GLN:HE21	2.30	0.45
1:J:457:ASP:OD2	1:J:458:LEU:HB2	2.17	0.45
1:K:127:ARG:HD3	1:K:292:LEU:HD12	1.98	0.45
1:K:269:LYS:HB3	1:K:407:LYS:O	2.17	0.45
1:K:458:LEU:HA	1:K:587:ARG:HH21	1.80	0.45
1:K:542:ILE:HA	1:K:545:PHE:HD2	1.82	0.45
1:K:557:LYS:NZ	1:K:1223:GLN:HG3	2.31	0.45
1:L:225:GLN:HG3	1:L:258:LEU:HD22	1.98	0.45
1:L:361:GLU:HB2	1:L:364:GLU:HB3	1.98	0.45
1:L:638:GLU:OE1	1:L:640:GLU:N	2.42	0.45
1:L:641:ASP:OD1	1:L:642:THR:N	2.45	0.45
1:L:782:CYS:HB3	1:L:816:LEU:HD13	1.99	0.45
1:L:841:PHE:O	1:L:842:LEU:HB2	2.17	0.45
1:M:269:LYS:HB3	1:M:407:LYS:O	2.17	0.45
1:M:508:TRP:O	1:M:606:GLY:CA	2.63	0.45
1:M:557:LYS:NZ	1:M:1223:GLN:HG3	2.32	0.45
1:M:662:GLN:O	1:M:663:GLN:HG2	2.17	0.45
1:M:782:CYS:HB3	1:M:816:LEU:HD13	1.99	0.45
1:N:225:GLN:HG3	1:N:258:LEU:HD22	1.98	0.45
1:N:462:TYR:OH	1:N:494:PHE:CZ	2.66	0.45
1:O:85:TYR:HB2	1:O:87:PHE:CE2	2.51	0.45
1:O:662:GLN:O	1:O:663:GLN:HG2	2.17	0.45
1:O:999:ALA:HA	1:O:1019:LYS:HA	1.98	0.45
1:P:458:LEU:HG	1:P:587:ARG:HH22	1.81	0.45
1:P:584:PHE:HB3	1:P:585:ASP:H	1.61	0.45
1:P:1059:ASP:HB3	1:P:1071:ALA:HB3	1.98	0.45
1:A:198:LYS:NZ	1:B:222:HIS:CD2	2.85	0.45
1:A:542:ILE:HA	1:A:545:PHE:HD2	1.82	0.45
1:A:999:ALA:HA	1:A:1019:LYS:HA	1.98	0.45
1:B:54:ALA:O	1:B:58:THR:N	2.48	0.45
1:B:457:ASP:OD2	1:B:458:LEU:HB2	2.17	0.45
1:C:322:ARG:C	1:C:324:LEU:H	2.19	0.45
1:C:324:LEU:HD12	1:C:324:LEU:HA	1.61	0.45
1:C:782:CYS:HB3	1:C:816:LEU:HD13	1.99	0.45
1:C:841:PHE:O	1:C:842:LEU:HB2	2.17	0.45
1:D:491:PHE:N	1:D:491:PHE:CD1	2.83	0.45
1:E:249:ASN:O	1:E:251:APK:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:458:LEU:HG	1:E:587:ARG:HH22	1.81	0.45
1:E:584:PHE:HB3	1:E:585:ASP:H	1.61	0.45
1:E:1035:TYR:HA	1:E:1057:PRO:HG2	1.99	0.45
1:E:1158:TYR:HE2	1:E:1160:ASN:HB2	1.82	0.45
1:F:225:GLN:HG3	1:F:258:LEU:HD22	1.98	0.45
1:F:231:LEU:O	1:F:234:SER:OG	2.26	0.45
1:F:999:ALA:HA	1:F:1019:LYS:HA	1.98	0.45
1:G:1188:LYS:HG3	1:G:1189:ALA:H	1.82	0.45
1:I:898:VAL:HG13	1:I:930:HIS:CD2	2.52	0.45
1:J:249:ASN:O	1:J:251:APK:O	2.35	0.45
1:J:542:ILE:HA	1:J:545:PHE:HD2	1.82	0.45
1:J:898:VAL:HG13	1:J:930:HIS:CD2	2.52	0.45
1:J:1035:TYR:HA	1:J:1057:PRO:HG2	1.99	0.45
1:K:80:VAL:HA	1:K:83:ILE:HD12	1.98	0.45
1:K:222:HIS:CD2	1:L:198:LYS:HZ2	2.30	0.45
1:K:337:THR:OG1	1:K:340:ASN:N	2.50	0.45
1:K:457:ASP:OD2	1:K:458:LEU:HB2	2.17	0.45
1:K:491:PHE:CD1	1:K:491:PHE:N	2.83	0.45
1:L:269:LYS:HB3	1:L:407:LYS:O	2.17	0.45
1:L:322:ARG:C	1:L:324:LEU:H	2.19	0.45
1:M:337:THR:OG1	1:M:340:ASN:N	2.50	0.45
1:M:457:ASP:OD2	1:M:458:LEU:HB2	2.17	0.45
1:N:180:TRP:C	1:N:181:LEU:HD12	2.36	0.45
1:N:542:ILE:HA	1:N:545:PHE:HD2	1.81	0.45
1:N:841:PHE:O	1:N:842:LEU:HB2	2.17	0.45
1:O:102:MET:O	1:O:105:MET:N	2.46	0.45
1:O:180:TRP:C	1:O:181:LEU:HD12	2.36	0.45
1:O:358:ASN:HA	1:O:366:ARG:NH2	2.31	0.45
1:P:491:PHE:CD1	1:P:491:PHE:N	2.83	0.45
1:A:127:ARG:HD3	1:A:292:LEU:HD12	1.98	0.45
1:A:341:TRP:O	1:A:341:TRP:CE3	2.70	0.45
1:A:458:LEU:CA	1:A:587:ARG:HH21	2.30	0.45
1:A:462:TYR:OH	1:A:494:PHE:CZ	2.66	0.45
1:A:641:ASP:OD1	1:A:642:THR:N	2.45	0.45
1:B:11:GLN:O	1:B:14:ASP:N	2.46	0.45
1:B:36:PRO:HG2	1:B:39:ILE:CG2	2.47	0.45
1:B:154:GLY:O	1:B:155:SER:OG	2.35	0.45
1:B:269:LYS:HB3	1:B:407:LYS:O	2.17	0.45
1:B:337:THR:OG1	1:B:340:ASN:N	2.50	0.45
1:B:462:TYR:OH	1:B:494:PHE:CZ	2.66	0.45
1:C:15:ILE:HD11	1:C:103:THR:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:225:GLN:HG3	1:C:258:LEU:HD22	1.98	0.45
1:C:269:LYS:HB3	1:C:407:LYS:O	2.17	0.45
1:D:249:ASN:O	1:D:251:APK:O	2.35	0.45
1:D:898:VAL:HG13	1:D:930:HIS:CD2	2.52	0.45
1:E:542:ILE:HA	1:E:545:PHE:HD2	1.82	0.45
1:E:662:GLN:O	1:E:663:GLN:HG2	2.17	0.45
1:E:898:VAL:HG13	1:E:930:HIS:CD2	2.52	0.45
1:F:1158:TYR:HE2	1:F:1160:ASN:HB2	1.82	0.45
1:G:866:LYS:HE2	1:G:872:ARG:HH11	1.81	0.45
1:H:85:TYR:HB2	1:H:87:PHE:CE2	2.51	0.45
1:H:292:LEU:HB2	1:H:319:THR:HB	1.99	0.45
1:H:1098:LEU:HG	1:H:1111:GLU:HG2	1.99	0.45
1:H:1158:TYR:HE2	1:H:1160:ASN:HB2	1.82	0.45
1:I:1158:TYR:HE2	1:I:1160:ASN:HB2	1.83	0.45
1:J:662:GLN:O	1:J:663:GLN:HG2	2.17	0.45
1:K:15:ILE:HD11	1:K:103:THR:HG21	1.99	0.45
1:K:249:ASN:O	1:K:251:APK:O	2.35	0.45
1:K:898:VAL:HG13	1:K:930:HIS:CD2	2.52	0.45
1:K:1158:TYR:HE2	1:K:1160:ASN:HB2	1.82	0.45
1:L:142:ARG:NH1	1:M:14:ASP:OD2	2.48	0.45
1:L:656:ARG:HG2	1:L:657:MET:H	1.81	0.45
1:M:36:PRO:HG2	1:M:39:ILE:CG2	2.46	0.45
1:M:54:ALA:O	1:M:58:THR:N	2.48	0.45
1:M:133:LYS:O	1:M:136:GLN:HB3	2.16	0.45
1:M:154:GLY:O	1:M:155:SER:OG	2.35	0.45
1:M:249:ASN:O	1:M:251:APK:O	2.35	0.45
1:M:371:ARG:HB3	1:M:389:ILE:CG2	2.45	0.45
1:M:458:LEU:CA	1:M:587:ARG:HH21	2.30	0.45
1:M:462:TYR:OH	1:M:494:PHE:CZ	2.66	0.45
1:N:458:LEU:CA	1:N:587:ARG:HH21	2.30	0.45
1:N:999:ALA:HA	1:N:1019:LYS:HA	1.98	0.45
1:O:292:LEU:HB2	1:O:319:THR:HB	1.99	0.45
1:O:656:ARG:HG2	1:O:657:MET:H	1.81	0.45
1:O:866:LYS:HE2	1:O:872:ARG:HH11	1.81	0.45
1:O:1098:LEU:HG	1:O:1111:GLU:HG2	1.99	0.45
1:O:1158:TYR:HE2	1:O:1160:ASN:HB2	1.82	0.45
1:P:458:LEU:CA	1:P:587:ARG:HH21	2.30	0.45
1:P:480:HIS:O	1:P:483:ARG:HG2	2.16	0.45
1:P:866:LYS:HE2	1:P:872:ARG:HH11	1.81	0.45
1:A:80:VAL:HA	1:A:83:ILE:HD12	1.98	0.44
1:A:157:LYS:N	2:A:1501:DTP:O2B	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:388:LEU:HB3	1:A:446:HIS:CE1	2.52	0.44
1:B:249:ASN:O	1:B:251:APK:O	2.35	0.44
1:B:371:ARG:HB3	1:B:389:ILE:CG2	2.45	0.44
1:B:388:LEU:HB3	1:B:446:HIS:CE1	2.52	0.44
1:B:491:PHE:N	1:B:491:PHE:CD1	2.83	0.44
1:B:1158:TYR:HE2	1:B:1160:ASN:HB2	1.83	0.44
1:C:154:GLY:O	1:C:155:SER:OG	2.35	0.44
1:C:317:LEU:O	1:C:318:THR:CB	2.61	0.44
1:C:361:GLU:HB2	1:C:364:GLU:HB3	1.98	0.44
1:C:638:GLU:OE1	1:C:640:GLU:N	2.42	0.44
1:C:1158:TYR:HE2	1:C:1160:ASN:HB2	1.82	0.44
1:D:15:ILE:HD11	1:D:103:THR:HG21	1.99	0.44
1:D:80:VAL:HA	1:D:83:ILE:HD12	1.98	0.44
1:D:457:ASP:OD2	1:D:458:LEU:HB2	2.17	0.44
1:D:641:ASP:OD1	1:D:642:THR:N	2.45	0.44
1:E:269:LYS:HB3	1:E:407:LYS:O	2.17	0.44
1:E:341:TRP:CE3	1:E:341:TRP:O	2.70	0.44
1:E:491:PHE:N	1:E:491:PHE:CD1	2.83	0.44
1:F:54:ALA:O	1:F:58:THR:N	2.48	0.44
1:F:269:LYS:HB3	1:F:407:LYS:O	2.17	0.44
1:F:361:GLU:HB2	1:F:364:GLU:HB3	1.98	0.44
1:F:1188:LYS:HG3	1:F:1189:ALA:H	1.82	0.44
1:G:15:ILE:HD11	1:G:103:THR:HG21	1.99	0.44
1:G:36:PRO:HG2	1:G:39:ILE:CG2	2.47	0.44
1:G:157:LYS:N	2:G:1501:DTP:O2B	2.51	0.44
1:G:207:TRP:CH2	1:G:209:SER:HA	2.51	0.44
1:G:392:ASP:OD1	1:G:393:VAL:N	2.47	0.44
1:G:458:LEU:CA	1:G:587:ARG:HH21	2.31	0.44
1:I:361:GLU:HB2	1:I:364:GLU:HB3	1.98	0.44
1:I:413:LYS:CD	1:I:422:ILE:O	2.61	0.44
1:I:480:HIS:O	1:I:483:ARG:HG2	2.16	0.44
1:I:1188:LYS:HG3	1:I:1189:ALA:H	1.82	0.44
1:J:269:LYS:HB3	1:J:407:LYS:O	2.17	0.44
1:J:292:LEU:HB2	1:J:319:THR:HB	1.99	0.44
1:J:458:LEU:HG	1:J:587:ARG:HH22	1.81	0.44
1:J:1158:TYR:HE2	1:J:1160:ASN:HB2	1.83	0.44
1:K:36:PRO:HG2	1:K:39:ILE:CG2	2.46	0.44
1:K:782:CYS:HB3	1:K:816:LEU:HD13	1.99	0.44
1:L:15:ILE:HD11	1:L:103:THR:HG21	1.99	0.44
1:L:157:LYS:N	2:L:1501:DTP:O1B	2.51	0.44
1:L:988:ASP:OD1	1:L:989:SER:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:11:GLN:O	1:M:14:ASP:N	2.46	0.44
1:M:1098:LEU:HG	1:M:1111:GLU:HG2	1.99	0.44
1:M:1158:TYR:HE2	1:M:1160:ASN:HB2	1.82	0.44
1:N:80:VAL:HA	1:N:83:ILE:HD12	1.98	0.44
1:N:127:ARG:HD3	1:N:292:LEU:HD12	1.98	0.44
1:N:157:LYS:N	2:N:1501:DTP:O1B	2.51	0.44
1:N:341:TRP:O	1:N:341:TRP:CE3	2.71	0.44
1:N:358:ASN:HA	1:N:366:ARG:NH2	2.31	0.44
1:N:641:ASP:OD1	1:N:642:THR:N	2.45	0.44
1:N:1158:TYR:HE2	1:N:1160:ASN:HB2	1.82	0.44
1:P:15:ILE:HD11	1:P:103:THR:HG21	1.99	0.44
1:P:36:PRO:HG2	1:P:39:ILE:CG2	2.46	0.44
1:P:207:TRP:CH2	1:P:209:SER:HA	2.51	0.44
1:P:392:ASP:OD1	1:P:393:VAL:N	2.47	0.44
1:P:1158:TYR:HE2	1:P:1160:ASN:HB2	1.82	0.44
1:P:1188:LYS:HG3	1:P:1189:ALA:H	1.82	0.44
1:A:194:GLU:OE2	1:B:216:ASN:ND2	2.50	0.44
1:A:1158:TYR:HE2	1:A:1160:ASN:HB2	1.83	0.44
1:B:133:LYS:O	1:B:136:GLN:HB3	2.16	0.44
1:B:293:THR:HG22	1:B:295:ASP:H	1.80	0.44
1:B:341:TRP:O	1:B:341:TRP:CE3	2.71	0.44
1:B:361:GLU:HB2	1:B:364:GLU:HB3	1.98	0.44
1:B:458:LEU:CA	1:B:587:ARG:HH21	2.31	0.44
1:B:841:PHE:O	1:B:842:LEU:HB2	2.17	0.44
1:C:480:HIS:O	1:C:483:ARG:HG2	2.16	0.44
1:C:656:ARG:HG2	1:C:657:MET:H	1.81	0.44
1:C:662:GLN:O	1:C:663:GLN:HG2	2.17	0.44
1:D:1035:TYR:HA	1:D:1057:PRO:HG2	1.99	0.44
1:D:1158:TYR:HE2	1:D:1160:ASN:HB2	1.83	0.44
1:E:292:LEU:HB2	1:E:319:THR:HB	1.99	0.44
1:E:641:ASP:OD1	1:E:642:THR:N	2.45	0.44
1:F:15:ILE:HD11	1:F:103:THR:HG21	1.99	0.44
1:F:557:LYS:CD	1:F:1223:GLN:HE21	2.30	0.44
1:G:337:THR:OG1	1:G:340:ASN:N	2.50	0.44
1:G:480:HIS:O	1:G:483:ARG:HG2	2.16	0.44
1:G:1158:TYR:HE2	1:G:1160:ASN:HB2	1.82	0.44
1:H:15:ILE:HD11	1:H:103:THR:HG21	1.99	0.44
1:H:102:MET:O	1:H:105:MET:N	2.46	0.44
1:H:341:TRP:CE3	1:H:341:TRP:O	2.71	0.44
1:H:782:CYS:HB3	1:H:816:LEU:HD13	1.99	0.44
1:H:866:LYS:HE2	1:H:872:ARG:HH11	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1188:LYS:HG3	1:H:1189:ALA:H	1.82	0.44
1:I:180:TRP:C	1:I:181:LEU:HD12	2.36	0.44
1:I:249:ASN:O	1:I:251:APK:O	2.35	0.44
1:I:269:LYS:HB3	1:I:407:LYS:O	2.17	0.44
1:I:629:GLN:HG2	1:I:651:SER:H	1.83	0.44
1:J:15:ILE:HD11	1:J:103:THR:HG21	1.99	0.44
1:J:341:TRP:O	1:J:341:TRP:CE3	2.71	0.44
1:J:491:PHE:N	1:J:491:PHE:CD1	2.83	0.44
1:J:1098:LEU:HG	1:J:1111:GLU:HG2	1.99	0.44
1:K:144:ALA:HB3	1:L:111:ASP:HB3	1.99	0.44
1:K:1035:TYR:HA	1:K:1057:PRO:HG2	1.99	0.44
1:L:154:GLY:O	1:L:155:SER:OG	2.35	0.44
1:L:285:LEU:HD23	1:L:285:LEU:HA	1.74	0.44
1:L:1158:TYR:HE2	1:L:1160:ASN:HB2	1.82	0.44
1:M:388:LEU:HB3	1:M:446:HIS:CE1	2.53	0.44
1:M:491:PHE:N	1:M:491:PHE:CD1	2.83	0.44
1:N:388:LEU:HB3	1:N:446:HIS:CE1	2.52	0.44
1:N:1098:LEU:HG	1:N:1111:GLU:HG2	1.98	0.44
1:O:120:PHE:CE1	1:O:159:TRP:CE3	3.05	0.44
1:P:157:LYS:N	2:P:1501:DTP:O1B	2.51	0.44
1:P:269:LYS:HB3	1:P:407:LYS:O	2.17	0.44
1:P:337:THR:OG1	1:P:340:ASN:N	2.50	0.44
1:P:999:ALA:HA	1:P:1019:LYS:HA	1.98	0.44
1:A:122:LYS:HG3	1:B:276:SER:HB2	1.99	0.44
1:A:337:THR:OG1	1:A:340:ASN:N	2.50	0.44
1:A:358:ASN:HA	1:A:366:ARG:NH2	2.31	0.44
1:A:557:LYS:NZ	1:A:1223:GLN:HG3	2.32	0.44
1:A:629:GLN:HG2	1:A:651:SER:H	1.83	0.44
1:B:15:ILE:HD11	1:B:103:THR:HG21	1.99	0.44
1:B:292:LEU:HB2	1:B:319:THR:HB	1.99	0.44
1:C:157:LYS:N	2:C:1501:DTP:O2B	2.51	0.44
1:C:292:LEU:HB2	1:C:319:THR:HB	1.99	0.44
1:C:988:ASP:OD1	1:C:989:SER:N	2.43	0.44
1:D:36:PRO:HG2	1:D:39:ILE:CG2	2.46	0.44
1:D:341:TRP:O	1:D:341:TRP:CE3	2.70	0.44
1:D:417:GLU:O	1:D:417:GLU:HG2	2.18	0.44
1:D:782:CYS:HB3	1:D:816:LEU:HD13	1.99	0.44
1:E:15:ILE:HD11	1:E:103:THR:HG21	1.99	0.44
1:E:1098:LEU:HG	1:E:1111:GLU:HG2	1.99	0.44
1:F:266:THR:HG22	1:F:268:PHE:N	2.33	0.44
1:F:413:LYS:CD	1:F:422:ILE:O	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:457:ASP:OD2	1:F:458:LEU:HB2	2.17	0.44
1:F:557:LYS:NZ	1:F:1223:GLN:HG3	2.31	0.44
1:F:629:GLN:HG2	1:F:651:SER:H	1.83	0.44
1:F:957:ILE:HG13	1:F:1248:LEU:HD22	1.99	0.44
1:G:251:APK:H8	1:G:251:APK:H2'	1.74	0.44
1:G:341:TRP:O	1:G:341:TRP:CE3	2.70	0.44
1:G:440:HIS:O	1:G:444:VAL:HG23	2.18	0.44
1:G:999:ALA:HA	1:G:1019:LYS:HA	1.98	0.44
1:I:54:ALA:O	1:I:58:THR:N	2.48	0.44
1:I:122:LYS:HG3	1:P:276:SER:OG	2.16	0.44
1:I:266:THR:HG22	1:I:268:PHE:N	2.33	0.44
1:I:440:HIS:O	1:I:444:VAL:HG23	2.18	0.44
1:I:662:GLN:O	1:I:663:GLN:HG2	2.17	0.44
1:I:841:PHE:O	1:I:842:LEU:HB2	2.17	0.44
1:I:957:ILE:HG13	1:I:1248:LEU:HD22	1.99	0.44
1:J:200:LEU:HD12	1:J:200:LEU:HA	1.74	0.44
1:J:451:LYS:CD	1:J:486:LEU:HD21	2.33	0.44
1:J:584:PHE:HB3	1:J:585:ASP:H	1.61	0.44
1:K:341:TRP:CE3	1:K:341:TRP:O	2.70	0.44
1:K:417:GLU:HG2	1:K:417:GLU:O	2.18	0.44
1:K:641:ASP:OD1	1:K:642:THR:N	2.45	0.44
1:K:999:ALA:HA	1:K:1019:LYS:HA	1.98	0.44
1:K:1098:LEU:HG	1:K:1111:GLU:HG2	1.99	0.44
1:L:249:ASN:O	1:L:251:APK:O	2.35	0.44
1:L:457:ASP:OD2	1:L:458:LEU:HB2	2.17	0.44
1:L:662:GLN:O	1:L:663:GLN:HG2	2.17	0.44
1:M:20:GLU:HG3	1:M:21:ASP:N	2.33	0.44
1:M:292:LEU:HB2	1:M:319:THR:HB	1.99	0.44
1:M:293:THR:HG22	1:M:295:ASP:H	1.80	0.44
1:M:313:PRO:CG	1:M:338:TRP:CE2	2.94	0.44
1:M:341:TRP:CE3	1:M:341:TRP:O	2.71	0.44
1:M:361:GLU:HB2	1:M:364:GLU:HB3	1.98	0.44
1:M:633:THR:HG22	1:M:643:TYR:HA	1.97	0.44
1:M:841:PHE:O	1:M:842:LEU:HB2	2.17	0.44
1:N:629:GLN:HG2	1:N:651:SER:H	1.83	0.44
1:N:1188:LYS:HG3	1:N:1189:ALA:H	1.82	0.44
1:O:341:TRP:O	1:O:341:TRP:CE3	2.71	0.44
1:P:341:TRP:CE3	1:P:341:TRP:O	2.70	0.44
1:A:120:PHE:CE1	1:A:159:TRP:CE3	3.05	0.44
1:A:1098:LEU:HG	1:A:1111:GLU:HG2	1.99	0.44
1:B:20:GLU:HG3	1:B:21:ASP:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:313:PRO:CG	1:B:338:TRP:CE2	2.94	0.44
1:B:463:LEU:CD2	1:B:467:PHE:CD2	2.92	0.44
1:B:557:LYS:CD	1:B:1223:GLN:HE21	2.30	0.44
1:B:633:THR:HG22	1:B:643:TYR:HA	1.97	0.44
1:C:266:THR:HG22	1:C:268:PHE:N	2.33	0.44
1:C:457:ASP:OD2	1:C:458:LEU:HB2	2.17	0.44
1:D:154:GLY:O	1:D:155:SER:OG	2.35	0.44
1:D:462:TYR:CZ	1:D:494:PHE:CZ	3.03	0.44
1:D:999:ALA:HA	1:D:1019:LYS:HA	1.98	0.44
1:D:1098:LEU:HG	1:D:1111:GLU:HG2	1.99	0.44
1:E:234:SER:OG	1:E:235:LYS:N	2.51	0.44
1:E:458:LEU:CA	1:E:587:ARG:HH21	2.31	0.44
1:E:629:GLN:HG2	1:E:651:SER:H	1.83	0.44
1:E:782:CYS:HB3	1:E:816:LEU:HD13	1.99	0.44
1:F:249:ASN:O	1:F:251:APK:O	2.35	0.44
1:F:292:LEU:HB2	1:F:319:THR:HB	1.99	0.44
1:F:440:HIS:O	1:F:444:VAL:HG23	2.18	0.44
1:G:54:ALA:O	1:G:58:THR:N	2.48	0.44
1:G:249:ASN:O	1:G:251:APK:O	2.35	0.44
1:G:269:LYS:HB3	1:G:407:LYS:O	2.17	0.44
1:G:292:LEU:HB2	1:G:319:THR:HB	1.99	0.44
1:H:120:PHE:CE1	1:H:159:TRP:CE3	3.05	0.44
1:H:388:LEU:HB3	1:H:446:HIS:CE1	2.52	0.44
1:H:463:LEU:CD2	1:H:467:PHE:CD2	2.92	0.44
1:I:15:ILE:HD11	1:I:103:THR:HG21	1.99	0.44
1:I:292:LEU:HB2	1:I:319:THR:HB	1.99	0.44
1:I:458:LEU:HA	1:I:587:ARG:HH21	1.80	0.44
1:I:557:LYS:NZ	1:I:1223:GLN:HG3	2.31	0.44
1:I:1098:LEU:HG	1:I:1111:GLU:HG2	1.99	0.44
1:J:127:ARG:HD3	1:J:292:LEU:HD12	1.98	0.44
1:J:234:SER:OG	1:J:235:LYS:N	2.51	0.44
1:J:440:HIS:O	1:J:444:VAL:HG23	2.18	0.44
1:J:458:LEU:CA	1:J:587:ARG:HH21	2.31	0.44
1:J:782:CYS:HB3	1:J:816:LEU:HD13	1.99	0.44
1:K:154:GLY:O	1:K:155:SER:OG	2.35	0.44
1:L:292:LEU:HB2	1:L:319:THR:HB	2.00	0.44
1:L:1188:LYS:HG3	1:L:1189:ALA:H	1.82	0.44
1:M:15:ILE:HD11	1:M:103:THR:HG21	1.99	0.44
1:M:463:LEU:CD2	1:M:467:PHE:CD2	2.92	0.44
1:M:557:LYS:CD	1:M:1223:GLN:HE21	2.30	0.44
1:M:875:LEU:CD1	1:M:911:PHE:HD2	2.07	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1177:TYR:HE2	1:N:916:LYS:CE	2.30	0.44
1:N:15:ILE:HD11	1:N:103:THR:HG21	1.99	0.44
1:N:20:GLU:HG3	1:N:21:ASP:N	2.33	0.44
1:N:120:PHE:CE1	1:N:159:TRP:CE3	3.05	0.44
1:N:337:THR:OG1	1:N:340:ASN:N	2.50	0.44
1:N:557:LYS:NZ	1:N:1223:GLN:HG3	2.32	0.44
1:N:988:ASP:OD1	1:N:989:SER:N	2.43	0.44
1:O:15:ILE:HD11	1:O:103:THR:HG21	2.00	0.44
1:O:142:ARG:HH22	1:P:14:ASP:CG	2.21	0.44
1:O:388:LEU:HB3	1:O:446:HIS:CE1	2.52	0.44
1:O:457:ASP:OD2	1:O:458:LEU:HB2	2.17	0.44
1:P:292:LEU:HB2	1:P:319:THR:HB	1.99	0.44
1:P:440:HIS:O	1:P:444:VAL:HG23	2.18	0.44
1:A:15:ILE:HD11	1:A:103:THR:HG21	1.99	0.44
1:A:20:GLU:HG3	1:A:21:ASP:N	2.33	0.44
1:A:1188:LYS:HG3	1:A:1189:ALA:H	1.82	0.44
1:B:120:PHE:CE1	1:B:159:TRP:CE3	3.05	0.44
1:C:337:THR:OG1	1:C:340:ASN:N	2.50	0.44
1:D:409:SER:O	1:D:411:VAL:N	2.51	0.44
1:D:462:TYR:OH	1:D:494:PHE:CZ	2.66	0.44
1:E:20:GLU:HG3	1:E:21:ASP:N	2.33	0.44
1:E:127:ARG:HD3	1:E:292:LEU:HD12	1.97	0.44
1:E:417:GLU:HG2	1:E:417:GLU:O	2.18	0.44
1:E:440:HIS:O	1:E:444:VAL:HG23	2.18	0.44
1:F:234:SER:OG	1:F:235:LYS:N	2.51	0.44
1:F:662:GLN:O	1:F:663:GLN:HG2	2.17	0.44
1:F:1098:LEU:HG	1:F:1111:GLU:HG2	1.99	0.44
1:G:398:VAL:HG23	1:G:399:MET:N	2.28	0.44
1:G:799:ASN:C	1:G:800:THR:CG2	2.86	0.44
1:G:898:VAL:HG13	1:G:930:HIS:CD2	2.52	0.44
1:H:157:LYS:N	2:H:1501:DTP:O2B	2.51	0.44
1:H:266:THR:HG22	1:H:268:PHE:N	2.33	0.44
1:I:337:THR:OG1	1:I:340:ASN:N	2.50	0.44
1:J:557:LYS:NZ	1:J:1223:GLN:HG3	2.31	0.44
1:K:462:TYR:CZ	1:K:494:PHE:CZ	3.03	0.44
1:K:662:GLN:O	1:K:663:GLN:HG2	2.17	0.44
1:L:317:LEU:O	1:L:318:THR:CB	2.61	0.44
1:L:388:LEU:HB3	1:L:446:HIS:CE1	2.52	0.44
1:L:409:SER:O	1:L:411:VAL:N	2.51	0.44
1:L:417:GLU:O	1:L:417:GLU:HG2	2.18	0.44
1:M:120:PHE:CE1	1:M:159:TRP:CE3	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:20:GLU:HG3	1:O:21:ASP:N	2.33	0.44
1:O:157:LYS:N	2:O:1501:DTP:O1B	2.51	0.44
1:O:266:THR:HG22	1:O:268:PHE:N	2.33	0.44
1:O:782:CYS:HB3	1:O:816:LEU:HD13	1.99	0.44
1:O:1188:LYS:HG3	1:O:1189:ALA:H	1.82	0.44
1:P:249:ASN:O	1:P:251:APK:O	2.35	0.44
1:P:251:APK:H8	1:P:251:APK:H2'	1.73	0.44
1:P:398:VAL:HG23	1:P:399:MET:N	2.28	0.44
1:P:782:CYS:HB3	1:P:816:LEU:HD13	1.99	0.44
1:P:799:ASN:C	1:P:800:THR:CG2	2.86	0.44
1:P:988:ASP:OD1	1:P:989:SER:N	2.43	0.44
1:A:451:LYS:CD	1:A:486:LEU:HD21	2.33	0.44
1:A:557:LYS:CD	1:A:1223:GLN:HE21	2.30	0.44
1:B:453:PHE:CE2	1:B:460:PRO:HB3	2.49	0.44
1:B:554:ILE:O	1:B:556:SER:N	2.46	0.44
1:B:875:LEU:CD1	1:B:911:PHE:HD2	2.07	0.44
1:C:249:ASN:O	1:C:251:APK:O	2.35	0.44
1:C:409:SER:O	1:C:411:VAL:N	2.51	0.44
1:C:905:VAL:HG13	1:C:906:ASP:N	2.33	0.44
1:C:957:ILE:HG13	1:C:1248:LEU:HD22	1.99	0.44
1:C:1000:ILE:HD11	1:C:1014:ALA:HB3	2.00	0.44
1:C:1098:LEU:HG	1:C:1111:GLU:HG2	1.99	0.44
1:D:231:LEU:O	1:D:234:SER:OG	2.26	0.44
1:D:440:HIS:O	1:D:444:VAL:HG23	2.18	0.44
1:D:458:LEU:CA	1:D:587:ARG:HH21	2.30	0.44
1:E:557:LYS:NZ	1:E:1223:GLN:HG3	2.31	0.44
1:F:157:LYS:N	2:F:1501:DTP:O2B	2.51	0.44
1:F:463:LEU:CD2	1:F:467:PHE:CD2	2.92	0.44
1:F:491:PHE:N	1:F:491:PHE:CD1	2.83	0.44
1:F:782:CYS:HB3	1:F:816:LEU:HD13	1.99	0.44
1:F:841:PHE:O	1:F:842:LEU:HB2	2.16	0.44
1:G:409:SER:O	1:G:411:VAL:N	2.51	0.44
1:G:457:ASP:OD2	1:G:458:LEU:HB2	2.17	0.44
1:G:542:ILE:HA	1:G:545:PHE:HD2	1.82	0.44
1:G:988:ASP:OD1	1:G:989:SER:N	2.43	0.44
1:H:337:THR:OG1	1:H:340:ASN:N	2.50	0.44
1:H:417:GLU:HG2	1:H:417:GLU:O	2.18	0.44
1:H:457:ASP:OD2	1:H:458:LEU:HB2	2.17	0.44
1:H:458:LEU:CA	1:H:587:ARG:HH21	2.31	0.44
1:I:157:LYS:N	2:I:1501:DTP:O1B	2.51	0.44
1:I:234:SER:OG	1:I:235:LYS:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:457:ASP:OD2	1:I:458:LEU:HB2	2.17	0.44
1:I:782:CYS:HB3	1:I:816:LEU:HD13	1.99	0.44
1:J:629:GLN:HG2	1:J:651:SER:H	1.83	0.44
1:J:641:ASP:OD1	1:J:642:THR:N	2.45	0.44
1:K:409:SER:O	1:K:411:VAL:N	2.51	0.44
1:K:440:HIS:O	1:K:444:VAL:HG23	2.18	0.44
1:K:462:TYR:OH	1:K:494:PHE:CZ	2.66	0.44
1:L:182:ASN:HD22	1:L:245:LEU:HB2	1.83	0.44
1:L:266:THR:HG22	1:L:268:PHE:N	2.33	0.44
1:L:1000:ILE:HD11	1:L:1014:ALA:HB3	2.00	0.44
1:M:554:ILE:O	1:M:556:SER:N	2.46	0.44
1:N:54:ALA:O	1:N:58:THR:N	2.48	0.44
1:O:417:GLU:O	1:O:417:GLU:HG2	2.18	0.44
1:O:453:PHE:CE1	1:O:460:PRO:HB3	2.51	0.44
1:O:458:LEU:CA	1:O:587:ARG:HH21	2.30	0.44
1:P:54:ALA:O	1:P:58:THR:N	2.48	0.44
1:P:457:ASP:OD2	1:P:458:LEU:HB2	2.17	0.44
1:A:54:ALA:O	1:A:58:THR:N	2.48	0.44
1:B:266:THR:HG22	1:B:268:PHE:N	2.33	0.44
1:B:999:ALA:HA	1:B:1019:LYS:HA	1.98	0.44
1:B:1036:VAL:HG12	1:B:1037:ASP:H	1.83	0.44
1:C:102:MET:O	1:C:105:MET:N	2.46	0.44
1:C:182:ASN:HD22	1:C:245:LEU:HB2	1.83	0.44
1:D:264:LEU:HD23	1:D:264:LEU:HA	1.74	0.44
1:D:451:LYS:CD	1:D:486:LEU:HD21	2.33	0.44
1:E:120:PHE:CE1	1:E:159:TRP:CE3	3.05	0.44
1:E:157:LYS:N	2:E:1501:DTP:O2B	2.51	0.44
1:E:409:SER:O	1:E:411:VAL:N	2.51	0.44
1:E:508:TRP:O	1:E:606:GLY:CA	2.63	0.44
1:G:443:ILE:HG21	1:G:477:ASN:ND2	2.24	0.44
1:G:662:GLN:O	1:G:663:GLN:HG2	2.17	0.44
1:G:782:CYS:HB3	1:G:816:LEU:HD13	1.99	0.44
1:H:20:GLU:HG3	1:H:21:ASP:N	2.33	0.44
1:H:453:PHE:CE1	1:H:460:PRO:HB3	2.51	0.44
1:I:148:LEU:HD23	1:I:264:LEU:HB2	2.00	0.44
1:I:409:SER:O	1:I:411:VAL:N	2.51	0.44
1:I:458:LEU:CA	1:I:587:ARG:HH21	2.30	0.44
1:I:499:GLN:CD	1:I:516:ASN:HB3	2.38	0.44
1:I:866:LYS:HE2	1:I:872:ARG:HH11	1.81	0.44
1:J:20:GLU:HG3	1:J:21:ASP:N	2.33	0.44
1:J:120:PHE:CE1	1:J:159:TRP:CE3	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:417:GLU:HG2	1:J:417:GLU:O	2.18	0.44
1:K:231:LEU:O	1:K:234:SER:OG	2.26	0.44
1:L:341:TRP:O	1:L:341:TRP:CE3	2.70	0.44
1:L:905:VAL:HG13	1:L:906:ASP:N	2.33	0.44
1:M:266:THR:HG22	1:M:268:PHE:N	2.33	0.44
1:M:1036:VAL:HG12	1:M:1037:ASP:H	1.83	0.44
1:M:1192:SER:OG	1:M:1208:GLU:OE2	2.28	0.44
1:N:902:ILE:HD13	1:N:930:HIS:CE1	2.43	0.44
1:N:1036:VAL:HG12	1:N:1037:ASP:H	1.83	0.44
1:O:799:ASN:C	1:O:800:THR:CG2	2.86	0.44
1:O:879:SER:N	1:O:880:GLU:OE1	2.51	0.44
1:P:91:PRO:O	1:P:94:THR:OG1	2.21	0.44
1:P:409:SER:O	1:P:411:VAL:N	2.51	0.44
1:P:443:ILE:HG21	1:P:477:ASN:ND2	2.24	0.44
1:P:662:GLN:O	1:P:663:GLN:HG2	2.17	0.44
1:P:898:VAL:HG13	1:P:930:HIS:CD2	2.52	0.44
1:A:461:PRO:O	1:A:461:PRO:HG2	2.18	0.44
1:A:988:ASP:OD1	1:A:989:SER:N	2.43	0.44
1:C:97:ARG:HH22	1:L:97:ARG:NH2	2.14	0.44
1:D:157:LYS:N	2:D:1501:DTP:O2B	2.51	0.44
1:D:244:LEU:HD21	1:D:256:PHE:CD2	2.50	0.44
1:D:662:GLN:O	1:D:663:GLN:HG2	2.17	0.44
1:D:1000:ILE:HD11	1:D:1014:ALA:HB3	2.00	0.44
1:D:1036:VAL:HG12	1:D:1037:ASP:H	1.83	0.44
1:E:266:THR:HG22	1:E:268:PHE:N	2.33	0.44
1:E:463:LEU:CD2	1:E:467:PHE:HD2	2.31	0.44
1:E:799:ASN:C	1:E:800:THR:CG2	2.86	0.44
1:E:879:SER:N	1:E:880:GLU:OE1	2.51	0.44
1:F:337:THR:OG1	1:F:340:ASN:N	2.50	0.44
1:F:388:LEU:HB3	1:F:446:HIS:CE1	2.52	0.44
1:F:499:GLN:CD	1:F:516:ASN:HB3	2.39	0.44
1:F:866:LYS:HE2	1:F:872:ARG:HH11	1.81	0.44
1:G:20:GLU:HG3	1:G:21:ASP:N	2.33	0.44
1:G:388:LEU:HB3	1:G:446:HIS:CE1	2.52	0.44
1:H:54:ALA:O	1:H:58:THR:N	2.48	0.44
1:H:409:SER:O	1:H:411:VAL:N	2.51	0.44
1:H:440:HIS:O	1:H:444:VAL:HG23	2.18	0.44
1:H:542:ILE:HA	1:H:545:PHE:HD2	1.82	0.44
1:H:799:ASN:C	1:H:800:THR:CG2	2.86	0.44
1:H:879:SER:N	1:H:880:GLU:OE1	2.51	0.44
1:I:222:HIS:CG	1:J:198:LYS:NZ	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:988:ASP:OD1	1:I:989:SER:N	2.43	0.44
1:J:157:LYS:N	2:J:1501:DTP:O1B	2.51	0.44
1:J:266:THR:HG22	1:J:268:PHE:N	2.33	0.44
1:J:371:ARG:HB3	1:J:389:ILE:CG2	2.45	0.44
1:J:409:SER:O	1:J:411:VAL:N	2.51	0.44
1:J:799:ASN:C	1:J:800:THR:CG2	2.86	0.44
1:J:879:SER:N	1:J:880:GLU:OE1	2.51	0.44
1:K:157:LYS:N	2:K:1501:DTP:O1B	2.51	0.44
1:K:234:SER:OG	1:K:235:LYS:N	2.51	0.44
1:K:458:LEU:CA	1:K:587:ARG:HH21	2.31	0.44
1:K:629:GLN:HG2	1:K:651:SER:H	1.83	0.44
1:K:1036:VAL:HG12	1:K:1037:ASP:H	1.83	0.44
1:L:337:THR:OG1	1:L:340:ASN:N	2.50	0.44
1:L:999:ALA:HA	1:L:1019:LYS:HA	1.98	0.44
1:M:453:PHE:CE2	1:M:460:PRO:HB3	2.49	0.44
1:M:461:PRO:HG2	1:M:461:PRO:O	2.18	0.44
1:M:508:TRP:C	1:M:606:GLY:N	2.70	0.44
1:M:879:SER:N	1:M:880:GLU:OE1	2.51	0.44
1:M:999:ALA:HA	1:M:1019:LYS:HA	1.98	0.44
1:N:251:APK:H2'	1:N:251:APK:H8	1.74	0.44
1:N:276:SER:OG	1:O:122:LYS:HG3	2.18	0.44
1:N:382:PRO:HA	1:N:419:THR:CG2	2.36	0.44
1:N:461:PRO:O	1:N:461:PRO:HG2	2.18	0.44
1:N:557:LYS:CD	1:N:1223:GLN:HE21	2.30	0.44
1:O:54:ALA:O	1:O:58:THR:N	2.48	0.44
1:O:337:THR:OG1	1:O:340:ASN:N	2.50	0.44
1:O:409:SER:O	1:O:411:VAL:N	2.51	0.44
1:O:463:LEU:CD2	1:O:467:PHE:CD2	2.92	0.44
1:O:1036:VAL:HG12	1:O:1037:ASP:H	1.83	0.44
1:P:20:GLU:HG3	1:P:21:ASP:N	2.33	0.44
1:P:905:VAL:HG13	1:P:906:ASP:N	2.33	0.44
1:A:440:HIS:O	1:A:444:VAL:HG23	2.18	0.44
1:A:499:GLN:CD	1:A:516:ASN:HB3	2.38	0.44
1:A:902:ILE:HD13	1:A:930:HIS:CE1	2.43	0.44
1:A:1036:VAL:HG12	1:A:1037:ASP:H	1.83	0.44
1:B:317:LEU:O	1:B:318:THR:CB	2.61	0.44
1:B:409:SER:O	1:B:411:VAL:N	2.51	0.44
1:B:508:TRP:C	1:B:606:GLY:N	2.70	0.44
1:B:879:SER:N	1:B:880:GLU:OE1	2.51	0.44
1:C:341:TRP:CE3	1:C:341:TRP:O	2.70	0.44
1:C:388:LEU:HB3	1:C:446:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:GLU:HG2	1:C:417:GLU:O	2.18	0.44
1:C:461:PRO:O	1:C:461:PRO:HG2	2.18	0.44
1:C:862:ILE:HG23	1:C:863:THR:H	1.83	0.44
1:C:879:SER:N	1:C:880:GLU:OE1	2.51	0.44
1:D:234:SER:OG	1:D:235:LYS:N	2.51	0.44
1:D:266:THR:HG22	1:D:268:PHE:N	2.33	0.44
1:D:629:GLN:HG2	1:D:651:SER:H	1.83	0.44
1:E:154:GLY:O	1:E:155:SER:OG	2.35	0.44
1:E:373:SER:CB	1:E:433:LEU:CD1	2.73	0.44
1:E:646:ARG:HG3	1:E:648:GLU:HG3	2.00	0.44
1:E:1139:ASP:O	1:E:1140:SER:OG	2.35	0.44
1:F:409:SER:O	1:F:411:VAL:N	2.51	0.44
1:F:458:LEU:CA	1:F:587:ARG:HH21	2.30	0.44
1:F:799:ASN:C	1:F:800:THR:CG2	2.86	0.44
1:G:91:PRO:O	1:G:94:THR:OG1	2.21	0.44
1:G:122:LYS:O	1:G:303:LYS:NZ	2.38	0.44
1:G:148:LEU:HD23	1:G:264:LEU:HB2	2.00	0.44
1:G:629:GLN:HG2	1:G:651:SER:H	1.83	0.44
1:G:905:VAL:HG13	1:G:906:ASP:N	2.33	0.44
1:H:148:LEU:HD23	1:H:264:LEU:HB2	2.00	0.44
1:H:182:ASN:HD22	1:H:245:LEU:HB2	1.83	0.44
1:I:491:PHE:N	1:I:491:PHE:CD1	2.83	0.44
1:I:799:ASN:C	1:I:800:THR:CG2	2.86	0.44
1:I:905:VAL:HG13	1:I:906:ASP:N	2.33	0.44
1:J:154:GLY:O	1:J:155:SER:OG	2.35	0.44
1:J:276:SER:OG	1:K:122:LYS:HG3	2.18	0.44
1:J:463:LEU:CD2	1:J:467:PHE:HD2	2.31	0.44
1:J:508:TRP:O	1:J:606:GLY:CA	2.63	0.44
1:J:646:ARG:HG3	1:J:648:GLU:HG3	2.00	0.44
1:K:463:LEU:CD2	1:K:467:PHE:HD2	2.31	0.44
1:K:1000:ILE:HD11	1:K:1014:ALA:HB3	2.00	0.44
1:K:1188:LYS:HG3	1:K:1189:ALA:H	1.82	0.44
1:L:862:ILE:HG23	1:L:863:THR:H	1.83	0.44
1:L:957:ILE:HG13	1:L:1248:LEU:HD22	1.99	0.44
1:M:317:LEU:O	1:M:318:THR:CB	2.61	0.44
1:M:453:PHE:CE1	1:M:460:PRO:HB3	2.51	0.44
1:N:154:GLY:O	1:N:155:SER:OG	2.35	0.44
1:O:148:LEU:HD23	1:O:264:LEU:HB2	2.00	0.44
1:O:182:ASN:HD22	1:O:245:LEU:HB2	1.83	0.44
1:O:243:VAL:HG13	1:O:263:LEU:HD22	2.00	0.44
1:O:440:HIS:O	1:O:444:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:388:LEU:HB3	1:P:446:HIS:CE1	2.52	0.44
1:P:417:GLU:HG2	1:P:417:GLU:O	2.18	0.44
1:P:458:LEU:HA	1:P:587:ARG:HH21	1.80	0.44
1:P:542:ILE:HA	1:P:545:PHE:HD2	1.82	0.44
1:A:154:GLY:O	1:A:155:SER:OG	2.35	0.43
1:B:243:VAL:HG13	1:B:263:LEU:HD22	2.00	0.43
1:B:461:PRO:HG2	1:B:461:PRO:O	2.18	0.43
1:C:20:GLU:HG3	1:C:21:ASP:N	2.33	0.43
1:C:120:PHE:CE1	1:C:159:TRP:CE3	3.05	0.43
1:C:243:VAL:HG13	1:C:263:LEU:HD22	2.00	0.43
1:C:491:PHE:N	1:C:491:PHE:CD1	2.83	0.43
1:C:543:LEU:HA	1:C:546:LEU:CD1	2.48	0.43
1:C:915:TYR:CE2	1:C:916:LYS:HE3	2.53	0.43
1:C:1188:LYS:HG3	1:C:1189:ALA:H	1.82	0.43
1:D:182:ASN:HD22	1:D:245:LEU:HB2	1.83	0.43
1:D:463:LEU:CD2	1:D:467:PHE:HD2	2.31	0.43
1:D:905:VAL:HG13	1:D:906:ASP:N	2.33	0.43
1:D:1188:LYS:HG3	1:D:1189:ALA:H	1.82	0.43
1:E:200:LEU:HD12	1:E:200:LEU:HA	1.74	0.43
1:E:201:TYR:CE2	1:F:223:SER:OG	2.70	0.43
1:E:1000:ILE:HD11	1:E:1014:ALA:HB3	2.00	0.43
1:F:148:LEU:HD23	1:F:264:LEU:HB2	2.00	0.43
1:F:341:TRP:O	1:F:341:TRP:CE3	2.71	0.43
1:G:458:LEU:HA	1:G:587:ARG:HH21	1.80	0.43
1:G:1036:VAL:HG12	1:G:1037:ASP:H	1.83	0.43
1:G:1098:LEU:HG	1:G:1111:GLU:HG2	1.99	0.43
1:H:1036:VAL:HG12	1:H:1037:ASP:H	1.83	0.43
1:I:341:TRP:O	1:I:341:TRP:CE3	2.71	0.43
1:J:862:ILE:HG23	1:J:863:THR:H	1.83	0.43
1:J:1000:ILE:HD11	1:J:1014:ALA:HB3	2.00	0.43
1:K:244:LEU:HD21	1:K:256:PHE:CD2	2.51	0.43
1:K:799:ASN:C	1:K:800:THR:CG2	2.86	0.43
1:K:905:VAL:HG13	1:K:906:ASP:N	2.33	0.43
1:K:1192:SER:OG	1:K:1208:GLU:OE2	2.28	0.43
1:L:243:VAL:HG13	1:L:263:LEU:HD22	2.00	0.43
1:L:491:PHE:N	1:L:491:PHE:CD1	2.83	0.43
1:L:879:SER:N	1:L:880:GLU:OE1	2.51	0.43
1:L:915:TYR:CE2	1:L:916:LYS:HE3	2.53	0.43
1:M:157:LYS:N	2:M:1501:DTP:O1B	2.51	0.43
1:M:243:VAL:HG13	1:M:263:LEU:HD22	2.00	0.43
1:M:409:SER:O	1:M:411:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:102:MET:O	1:N:105:MET:N	2.46	0.43
1:N:440:HIS:O	1:N:444:VAL:HG23	2.18	0.43
1:O:499:GLN:CD	1:O:516:ASN:HB3	2.38	0.43
1:O:542:ILE:HA	1:O:545:PHE:HD2	1.82	0.43
1:P:148:LEU:HD23	1:P:264:LEU:HB2	2.00	0.43
1:P:244:LEU:HD21	1:P:256:PHE:CD2	2.51	0.43
1:P:629:GLN:HG2	1:P:651:SER:H	1.83	0.43
1:P:1036:VAL:HG12	1:P:1037:ASP:H	1.83	0.43
1:A:292:LEU:HB2	1:A:319:THR:HB	1.99	0.43
1:A:957:ILE:HG13	1:A:1248:LEU:HD22	1.99	0.43
1:B:157:LYS:N	2:B:1501:DTP:O2B	2.51	0.43
1:B:453:PHE:CE1	1:B:460:PRO:HB3	2.51	0.43
1:B:543:LEU:HA	1:B:546:LEU:CD1	2.49	0.43
1:B:629:GLN:HG2	1:B:651:SER:H	1.83	0.43
1:B:905:VAL:HG13	1:B:906:ASP:N	2.33	0.43
1:B:957:ILE:HG13	1:B:1248:LEU:HD22	1.99	0.43
1:B:1192:SER:OG	1:B:1208:GLU:OE2	2.28	0.43
1:C:999:ALA:HA	1:C:1019:LYS:HA	1.98	0.43
1:D:97:ARG:NH2	1:M:97:ARG:NH2	2.66	0.43
1:D:122:LYS:HG3	1:E:276:SER:CB	2.49	0.43
1:E:182:ASN:HD22	1:E:245:LEU:HB2	1.83	0.43
1:E:388:LEU:HB3	1:E:446:HIS:CE1	2.52	0.43
1:E:862:ILE:HG23	1:E:863:THR:H	1.84	0.43
1:E:957:ILE:HG13	1:E:1248:LEU:HD22	1.99	0.43
1:E:1036:VAL:HG12	1:E:1037:ASP:H	1.83	0.43
1:F:122:LYS:O	1:F:303:LYS:NZ	2.38	0.43
1:F:200:LEU:HA	1:F:200:LEU:HD12	1.74	0.43
1:F:554:ILE:O	1:F:556:SER:N	2.45	0.43
1:F:902:ILE:HD13	1:F:930:HIS:CE1	2.43	0.43
1:F:905:VAL:HG13	1:F:906:ASP:N	2.33	0.43
1:F:915:TYR:CE2	1:F:916:LYS:HE3	2.54	0.43
1:G:234:SER:OG	1:G:235:LYS:N	2.51	0.43
1:G:244:LEU:HD21	1:G:256:PHE:CD2	2.51	0.43
1:G:417:GLU:O	1:G:417:GLU:HG2	2.18	0.43
1:G:557:LYS:CD	1:G:1223:GLN:HE21	2.30	0.43
1:H:243:VAL:HG13	1:H:263:LEU:HD22	2.00	0.43
1:H:392:ASP:OD1	1:H:393:VAL:N	2.47	0.43
1:H:499:GLN:CD	1:H:516:ASN:HB3	2.38	0.43
1:I:120:PHE:CE1	1:I:159:TRP:CE3	3.05	0.43
1:I:182:ASN:HD22	1:I:245:LEU:HB2	1.83	0.43
1:I:443:ILE:HG13	1:I:477:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:463:LEU:CD2	1:I:467:PHE:CD2	2.92	0.43
1:I:915:TYR:CE2	1:I:916:LYS:HE3	2.53	0.43
1:J:182:ASN:HD22	1:J:245:LEU:HB2	1.83	0.43
1:J:388:LEU:HB3	1:J:446:HIS:CE1	2.52	0.43
1:J:957:ILE:HG13	1:J:1248:LEU:HD22	1.99	0.43
1:K:20:GLU:HG3	1:K:21:ASP:N	2.33	0.43
1:K:73:VAL:O	1:K:76:PHE:N	2.52	0.43
1:K:182:ASN:HD22	1:K:245:LEU:HB2	1.83	0.43
1:K:264:LEU:HD23	1:K:264:LEU:HA	1.74	0.43
1:K:266:THR:HG22	1:K:268:PHE:N	2.33	0.43
1:L:120:PHE:CE1	1:L:159:TRP:CE3	3.05	0.43
1:L:152:VAL:O	1:L:155:SER:OG	2.29	0.43
1:L:443:ILE:HG13	1:L:477:ASN:ND2	2.34	0.43
1:L:461:PRO:HG2	1:L:461:PRO:O	2.18	0.43
1:L:543:LEU:HA	1:L:546:LEU:CD1	2.48	0.43
1:L:799:ASN:C	1:L:800:THR:CG2	2.86	0.43
1:L:1098:LEU:HG	1:L:1111:GLU:HG2	1.99	0.43
1:M:443:ILE:HG13	1:M:477:ASN:ND2	2.34	0.43
1:M:517:THR:HA	1:M:520:GLN:OE1	2.18	0.43
1:M:629:GLN:HG2	1:M:651:SER:H	1.83	0.43
1:M:905:VAL:HG13	1:M:906:ASP:N	2.33	0.43
1:M:957:ILE:HG13	1:M:1248:LEU:HD22	1.99	0.43
1:N:148:LEU:HD23	1:N:264:LEU:HB2	2.00	0.43
1:N:266:THR:HG22	1:N:268:PHE:N	2.33	0.43
1:N:451:LYS:CD	1:N:486:LEU:HD21	2.33	0.43
1:N:499:GLN:CD	1:N:516:ASN:HB3	2.39	0.43
1:N:957:ILE:HG13	1:N:1248:LEU:HD22	1.99	0.43
1:N:1000:ILE:HD11	1:N:1014:ALA:HB3	2.00	0.43
1:P:154:GLY:O	1:P:155:SER:OG	2.35	0.43
1:P:234:SER:OG	1:P:235:LYS:N	2.51	0.43
1:P:1098:LEU:HG	1:P:1111:GLU:HG2	1.99	0.43
1:A:102:MET:O	1:A:105:MET:N	2.46	0.43
1:A:243:VAL:HG13	1:A:263:LEU:HD22	2.00	0.43
1:A:266:THR:HG22	1:A:268:PHE:N	2.33	0.43
1:A:285:LEU:HD23	1:A:285:LEU:HA	1.74	0.43
1:A:382:PRO:HA	1:A:419:THR:CG2	2.36	0.43
1:A:799:ASN:C	1:A:800:THR:CG2	2.86	0.43
1:A:879:SER:N	1:A:880:GLU:OE1	2.51	0.43
1:A:1000:ILE:HD11	1:A:1014:ALA:HB3	2.00	0.43
1:B:443:ILE:HG13	1:B:477:ASN:ND2	2.34	0.43
1:B:517:THR:HA	1:B:520:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:443:ILE:HG13	1:C:477:ASN:ND2	2.34	0.43
1:C:875:LEU:CD1	1:C:911:PHE:HD2	2.07	0.43
1:D:73:VAL:O	1:D:76:PHE:N	2.52	0.43
1:D:799:ASN:C	1:D:800:THR:CG2	2.86	0.43
1:E:148:LEU:HD23	1:E:264:LEU:HB2	2.00	0.43
1:E:905:VAL:HG13	1:E:906:ASP:N	2.33	0.43
1:F:120:PHE:CE1	1:F:159:TRP:CE3	3.05	0.43
1:F:443:ILE:HG13	1:F:477:ASN:ND2	2.34	0.43
1:F:542:ILE:HA	1:F:545:PHE:HD2	1.82	0.43
1:F:638:GLU:OE1	1:F:640:GLU:N	2.42	0.43
1:F:1036:VAL:HG12	1:F:1037:ASP:H	1.83	0.43
1:G:154:GLY:O	1:G:155:SER:OG	2.35	0.43
1:G:200:LEU:HA	1:G:200:LEU:HD12	1.74	0.43
1:H:443:ILE:HG13	1:H:477:ASN:ND2	2.34	0.43
1:H:553:LEU:HD23	1:H:553:LEU:HA	1.90	0.43
1:H:557:LYS:CD	1:H:1223:GLN:HE21	2.30	0.43
1:I:200:LEU:HD12	1:I:200:LEU:HA	1.74	0.43
1:J:461:PRO:HG2	1:J:461:PRO:O	2.18	0.43
1:J:905:VAL:HG13	1:J:906:ASP:N	2.33	0.43
1:J:1036:VAL:HG12	1:J:1037:ASP:H	1.83	0.43
1:J:1139:ASP:O	1:J:1140:SER:OG	2.35	0.43
1:J:1192:SER:OG	1:J:1208:GLU:OE2	2.28	0.43
1:L:200:LEU:HA	1:L:200:LEU:HD12	1.74	0.43
1:M:543:LEU:HA	1:M:546:LEU:CD1	2.49	0.43
1:M:799:ASN:C	1:M:800:THR:CG2	2.86	0.43
1:N:243:VAL:HG13	1:N:263:LEU:HD22	2.00	0.43
1:N:543:LEU:HA	1:N:546:LEU:CD1	2.48	0.43
1:N:799:ASN:C	1:N:800:THR:CG2	2.86	0.43
1:O:392:ASP:OD1	1:O:393:VAL:N	2.47	0.43
1:O:443:ILE:HG13	1:O:477:ASN:ND2	2.34	0.43
1:O:957:ILE:HG13	1:O:1248:LEU:HD22	1.99	0.43
1:P:557:LYS:CD	1:P:1223:GLN:HE21	2.30	0.43
1:P:879:SER:N	1:P:880:GLU:OE1	2.51	0.43
1:A:182:ASN:HD22	1:A:245:LEU:HB2	1.83	0.43
1:A:417:GLU:O	1:A:417:GLU:HG2	2.18	0.43
1:A:543:LEU:HA	1:A:546:LEU:CD1	2.49	0.43
1:B:799:ASN:C	1:B:800:THR:CG2	2.86	0.43
1:C:799:ASN:C	1:C:800:THR:CG2	2.86	0.43
1:C:901:HIS:O	1:C:902:ILE:HB	2.18	0.43
1:D:20:GLU:HG3	1:D:21:ASP:N	2.33	0.43
1:D:361:GLU:HB2	1:D:364:GLU:HB3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:388:LEU:HB3	1:D:446:HIS:CE1	2.52	0.43
1:D:879:SER:N	1:D:880:GLU:OE1	2.51	0.43
1:E:54:ALA:O	1:E:57:GLY:N	2.52	0.43
1:E:73:VAL:O	1:E:76:PHE:N	2.52	0.43
1:E:243:VAL:C	1:E:244:LEU:HD12	2.39	0.43
1:F:182:ASN:HD22	1:F:245:LEU:HB2	1.83	0.43
1:F:251:APK:H8	1:F:251:APK:H2'	1.73	0.43
1:F:1000:ILE:HD11	1:F:1014:ALA:HB3	2.00	0.43
1:G:266:THR:HG22	1:G:268:PHE:N	2.33	0.43
1:G:453:PHE:CE2	1:G:460:PRO:HB3	2.49	0.43
1:G:903:GLU:HG3	1:G:904:CYS:H	1.84	0.43
1:H:451:LYS:CD	1:H:486:LEU:HD21	2.33	0.43
1:H:461:PRO:O	1:H:461:PRO:HG2	2.18	0.43
1:H:543:LEU:HA	1:H:546:LEU:CD1	2.49	0.43
1:H:957:ILE:HG13	1:H:1248:LEU:HD22	1.99	0.43
1:I:54:ALA:O	1:I:57:GLY:N	2.52	0.43
1:I:73:VAL:O	1:I:76:PHE:N	2.52	0.43
1:I:388:LEU:HB3	1:I:446:HIS:CE1	2.52	0.43
1:I:542:ILE:HA	1:I:545:PHE:HD2	1.82	0.43
1:I:1036:VAL:HG12	1:I:1037:ASP:H	1.83	0.43
1:J:54:ALA:O	1:J:57:GLY:N	2.52	0.43
1:J:73:VAL:O	1:J:76:PHE:N	2.52	0.43
1:J:148:LEU:HD23	1:J:264:LEU:HB2	2.00	0.43
1:J:243:VAL:C	1:J:244:LEU:HD12	2.39	0.43
1:K:292:LEU:HB2	1:K:319:THR:HB	2.00	0.43
1:K:361:GLU:HB2	1:K:364:GLU:HB3	1.98	0.43
1:K:388:LEU:HB3	1:K:446:HIS:CE1	2.52	0.43
1:K:399:MET:HG3	1:L:335:LEU:HD21	1.99	0.43
1:K:499:GLN:CD	1:K:516:ASN:HB3	2.38	0.43
1:K:879:SER:N	1:K:880:GLU:OE1	2.51	0.43
1:L:73:VAL:O	1:L:76:PHE:N	2.52	0.43
1:L:102:MET:O	1:L:105:MET:N	2.46	0.43
1:L:124:ASN:HA	2:L:1501:DTP:C2	2.49	0.43
1:L:440:HIS:O	1:L:444:VAL:HG23	2.18	0.43
1:M:231:LEU:O	1:M:234:SER:OG	2.26	0.43
1:N:54:ALA:O	1:N:57:GLY:N	2.52	0.43
1:N:292:LEU:HB2	1:N:319:THR:HB	1.99	0.43
1:N:417:GLU:O	1:N:417:GLU:HG2	2.18	0.43
1:N:879:SER:N	1:N:880:GLU:OE1	2.51	0.43
1:N:903:GLU:HG3	1:N:904:CYS:H	1.84	0.43
1:N:1177:TYR:HE2	1:O:916:LYS:CE	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:154:GLY:O	1:O:155:SER:OG	2.35	0.43
1:O:301:LEU:CD2	1:O:313:PRO:CG	2.87	0.43
1:O:461:PRO:HG2	1:O:461:PRO:O	2.18	0.43
1:O:557:LYS:CD	1:O:1223:GLN:HE21	2.30	0.43
1:O:905:VAL:HG13	1:O:906:ASP:N	2.33	0.43
1:P:200:LEU:HA	1:P:200:LEU:HD12	1.74	0.43
1:A:54:ALA:O	1:A:57:GLY:N	2.52	0.43
1:A:148:LEU:HD23	1:A:264:LEU:HB2	2.00	0.43
1:A:535:TYR:O	1:A:538:LEU:HB3	2.19	0.43
1:A:903:GLU:HG3	1:A:904:CYS:H	1.84	0.43
1:B:535:TYR:O	1:B:538:LEU:HB3	2.19	0.43
1:B:584:PHE:HB3	1:B:585:ASP:H	1.61	0.43
1:B:1000:ILE:HD11	1:B:1014:ALA:HB3	2.00	0.43
1:C:382:PRO:HA	1:C:419:THR:CG2	2.36	0.43
1:C:629:GLN:HG2	1:C:651:SER:H	1.83	0.43
1:C:1075:SER:OG	1:C:1094:ASP:O	2.29	0.43
1:D:243:VAL:HG13	1:D:263:LEU:HD22	2.00	0.43
1:D:543:LEU:HA	1:D:546:LEU:CD1	2.48	0.43
1:E:124:ASN:HA	2:E:1501:DTP:C2	2.49	0.43
1:E:243:VAL:HG13	1:E:263:LEU:HD22	2.00	0.43
1:E:535:TYR:O	1:E:538:LEU:HB3	2.19	0.43
1:F:20:GLU:HG3	1:F:21:ASP:N	2.33	0.43
1:F:73:VAL:O	1:F:76:PHE:N	2.52	0.43
1:F:121:ALA:HB1	1:G:276:SER:CB	2.31	0.43
1:F:243:VAL:C	1:F:244:LEU:HD12	2.39	0.43
1:F:542:ILE:HA	1:F:545:PHE:CD2	2.54	0.43
1:G:73:VAL:O	1:G:76:PHE:N	2.52	0.43
1:G:182:ASN:HD22	1:G:245:LEU:HB2	1.83	0.43
1:G:879:SER:N	1:G:880:GLU:OE1	2.51	0.43
1:H:905:VAL:HG13	1:H:906:ASP:N	2.33	0.43
1:I:264:LEU:HD23	1:I:264:LEU:HA	1.74	0.43
1:I:1000:ILE:HD11	1:I:1014:ALA:HB3	2.00	0.43
1:I:1195:VAL:HG11	1:I:1241:PHE:CZ	2.54	0.43
1:J:243:VAL:HG13	1:J:263:LEU:HD22	2.00	0.43
1:J:535:TYR:O	1:J:538:LEU:HB3	2.19	0.43
1:K:243:VAL:HG13	1:K:263:LEU:HD22	2.00	0.43
1:K:251:APK:H8	1:K:251:APK:H2'	1.73	0.43
1:K:376:PRO:HA	1:K:377:PRO:HD3	1.89	0.43
1:K:451:LYS:CD	1:K:486:LEU:HD21	2.33	0.43
1:K:461:PRO:O	1:K:461:PRO:HG2	2.18	0.43
1:K:481:PRO:O	1:K:485:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:543:LEU:HA	1:K:546:LEU:CD1	2.48	0.43
1:L:234:SER:OG	1:L:235:LYS:N	2.51	0.43
1:L:382:PRO:HA	1:L:419:THR:CG2	2.36	0.43
1:L:1201:THR:OG1	1:L:1202:MET:N	2.48	0.43
1:M:535:TYR:O	1:M:538:LEU:HB3	2.19	0.43
1:N:182:ASN:HD22	1:N:245:LEU:HB2	1.83	0.43
1:N:535:TYR:O	1:N:538:LEU:HB3	2.19	0.43
1:O:543:LEU:HA	1:O:546:LEU:CD1	2.49	0.43
1:P:73:VAL:O	1:P:76:PHE:N	2.52	0.43
1:P:147:VAL:HG12	1:P:281:THR:OG1	2.19	0.43
1:P:266:THR:HG22	1:P:268:PHE:N	2.33	0.43
1:P:453:PHE:CE2	1:P:460:PRO:HB3	2.49	0.43
1:P:903:GLU:HG3	1:P:904:CYS:H	1.84	0.43
1:A:409:SER:O	1:A:411:VAL:N	2.51	0.43
1:A:443:ILE:HG13	1:A:477:ASN:ND2	2.34	0.43
1:A:453:PHE:CE2	1:A:460:PRO:HB3	2.49	0.43
1:A:905:VAL:HG13	1:A:906:ASP:N	2.33	0.43
1:B:54:ALA:O	1:B:57:GLY:N	2.52	0.43
1:B:231:LEU:O	1:B:234:SER:OG	2.26	0.43
1:B:481:PRO:O	1:B:485:THR:HG23	2.19	0.43
1:C:73:VAL:O	1:C:76:PHE:N	2.52	0.43
1:C:124:ASN:HA	2:C:1501:DTP:C2	2.49	0.43
1:C:481:PRO:O	1:C:485:THR:HG23	2.19	0.43
1:C:903:GLU:HG3	1:C:904:CYS:H	1.84	0.43
1:C:1158:TYR:HB3	1:C:1162:ILE:HG23	2.01	0.43
1:D:376:PRO:HA	1:D:377:PRO:HD3	1.89	0.43
1:D:443:ILE:HG13	1:D:477:ASN:ND2	2.34	0.43
1:D:461:PRO:HG2	1:D:461:PRO:O	2.18	0.43
1:D:481:PRO:O	1:D:485:THR:HG23	2.19	0.43
1:D:499:GLN:CD	1:D:516:ASN:HB3	2.38	0.43
1:D:535:TYR:O	1:D:538:LEU:HB3	2.19	0.43
1:D:646:ARG:HG3	1:D:648:GLU:HG3	2.00	0.43
1:D:1192:SER:OG	1:D:1208:GLU:OE2	2.28	0.43
1:E:130:PRO:HA	1:E:290:MET:HE3	2.01	0.43
1:E:461:PRO:O	1:E:461:PRO:HG2	2.18	0.43
1:E:901:HIS:O	1:E:902:ILE:HB	2.18	0.43
1:F:154:GLY:O	1:F:155:SER:OG	2.35	0.43
1:F:417:GLU:O	1:F:417:GLU:HG2	2.18	0.43
1:F:988:ASP:OD1	1:F:989:SER:N	2.43	0.43
1:G:147:VAL:HG12	1:G:281:THR:OG1	2.19	0.43
1:G:264:LEU:HD23	1:G:264:LEU:HA	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:499:GLN:CD	1:G:516:ASN:HB3	2.39	0.43
1:G:957:ILE:HG13	1:G:1248:LEU:HD22	1.99	0.43
1:H:154:GLY:O	1:H:155:SER:OG	2.36	0.43
1:H:285:LEU:HA	1:H:285:LEU:HD23	1.74	0.43
1:H:301:LEU:CD2	1:H:313:PRO:CG	2.87	0.43
1:H:324:LEU:HD12	1:H:324:LEU:HA	1.61	0.43
1:H:903:GLU:HG3	1:H:904:CYS:H	1.84	0.43
1:I:243:VAL:C	1:I:244:LEU:HD12	2.39	0.43
1:I:542:ILE:HA	1:I:545:PHE:CD2	2.54	0.43
1:I:1177:TYR:HE2	1:J:916:LYS:HE2	1.83	0.43
1:J:124:ASN:HA	2:J:1501:DTP:C2	2.49	0.43
1:J:373:SER:CB	1:J:433:LEU:CD1	2.73	0.43
1:K:535:TYR:O	1:K:538:LEU:HB3	2.19	0.43
1:K:646:ARG:HG3	1:K:648:GLU:HG3	2.00	0.43
1:L:113:LEU:HA	1:L:113:LEU:HD12	1.83	0.43
1:L:901:HIS:O	1:L:902:ILE:HB	2.18	0.43
1:L:1075:SER:OG	1:L:1094:ASP:O	2.29	0.43
1:M:54:ALA:O	1:M:57:GLY:N	2.52	0.43
1:M:182:ASN:HD22	1:M:245:LEU:HB2	1.83	0.43
1:M:417:GLU:HG2	1:M:417:GLU:O	2.18	0.43
1:M:481:PRO:O	1:M:485:THR:HG23	2.19	0.43
1:M:1000:ILE:HD11	1:M:1014:ALA:HB3	2.00	0.43
1:N:392:ASP:OD1	1:N:393:VAL:N	2.47	0.43
1:N:443:ILE:HG13	1:N:477:ASN:ND2	2.34	0.43
1:N:905:VAL:HG13	1:N:906:ASP:N	2.33	0.43
1:O:629:GLN:HG2	1:O:651:SER:H	1.83	0.43
1:P:141:LEU:HD12	1:P:141:LEU:O	2.19	0.43
1:P:182:ASN:HD22	1:P:245:LEU:HB2	1.83	0.43
1:P:499:GLN:CD	1:P:516:ASN:HB3	2.38	0.43
1:P:957:ILE:HG13	1:P:1248:LEU:HD22	1.99	0.43
1:A:141:LEU:HD12	1:A:141:LEU:O	2.19	0.43
1:A:324:LEU:HD12	1:A:324:LEU:HA	1.61	0.43
1:A:553:LEU:HD23	1:A:553:LEU:HA	1.90	0.43
1:A:799:ASN:O	1:A:800:THR:CG2	2.67	0.43
1:A:1158:TYR:HB3	1:A:1162:ILE:HG23	2.01	0.43
1:B:342:LYS:HG3	1:B:343:HIS:N	2.34	0.43
1:B:417:GLU:HG2	1:B:417:GLU:O	2.18	0.43
1:B:1158:TYR:HB3	1:B:1162:ILE:HG23	2.01	0.43
1:B:1188:LYS:HG3	1:B:1189:ALA:H	1.82	0.43
1:C:244:LEU:HD21	1:C:256:PHE:CD2	2.51	0.43
1:C:799:ASN:O	1:C:800:THR:CG2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:LEU:HD12	1:D:141:LEU:O	2.19	0.43
1:D:292:LEU:HB2	1:D:319:THR:HB	1.99	0.43
1:D:541:ALA:O	1:D:543:LEU:N	2.52	0.43
1:E:541:ALA:O	1:E:543:LEU:N	2.52	0.43
1:E:1192:SER:OG	1:E:1208:GLU:OE2	2.28	0.43
1:F:54:ALA:O	1:F:57:GLY:N	2.52	0.43
1:F:147:VAL:HG12	1:F:281:THR:OG1	2.19	0.43
1:G:542:ILE:HA	1:G:545:PHE:CD2	2.54	0.43
1:H:629:GLN:HG2	1:H:651:SER:H	1.83	0.43
1:H:799:ASN:O	1:H:800:THR:CG2	2.67	0.43
1:I:147:VAL:HG12	1:I:281:THR:OG1	2.19	0.43
1:I:154:GLY:O	1:I:155:SER:OG	2.35	0.43
1:I:508:TRP:CD1	1:I:604:ASN:HB2	2.54	0.43
1:I:879:SER:N	1:I:880:GLU:OE1	2.51	0.43
1:J:130:PRO:HA	1:J:290:MET:HE3	2.01	0.43
1:J:142:ARG:HH22	1:K:14:ASP:CG	2.22	0.43
1:J:458:LEU:HA	1:J:587:ARG:HH21	1.80	0.43
1:J:541:ALA:O	1:J:543:LEU:N	2.52	0.43
1:K:54:ALA:O	1:K:57:GLY:N	2.52	0.43
1:K:243:VAL:C	1:K:244:LEU:HD12	2.39	0.43
1:K:257:ASN:OD1	1:L:115:ASN:HB3	2.19	0.43
1:K:443:ILE:HG13	1:K:477:ASN:ND2	2.34	0.43
1:K:541:ALA:O	1:K:543:LEU:N	2.52	0.43
1:L:20:GLU:HG3	1:L:21:ASP:N	2.33	0.43
1:L:481:PRO:O	1:L:485:THR:HG23	2.19	0.43
1:L:629:GLN:HG2	1:L:651:SER:H	1.83	0.43
1:L:903:GLU:HG3	1:L:904:CYS:H	1.84	0.43
1:M:1188:LYS:HG3	1:M:1189:ALA:H	1.82	0.43
1:N:141:LEU:O	1:N:141:LEU:HD12	2.19	0.43
1:N:285:LEU:HD23	1:N:285:LEU:HA	1.74	0.43
1:N:409:SER:O	1:N:411:VAL:N	2.51	0.43
1:N:633:THR:HG22	1:N:643:TYR:HA	1.97	0.43
1:N:862:ILE:HG23	1:N:863:THR:H	1.83	0.43
1:N:1158:TYR:HB3	1:N:1162:ILE:HG23	2.01	0.43
1:O:147:VAL:HG12	1:O:281:THR:OG1	2.19	0.43
1:O:641:ASP:OD1	1:O:642:THR:N	2.45	0.43
1:O:799:ASN:O	1:O:800:THR:CG2	2.67	0.43
1:P:463:LEU:CD2	1:P:467:PHE:HD2	2.31	0.43
1:P:543:LEU:HA	1:P:546:LEU:CD1	2.48	0.43
1:P:862:ILE:HG23	1:P:863:THR:H	1.83	0.43
1:A:392:ASP:OD1	1:A:393:VAL:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:862:ILE:HG23	1:A:863:THR:H	1.83	0.43
1:B:903:GLU:HG3	1:B:904:CYS:H	1.84	0.43
1:C:148:LEU:HD23	1:C:264:LEU:HB2	2.00	0.43
1:C:440:HIS:O	1:C:444:VAL:HG23	2.18	0.43
1:D:54:ALA:O	1:D:57:GLY:N	2.52	0.43
1:D:243:VAL:C	1:D:244:LEU:HD12	2.39	0.43
1:D:342:LYS:HG3	1:D:343:HIS:N	2.34	0.43
1:D:915:TYR:CE2	1:D:916:LYS:HE3	2.54	0.43
1:E:244:LEU:HD21	1:E:256:PHE:CD2	2.51	0.43
1:E:410:LEU:CD2	1:E:413:LYS:HA	2.49	0.43
1:E:542:ILE:HA	1:E:545:PHE:CD2	2.54	0.43
1:F:141:LEU:O	1:F:141:LEU:HD12	2.19	0.43
1:F:508:TRP:CD1	1:F:604:ASN:HB2	2.54	0.43
1:F:879:SER:N	1:F:880:GLU:OE1	2.51	0.43
1:G:124:ASN:HA	2:G:1501:DTP:C2	2.49	0.43
1:G:141:LEU:HD12	1:G:141:LEU:O	2.19	0.43
1:G:443:ILE:HG13	1:G:477:ASN:ND2	2.34	0.43
1:G:543:LEU:HA	1:G:546:LEU:CD1	2.49	0.43
1:G:862:ILE:HG23	1:G:863:THR:H	1.83	0.43
1:H:124:ASN:HA	2:H:1501:DTP:C2	2.49	0.43
1:H:147:VAL:HG12	1:H:281:THR:OG1	2.19	0.43
1:H:453:PHE:CE2	1:H:460:PRO:HB3	2.49	0.43
1:H:535:TYR:O	1:H:538:LEU:HB3	2.19	0.43
1:H:542:ILE:HA	1:H:545:PHE:CD2	2.54	0.43
1:H:641:ASP:OD1	1:H:642:THR:N	2.45	0.43
1:I:130:PRO:HA	1:I:290:MET:HE3	2.01	0.43
1:I:417:GLU:O	1:I:417:GLU:HG2	2.18	0.43
1:I:541:ALA:O	1:I:543:LEU:N	2.52	0.43
1:I:633:THR:HG22	1:I:643:TYR:HA	1.97	0.43
1:J:244:LEU:HD21	1:J:256:PHE:CD2	2.51	0.43
1:J:410:LEU:CD2	1:J:413:LYS:HA	2.49	0.43
1:J:508:TRP:CD1	1:J:604:ASN:HB2	2.54	0.43
1:J:518:LEU:N	1:J:518:LEU:CD1	2.81	0.43
1:J:542:ILE:HA	1:J:545:PHE:CD2	2.54	0.43
1:K:102:MET:O	1:K:105:MET:N	2.46	0.43
1:K:141:LEU:HD12	1:K:141:LEU:O	2.19	0.43
1:K:222:HIS:HD2	1:L:198:LYS:HG2	1.84	0.43
1:L:141:LEU:HD12	1:L:141:LEU:O	2.19	0.43
1:L:1158:TYR:HB3	1:L:1162:ILE:HG23	2.01	0.43
1:M:152:VAL:O	1:M:155:SER:OG	2.29	0.43
1:M:342:LYS:HG3	1:M:343:HIS:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:499:GLN:CD	1:M:516:ASN:HB3	2.38	0.43
1:M:584:PHE:HB3	1:M:585:ASP:H	1.61	0.43
1:M:1158:TYR:HB3	1:M:1162:ILE:HG23	2.01	0.43
1:N:514:ILE:HG22	1:N:515:LEU:O	2.19	0.43
1:N:553:LEU:HD23	1:N:553:LEU:HA	1.90	0.43
1:N:799:ASN:O	1:N:800:THR:CG2	2.67	0.43
1:N:901:HIS:O	1:N:902:ILE:HB	2.18	0.43
1:O:514:ILE:HG22	1:O:515:LEU:O	2.19	0.43
1:O:517:THR:HA	1:O:520:GLN:OE1	2.18	0.43
1:O:517:THR:CG2	1:O:518:LEU:N	2.81	0.43
1:O:535:TYR:O	1:O:538:LEU:HB3	2.19	0.43
1:O:553:LEU:HD23	1:O:553:LEU:HA	1.91	0.43
1:O:903:GLU:HG3	1:O:904:CYS:H	1.84	0.43
1:P:443:ILE:HG13	1:P:477:ASN:ND2	2.34	0.43
1:P:508:TRP:CD1	1:P:604:ASN:HB2	2.54	0.43
1:P:542:ILE:HA	1:P:545:PHE:CD2	2.54	0.43
1:A:251:APK:H2'	1:A:251:APK:H8	1.74	0.43
1:A:514:ILE:HG22	1:A:515:LEU:O	2.19	0.43
1:A:901:HIS:O	1:A:902:ILE:HB	2.18	0.43
1:A:915:TYR:CE2	1:A:916:LYS:HE3	2.53	0.43
1:B:124:ASN:HA	2:B:1501:DTP:C2	2.49	0.43
1:B:182:ASN:HD22	1:B:245:LEU:HB2	1.83	0.43
1:B:252:ALA:HB3	1:B:253:TRP:H	1.70	0.43
1:B:410:LEU:CD2	1:B:413:LYS:HA	2.49	0.43
1:B:499:GLN:CD	1:B:516:ASN:HB3	2.39	0.43
1:B:799:ASN:O	1:B:800:THR:CG2	2.67	0.43
1:C:141:LEU:HD12	1:C:141:LEU:O	2.19	0.43
1:C:1201:THR:OG1	1:C:1202:MET:N	2.48	0.43
1:D:102:MET:O	1:D:105:MET:N	2.46	0.43
1:D:124:ASN:OD1	1:D:124:ASN:C	2.58	0.43
1:D:148:LEU:HD23	1:D:264:LEU:HB2	2.00	0.43
1:D:285:LEU:HD23	1:D:285:LEU:HA	1.74	0.43
1:D:957:ILE:HG13	1:D:1248:LEU:HD22	1.99	0.43
1:E:11:GLN:O	1:E:14:ASP:N	2.46	0.43
1:E:124:ASN:OD1	1:E:124:ASN:C	2.58	0.43
1:E:518:LEU:N	1:E:518:LEU:CD1	2.81	0.43
1:F:541:ALA:O	1:F:543:LEU:N	2.52	0.43
1:F:633:THR:HG22	1:F:643:TYR:HA	1.97	0.43
1:G:54:ALA:O	1:G:57:GLY:N	2.52	0.43
1:G:243:VAL:HG13	1:G:263:LEU:HD22	2.00	0.43
1:G:463:LEU:CD2	1:G:467:PHE:HD2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:989:SER:HB2	1:G:1027:ASN:HA	2.01	0.43
1:H:481:PRO:O	1:H:485:THR:HG23	2.19	0.43
1:H:514:ILE:HG22	1:H:515:LEU:O	2.19	0.43
1:H:517:THR:HA	1:H:520:GLN:OE1	2.18	0.43
1:H:541:ALA:O	1:H:543:LEU:N	2.52	0.43
1:I:20:GLU:HG3	1:I:21:ASP:N	2.33	0.43
1:I:141:LEU:O	1:I:141:LEU:HD12	2.19	0.43
1:I:243:VAL:HG13	1:I:263:LEU:HD22	2.00	0.43
1:J:11:GLN:O	1:J:14:ASP:N	2.46	0.43
1:J:901:HIS:O	1:J:902:ILE:HB	2.19	0.43
1:K:124:ASN:OD1	1:K:124:ASN:C	2.58	0.43
1:K:915:TYR:CE2	1:K:916:LYS:HE3	2.54	0.43
1:K:957:ILE:HG13	1:K:1248:LEU:HD22	1.99	0.43
1:L:244:LEU:HD21	1:L:256:PHE:CD2	2.50	0.43
1:L:324:LEU:HD12	1:L:324:LEU:HA	1.61	0.43
1:L:517:THR:HA	1:L:520:GLN:OE1	2.18	0.43
1:M:132:LEU:HD12	1:M:132:LEU:HA	1.79	0.43
1:M:410:LEU:CD2	1:M:413:LYS:HA	2.49	0.43
1:M:903:GLU:HG3	1:M:904:CYS:H	1.84	0.43
1:N:124:ASN:HA	2:N:1501:DTP:C2	2.49	0.43
1:N:453:PHE:CE2	1:N:460:PRO:HB3	2.49	0.43
1:O:54:ALA:O	1:O:57:GLY:N	2.52	0.43
1:O:124:ASN:HA	2:O:1501:DTP:C2	2.49	0.43
1:O:234:SER:OG	1:O:235:LYS:N	2.51	0.43
1:O:443:ILE:HG21	1:O:477:ASN:ND2	2.24	0.43
1:O:451:LYS:CD	1:O:486:LEU:HD21	2.33	0.43
1:O:541:ALA:O	1:O:543:LEU:N	2.52	0.43
1:O:542:ILE:HA	1:O:545:PHE:CD2	2.54	0.43
1:P:124:ASN:HA	2:P:1501:DTP:C2	2.49	0.43
1:P:243:VAL:HG13	1:P:263:LEU:HD22	2.00	0.43
1:P:264:LEU:HD23	1:P:264:LEU:HA	1.75	0.43
1:P:461:PRO:O	1:P:461:PRO:HG2	2.18	0.43
1:P:1139:ASP:O	1:P:1140:SER:OG	2.35	0.43
1:B:132:LEU:HD12	1:B:132:LEU:HA	1.79	0.43
1:B:463:LEU:CD2	1:B:467:PHE:HD2	2.31	0.43
1:C:234:SER:OG	1:C:235:LYS:N	2.51	0.43
1:E:443:ILE:HG13	1:E:477:ASN:ND2	2.34	0.43
1:E:508:TRP:CD1	1:E:604:ASN:HB2	2.54	0.43
1:F:243:VAL:HG13	1:F:263:LEU:HD22	2.00	0.43
1:F:543:LEU:HA	1:F:546:LEU:CD1	2.48	0.43
1:F:799:ASN:O	1:F:800:THR:CG2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:901:HIS:O	1:F:902:ILE:HB	2.19	0.43
1:G:461:PRO:HG2	1:G:461:PRO:O	2.18	0.43
1:G:508:TRP:CD1	1:G:604:ASN:HB2	2.54	0.43
1:G:1000:ILE:HD11	1:G:1014:ALA:HB3	2.00	0.43
1:H:54:ALA:O	1:H:57:GLY:N	2.52	0.43
1:H:234:SER:OG	1:H:235:LYS:N	2.51	0.43
1:H:305:LEU:HD23	1:H:305:LEU:HA	1.84	0.43
1:H:410:LEU:CD2	1:H:413:LYS:HA	2.49	0.43
1:H:443:ILE:HG21	1:H:477:ASN:ND2	2.24	0.43
1:H:517:THR:CG2	1:H:518:LEU:N	2.81	0.43
1:H:1198:ASP:OD1	1:H:1199:ASP:N	2.50	0.43
1:I:122:LYS:HG3	1:P:276:SER:CB	2.49	0.43
1:I:198:LYS:HZ2	1:P:222:HIS:CG	2.37	0.43
1:I:481:PRO:O	1:I:485:THR:HG23	2.19	0.43
1:J:124:ASN:OD1	1:J:124:ASN:C	2.58	0.43
1:J:305:LEU:HD23	1:J:305:LEU:HA	1.84	0.43
1:J:443:ILE:HG13	1:J:477:ASN:ND2	2.34	0.43
1:K:342:LYS:HG3	1:K:343:HIS:N	2.34	0.43
1:L:243:VAL:C	1:L:244:LEU:HD12	2.39	0.43
1:L:376:PRO:HA	1:L:377:PRO:HD3	1.89	0.43
1:L:410:LEU:CD2	1:L:413:LYS:HA	2.49	0.43
1:L:535:TYR:O	1:L:538:LEU:HB3	2.19	0.43
1:L:799:ASN:O	1:L:800:THR:CG2	2.67	0.43
1:L:1036:VAL:HG12	1:L:1037:ASP:H	1.83	0.43
1:M:124:ASN:HA	2:M:1501:DTP:C2	2.49	0.43
1:M:463:LEU:CD2	1:M:467:PHE:HD2	2.31	0.43
1:M:517:THR:CG2	1:M:518:LEU:N	2.81	0.43
1:M:799:ASN:O	1:M:800:THR:CG2	2.67	0.43
1:N:222:HIS:CG	1:O:198:LYS:HZ1	2.37	0.43
1:N:915:TYR:CE2	1:N:916:LYS:HE3	2.53	0.43
1:O:73:VAL:O	1:O:76:PHE:N	2.52	0.43
1:O:410:LEU:CD2	1:O:413:LYS:HA	2.49	0.43
1:O:481:PRO:O	1:O:485:THR:HG23	2.19	0.43
1:P:646:ARG:HG3	1:P:648:GLU:HG3	2.00	0.43
1:P:989:SER:HB2	1:P:1027:ASN:HA	2.01	0.43
1:P:1000:ILE:HD11	1:P:1014:ALA:HB3	2.00	0.43
1:A:124:ASN:HA	2:A:1501:DTP:C2	2.49	0.42
1:A:376:PRO:HA	1:A:377:PRO:HD3	1.89	0.42
1:A:1195:VAL:HG11	1:A:1241:PHE:CZ	2.54	0.42
1:B:148:LEU:HD23	1:B:264:LEU:HB2	2.00	0.42
1:B:541:ALA:O	1:B:543:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:950:TRP:CZ3	1:B:952:HIS:HA	2.54	0.42
1:C:54:ALA:O	1:C:57:GLY:N	2.52	0.42
1:C:342:LYS:HG3	1:C:343:HIS:N	2.34	0.42
1:C:376:PRO:HA	1:C:377:PRO:HD3	1.89	0.42
1:C:535:TYR:O	1:C:538:LEU:HB3	2.19	0.42
1:C:1036:VAL:HG12	1:C:1037:ASP:H	1.83	0.42
1:E:514:ILE:HG22	1:E:515:LEU:O	2.19	0.42
1:E:517:THR:HA	1:E:520:GLN:OE1	2.19	0.42
1:E:1075:SER:OG	1:E:1094:ASP:O	2.29	0.42
1:F:124:ASN:OD1	1:F:124:ASN:C	2.58	0.42
1:F:481:PRO:O	1:F:485:THR:HG23	2.19	0.42
1:F:517:THR:HA	1:F:520:GLN:OE1	2.18	0.42
1:G:514:ILE:HG22	1:G:515:LEU:O	2.19	0.42
1:G:646:ARG:HG3	1:G:648:GLU:HG3	2.00	0.42
1:H:73:VAL:O	1:H:76:PHE:N	2.52	0.42
1:H:646:ARG:HG3	1:H:648:GLU:HG3	2.00	0.42
1:H:724:GLY:HA3	1:H:730:ILE:HD12	2.01	0.42
1:I:124:ASN:OD1	1:I:124:ASN:C	2.58	0.42
1:I:554:ILE:O	1:I:556:SER:N	2.45	0.42
1:I:799:ASN:O	1:I:800:THR:CG2	2.67	0.42
1:I:901:HIS:O	1:I:902:ILE:HB	2.18	0.42
1:J:514:ILE:HG22	1:J:515:LEU:O	2.19	0.42
1:J:903:GLU:HG3	1:J:904:CYS:H	1.84	0.42
1:K:148:LEU:HD23	1:K:264:LEU:HB2	2.00	0.42
1:K:285:LEU:HD23	1:K:285:LEU:HA	1.74	0.42
1:L:54:ALA:O	1:L:57:GLY:N	2.52	0.42
1:L:124:ASN:OD1	1:L:124:ASN:C	2.58	0.42
1:L:148:LEU:HD23	1:L:264:LEU:HB2	2.00	0.42
1:L:458:LEU:CA	1:L:587:ARG:HH21	2.31	0.42
1:L:514:ILE:HG22	1:L:515:LEU:O	2.19	0.42
1:M:148:LEU:HD23	1:M:264:LEU:HB2	2.00	0.42
1:M:187:ASN:CA	1:M:249:ASN:HD21	2.27	0.42
1:M:514:ILE:HG22	1:M:515:LEU:O	2.19	0.42
1:N:324:LEU:HD12	1:N:324:LEU:HA	1.61	0.42
1:O:305:LEU:HD23	1:O:305:LEU:HA	1.84	0.42
1:O:453:PHE:CE2	1:O:460:PRO:HB3	2.49	0.42
1:O:646:ARG:HG3	1:O:648:GLU:HG3	2.00	0.42
1:O:724:GLY:HA3	1:O:730:ILE:HD12	2.01	0.42
1:O:950:TRP:CZ3	1:O:952:HIS:HA	2.54	0.42
1:O:1139:ASP:O	1:O:1140:SER:OG	2.35	0.42
1:O:1198:ASP:OD1	1:O:1199:ASP:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:54:ALA:O	1:P:57:GLY:N	2.52	0.42
1:P:324:LEU:HD12	1:P:324:LEU:HA	1.61	0.42
1:P:514:ILE:HG22	1:P:515:LEU:O	2.19	0.42
1:P:535:TYR:O	1:P:538:LEU:HB3	2.19	0.42
1:P:950:TRP:CZ3	1:P:952:HIS:HA	2.54	0.42
1:A:122:LYS:CG	1:B:276:SER:OG	2.67	0.42
1:A:342:LYS:HG3	1:A:343:HIS:N	2.34	0.42
1:A:633:THR:HG22	1:A:643:TYR:HA	1.97	0.42
1:B:187:ASN:CA	1:B:249:ASN:HD21	2.27	0.42
1:B:443:ILE:HG21	1:B:477:ASN:ND2	2.24	0.42
1:B:514:ILE:HG22	1:B:515:LEU:O	2.19	0.42
1:B:517:THR:CG2	1:B:518:LEU:N	2.81	0.42
1:B:901:HIS:O	1:B:902:ILE:HB	2.18	0.42
1:B:1195:VAL:HG11	1:B:1241:PHE:CZ	2.54	0.42
1:C:124:ASN:OD1	1:C:124:ASN:C	2.58	0.42
1:C:458:LEU:CA	1:C:587:ARG:HH21	2.30	0.42
1:E:903:GLU:HG3	1:E:904:CYS:H	1.84	0.42
1:G:535:TYR:O	1:G:538:LEU:HB3	2.19	0.42
1:G:541:ALA:O	1:G:543:LEU:N	2.52	0.42
1:G:950:TRP:CZ3	1:G:952:HIS:HA	2.54	0.42
1:G:1195:VAL:HG11	1:G:1241:PHE:CZ	2.54	0.42
1:H:950:TRP:CZ3	1:H:952:HIS:HA	2.54	0.42
1:I:461:PRO:O	1:I:461:PRO:HG2	2.18	0.42
1:I:646:ARG:HG3	1:I:648:GLU:HG3	2.00	0.42
1:J:517:THR:HA	1:J:520:GLN:OE1	2.19	0.42
1:K:428:GLU:OE1	1:K:429:LEU:HA	2.20	0.42
1:L:132:LEU:HD12	1:L:132:LEU:HA	1.79	0.42
1:L:342:LYS:HG3	1:L:343:HIS:N	2.34	0.42
1:L:950:TRP:CZ3	1:L:952:HIS:HA	2.54	0.42
1:M:541:ALA:O	1:M:543:LEU:N	2.52	0.42
1:M:950:TRP:CZ3	1:M:952:HIS:HA	2.54	0.42
1:M:1195:VAL:HG11	1:M:1241:PHE:CZ	2.54	0.42
1:N:130:PRO:HA	1:N:290:MET:HE3	2.01	0.42
1:N:234:SER:OG	1:N:235:LYS:N	2.51	0.42
1:N:517:THR:HA	1:N:520:GLN:OE1	2.18	0.42
1:N:950:TRP:CZ3	1:N:952:HIS:HA	2.54	0.42
1:N:1195:VAL:HG11	1:N:1241:PHE:CZ	2.54	0.42
1:O:508:TRP:CD1	1:O:604:ASN:HB2	2.54	0.42
1:O:901:HIS:O	1:O:902:ILE:HB	2.18	0.42
1:P:541:ALA:O	1:P:543:LEU:N	2.52	0.42
1:P:1195:VAL:HG11	1:P:1241:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:PRO:HA	1:A:290:MET:HE3	2.01	0.42
1:A:516:ASN:O	1:A:517:THR:CB	2.67	0.42
1:B:73:VAL:O	1:B:76:PHE:N	2.52	0.42
1:B:152:VAL:O	1:B:155:SER:OG	2.29	0.42
1:B:157:LYS:HZ3	2:B:1501:DTP:PG	2.40	0.42
1:B:234:SER:OG	1:B:235:LYS:N	2.51	0.42
1:C:147:VAL:HG12	1:C:281:THR:OG1	2.19	0.42
1:C:243:VAL:C	1:C:244:LEU:HD12	2.39	0.42
1:C:251:APK:H8	1:C:251:APK:H2'	1.74	0.42
1:C:428:GLU:OE1	1:C:429:LEU:HA	2.20	0.42
1:C:499:GLN:CD	1:C:516:ASN:HB3	2.39	0.42
1:C:517:THR:HA	1:C:520:GLN:OE1	2.18	0.42
1:C:545:PHE:O	1:C:549:ILE:HG22	2.20	0.42
1:D:124:ASN:HA	2:D:1501:DTP:C2	2.49	0.42
1:D:251:APK:H8	1:D:251:APK:H2'	1.74	0.42
1:D:428:GLU:OE1	1:D:429:LEU:HA	2.20	0.42
1:D:799:ASN:O	1:D:800:THR:CG2	2.67	0.42
1:D:950:TRP:CZ3	1:D:952:HIS:HA	2.54	0.42
1:E:342:LYS:HG3	1:E:343:HIS:N	2.34	0.42
1:E:543:LEU:HA	1:E:546:LEU:CD1	2.48	0.42
1:F:453:PHE:CE2	1:F:460:PRO:HB3	2.49	0.42
1:F:463:LEU:CD2	1:F:467:PHE:HD2	2.31	0.42
1:G:79:GLU:OE2	1:G:83:ILE:HD11	2.20	0.42
1:G:120:PHE:CE1	1:G:159:TRP:CE3	3.05	0.42
1:G:243:VAL:C	1:G:244:LEU:HD12	2.39	0.42
1:G:324:LEU:HA	1:G:324:LEU:HD12	1.61	0.42
1:G:553:LEU:HD23	1:G:553:LEU:HA	1.91	0.42
1:H:342:LYS:HG3	1:H:343:HIS:N	2.34	0.42
1:H:516:ASN:O	1:H:517:THR:CB	2.67	0.42
1:H:901:HIS:O	1:H:902:ILE:HB	2.18	0.42
1:H:1000:ILE:HD11	1:H:1014:ALA:HB3	2.00	0.42
1:H:1139:ASP:O	1:H:1140:SER:OG	2.35	0.42
1:H:1158:TYR:HB3	1:H:1162:ILE:HG23	2.01	0.42
1:I:514:ILE:HG22	1:I:515:LEU:O	2.19	0.42
1:J:141:LEU:HD12	1:J:141:LEU:O	2.19	0.42
1:J:342:LYS:HG3	1:J:343:HIS:N	2.34	0.42
1:J:543:LEU:HA	1:J:546:LEU:CD1	2.49	0.42
1:J:1075:SER:OG	1:J:1094:ASP:O	2.29	0.42
1:K:124:ASN:HA	2:K:1501:DTP:C2	2.49	0.42
1:K:514:ILE:HG22	1:K:515:LEU:O	2.19	0.42
1:K:799:ASN:O	1:K:800:THR:CG2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:950:TRP:CZ3	1:K:952:HIS:HA	2.54	0.42
1:L:499:GLN:CD	1:L:516:ASN:HB3	2.38	0.42
1:L:507:ALA:O	1:L:608:ASN:CB	2.61	0.42
1:L:545:PHE:O	1:L:549:ILE:HG22	2.19	0.42
1:L:646:ARG:HG3	1:L:648:GLU:HG3	2.00	0.42
1:M:73:VAL:O	1:M:76:PHE:N	2.52	0.42
1:M:234:SER:OG	1:M:235:LYS:N	2.51	0.42
1:M:901:HIS:O	1:M:902:ILE:HB	2.18	0.42
1:N:251:APK:O	1:N:253:TRP:HB3	2.20	0.42
1:N:342:LYS:HG3	1:N:343:HIS:N	2.34	0.42
1:O:285:LEU:HA	1:O:285:LEU:HD23	1.74	0.42
1:O:317:LEU:O	1:O:318:THR:CB	2.61	0.42
1:O:342:LYS:HG3	1:O:343:HIS:N	2.34	0.42
1:O:516:ASN:O	1:O:517:THR:CB	2.67	0.42
1:O:1000:ILE:HD11	1:O:1014:ALA:HB3	2.00	0.42
1:P:79:GLU:OE2	1:P:83:ILE:HD11	2.20	0.42
1:P:120:PHE:CE1	1:P:159:TRP:CE3	3.05	0.42
1:P:243:VAL:C	1:P:244:LEU:HD12	2.39	0.42
1:A:234:SER:OG	1:A:235:LYS:N	2.51	0.42
1:A:517:THR:HA	1:A:520:GLN:OE1	2.18	0.42
1:A:646:ARG:HG3	1:A:648:GLU:HG3	2.00	0.42
1:A:724:GLY:HA3	1:A:730:ILE:HD12	2.01	0.42
1:A:950:TRP:CZ3	1:A:952:HIS:HA	2.54	0.42
1:B:39:ILE:HG23	1:B:40:LEU:HG	2.02	0.42
1:B:346:CYS:SG	1:B:350:THR:OG1	2.76	0.42
1:B:440:HIS:O	1:B:444:VAL:HG23	2.18	0.42
1:B:724:GLY:HA3	1:B:730:ILE:HD12	2.01	0.42
1:C:507:ALA:O	1:C:608:ASN:CB	2.61	0.42
1:C:514:ILE:HG22	1:C:515:LEU:O	2.19	0.42
1:C:542:ILE:HA	1:C:545:PHE:CD2	2.54	0.42
1:C:646:ARG:HG3	1:C:648:GLU:HG3	2.00	0.42
1:D:410:LEU:CD2	1:D:413:LYS:HA	2.49	0.42
1:D:514:ILE:HG22	1:D:515:LEU:O	2.19	0.42
1:D:862:ILE:HG23	1:D:863:THR:H	1.84	0.42
1:F:115:ASN:HB3	1:G:257:ASN:HD21	1.84	0.42
1:F:514:ILE:HG22	1:F:515:LEU:O	2.19	0.42
1:F:862:ILE:HG23	1:F:863:THR:H	1.84	0.42
1:G:39:ILE:HG23	1:G:40:LEU:HG	2.02	0.42
1:G:336:ALA:C	1:G:337:THR:HG1	2.20	0.42
1:G:470:HIS:O	1:G:473:HIS:N	2.53	0.42
1:H:508:TRP:CD1	1:H:604:ASN:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:545:PHE:O	1:H:549:ILE:HG22	2.19	0.42
1:I:517:THR:HA	1:I:520:GLN:OE1	2.18	0.42
1:I:543:LEU:HA	1:I:546:LEU:CD1	2.48	0.42
1:J:413:LYS:CD	1:J:422:ILE:O	2.61	0.42
1:K:545:PHE:O	1:K:549:ILE:HG22	2.19	0.42
1:L:541:ALA:O	1:L:543:LEU:N	2.52	0.42
1:M:39:ILE:HG23	1:M:40:LEU:HG	2.02	0.42
1:M:458:LEU:CG	1:M:587:ARG:NH2	2.74	0.42
1:M:470:HIS:O	1:M:473:HIS:N	2.53	0.42
1:M:553:LEU:HD23	1:M:553:LEU:HA	1.90	0.42
1:M:724:GLY:HA3	1:M:730:ILE:HD12	2.01	0.42
1:N:376:PRO:HA	1:N:377:PRO:HD3	1.89	0.42
1:N:516:ASN:O	1:N:517:THR:CB	2.67	0.42
1:N:724:GLY:HA3	1:N:730:ILE:HD12	2.01	0.42
1:O:91:PRO:O	1:O:94:THR:OG1	2.21	0.42
1:O:243:VAL:C	1:O:244:LEU:HD12	2.39	0.42
1:O:1158:TYR:HB3	1:O:1162:ILE:HG23	2.01	0.42
1:P:39:ILE:HG23	1:P:40:LEU:HG	2.02	0.42
1:P:902:ILE:HD13	1:P:930:HIS:CE1	2.43	0.42
1:A:39:ILE:HG23	1:A:40:LEU:HG	2.02	0.42
1:A:79:GLU:OE2	1:A:83:ILE:HD11	2.19	0.42
1:A:251:APK:O	1:A:253:TRP:HB3	2.20	0.42
1:A:481:PRO:O	1:A:485:THR:HG23	2.19	0.42
1:A:508:TRP:CD1	1:A:604:ASN:HB2	2.54	0.42
1:B:458:LEU:CG	1:B:587:ARG:NH2	2.74	0.42
1:B:470:HIS:O	1:B:473:HIS:N	2.53	0.42
1:B:488:ARG:HG2	1:B:491:PHE:CG	2.55	0.42
1:B:542:ILE:HA	1:B:545:PHE:CD2	2.54	0.42
1:B:553:LEU:HD23	1:B:553:LEU:HA	1.91	0.42
1:C:312:LEU:CD2	1:C:313:PRO:CD	2.86	0.42
1:C:346:CYS:HG	1:C:350:THR:HG1	1.64	0.42
1:C:553:LEU:HD23	1:C:553:LEU:HA	1.90	0.42
1:D:488:ARG:HG2	1:D:491:PHE:CG	2.55	0.42
1:D:508:TRP:CD1	1:D:604:ASN:HB2	2.54	0.42
1:D:545:PHE:O	1:D:549:ILE:HG22	2.20	0.42
1:E:141:LEU:HD12	1:E:141:LEU:O	2.19	0.42
1:E:147:VAL:HG12	1:E:281:THR:OG1	2.19	0.42
1:E:499:GLN:CD	1:E:516:ASN:HB3	2.38	0.42
1:F:410:LEU:CD2	1:F:413:LYS:HA	2.49	0.42
1:F:461:PRO:O	1:F:461:PRO:HG2	2.18	0.42
1:F:516:ASN:O	1:F:517:THR:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:903:GLU:HG3	1:F:904:CYS:H	1.84	0.42
1:G:517:THR:HA	1:G:520:GLN:OE1	2.18	0.42
1:G:901:HIS:O	1:G:902:ILE:HB	2.18	0.42
1:H:39:ILE:HG23	1:H:40:LEU:HG	2.02	0.42
1:H:243:VAL:C	1:H:244:LEU:HD12	2.39	0.42
1:H:463:LEU:CD2	1:H:467:PHE:HD2	2.31	0.42
1:H:508:TRP:C	1:H:606:GLY:N	2.70	0.42
1:H:989:SER:HB2	1:H:1027:ASN:HA	2.01	0.42
1:I:463:LEU:CD2	1:I:467:PHE:HD2	2.31	0.42
1:I:535:TYR:O	1:I:538:LEU:HB3	2.19	0.42
1:J:113:LEU:HA	1:J:113:LEU:HD12	1.83	0.42
1:J:499:GLN:CD	1:J:516:ASN:HB3	2.39	0.42
1:K:79:GLU:OE2	1:K:83:ILE:HD11	2.19	0.42
1:K:488:ARG:HG2	1:K:491:PHE:CG	2.55	0.42
1:K:517:THR:CG2	1:K:518:LEU:N	2.81	0.42
1:K:542:ILE:HA	1:K:545:PHE:CD2	2.54	0.42
1:K:901:HIS:O	1:K:902:ILE:HB	2.18	0.42
1:L:147:VAL:HG12	1:L:281:THR:OG1	2.19	0.42
1:L:542:ILE:HA	1:L:545:PHE:CD2	2.54	0.42
1:L:553:LEU:HD23	1:L:553:LEU:HA	1.90	0.42
1:L:635:VAL:HB	1:L:641:ASP:CG	2.40	0.42
1:M:440:HIS:O	1:M:444:VAL:HG23	2.18	0.42
1:M:542:ILE:HA	1:M:545:PHE:CD2	2.54	0.42
1:M:646:ARG:HG3	1:M:648:GLU:HG3	2.00	0.42
1:N:147:VAL:HG12	1:N:281:THR:OG1	2.19	0.42
1:N:508:TRP:CD1	1:N:604:ASN:HB2	2.54	0.42
1:N:542:ILE:HA	1:N:545:PHE:CD2	2.54	0.42
1:O:508:TRP:C	1:O:606:GLY:N	2.70	0.42
1:O:545:PHE:O	1:O:549:ILE:HG22	2.20	0.42
1:O:989:SER:HB2	1:O:1027:ASN:HA	2.01	0.42
1:P:470:HIS:O	1:P:473:HIS:N	2.53	0.42
1:P:517:THR:HA	1:P:520:GLN:OE1	2.18	0.42
1:P:901:HIS:O	1:P:902:ILE:HB	2.18	0.42
1:A:124:ASN:C	1:A:124:ASN:OD1	2.58	0.42
1:A:542:ILE:HA	1:A:545:PHE:CD2	2.54	0.42
1:A:545:PHE:O	1:A:549:ILE:HG22	2.20	0.42
1:B:13:LYS:HE3	1:B:13:LYS:HB2	1.87	0.42
1:B:545:PHE:O	1:B:549:ILE:HG22	2.20	0.42
1:C:39:ILE:HG23	1:C:40:LEU:HG	2.02	0.42
1:C:552:ASN:HB3	1:C:1226:TYR:CE1	2.48	0.42
1:C:950:TRP:CZ3	1:C:952:HIS:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1127:ASP:OD1	1:C:1128:ILE:N	2.50	0.42
1:D:120:PHE:CE1	1:D:159:TRP:CE3	3.05	0.42
1:D:517:THR:CG2	1:D:518:LEU:N	2.81	0.42
1:D:542:ILE:HA	1:D:545:PHE:CD2	2.54	0.42
1:D:901:HIS:O	1:D:902:ILE:HB	2.18	0.42
1:E:39:ILE:HG23	1:E:40:LEU:HG	2.02	0.42
1:E:413:LYS:CD	1:E:422:ILE:O	2.61	0.42
1:E:481:PRO:O	1:E:485:THR:HG23	2.19	0.42
1:E:950:TRP:CZ3	1:E:952:HIS:HA	2.54	0.42
1:F:124:ASN:HA	2:F:1501:DTP:C2	2.49	0.42
1:F:535:TYR:O	1:F:538:LEU:HB3	2.19	0.42
1:F:646:ARG:HG3	1:F:648:GLU:HG3	2.00	0.42
1:G:124:ASN:OD1	1:G:124:ASN:C	2.58	0.42
1:G:915:TYR:CE2	1:G:916:LYS:HE3	2.54	0.42
1:H:79:GLU:OE2	1:H:83:ILE:HD11	2.19	0.42
1:H:317:LEU:O	1:H:318:THR:CB	2.61	0.42
1:H:488:ARG:HG2	1:H:491:PHE:CG	2.55	0.42
1:I:122:LYS:HG3	1:P:276:SER:HB2	2.00	0.42
1:I:453:PHE:CE2	1:I:460:PRO:HB3	2.49	0.42
1:I:508:TRP:C	1:I:606:GLY:N	2.70	0.42
1:I:516:ASN:O	1:I:517:THR:CB	2.67	0.42
1:J:147:VAL:HG12	1:J:281:THR:OG1	2.19	0.42
1:J:428:GLU:OE1	1:J:429:LEU:HA	2.20	0.42
1:J:481:PRO:O	1:J:485:THR:HG23	2.19	0.42
1:J:950:TRP:CZ3	1:J:952:HIS:HA	2.54	0.42
1:K:120:PHE:CE1	1:K:159:TRP:CE3	3.05	0.42
1:K:410:LEU:CD2	1:K:413:LYS:HA	2.49	0.42
1:K:862:ILE:HG23	1:K:863:THR:H	1.84	0.42
1:L:428:GLU:OE1	1:L:429:LEU:HA	2.20	0.42
1:M:13:LYS:HE3	1:M:13:LYS:HB2	1.87	0.42
1:M:488:ARG:HG2	1:M:491:PHE:CG	2.55	0.42
1:M:545:PHE:O	1:M:549:ILE:HG22	2.20	0.42
1:N:11:GLN:O	1:N:14:ASP:N	2.46	0.42
1:N:39:ILE:HG23	1:N:40:LEU:HG	2.02	0.42
1:N:79:GLU:OE2	1:N:83:ILE:HD11	2.19	0.42
1:N:124:ASN:C	1:N:124:ASN:OD1	2.58	0.42
1:N:264:LEU:HA	1:N:264:LEU:HD23	1.74	0.42
1:O:39:ILE:HG23	1:O:40:LEU:HG	2.02	0.42
1:O:463:LEU:CD2	1:O:467:PHE:HD2	2.31	0.42
1:P:410:LEU:CD2	1:P:413:LYS:HA	2.49	0.42
1:P:553:LEU:HD23	1:P:553:LEU:HA	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:GLN:O	1:A:14:ASP:N	2.46	0.42
1:A:147:VAL:HG12	1:A:281:THR:OG1	2.19	0.42
1:B:635:VAL:HB	1:B:641:ASP:CG	2.40	0.42
1:C:200:LEU:HD12	1:C:200:LEU:HA	1.74	0.42
1:C:1195:VAL:HG11	1:C:1241:PHE:CZ	2.54	0.42
1:D:79:GLU:OE2	1:D:83:ILE:HD11	2.19	0.42
1:D:453:PHE:CE1	1:D:460:PRO:HB3	2.51	0.42
1:D:517:THR:HA	1:D:520:GLN:OE1	2.18	0.42
1:D:523:PHE:HD1	1:D:527:TYR:CE2	2.28	0.42
1:D:1158:TYR:HB3	1:D:1162:ILE:HG23	2.01	0.42
1:E:507:ALA:O	1:E:608:ASN:CB	2.61	0.42
1:F:39:ILE:HG23	1:F:40:LEU:HG	2.02	0.42
1:F:769:ARG:NH1	1:F:771:PHE:HB2	2.35	0.42
1:F:950:TRP:CZ3	1:F:952:HIS:HA	2.54	0.42
1:G:410:LEU:CD2	1:G:413:LYS:HA	2.49	0.42
1:G:724:GLY:HA3	1:G:730:ILE:HD12	2.01	0.42
1:G:902:ILE:HD13	1:G:930:HIS:CE1	2.43	0.42
1:H:251:APK:O	1:H:253:TRP:HB3	2.20	0.42
1:H:496:PHE:HE2	1:H:555:CYS:HG	1.66	0.42
1:I:496:PHE:HE2	1:I:555:CYS:HG	1.66	0.42
1:I:862:ILE:HG23	1:I:863:THR:H	1.83	0.42
1:J:39:ILE:HG23	1:J:40:LEU:HG	2.02	0.42
1:K:453:PHE:CE1	1:K:460:PRO:HB3	2.51	0.42
1:K:508:TRP:CD1	1:K:604:ASN:HB2	2.54	0.42
1:K:517:THR:HA	1:K:520:GLN:OE1	2.19	0.42
1:K:523:PHE:HD1	1:K:527:TYR:CE2	2.28	0.42
1:K:635:VAL:HB	1:K:641:ASP:CG	2.40	0.42
1:K:1158:TYR:HB3	1:K:1162:ILE:HG23	2.01	0.42
1:L:13:LYS:HE3	1:L:13:LYS:HB2	1.87	0.42
1:L:39:ILE:HG23	1:L:40:LEU:HG	2.02	0.42
1:L:508:TRP:CD1	1:L:604:ASN:HB2	2.54	0.42
1:L:1195:VAL:HG11	1:L:1241:PHE:CZ	2.54	0.42
1:M:130:PRO:HA	1:M:290:MET:HE3	2.00	0.42
1:M:635:VAL:HB	1:M:641:ASP:CG	2.40	0.42
1:M:1075:SER:OG	1:M:1094:ASP:O	2.29	0.42
1:N:481:PRO:O	1:N:485:THR:HG23	2.19	0.42
1:N:545:PHE:O	1:N:549:ILE:HG22	2.20	0.42
1:O:79:GLU:OE2	1:O:83:ILE:HD11	2.20	0.42
1:O:488:ARG:HG2	1:O:491:PHE:CG	2.55	0.42
1:P:124:ASN:OD1	1:P:124:ASN:C	2.58	0.42
1:P:915:TYR:CE2	1:P:916:LYS:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:VAL:C	1:A:244:LEU:HD12	2.39	0.42
1:A:276:SER:OG	1:H:122:LYS:HG3	2.20	0.42
1:B:79:GLU:OE2	1:B:83:ILE:HD11	2.19	0.42
1:B:124:ASN:OD1	1:B:124:ASN:C	2.58	0.42
1:B:989:SER:HB2	1:B:1027:ASN:HA	2.01	0.42
1:C:115:ASN:O	1:D:257:ASN:ND2	2.52	0.42
1:C:313:PRO:CG	1:C:338:TRP:CE2	2.94	0.42
1:C:541:ALA:O	1:C:543:LEU:N	2.52	0.42
1:D:39:ILE:HG23	1:D:40:LEU:HG	2.02	0.42
1:D:200:LEU:HA	1:D:200:LEU:HD12	1.74	0.42
1:D:516:ASN:O	1:D:517:THR:CB	2.67	0.42
1:D:635:VAL:HB	1:D:641:ASP:CG	2.40	0.42
1:E:119:VAL:HG23	1:E:120:PHE:N	2.28	0.42
1:E:428:GLU:OE1	1:E:429:LEU:HA	2.20	0.42
1:F:342:LYS:HG3	1:F:343:HIS:N	2.34	0.42
1:F:496:PHE:HE2	1:F:555:CYS:HG	1.66	0.42
1:H:141:LEU:HD12	1:H:141:LEU:O	2.19	0.42
1:H:283:ILE:HD13	1:H:283:ILE:HA	1.92	0.42
1:I:39:ILE:HG23	1:I:40:LEU:HG	2.02	0.42
1:I:251:APK:H8	1:I:251:APK:H2'	1.73	0.42
1:I:410:LEU:CD2	1:I:413:LYS:HA	2.49	0.42
1:I:517:THR:CG2	1:I:518:LEU:N	2.82	0.42
1:J:79:GLU:OE2	1:J:83:ILE:HD11	2.19	0.42
1:J:545:PHE:O	1:J:549:ILE:HG22	2.19	0.42
1:K:39:ILE:HG23	1:K:40:LEU:HG	2.02	0.42
1:K:200:LEU:HA	1:K:200:LEU:HD12	1.74	0.42
1:K:251:APK:O	1:K:253:TRP:HB3	2.20	0.42
1:L:251:APK:H8	1:L:251:APK:H2'	1.74	0.42
1:L:463:LEU:CD2	1:L:467:PHE:HD2	2.31	0.42
1:L:549:ILE:HD12	1:L:550:GLU:H	1.85	0.42
1:L:1177:TYR:HE2	1:M:916:LYS:CE	2.33	0.42
1:M:79:GLU:OE2	1:M:83:ILE:HD11	2.19	0.42
1:M:124:ASN:OD1	1:M:124:ASN:C	2.58	0.42
1:M:392:ASP:OD1	1:M:393:VAL:N	2.47	0.42
1:M:523:PHE:HD1	1:M:527:TYR:CE2	2.28	0.42
1:N:73:VAL:O	1:N:76:PHE:N	2.52	0.42
1:N:646:ARG:HG3	1:N:648:GLU:HG3	2.00	0.42
1:O:244:LEU:HD21	1:O:256:PHE:CD2	2.50	0.42
1:O:470:HIS:O	1:O:473:HIS:N	2.53	0.42
1:O:902:ILE:HD13	1:O:930:HIS:CE1	2.43	0.42
1:P:481:PRO:O	1:P:485:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:799:ASN:O	1:P:800:THR:CG2	2.67	0.42
1:A:73:VAL:O	1:A:76:PHE:N	2.52	0.42
1:A:283:ILE:HD13	1:A:283:ILE:HA	1.92	0.42
1:B:130:PRO:HA	1:B:290:MET:HE3	2.01	0.42
1:B:462:TYR:OH	1:B:494:PHE:CE1	2.72	0.42
1:B:560:ASP:HA	1:B:592:ASN:ND2	2.29	0.42
1:B:646:ARG:HG3	1:B:648:GLU:HG3	2.00	0.42
1:B:833:LYS:HB3	1:B:834:TYR:H	1.63	0.42
1:B:1075:SER:OG	1:B:1094:ASP:O	2.29	0.42
1:C:113:LEU:HA	1:C:113:LEU:HD12	1.83	0.42
1:C:453:PHE:CE1	1:C:460:PRO:HB3	2.51	0.42
1:C:463:LEU:CD2	1:C:467:PHE:HD2	2.31	0.42
1:C:549:ILE:HD12	1:C:550:GLU:H	1.85	0.42
1:C:635:VAL:HB	1:C:641:ASP:CG	2.40	0.42
1:D:59:LEU:HD21	1:D:63:TRP:CZ2	2.55	0.42
1:D:251:APK:O	1:D:253:TRP:HB3	2.20	0.42
1:D:903:GLU:HG3	1:D:904:CYS:H	1.84	0.42
1:D:989:SER:HB2	1:D:1027:ASN:HA	2.01	0.42
1:E:251:APK:H8	1:E:251:APK:H2'	1.74	0.42
1:E:545:PHE:O	1:E:549:ILE:HG22	2.20	0.42
1:E:989:SER:HB2	1:E:1027:ASN:HA	2.01	0.42
1:E:1158:TYR:HB3	1:E:1162:ILE:HG23	2.01	0.42
1:F:285:LEU:HA	1:F:285:LEU:HD23	1.74	0.42
1:F:508:TRP:C	1:F:606:GLY:N	2.70	0.42
1:F:875:LEU:CG	1:F:911:PHE:CE2	2.86	0.42
1:G:342:LYS:HG3	1:G:343:HIS:N	2.34	0.42
1:G:481:PRO:O	1:G:485:THR:HG23	2.19	0.42
1:G:799:ASN:O	1:G:800:THR:CG2	2.67	0.42
1:H:91:PRO:O	1:H:94:THR:OG1	2.21	0.42
1:H:470:HIS:O	1:H:473:HIS:N	2.53	0.42
1:H:552:ASN:HB3	1:H:1226:TYR:CE1	2.48	0.42
1:I:124:ASN:HA	2:I:1501:DTP:C2	2.49	0.42
1:I:342:LYS:HG3	1:I:343:HIS:N	2.34	0.42
1:I:488:ARG:HG2	1:I:491:PHE:CG	2.55	0.42
1:I:545:PHE:CA	1:I:548:LYS:HB2	2.45	0.42
1:I:635:VAL:HB	1:I:641:ASP:CG	2.40	0.42
1:I:769:ARG:NH1	1:I:771:PHE:HB2	2.35	0.42
1:I:903:GLU:HG3	1:I:904:CYS:H	1.84	0.42
1:J:119:VAL:HG23	1:J:120:PHE:N	2.28	0.42
1:J:516:ASN:O	1:J:517:THR:CB	2.67	0.42
1:J:545:PHE:CA	1:J:548:LYS:HB2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:635:VAL:HB	1:J:641:ASP:CG	2.40	0.42
1:J:989:SER:HB2	1:J:1027:ASN:HA	2.01	0.42
1:K:59:LEU:HD21	1:K:63:TRP:CZ2	2.55	0.42
1:K:516:ASN:O	1:K:517:THR:CB	2.67	0.42
1:L:79:GLU:OE2	1:L:83:ILE:HD11	2.19	0.42
1:M:276:SER:OG	1:N:122:LYS:HG3	2.19	0.42
1:M:462:TYR:OH	1:M:494:PHE:CE1	2.72	0.42
1:M:560:ASP:HA	1:M:592:ASN:ND2	2.29	0.42
1:M:862:ILE:HG23	1:M:863:THR:H	1.83	0.42
1:M:989:SER:HB2	1:M:1027:ASN:HA	2.01	0.42
1:N:389:ILE:CD1	1:N:446:HIS:HE2	2.14	0.42
1:N:463:LEU:CD2	1:N:467:PHE:HD2	2.31	0.42
1:O:59:LEU:HD21	1:O:63:TRP:CZ2	2.55	0.42
1:O:141:LEU:HD12	1:O:141:LEU:O	2.19	0.42
1:O:251:APK:O	1:O:253:TRP:HB3	2.20	0.42
1:P:724:GLY:HA3	1:P:730:ILE:HD12	2.01	0.42
1:A:406:HIS:ND1	1:A:414:GLN:HG3	2.35	0.42
1:A:428:GLU:OE1	1:A:429:LEU:HA	2.20	0.42
1:B:523:PHE:HD1	1:B:527:TYR:CE2	2.28	0.42
1:C:13:LYS:HE3	1:C:13:LYS:HB2	1.87	0.42
1:C:406:HIS:ND1	1:C:414:GLN:HG3	2.35	0.42
1:C:557:LYS:HD3	1:C:1223:GLN:NE2	2.35	0.42
1:E:79:GLU:OE2	1:E:83:ILE:HD11	2.19	0.42
1:E:113:LEU:HA	1:E:113:LEU:HD12	1.84	0.42
1:E:516:ASN:O	1:E:517:THR:CB	2.67	0.42
1:E:557:LYS:HD3	1:E:1223:GLN:NE2	2.35	0.42
1:F:331:ILE:HD12	1:F:338:TRP:H	1.85	0.42
1:F:426:TYR:O	1:F:429:LEU:N	2.53	0.42
1:F:470:HIS:O	1:F:473:HIS:N	2.53	0.42
1:F:488:ARG:HG2	1:F:491:PHE:CG	2.55	0.42
1:F:517:THR:CG2	1:F:518:LEU:N	2.81	0.42
1:F:989:SER:HB2	1:F:1027:ASN:HA	2.01	0.42
1:H:557:LYS:HD3	1:H:1223:GLN:NE2	2.35	0.42
1:I:59:LEU:HD21	1:I:63:TRP:CZ2	2.55	0.42
1:I:989:SER:HB2	1:I:1027:ASN:HA	2.01	0.42
1:J:1158:TYR:HB3	1:J:1162:ILE:HG23	2.01	0.42
1:K:903:GLU:HG3	1:K:904:CYS:H	1.84	0.42
1:K:989:SER:HB2	1:K:1027:ASN:HA	2.01	0.42
1:K:1139:ASP:O	1:K:1140:SER:OG	2.35	0.42
1:L:426:TYR:O	1:L:429:LEU:N	2.53	0.42
1:L:453:PHE:CE1	1:L:460:PRO:HB3	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:557:LYS:HD3	1:L:1223:GLN:NE2	2.35	0.42
1:L:770:CYS:SG	1:L:781:VAL:HG13	2.60	0.42
1:N:59:LEU:HD21	1:N:63:TRP:CZ2	2.55	0.42
1:N:317:LEU:O	1:N:318:THR:CB	2.61	0.42
1:N:406:HIS:ND1	1:N:414:GLN:HG3	2.35	0.42
1:N:905:VAL:HG13	1:N:906:ASP:H	1.85	0.42
1:O:336:ALA:C	1:O:337:THR:HG1	2.19	0.42
1:O:557:LYS:HD3	1:O:1223:GLN:NE2	2.35	0.42
1:P:342:LYS:HG3	1:P:343:HIS:N	2.34	0.42
1:P:453:PHE:CE1	1:P:460:PRO:HB3	2.51	0.42
1:P:1192:SER:OG	1:P:1208:GLU:OE2	2.28	0.42
1:A:59:LEU:HD21	1:A:63:TRP:CZ2	2.55	0.41
1:A:463:LEU:CD2	1:A:467:PHE:HD2	2.31	0.41
1:A:635:VAL:HB	1:A:641:ASP:CG	2.40	0.41
1:A:905:VAL:HG13	1:A:906:ASP:H	1.85	0.41
1:A:989:SER:HB2	1:A:1027:ASN:HA	2.01	0.41
1:B:141:LEU:HD12	1:B:141:LEU:O	2.19	0.41
1:B:243:VAL:C	1:B:244:LEU:HD12	2.39	0.41
1:B:331:ILE:HD12	1:B:338:TRP:H	1.85	0.41
1:B:426:TYR:O	1:B:429:LEU:N	2.53	0.41
1:B:516:ASN:O	1:B:517:THR:CB	2.67	0.41
1:B:862:ILE:HG23	1:B:863:THR:H	1.83	0.41
1:C:79:GLU:OE2	1:C:83:ILE:HD11	2.20	0.41
1:C:312:LEU:HD23	1:C:312:LEU:C	2.40	0.41
1:C:331:ILE:HD12	1:C:338:TRP:H	1.85	0.41
1:D:406:HIS:ND1	1:D:414:GLN:HG3	2.35	0.41
1:D:770:CYS:SG	1:D:781:VAL:HG13	2.60	0.41
1:E:331:ILE:HD12	1:E:338:TRP:H	1.85	0.41
1:E:545:PHE:CA	1:E:548:LYS:HB2	2.45	0.41
1:E:549:ILE:HD12	1:E:550:GLU:H	1.85	0.41
1:E:635:VAL:HB	1:E:641:ASP:CG	2.40	0.41
1:E:799:ASN:O	1:E:800:THR:CG2	2.67	0.41
1:F:59:LEU:HD21	1:F:63:TRP:CZ2	2.55	0.41
1:F:130:PRO:HA	1:F:290:MET:HE3	2.02	0.41
1:F:468:TYR:HE1	1:F:497:LEU:HB2	1.85	0.41
1:F:635:VAL:HB	1:F:641:ASP:CG	2.40	0.41
1:G:462:TYR:OH	1:G:494:PHE:CE1	2.72	0.41
1:G:516:ASN:O	1:G:517:THR:CB	2.67	0.41
1:H:13:LYS:HB2	1:H:13:LYS:HE3	1.87	0.41
1:H:59:LEU:HD21	1:H:63:TRP:CZ2	2.55	0.41
1:I:244:LEU:HD21	1:I:256:PHE:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:346:CYS:SG	1:I:350:THR:OG1	2.76	0.41
1:I:389:ILE:CD1	1:I:446:HIS:HE2	2.14	0.41
1:I:426:TYR:O	1:I:429:LEU:N	2.53	0.41
1:I:549:ILE:HD12	1:I:550:GLU:H	1.85	0.41
1:I:950:TRP:CZ3	1:I:952:HIS:HA	2.54	0.41
1:J:331:ILE:HD12	1:J:338:TRP:H	1.85	0.41
1:J:507:ALA:O	1:J:608:ASN:CB	2.61	0.41
1:J:549:ILE:HD12	1:J:550:GLU:H	1.85	0.41
1:J:557:LYS:HD3	1:J:1223:GLN:NE2	2.35	0.41
1:J:799:ASN:O	1:J:800:THR:CG2	2.67	0.41
1:K:257:ASN:ND2	1:L:115:ASN:O	2.51	0.41
1:K:406:HIS:ND1	1:K:414:GLN:HG3	2.35	0.41
1:L:313:PRO:CG	1:L:338:TRP:CE2	2.94	0.41
1:L:768:ILE:HG23	1:L:769:ARG:N	2.36	0.41
1:L:989:SER:HB2	1:L:1027:ASN:HA	2.01	0.41
1:M:141:LEU:HD12	1:M:141:LEU:O	2.19	0.41
1:M:243:VAL:C	1:M:244:LEU:HD12	2.39	0.41
1:M:382:PRO:HA	1:M:419:THR:CG2	2.36	0.41
1:M:406:HIS:ND1	1:M:414:GLN:HG3	2.35	0.41
1:M:516:ASN:O	1:M:517:THR:CB	2.67	0.41
1:N:243:VAL:C	1:N:244:LEU:HD12	2.39	0.41
1:N:428:GLU:OE1	1:N:429:LEU:HA	2.20	0.41
1:N:989:SER:HB2	1:N:1027:ASN:HA	2.01	0.41
1:N:1026:PHE:HD1	1:N:1062:LYS:HG2	1.86	0.41
1:N:1051:GLN:HG3	1:N:1053:PHE:CD2	2.55	0.41
1:P:462:TYR:OH	1:P:494:PHE:CE1	2.72	0.41
1:A:264:LEU:HA	1:A:264:LEU:HD23	1.74	0.41
1:A:317:LEU:O	1:A:318:THR:CB	2.61	0.41
1:A:389:ILE:CD1	1:A:446:HIS:HE2	2.14	0.41
1:A:410:LEU:CD2	1:A:413:LYS:HA	2.49	0.41
1:A:541:ALA:O	1:A:543:LEU:N	2.52	0.41
1:A:1026:PHE:HD1	1:A:1062:LYS:HG2	1.86	0.41
1:A:1051:GLN:HG3	1:A:1053:PHE:CD2	2.55	0.41
1:A:1198:ASP:OD1	1:A:1199:ASP:N	2.50	0.41
1:B:147:VAL:HG12	1:B:281:THR:OG1	2.19	0.41
1:B:428:GLU:OE1	1:B:429:LEU:HA	2.20	0.41
1:B:768:ILE:HG23	1:B:769:ARG:N	2.35	0.41
1:C:132:LEU:HD12	1:C:132:LEU:HA	1.79	0.41
1:C:426:TYR:O	1:C:429:LEU:N	2.53	0.41
1:C:508:TRP:CD1	1:C:604:ASN:HB2	2.54	0.41
1:C:724:GLY:HA3	1:C:730:ILE:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:768:ILE:HG23	1:C:769:ARG:N	2.36	0.41
1:C:770:CYS:SG	1:C:781:VAL:HG13	2.60	0.41
1:C:989:SER:HB2	1:C:1027:ASN:HA	2.01	0.41
1:C:1051:GLN:HG3	1:C:1053:PHE:CD2	2.55	0.41
1:D:14:ASP:CG	1:E:142:ARG:HH22	2.22	0.41
1:D:470:HIS:O	1:D:473:HIS:N	2.53	0.41
1:D:560:ASP:O	1:D:564:ILE:HG12	2.21	0.41
1:E:59:LEU:HD21	1:E:63:TRP:CZ2	2.55	0.41
1:E:312:LEU:HD23	1:E:312:LEU:C	2.40	0.41
1:E:324:LEU:HA	1:E:324:LEU:HD12	1.61	0.41
1:E:406:HIS:ND1	1:E:414:GLN:HG3	2.35	0.41
1:F:244:LEU:HD21	1:F:256:PHE:CD2	2.50	0.41
1:F:335:LEU:HD21	1:G:399:MET:HG3	2.01	0.41
1:F:389:ILE:CD1	1:F:446:HIS:HE2	2.14	0.41
1:F:1139:ASP:O	1:F:1140:SER:OG	2.35	0.41
1:G:1158:TYR:HB3	1:G:1162:ILE:HG23	2.01	0.41
1:H:244:LEU:HD21	1:H:256:PHE:CD2	2.51	0.41
1:H:406:HIS:ND1	1:H:414:GLN:HG3	2.35	0.41
1:H:770:CYS:SG	1:H:781:VAL:HG13	2.60	0.41
1:I:276:SER:OG	1:J:122:LYS:HG3	2.20	0.41
1:I:468:TYR:HE1	1:I:497:LEU:HB2	1.85	0.41
1:I:470:HIS:O	1:I:473:HIS:N	2.53	0.41
1:J:406:HIS:ND1	1:J:414:GLN:HG3	2.35	0.41
1:K:152:VAL:O	1:K:155:SER:OG	2.29	0.41
1:L:406:HIS:ND1	1:L:414:GLN:HG3	2.35	0.41
1:L:519:GLN:HG2	1:L:523:PHE:HE2	1.84	0.41
1:L:552:ASN:HB3	1:L:1226:TYR:CE1	2.48	0.41
1:M:64:THR:O	1:M:67:SER:OG	2.27	0.41
1:M:147:VAL:HG12	1:M:281:THR:OG1	2.19	0.41
1:M:331:ILE:HD12	1:M:338:TRP:H	1.85	0.41
1:M:426:TYR:O	1:M:429:LEU:N	2.53	0.41
1:M:428:GLU:OE1	1:M:429:LEU:HA	2.20	0.41
1:M:557:LYS:HD3	1:M:1223:GLN:NE2	2.35	0.41
1:M:833:LYS:HB3	1:M:834:TYR:H	1.63	0.41
1:N:635:VAL:HB	1:N:641:ASP:CG	2.40	0.41
1:N:1198:ASP:OD1	1:N:1199:ASP:N	2.50	0.41
1:O:406:HIS:ND1	1:O:414:GLN:HG3	2.35	0.41
1:P:516:ASN:O	1:P:517:THR:CB	2.67	0.41
1:P:545:PHE:O	1:P:549:ILE:HG22	2.19	0.41
1:P:1158:TYR:HB3	1:P:1162:ILE:HG23	2.01	0.41
1:A:331:ILE:HD12	1:A:338:TRP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ILE:HD12	1:A:550:GLU:H	1.85	0.41
1:A:584:PHE:HB3	1:A:585:ASP:H	1.61	0.41
1:A:769:ARG:NH1	1:A:771:PHE:HB2	2.35	0.41
1:B:312:LEU:CD2	1:B:313:PRO:CD	2.86	0.41
1:B:406:HIS:ND1	1:B:414:GLN:HG3	2.35	0.41
1:B:557:LYS:HD3	1:B:1223:GLN:NE2	2.35	0.41
1:C:285:LEU:HD23	1:C:285:LEU:HA	1.74	0.41
1:D:13:LYS:HE3	1:D:13:LYS:HB2	1.87	0.41
1:D:113:LEU:HD12	1:D:113:LEU:HA	1.83	0.41
1:D:426:TYR:O	1:D:429:LEU:N	2.53	0.41
1:D:768:ILE:HG23	1:D:769:ARG:N	2.36	0.41
1:D:1075:SER:OG	1:D:1094:ASP:O	2.29	0.41
1:E:64:THR:O	1:E:67:SER:OG	2.27	0.41
1:F:271:VAL:O	1:F:274:PHE:N	2.54	0.41
1:F:549:ILE:HD12	1:F:550:GLU:H	1.85	0.41
1:F:557:LYS:HD3	1:F:1223:GLN:NE2	2.35	0.41
1:G:545:PHE:O	1:G:549:ILE:HG22	2.19	0.41
1:G:770:CYS:SG	1:G:781:VAL:HG13	2.60	0.41
1:H:113:LEU:HD12	1:H:113:LEU:HA	1.84	0.41
1:H:271:VAL:O	1:H:274:PHE:N	2.54	0.41
1:H:331:ILE:HD12	1:H:338:TRP:H	1.85	0.41
1:H:336:ALA:C	1:H:337:THR:HG1	2.19	0.41
1:I:79:GLU:OE2	1:I:83:ILE:HD11	2.19	0.41
1:I:119:VAL:HG23	1:I:120:PHE:N	2.29	0.41
1:I:770:CYS:SG	1:I:781:VAL:HG13	2.60	0.41
1:I:1139:ASP:O	1:I:1140:SER:OG	2.35	0.41
1:J:59:LEU:HD21	1:J:63:TRP:CZ2	2.55	0.41
1:J:312:LEU:HD23	1:J:312:LEU:C	2.41	0.41
1:J:346:CYS:SG	1:J:350:THR:OG1	2.76	0.41
1:K:147:VAL:HG12	1:K:281:THR:OG1	2.19	0.41
1:K:325:SER:O	1:K:329:GLU:N	2.42	0.41
1:K:413:LYS:CD	1:K:422:ILE:O	2.60	0.41
1:K:426:TYR:O	1:K:429:LEU:N	2.53	0.41
1:K:470:HIS:O	1:K:473:HIS:N	2.53	0.41
1:K:560:ASP:O	1:K:564:ILE:HG12	2.21	0.41
1:K:768:ILE:HG23	1:K:769:ARG:N	2.36	0.41
1:K:770:CYS:SG	1:K:781:VAL:HG13	2.60	0.41
1:K:1051:GLN:HG3	1:K:1053:PHE:CD2	2.55	0.41
1:K:1075:SER:OG	1:K:1094:ASP:O	2.29	0.41
1:L:219:LEU:HD11	1:M:201:TYR:HE2	1.86	0.41
1:L:312:LEU:HD23	1:L:312:LEU:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:336:ALA:C	1:L:338:TRP:N	2.74	0.41
1:L:724:GLY:HA3	1:L:730:ILE:HD12	2.01	0.41
1:L:1051:GLN:HG3	1:L:1053:PHE:CD2	2.56	0.41
1:M:251:APK:O	1:M:253:TRP:HB3	2.20	0.41
1:M:768:ILE:HG23	1:M:769:ARG:N	2.36	0.41
1:M:770:CYS:SG	1:M:781:VAL:HG13	2.60	0.41
1:M:1026:PHE:HD1	1:M:1062:LYS:HG2	1.86	0.41
1:N:410:LEU:CD2	1:N:413:LYS:HA	2.49	0.41
1:N:426:TYR:O	1:N:429:LEU:N	2.53	0.41
1:O:283:ILE:HD13	1:O:283:ILE:HA	1.92	0.41
1:O:331:ILE:HD12	1:O:338:TRP:H	1.85	0.41
1:O:552:ASN:HB3	1:O:1226:TYR:CE1	2.48	0.41
1:O:770:CYS:SG	1:O:781:VAL:HG13	2.60	0.41
1:P:346:CYS:SG	1:P:350:THR:OG1	2.76	0.41
1:P:770:CYS:SG	1:P:781:VAL:HG13	2.60	0.41
1:A:488:ARG:HG2	1:A:491:PHE:CG	2.55	0.41
1:B:102:MET:O	1:B:105:MET:N	2.46	0.41
1:B:201:TYR:CZ	1:C:223:SER:OG	2.64	0.41
1:B:251:APK:O	1:B:253:TRP:HB3	2.20	0.41
1:B:770:CYS:SG	1:B:781:VAL:HG13	2.60	0.41
1:B:915:TYR:CE2	1:B:916:LYS:HE3	2.53	0.41
1:B:1026:PHE:HD1	1:B:1062:LYS:HG2	1.86	0.41
1:C:413:LYS:CD	1:C:422:ILE:O	2.61	0.41
1:D:147:VAL:HG12	1:D:281:THR:OG1	2.19	0.41
1:D:325:SER:O	1:D:329:GLU:N	2.42	0.41
1:D:413:LYS:CD	1:D:422:ILE:O	2.61	0.41
1:D:1026:PHE:HD1	1:D:1062:LYS:HG2	1.86	0.41
1:D:1051:GLN:HG3	1:D:1053:PHE:CD2	2.55	0.41
1:F:545:PHE:CA	1:F:548:LYS:HB2	2.45	0.41
1:F:833:LYS:HB3	1:F:834:TYR:H	1.63	0.41
1:G:346:CYS:SG	1:G:350:THR:OG1	2.76	0.41
1:G:1051:GLN:HG3	1:G:1053:PHE:CD2	2.55	0.41
1:G:1192:SER:OG	1:G:1208:GLU:OE2	2.28	0.41
1:H:336:ALA:C	1:H:338:TRP:N	2.74	0.41
1:H:635:VAL:HB	1:H:641:ASP:CG	2.40	0.41
1:H:902:ILE:HD13	1:H:930:HIS:CE1	2.43	0.41
1:H:1026:PHE:HD1	1:H:1062:LYS:HG2	1.86	0.41
1:I:331:ILE:HD12	1:I:338:TRP:H	1.85	0.41
1:I:428:GLU:OE1	1:I:429:LEU:HA	2.20	0.41
1:I:545:PHE:O	1:I:549:ILE:HG22	2.20	0.41
1:I:1177:TYR:HE2	1:J:916:LYS:CE	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:251:APK:O	1:J:253:TRP:HB3	2.20	0.41
1:K:13:LYS:HE3	1:K:13:LYS:HB2	1.87	0.41
1:K:724:GLY:HA3	1:K:730:ILE:HD12	2.01	0.41
1:K:902:ILE:HD13	1:K:930:HIS:CE1	2.43	0.41
1:K:1026:PHE:HD1	1:K:1062:LYS:HG2	1.86	0.41
1:L:251:APK:O	1:L:253:TRP:HB3	2.20	0.41
1:L:331:ILE:HD12	1:L:338:TRP:H	1.86	0.41
1:L:518:LEU:N	1:L:518:LEU:CD1	2.81	0.41
1:L:1026:PHE:HD1	1:L:1062:LYS:HG2	1.85	0.41
1:M:102:MET:O	1:M:105:MET:N	2.46	0.41
1:M:113:LEU:HA	1:M:113:LEU:HD12	1.83	0.41
1:M:902:ILE:HD13	1:M:930:HIS:CE1	2.43	0.41
1:N:119:VAL:HG23	1:N:120:PHE:N	2.28	0.41
1:N:283:ILE:HD13	1:N:283:ILE:HA	1.92	0.41
1:N:331:ILE:HD12	1:N:338:TRP:H	1.85	0.41
1:N:541:ALA:O	1:N:543:LEU:N	2.52	0.41
1:N:549:ILE:HD12	1:N:550:GLU:H	1.85	0.41
1:O:336:ALA:C	1:O:338:TRP:N	2.74	0.41
1:O:549:ILE:HD12	1:O:550:GLU:H	1.85	0.41
1:O:915:TYR:CE2	1:O:916:LYS:HE3	2.53	0.41
1:O:1026:PHE:HD1	1:O:1062:LYS:HG2	1.86	0.41
1:P:59:LEU:HD21	1:P:63:TRP:CZ2	2.55	0.41
1:P:142:ARG:H	1:P:142:ARG:HG2	1.73	0.41
1:P:251:APK:O	1:P:253:TRP:HB3	2.20	0.41
1:P:635:VAL:HB	1:P:641:ASP:CG	2.40	0.41
1:P:905:VAL:HG13	1:P:906:ASP:H	1.85	0.41
1:A:426:TYR:O	1:A:429:LEU:N	2.53	0.41
1:A:768:ILE:HG23	1:A:769:ARG:N	2.36	0.41
1:B:285:LEU:HD23	1:B:285:LEU:HA	1.74	0.41
1:B:317:LEU:C	1:B:318:THR:HG1	1.96	0.41
1:B:382:PRO:HA	1:B:419:THR:CG2	2.36	0.41
1:B:451:LYS:CD	1:B:486:LEU:HD21	2.33	0.41
1:B:508:TRP:CD1	1:B:604:ASN:HB2	2.54	0.41
1:C:251:APK:O	1:C:253:TRP:HB3	2.20	0.41
1:C:336:ALA:C	1:C:338:TRP:N	2.74	0.41
1:C:519:GLN:HG2	1:C:523:PHE:HE2	1.84	0.41
1:D:468:TYR:HE1	1:D:497:LEU:HB2	1.85	0.41
1:D:724:GLY:HA3	1:D:730:ILE:HD12	2.01	0.41
1:D:829:LEU:HD21	1:D:874:LEU:HD22	2.03	0.41
1:E:768:ILE:HG23	1:E:769:ARG:N	2.35	0.41
1:E:1009:ILE:HG13	1:E:1011:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:428:GLU:OE1	1:F:429:LEU:HA	2.20	0.41
1:F:545:PHE:O	1:F:549:ILE:HG22	2.19	0.41
1:F:603:ILE:HD11	1:F:635:VAL:HG11	2.03	0.41
1:F:770:CYS:SG	1:F:781:VAL:HG13	2.61	0.41
1:F:1158:TYR:HB3	1:F:1162:ILE:HG23	2.01	0.41
1:G:59:LEU:HD21	1:G:63:TRP:CZ2	2.55	0.41
1:G:251:APK:O	1:G:253:TRP:HB3	2.20	0.41
1:G:507:ALA:O	1:G:608:ASN:CB	2.61	0.41
1:G:635:VAL:HB	1:G:641:ASP:CG	2.40	0.41
1:H:915:TYR:CE2	1:H:916:LYS:HE3	2.53	0.41
1:I:557:LYS:HD3	1:I:1223:GLN:NE2	2.35	0.41
1:J:157:LYS:H	1:J:157:LYS:HG2	1.68	0.41
1:J:251:APK:H8	1:J:251:APK:H2'	1.74	0.41
1:J:1009:ILE:HG13	1:J:1011:PRO:HD3	2.03	0.41
1:K:468:TYR:HE1	1:K:497:LEU:HB2	1.85	0.41
1:K:519:GLN:HG2	1:K:523:PHE:HE2	1.84	0.41
1:K:829:LEU:HD21	1:K:874:LEU:HD22	2.03	0.41
1:M:312:LEU:CD2	1:M:313:PRO:CD	2.86	0.41
1:M:508:TRP:CD1	1:M:604:ASN:HB2	2.54	0.41
1:M:519:GLN:HG2	1:M:523:PHE:HE2	1.84	0.41
1:M:915:TYR:CE2	1:M:916:LYS:HE3	2.53	0.41
1:N:768:ILE:HG23	1:N:769:ARG:N	2.36	0.41
1:N:769:ARG:NH1	1:N:771:PHE:HB2	2.35	0.41
1:O:271:VAL:O	1:O:274:PHE:N	2.54	0.41
1:O:413:LYS:CD	1:O:422:ILE:O	2.61	0.41
1:O:862:ILE:HG23	1:O:863:THR:H	1.83	0.41
1:P:336:ALA:C	1:P:337:THR:HG1	2.21	0.41
1:P:406:HIS:ND1	1:P:414:GLN:HG3	2.35	0.41
1:P:1051:GLN:HG3	1:P:1053:PHE:CD2	2.55	0.41
1:A:15:ILE:HD12	1:A:15:ILE:HA	1.92	0.41
1:A:557:LYS:HD3	1:A:1223:GLN:NE2	2.35	0.41
1:A:829:LEU:HD21	1:A:874:LEU:HD22	2.03	0.41
1:A:833:LYS:HB3	1:A:834:TYR:H	1.63	0.41
1:B:519:GLN:HG2	1:B:523:PHE:HE2	1.84	0.41
1:B:902:ILE:HD13	1:B:930:HIS:CE1	2.43	0.41
1:C:122:LYS:O	1:C:303:LYS:NZ	2.38	0.41
1:C:250:ALA:C	1:C:251:APK:O	2.59	0.41
1:C:560:ASP:O	1:C:564:ILE:HG12	2.21	0.41
1:C:829:LEU:HD21	1:C:874:LEU:HD22	2.03	0.41
1:C:905:VAL:HG13	1:C:906:ASP:H	1.85	0.41
1:D:152:VAL:O	1:D:155:SER:OG	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:324:LEU:HD12	1:D:324:LEU:HA	1.61	0.41
1:D:336:ALA:C	1:D:338:TRP:N	2.74	0.41
1:D:1195:VAL:HG11	1:D:1241:PHE:CZ	2.54	0.41
1:E:346:CYS:SG	1:E:350:THR:OG1	2.76	0.41
1:F:79:GLU:OE2	1:F:83:ILE:HD11	2.20	0.41
1:F:346:CYS:SG	1:F:350:THR:OG1	2.76	0.41
1:F:724:GLY:HA3	1:F:730:ILE:HD12	2.01	0.41
1:G:198:LYS:NZ	1:H:222:HIS:CG	2.88	0.41
1:G:406:HIS:ND1	1:G:414:GLN:HG3	2.35	0.41
1:G:905:VAL:HG13	1:G:906:ASP:H	1.86	0.41
1:H:124:ASN:C	1:H:124:ASN:OD1	2.57	0.41
1:H:468:TYR:HE1	1:H:497:LEU:HB2	1.85	0.41
1:H:549:ILE:HD12	1:H:550:GLU:H	1.85	0.41
1:H:833:LYS:HB3	1:H:834:TYR:H	1.63	0.41
1:H:862:ILE:HG23	1:H:863:THR:H	1.83	0.41
1:I:271:VAL:O	1:I:274:PHE:N	2.54	0.41
1:I:406:HIS:ND1	1:I:414:GLN:HG3	2.35	0.41
1:I:724:GLY:HA3	1:I:730:ILE:HD12	2.01	0.41
1:I:1009:ILE:HG13	1:I:1011:PRO:HD3	2.03	0.41
1:I:1026:PHE:HD1	1:I:1062:LYS:HG2	1.86	0.41
1:J:426:TYR:O	1:J:429:LEU:N	2.53	0.41
1:J:468:TYR:HE1	1:J:497:LEU:HB2	1.85	0.41
1:J:768:ILE:HG23	1:J:769:ARG:N	2.35	0.41
1:K:147:VAL:HG23	1:K:263:LEU:HG	2.03	0.41
1:K:336:ALA:C	1:K:338:TRP:N	2.74	0.41
1:L:250:ALA:C	1:L:251:APK:O	2.59	0.41
1:L:516:ASN:O	1:L:517:THR:CB	2.67	0.41
1:L:560:ASP:O	1:L:564:ILE:HG12	2.21	0.41
1:M:147:VAL:HG23	1:M:263:LEU:HG	2.03	0.41
1:N:829:LEU:HD21	1:N:874:LEU:HD22	2.03	0.41
1:O:468:TYR:HE1	1:O:497:LEU:HB2	1.85	0.41
1:O:635:VAL:HB	1:O:641:ASP:CG	2.40	0.41
1:A:470:HIS:O	1:A:473:HIS:N	2.53	0.41
1:B:147:VAL:HG23	1:B:263:LEU:HG	2.03	0.41
1:B:271:VAL:O	1:B:274:PHE:N	2.54	0.41
1:C:516:ASN:O	1:C:517:THR:CB	2.67	0.41
1:D:147:VAL:HG23	1:D:263:LEU:HG	2.03	0.41
1:D:1009:ILE:HG13	1:D:1011:PRO:HD3	2.03	0.41
1:E:153:LEU:CD2	1:E:267:ARG:HD3	2.51	0.41
1:E:251:APK:O	1:E:253:TRP:HB3	2.20	0.41
1:E:829:LEU:HD21	1:E:874:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1198:ASP:OD1	1:E:1199:ASP:N	2.50	0.41
1:F:251:APK:O	1:F:253:TRP:HB3	2.20	0.41
1:F:768:ILE:HG23	1:F:769:ARG:N	2.35	0.41
1:F:1026:PHE:HD1	1:F:1062:LYS:HG2	1.86	0.41
1:G:488:ARG:HG2	1:G:491:PHE:CG	2.55	0.41
1:G:557:LYS:HD3	1:G:1223:GLN:NE2	2.35	0.41
1:I:14:ASP:CG	1:P:142:ARG:HH22	2.24	0.41
1:I:603:ILE:HD11	1:I:635:VAL:HG11	2.03	0.41
1:I:1158:TYR:HB3	1:I:1162:ILE:HG23	2.01	0.41
1:J:153:LEU:CD2	1:J:267:ARG:HD3	2.51	0.41
1:J:453:PHE:CE1	1:J:460:PRO:HB3	2.51	0.41
1:J:829:LEU:HD21	1:J:874:LEU:HD22	2.03	0.41
1:K:403:ASN:CG	1:L:333:ASP:OD2	2.58	0.41
1:L:488:ARG:HG2	1:L:491:PHE:CG	2.55	0.41
1:L:829:LEU:HD21	1:L:874:LEU:HD22	2.03	0.41
1:L:905:VAL:HG13	1:L:906:ASP:H	1.85	0.41
1:M:271:VAL:O	1:M:274:PHE:N	2.54	0.41
1:N:470:HIS:O	1:N:473:HIS:N	2.53	0.41
1:N:488:ARG:HG2	1:N:491:PHE:CG	2.55	0.41
1:N:770:CYS:SG	1:N:781:VAL:HG13	2.60	0.41
1:O:426:TYR:O	1:O:429:LEU:N	2.53	0.41
1:O:428:GLU:OE1	1:O:429:LEU:HA	2.20	0.41
1:P:507:ALA:O	1:P:608:ASN:CB	2.61	0.41
1:P:557:LYS:HD3	1:P:1223:GLN:NE2	2.35	0.41
1:A:119:VAL:HG23	1:A:120:PHE:N	2.29	0.41
1:A:147:VAL:HG23	1:A:263:LEU:HG	2.03	0.41
1:A:770:CYS:SG	1:A:781:VAL:HG13	2.60	0.41
1:B:113:LEU:HA	1:B:113:LEU:HD12	1.83	0.41
1:B:250:ALA:C	1:B:251:APK:O	2.59	0.41
1:C:488:ARG:HG2	1:C:491:PHE:CG	2.55	0.41
1:C:587:ARG:CG	1:C:588:VAL:H	2.33	0.41
1:C:1026:PHE:HD1	1:C:1062:LYS:HG2	1.86	0.41
1:D:519:GLN:HG2	1:D:523:PHE:HE2	1.85	0.41
1:E:426:TYR:O	1:E:429:LEU:N	2.53	0.41
1:E:468:TYR:HE1	1:E:497:LEU:HB2	1.85	0.41
1:F:119:VAL:HG23	1:F:120:PHE:N	2.28	0.41
1:G:271:VAL:O	1:G:274:PHE:N	2.54	0.41
1:G:426:TYR:O	1:G:429:LEU:N	2.53	0.41
1:H:413:LYS:CD	1:H:422:ILE:O	2.61	0.41
1:H:426:TYR:O	1:H:429:LEU:N	2.53	0.41
1:H:905:VAL:HG13	1:H:906:ASP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:153:LEU:CD2	1:I:267:ARG:HD3	2.51	0.41
1:I:285:LEU:HA	1:I:285:LEU:HD23	1.74	0.41
1:I:616:LEU:HG	1:I:618:ASN:H	1.86	0.41
1:J:324:LEU:HA	1:J:324:LEU:HD12	1.61	0.41
1:J:488:ARG:HG2	1:J:491:PHE:CG	2.55	0.41
1:J:1177:TYR:CE2	1:K:916:LYS:HE2	2.49	0.41
1:K:153:LEU:CD2	1:K:267:ARG:HD3	2.51	0.41
1:K:428:GLU:OE1	1:K:429:LEU:N	2.54	0.41
1:K:1009:ILE:HG13	1:K:1011:PRO:HD3	2.03	0.41
1:K:1195:VAL:HG11	1:K:1241:PHE:CZ	2.54	0.41
1:L:1198:ASP:OD1	1:L:1199:ASP:N	2.50	0.41
1:M:451:LYS:CD	1:M:486:LEU:HD21	2.33	0.41
1:N:147:VAL:HG23	1:N:263:LEU:HG	2.03	0.41
1:N:557:LYS:HD3	1:N:1223:GLN:NE2	2.35	0.41
1:O:113:LEU:HD12	1:O:113:LEU:HA	1.83	0.41
1:O:124:ASN:C	1:O:124:ASN:OD1	2.58	0.41
1:O:768:ILE:HG23	1:O:769:ARG:N	2.36	0.41
1:O:829:LEU:HD21	1:O:874:LEU:HD22	2.03	0.41
1:P:336:ALA:C	1:P:338:TRP:N	2.74	0.41
1:P:426:TYR:O	1:P:429:LEU:N	2.53	0.41
1:P:428:GLU:OE1	1:P:429:LEU:HA	2.20	0.41
1:P:488:ARG:HG2	1:P:491:PHE:CG	2.55	0.41
1:A:462:TYR:CZ	1:A:494:PHE:CZ	3.03	0.41
1:A:519:GLN:HG2	1:A:523:PHE:HE2	1.84	0.41
1:B:59:LEU:HD21	1:B:63:TRP:CZ2	2.55	0.41
1:B:207:TRP:CZ2	1:B:224:ILE:HD11	2.56	0.41
1:B:312:LEU:HD23	1:B:312:LEU:C	2.40	0.41
1:B:361:GLU:O	1:B:365:TYR:N	2.53	0.41
1:B:560:ASP:O	1:B:564:ILE:HG12	2.21	0.41
1:B:829:LEU:HD21	1:B:874:LEU:HD22	2.03	0.41
1:B:905:VAL:HG13	1:B:906:ASP:H	1.85	0.41
1:B:1051:GLN:HG3	1:B:1053:PHE:CD2	2.55	0.41
1:B:1198:ASP:OD1	1:B:1199:ASP:N	2.50	0.41
1:C:59:LEU:HD21	1:C:63:TRP:CZ2	2.55	0.41
1:C:147:VAL:HG23	1:C:263:LEU:HG	2.03	0.41
1:C:207:TRP:CZ2	1:C:224:ILE:HD11	2.56	0.41
1:C:462:TYR:OH	1:C:494:PHE:CE1	2.72	0.41
1:D:153:LEU:CD2	1:D:267:ARG:HD3	2.51	0.41
1:D:428:GLU:OE1	1:D:429:LEU:N	2.54	0.41
1:D:603:ILE:HD11	1:D:635:VAL:HG11	2.03	0.41
1:D:616:LEU:HG	1:D:618:ASN:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:902:ILE:HD13	1:D:930:HIS:CE1	2.43	0.41
1:D:1198:ASP:OD1	1:D:1199:ASP:N	2.50	0.41
1:E:147:VAL:HG23	1:E:263:LEU:HG	2.03	0.41
1:E:157:LYS:H	1:E:157:LYS:HG2	1.68	0.41
1:E:447:TYR:OH	1:E:486:LEU:CD2	2.67	0.41
1:E:453:PHE:CE1	1:E:460:PRO:HB3	2.51	0.41
1:E:488:ARG:HG2	1:E:491:PHE:CG	2.55	0.41
1:E:724:GLY:HA3	1:E:730:ILE:HD12	2.01	0.41
1:E:915:TYR:CE2	1:E:916:LYS:HE3	2.54	0.41
1:E:1051:GLN:HG3	1:E:1053:PHE:CD2	2.56	0.41
1:F:153:LEU:CD2	1:F:267:ARG:HD3	2.51	0.41
1:F:324:LEU:HD12	1:F:324:LEU:HA	1.61	0.41
1:F:406:HIS:ND1	1:F:414:GLN:HG3	2.35	0.41
1:F:428:GLU:OE1	1:F:429:LEU:N	2.54	0.41
1:F:616:LEU:HG	1:F:618:ASN:H	1.86	0.41
1:F:1009:ILE:HG13	1:F:1011:PRO:HD3	2.03	0.41
1:G:187:ASN:CA	1:G:249:ASN:HD21	2.27	0.41
1:G:301:LEU:CD2	1:G:313:PRO:CG	2.87	0.41
1:G:336:ALA:C	1:G:338:TRP:N	2.74	0.41
1:G:428:GLU:OE1	1:G:429:LEU:N	2.54	0.41
1:G:428:GLU:OE1	1:G:429:LEU:HA	2.20	0.41
1:G:468:TYR:HE1	1:G:497:LEU:HB2	1.85	0.41
1:G:768:ILE:HG23	1:G:769:ARG:N	2.36	0.41
1:H:428:GLU:OE1	1:H:429:LEU:HA	2.20	0.41
1:H:428:GLU:OE1	1:H:429:LEU:N	2.54	0.41
1:H:511:SER:HA	1:H:514:ILE:H	1.86	0.41
1:H:768:ILE:HG23	1:H:769:ARG:N	2.36	0.41
1:H:829:LEU:HD21	1:H:874:LEU:HD22	2.03	0.41
1:H:1051:GLN:HG3	1:H:1053:PHE:CD2	2.55	0.41
1:H:1195:VAL:HG11	1:H:1241:PHE:CZ	2.54	0.41
1:I:251:APK:O	1:I:253:TRP:HB3	2.20	0.41
1:I:768:ILE:HG23	1:I:769:ARG:N	2.36	0.41
1:I:1051:GLN:HG3	1:I:1053:PHE:CD2	2.55	0.41
1:J:147:VAL:HG23	1:J:263:LEU:HG	2.03	0.41
1:J:222:HIS:CG	1:K:198:LYS:HZ1	2.39	0.41
1:J:428:GLU:C	1:J:430:LYS:N	2.75	0.41
1:J:447:TYR:OH	1:J:486:LEU:CD2	2.67	0.41
1:J:770:CYS:SG	1:J:781:VAL:HG13	2.60	0.41
1:J:915:TYR:CE2	1:J:916:LYS:HE3	2.53	0.41
1:J:1051:GLN:HG3	1:J:1053:PHE:CD2	2.55	0.41
1:K:89:MET:O	1:K:92:ILE:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:113:LEU:HD12	1:K:113:LEU:HA	1.83	0.41
1:K:324:LEU:HD12	1:K:324:LEU:HA	1.61	0.41
1:K:346:CYS:SG	1:K:350:THR:OG1	2.76	0.41
1:K:549:ILE:HD12	1:K:550:GLU:H	1.85	0.41
1:K:616:LEU:HG	1:K:618:ASN:H	1.86	0.41
1:K:1198:ASP:OD1	1:K:1199:ASP:N	2.50	0.41
1:L:147:VAL:HG23	1:L:263:LEU:HG	2.03	0.41
1:L:207:TRP:CZ2	1:L:224:ILE:HD11	2.56	0.41
1:L:312:LEU:CD2	1:L:313:PRO:CD	2.86	0.41
1:L:428:GLU:OE1	1:L:429:LEU:N	2.54	0.41
1:L:428:GLU:C	1:L:430:LYS:N	2.74	0.41
1:L:587:ARG:CG	1:L:588:VAL:H	2.33	0.41
1:M:207:TRP:CZ2	1:M:224:ILE:HD11	2.56	0.41
1:M:250:ALA:C	1:M:251:APK:O	2.59	0.41
1:M:285:LEU:HD23	1:M:285:LEU:HA	1.74	0.41
1:M:361:GLU:O	1:M:365:TYR:N	2.53	0.41
1:M:560:ASP:O	1:M:564:ILE:HG12	2.21	0.41
1:M:829:LEU:HD21	1:M:874:LEU:HD22	2.03	0.41
1:M:905:VAL:HG13	1:M:906:ASP:H	1.85	0.41
1:M:1051:GLN:HG3	1:M:1053:PHE:CD2	2.56	0.41
1:M:1127:ASP:OD1	1:M:1128:ILE:N	2.50	0.41
1:M:1198:ASP:OD1	1:M:1199:ASP:N	2.50	0.41
1:N:519:GLN:HG2	1:N:523:PHE:HE2	1.84	0.41
1:N:560:ASP:O	1:N:564:ILE:HG12	2.21	0.41
1:N:584:PHE:HB3	1:N:585:ASP:H	1.61	0.41
1:N:603:ILE:HD11	1:N:635:VAL:HG11	2.03	0.41
1:N:833:LYS:HB3	1:N:834:TYR:H	1.63	0.41
1:O:428:GLU:OE1	1:O:429:LEU:N	2.54	0.41
1:O:905:VAL:HG13	1:O:906:ASP:H	1.85	0.41
1:P:122:LYS:O	1:P:303:LYS:NZ	2.38	0.41
1:P:271:VAL:O	1:P:274:PHE:N	2.54	0.41
1:P:301:LEU:CD2	1:P:313:PRO:CG	2.87	0.41
1:P:428:GLU:OE1	1:P:429:LEU:N	2.54	0.41
1:P:468:TYR:HE1	1:P:497:LEU:HB2	1.85	0.41
1:P:768:ILE:HG23	1:P:769:ARG:N	2.36	0.41
1:P:1026:PHE:HD1	1:P:1062:LYS:HG2	1.86	0.41
1:A:271:VAL:O	1:A:274:PHE:N	2.54	0.41
1:A:560:ASP:O	1:A:564:ILE:HG12	2.21	0.41
1:B:428:GLU:C	1:B:430:LYS:N	2.74	0.41
1:B:781:VAL:HG11	1:B:791:TRP:HZ3	1.87	0.41
1:C:361:GLU:O	1:C:365:TYR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:428:GLU:OE1	1:C:429:LEU:N	2.54	0.41
1:C:428:GLU:C	1:C:430:LYS:N	2.75	0.41
1:D:331:ILE:HD12	1:D:338:TRP:H	1.85	0.41
1:D:346:CYS:SG	1:D:350:THR:OG1	2.76	0.41
1:D:549:ILE:HD12	1:D:550:GLU:H	1.85	0.41
1:D:717:PHE:HB2	1:D:771:PHE:HD1	1.86	0.41
1:D:769:ARG:NH1	1:D:771:PHE:HB2	2.35	0.41
1:E:271:VAL:O	1:E:274:PHE:N	2.54	0.41
1:E:336:ALA:C	1:E:338:TRP:N	2.74	0.41
1:E:428:GLU:C	1:E:430:LYS:N	2.74	0.41
1:G:428:GLU:C	1:G:430:LYS:N	2.74	0.41
1:G:545:PHE:CA	1:G:548:LYS:HB2	2.45	0.41
1:G:1026:PHE:HD1	1:G:1062:LYS:HG2	1.86	0.41
1:I:428:GLU:OE1	1:I:429:LEU:N	2.54	0.41
1:I:447:TYR:OH	1:I:486:LEU:CD2	2.67	0.41
1:I:967:PRO:HD2	1:I:976:ASP:HB2	2.03	0.41
1:J:271:VAL:O	1:J:274:PHE:N	2.54	0.41
1:J:336:ALA:C	1:J:338:TRP:N	2.74	0.41
1:J:389:ILE:CD1	1:J:446:HIS:HE2	2.14	0.41
1:J:724:GLY:HA3	1:J:730:ILE:HD12	2.01	0.41
1:J:1198:ASP:OD1	1:J:1199:ASP:N	2.50	0.41
1:K:545:PHE:CA	1:K:548:LYS:HB2	2.45	0.41
1:K:603:ILE:HD11	1:K:635:VAL:HG11	2.03	0.41
1:M:59:LEU:HD21	1:M:63:TRP:CZ2	2.55	0.41
1:M:312:LEU:HD23	1:M:312:LEU:C	2.41	0.41
1:M:336:ALA:C	1:M:338:TRP:N	2.74	0.41
1:M:781:VAL:HG11	1:M:791:TRP:HZ3	1.86	0.41
1:N:361:GLU:O	1:N:365:TYR:N	2.53	0.41
1:N:1139:ASP:O	1:N:1140:SER:OG	2.35	0.41
1:P:545:PHE:CA	1:P:548:LYS:HB2	2.45	0.41
1:A:361:GLU:O	1:A:365:TYR:N	2.53	0.40
1:A:1139:ASP:O	1:A:1140:SER:OG	2.35	0.40
1:B:336:ALA:C	1:B:338:TRP:N	2.74	0.40
1:B:450:PRO:O	1:B:453:PHE:N	2.54	0.40
1:B:1127:ASP:OD1	1:B:1128:ILE:N	2.50	0.40
1:C:28:ASP:HB2	1:C:31:ASP:CG	2.42	0.40
1:C:122:LYS:HG3	1:D:276:SER:OG	2.21	0.40
1:D:89:MET:O	1:D:92:ILE:HG22	2.22	0.40
1:D:450:PRO:O	1:D:453:PHE:N	2.55	0.40
1:E:770:CYS:SG	1:E:781:VAL:HG13	2.60	0.40
1:E:967:PRO:HD2	1:E:976:ASP:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:28:ASP:HB2	1:F:31:ASP:CG	2.42	0.40
1:F:42:LYS:HG3	1:F:46:ASP:OD2	2.22	0.40
1:F:336:ALA:C	1:F:338:TRP:N	2.74	0.40
1:F:560:ASP:O	1:F:564:ILE:HG12	2.21	0.40
1:F:829:LEU:HD21	1:F:874:LEU:HD22	2.03	0.40
1:G:560:ASP:O	1:G:564:ILE:HG12	2.21	0.40
1:G:916:LYS:CE	1:H:1177:TYR:HE2	2.34	0.40
1:I:146:ASN:HB2	1:I:280:THR:CG2	2.51	0.40
1:I:560:ASP:O	1:I:564:ILE:HG12	2.21	0.40
1:I:833:LYS:HB3	1:I:834:TYR:H	1.63	0.40
1:J:102:MET:O	1:J:105:MET:N	2.46	0.40
1:J:967:PRO:HD2	1:J:976:ASP:HB2	2.04	0.40
1:K:119:VAL:HG23	1:K:120:PHE:N	2.28	0.40
1:K:331:ILE:HD12	1:K:338:TRP:H	1.86	0.40
1:K:769:ARG:NH1	1:K:771:PHE:HB2	2.35	0.40
1:L:28:ASP:HB2	1:L:31:ASP:CG	2.42	0.40
1:L:42:LYS:HG3	1:L:46:ASP:OD2	2.22	0.40
1:L:59:LEU:HD21	1:L:63:TRP:CZ2	2.55	0.40
1:L:301:LEU:CD2	1:L:313:PRO:CG	2.87	0.40
1:L:361:GLU:O	1:L:365:TYR:N	2.53	0.40
1:L:450:PRO:O	1:L:453:PHE:N	2.54	0.40
1:L:462:TYR:OH	1:L:494:PHE:CE1	2.73	0.40
1:L:545:PHE:CE1	1:L:565:ALA:HA	2.55	0.40
1:M:428:GLU:C	1:M:430:LYS:N	2.74	0.40
1:N:271:VAL:O	1:N:274:PHE:N	2.54	0.40
1:N:462:TYR:CZ	1:N:494:PHE:CZ	3.03	0.40
1:N:717:PHE:HB2	1:N:771:PHE:HD1	1.86	0.40
1:O:352:ILE:O	1:O:356:SER:OG	2.29	0.40
1:O:511:SER:HA	1:O:514:ILE:H	1.87	0.40
1:O:1051:GLN:HG3	1:O:1053:PHE:CD2	2.56	0.40
1:P:829:LEU:HD21	1:P:874:LEU:HD22	2.03	0.40
1:A:207:TRP:CZ2	1:A:224:ILE:HD11	2.56	0.40
1:B:28:ASP:HB2	1:B:31:ASP:CG	2.42	0.40
1:B:468:TYR:HE1	1:B:497:LEU:HB2	1.85	0.40
1:C:42:LYS:HG3	1:C:46:ASP:OD2	2.22	0.40
1:C:450:PRO:O	1:C:453:PHE:N	2.54	0.40
1:C:1198:ASP:OD1	1:C:1199:ASP:N	2.50	0.40
1:D:28:ASP:HB2	1:D:31:ASP:CG	2.42	0.40
1:D:122:LYS:HG3	1:E:276:SER:HB2	2.04	0.40
1:D:207:TRP:CZ2	1:D:224:ILE:HD11	2.56	0.40
1:D:271:VAL:O	1:D:274:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:545:PHE:CA	1:D:548:LYS:HB2	2.45	0.40
1:E:102:MET:O	1:E:105:MET:N	2.46	0.40
1:E:389:ILE:CD1	1:E:446:HIS:HE2	2.14	0.40
1:F:89:MET:O	1:F:92:ILE:HG22	2.21	0.40
1:F:207:TRP:CZ2	1:F:224:ILE:HD11	2.56	0.40
1:F:428:GLU:C	1:F:430:LYS:N	2.74	0.40
1:F:447:TYR:OH	1:F:486:LEU:CD2	2.67	0.40
1:F:1198:ASP:OD1	1:F:1199:ASP:N	2.50	0.40
1:G:42:LYS:HG3	1:G:46:ASP:OD2	2.22	0.40
1:G:829:LEU:HD21	1:G:874:LEU:HD22	2.03	0.40
1:H:337:THR:HG1	1:H:340:ASN:N	2.19	0.40
1:H:560:ASP:O	1:H:564:ILE:HG12	2.21	0.40
1:H:781:VAL:HG11	1:H:791:TRP:HZ3	1.86	0.40
1:I:207:TRP:CZ2	1:I:224:ILE:HD11	2.56	0.40
1:I:829:LEU:HD21	1:I:874:LEU:HD22	2.03	0.40
1:J:428:GLU:OE1	1:J:429:LEU:N	2.54	0.40
1:K:207:TRP:CZ2	1:K:224:ILE:HD11	2.56	0.40
1:K:271:VAL:O	1:K:274:PHE:N	2.54	0.40
1:K:450:PRO:O	1:K:453:PHE:N	2.55	0.40
1:L:153:LEU:CD2	1:L:267:ARG:HD3	2.51	0.40
1:L:305:LEU:HD23	1:L:305:LEU:HA	1.84	0.40
1:L:413:LYS:CD	1:L:422:ILE:O	2.61	0.40
1:L:468:TYR:HE1	1:L:497:LEU:HB2	1.85	0.40
1:M:28:ASP:HB2	1:M:31:ASP:CG	2.42	0.40
1:M:450:PRO:O	1:M:453:PHE:N	2.55	0.40
1:M:468:TYR:HE1	1:M:497:LEU:HB2	1.85	0.40
1:N:146:ASN:HB2	1:N:280:THR:CG2	2.51	0.40
1:N:207:TRP:CZ2	1:N:224:ILE:HD11	2.56	0.40
1:O:560:ASP:O	1:O:564:ILE:HG12	2.21	0.40
1:O:1195:VAL:HG11	1:O:1241:PHE:CZ	2.54	0.40
1:P:428:GLU:C	1:P:430:LYS:N	2.74	0.40
1:P:560:ASP:HA	1:P:592:ASN:ND2	2.29	0.40
1:P:560:ASP:O	1:P:564:ILE:HG12	2.21	0.40
1:P:717:PHE:HB2	1:P:771:PHE:HD1	1.86	0.40
1:A:428:GLU:OE1	1:A:429:LEU:N	2.54	0.40
1:A:468:TYR:HE1	1:A:497:LEU:HB2	1.85	0.40
1:A:717:PHE:HB2	1:A:771:PHE:HD1	1.86	0.40
1:B:89:MET:O	1:B:92:ILE:HG22	2.21	0.40
1:C:146:ASN:HB2	1:C:280:THR:CG2	2.51	0.40
1:C:967:PRO:HD2	1:C:976:ASP:HB2	2.03	0.40
1:C:1247:LEU:HD12	1:C:1263:MET:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:LYS:HG3	1:D:46:ASP:OD2	2.22	0.40
1:D:250:ALA:C	1:D:251:APK:O	2.59	0.40
1:D:428:GLU:C	1:D:430:LYS:N	2.74	0.40
1:D:781:VAL:HG11	1:D:791:TRP:HZ3	1.86	0.40
1:D:967:PRO:HD2	1:D:976:ASP:HB2	2.04	0.40
1:E:28:ASP:HB2	1:E:31:ASP:CG	2.42	0.40
1:E:146:ASN:HB2	1:E:280:THR:CG2	2.51	0.40
1:E:428:GLU:OE1	1:E:429:LEU:N	2.54	0.40
1:E:616:LEU:HG	1:E:618:ASN:H	1.86	0.40
1:F:146:ASN:HB2	1:F:280:THR:CG2	2.51	0.40
1:F:462:TYR:CZ	1:F:494:PHE:CZ	3.03	0.40
1:F:511:SER:HA	1:F:514:ILE:H	1.87	0.40
1:F:553:LEU:HD23	1:F:553:LEU:HA	1.90	0.40
1:F:967:PRO:HD2	1:F:976:ASP:HB2	2.04	0.40
1:G:28:ASP:HB2	1:G:31:ASP:CG	2.42	0.40
1:G:549:ILE:HD12	1:G:550:GLU:H	1.85	0.40
1:G:560:ASP:HA	1:G:592:ASN:ND2	2.29	0.40
1:G:717:PHE:HB2	1:G:771:PHE:HD1	1.86	0.40
1:G:768:ILE:HG23	1:G:769:ARG:H	1.87	0.40
1:G:994:HIS:CE1	1:G:1023:ILE:HG23	2.56	0.40
1:H:89:MET:O	1:H:92:ILE:HG22	2.22	0.40
1:H:147:VAL:HG23	1:H:263:LEU:HG	2.03	0.40
1:H:458:LEU:HD23	1:H:459:ILE:N	2.27	0.40
1:I:28:ASP:HB2	1:I:31:ASP:CG	2.42	0.40
1:I:42:LYS:HG3	1:I:46:ASP:OD2	2.22	0.40
1:I:428:GLU:C	1:I:430:LYS:N	2.74	0.40
1:J:146:ASN:HB2	1:J:280:THR:CG2	2.51	0.40
1:J:519:GLN:HG2	1:J:523:PHE:HE2	1.84	0.40
1:J:560:ASP:HA	1:J:592:ASN:ND2	2.29	0.40
1:J:616:LEU:HG	1:J:618:ASN:H	1.86	0.40
1:K:28:ASP:HB2	1:K:31:ASP:CG	2.42	0.40
1:K:42:LYS:HG3	1:K:46:ASP:OD2	2.21	0.40
1:K:250:ALA:C	1:K:251:APK:O	2.59	0.40
1:K:399:MET:HG3	1:L:335:LEU:CD2	2.52	0.40
1:K:428:GLU:C	1:K:430:LYS:N	2.74	0.40
1:K:656:ARG:HG2	1:K:657:MET:N	2.37	0.40
1:K:717:PHE:HB2	1:K:771:PHE:HD1	1.86	0.40
1:K:967:PRO:HD2	1:K:976:ASP:HB2	2.04	0.40
1:L:146:ASN:HB2	1:L:280:THR:CG2	2.51	0.40
1:L:462:TYR:OH	1:L:494:PHE:CZ	2.66	0.40
1:L:1009:ILE:HG13	1:L:1011:PRO:HD3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1247:LEU:HD12	1:L:1263:MET:HG2	2.04	0.40
1:M:89:MET:O	1:M:92:ILE:HG22	2.22	0.40
1:M:244:LEU:HD21	1:M:256:PHE:CD2	2.51	0.40
1:M:511:SER:HA	1:M:514:ILE:H	1.86	0.40
1:M:717:PHE:HB2	1:M:771:PHE:HD1	1.86	0.40
1:N:113:LEU:HA	1:N:113:LEU:HD12	1.84	0.40
1:O:89:MET:O	1:O:92:ILE:HG22	2.22	0.40
1:O:146:ASN:HB2	1:O:280:THR:CG2	2.51	0.40
1:O:147:VAL:HG23	1:O:263:LEU:HG	2.03	0.40
1:O:312:LEU:HD23	1:O:312:LEU:C	2.40	0.40
1:O:458:LEU:HD23	1:O:459:ILE:N	2.27	0.40
1:O:519:GLN:HG2	1:O:523:PHE:HE2	1.84	0.40
1:O:781:VAL:HG11	1:O:791:TRP:HZ3	1.86	0.40
1:O:833:LYS:HB3	1:O:834:TYR:H	1.63	0.40
1:P:42:LYS:HG3	1:P:46:ASP:OD2	2.22	0.40
1:P:462:TYR:OH	1:P:494:PHE:CZ	2.66	0.40
1:P:549:ILE:HD12	1:P:550:GLU:H	1.85	0.40
1:P:656:ARG:HG2	1:P:657:MET:N	2.37	0.40
1:P:994:HIS:CE1	1:P:1023:ILE:HG23	2.56	0.40
1:A:28:ASP:HB2	1:A:31:ASP:CG	2.42	0.40
1:A:447:TYR:OH	1:A:486:LEU:CD2	2.67	0.40
1:A:464:ASP:O	1:A:468:TYR:CD2	2.75	0.40
1:A:1009:ILE:HG13	1:A:1011:PRO:HD3	2.03	0.40
1:B:244:LEU:HD21	1:B:256:PHE:CD2	2.51	0.40
1:B:616:LEU:HG	1:B:618:ASN:H	1.86	0.40
1:B:717:PHE:HB2	1:B:771:PHE:HD1	1.86	0.40
1:B:967:PRO:HD2	1:B:976:ASP:HB2	2.04	0.40
1:B:1247:LEU:HD12	1:B:1263:MET:HG2	2.04	0.40
1:C:153:LEU:CD2	1:C:267:ARG:HD3	2.51	0.40
1:C:468:TYR:HE1	1:C:497:LEU:HB2	1.85	0.40
1:C:545:PHE:CE1	1:C:565:ALA:HA	2.55	0.40
1:D:119:VAL:HG23	1:D:120:PHE:N	2.29	0.40
1:D:656:ARG:HG2	1:D:657:MET:N	2.37	0.40
1:E:905:VAL:HG13	1:E:906:ASP:H	1.85	0.40
1:F:147:VAL:HG23	1:F:263:LEU:HG	2.03	0.40
1:F:1051:GLN:HG3	1:F:1053:PHE:CD2	2.55	0.40
1:G:146:ASN:HB2	1:G:280:THR:CG2	2.51	0.40
1:G:207:TRP:CZ2	1:G:224:ILE:HD11	2.56	0.40
1:G:331:ILE:HD12	1:G:338:TRP:H	1.85	0.40
1:G:603:ILE:HD11	1:G:635:VAL:HG11	2.03	0.40
1:G:656:ARG:HG2	1:G:657:MET:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:833:LYS:HB3	1:G:834:TYR:H	1.63	0.40
1:G:914:VAL:O	1:G:915:TYR:C	2.60	0.40
1:G:1247:LEU:HD12	1:G:1263:MET:HG2	2.04	0.40
1:H:28:ASP:HB2	1:H:31:ASP:CG	2.42	0.40
1:H:146:ASN:HB2	1:H:280:THR:CG2	2.51	0.40
1:H:428:GLU:C	1:H:430:LYS:N	2.74	0.40
1:H:464:ASP:O	1:H:468:TYR:CD2	2.75	0.40
1:H:519:GLN:HG2	1:H:523:PHE:HE2	1.84	0.40
1:H:822:ARG:HH12	1:H:838:ARG:NH2	2.20	0.40
1:I:222:HIS:CG	1:J:198:LYS:HZ1	2.39	0.40
1:I:336:ALA:C	1:I:338:TRP:N	2.74	0.40
1:I:361:GLU:CB	1:I:364:GLU:HB3	2.52	0.40
1:I:511:SER:HA	1:I:514:ILE:H	1.86	0.40
1:I:555:CYS:HA	1:I:558:TYR:HB2	2.04	0.40
1:J:28:ASP:HB2	1:J:31:ASP:CG	2.42	0.40
1:L:271:VAL:O	1:L:274:PHE:N	2.54	0.40
1:L:967:PRO:HD2	1:L:976:ASP:HB2	2.04	0.40
1:M:42:LYS:HG3	1:M:46:ASP:OD2	2.22	0.40
1:M:361:GLU:CB	1:M:364:GLU:HB3	2.52	0.40
1:M:967:PRO:HD2	1:M:976:ASP:HB2	2.04	0.40
1:N:428:GLU:OE1	1:N:429:LEU:N	2.54	0.40
1:N:1009:ILE:HG13	1:N:1011:PRO:HD3	2.03	0.40
1:N:1192:SER:OG	1:N:1208:GLU:OE2	2.28	0.40
1:O:28:ASP:HB2	1:O:31:ASP:CG	2.42	0.40
1:O:42:LYS:HG3	1:O:46:ASP:OD2	2.22	0.40
1:O:337:THR:HG1	1:O:340:ASN:N	2.20	0.40
1:O:464:ASP:O	1:O:468:TYR:CD2	2.75	0.40
1:O:633:THR:HG22	1:O:643:TYR:HA	1.97	0.40
1:O:1247:LEU:HD12	1:O:1263:MET:HG2	2.04	0.40
1:P:28:ASP:HB2	1:P:31:ASP:CG	2.42	0.40
1:P:146:ASN:HB2	1:P:280:THR:CG2	2.51	0.40
1:P:207:TRP:CZ2	1:P:224:ILE:HD11	2.56	0.40
1:P:768:ILE:HG23	1:P:769:ARG:H	1.87	0.40
1:P:822:ARG:HH12	1:P:838:ARG:NH2	2.20	0.40
1:P:1247:LEU:HD12	1:P:1263:MET:HG2	2.04	0.40
1:A:146:ASN:HB2	1:A:280:THR:CG2	2.51	0.40
1:B:42:LYS:HG3	1:B:46:ASP:OD2	2.22	0.40
1:B:337:THR:HG1	1:B:340:ASN:N	2.20	0.40
1:B:361:GLU:CB	1:B:364:GLU:HB3	2.52	0.40
1:B:549:ILE:HD12	1:B:550:GLU:H	1.85	0.40
1:C:271:VAL:O	1:C:274:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:470:HIS:O	1:C:473:HIS:N	2.53	0.40
1:C:1009:ILE:HG13	1:C:1011:PRO:HD3	2.03	0.40
1:D:557:LYS:HD3	1:D:1223:GLN:NE2	2.35	0.40
1:E:207:TRP:CZ2	1:E:224:ILE:HD11	2.56	0.40
1:E:515:LEU:O	1:E:516:ASN:OD1	2.40	0.40
1:E:560:ASP:O	1:E:564:ILE:HG12	2.21	0.40
1:E:822:ARG:HH12	1:E:838:ARG:NH2	2.20	0.40
1:F:361:GLU:CB	1:F:364:GLU:HB3	2.52	0.40
1:F:555:CYS:HA	1:F:558:TYR:HB2	2.04	0.40
1:F:822:ARG:HH12	1:F:838:ARG:NH2	2.20	0.40
1:G:337:THR:HG1	1:G:340:ASN:N	2.20	0.40
1:G:822:ARG:HH12	1:G:838:ARG:NH2	2.20	0.40
1:G:996:ILE:HD11	1:G:1020:ILE:HG23	2.04	0.40
1:H:42:LYS:HG3	1:H:46:ASP:OD2	2.22	0.40
1:H:312:LEU:HD23	1:H:312:LEU:C	2.41	0.40
1:H:951:VAL:HB	1:H:958:SER:HB3	2.04	0.40
1:I:89:MET:O	1:I:92:ILE:HG22	2.22	0.40
1:I:147:VAL:HG23	1:I:263:LEU:HG	2.03	0.40
1:I:560:ASP:HA	1:I:592:ASN:ND2	2.29	0.40
1:I:656:ARG:HG2	1:I:657:MET:N	2.37	0.40
1:J:515:LEU:O	1:J:516:ASN:OD1	2.40	0.40
1:K:781:VAL:HG11	1:K:791:TRP:HZ3	1.87	0.40
1:L:616:LEU:HG	1:L:618:ASN:H	1.86	0.40
1:M:337:THR:HG1	1:M:340:ASN:N	2.20	0.40
1:M:1247:LEU:HD12	1:M:1263:MET:HG2	2.04	0.40
1:N:28:ASP:HB2	1:N:31:ASP:CG	2.42	0.40
1:N:447:TYR:OH	1:N:486:LEU:CD2	2.67	0.40
1:N:464:ASP:O	1:N:468:TYR:CD2	2.75	0.40
1:O:428:GLU:C	1:O:430:LYS:N	2.74	0.40
1:O:951:VAL:HB	1:O:958:SER:HB3	2.04	0.40
1:P:125:VAL:O	1:P:125:VAL:HG23	2.22	0.40
1:P:331:ILE:HD12	1:P:338:TRP:H	1.85	0.40
1:P:603:ILE:HD11	1:P:635:VAL:HG11	2.03	0.40
1:P:914:VAL:O	1:P:915:TYR:C	2.60	0.40
1:P:996:ILE:HD11	1:P:1020:ILE:HG23	2.03	0.40
1:P:1009:ILE:HG13	1:P:1011:PRO:HD3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	B	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	C	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	D	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	E	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	F	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	G	1224/1440 (85%)	989 (81%)	202 (16%)	33 (3%)	4	26
1	H	1224/1440 (85%)	988 (81%)	204 (17%)	32 (3%)	4	26
1	I	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	J	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	K	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	L	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	M	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	N	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
1	O	1224/1440 (85%)	988 (81%)	203 (17%)	33 (3%)	4	26
1	P	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	4	26
All	All	19584/23040 (85%)	15822 (81%)	3248 (17%)	514 (3%)	6	26

All (514) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	252	ALA
1	A	315	GLU
1	A	517	THR
1	A	638	GLU
1	A	760	VAL
1	A	914	VAL

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Mol	Chain	Res	Type
1	B	252	ALA
1	B	315	GLU
1	B	517	THR
1	B	638	GLU
1	B	760	VAL
1	B	914	VAL
1	C	252	ALA
1	C	315	GLU
1	C	517	THR
1	C	638	GLU
1	C	760	VAL
1	C	914	VAL
1	D	252	ALA
1	D	315	GLU
1	D	517	THR
1	D	638	GLU
1	D	760	VAL
1	D	914	VAL
1	E	252	ALA
1	E	315	GLU
1	E	517	THR
1	E	638	GLU
1	E	760	VAL
1	E	914	VAL
1	F	252	ALA
1	F	315	GLU
1	F	517	THR
1	F	638	GLU
1	F	760	VAL
1	F	914	VAL
1	G	252	ALA
1	G	315	GLU
1	G	517	THR
1	G	638	GLU
1	G	760	VAL
1	G	914	VAL
1	H	252	ALA
1	H	315	GLU
1	H	517	THR
1	H	638	GLU
1	H	760	VAL
1	H	914	VAL

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Mol	Chain	Res	Type
1	I	252	ALA
1	I	315	GLU
1	I	517	THR
1	I	638	GLU
1	I	760	VAL
1	I	914	VAL
1	J	252	ALA
1	J	315	GLU
1	J	517	THR
1	J	638	GLU
1	J	760	VAL
1	J	914	VAL
1	K	252	ALA
1	K	315	GLU
1	K	517	THR
1	K	638	GLU
1	K	760	VAL
1	K	914	VAL
1	L	252	ALA
1	L	315	GLU
1	L	517	THR
1	L	638	GLU
1	L	760	VAL
1	L	914	VAL
1	M	252	ALA
1	M	315	GLU
1	M	517	THR
1	M	638	GLU
1	M	760	VAL
1	M	914	VAL
1	N	252	ALA
1	N	315	GLU
1	N	517	THR
1	N	638	GLU
1	N	760	VAL
1	N	914	VAL
1	O	252	ALA
1	O	315	GLU
1	O	517	THR
1	O	638	GLU
1	O	760	VAL
1	O	914	VAL

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Mol	Chain	Res	Type
1	P	252	ALA
1	P	315	GLU
1	P	517	THR
1	P	638	GLU
1	P	760	VAL
1	P	914	VAL
1	A	119	VAL
1	A	253	TRP
1	A	318	THR
1	A	410	LEU
1	A	511	SER
1	A	916	LYS
1	B	119	VAL
1	B	253	TRP
1	B	318	THR
1	B	511	SER
1	B	916	LYS
1	C	119	VAL
1	C	253	TRP
1	C	318	THR
1	C	410	LEU
1	C	511	SER
1	C	916	LYS
1	D	119	VAL
1	D	253	TRP
1	D	318	THR
1	D	511	SER
1	D	916	LYS
1	E	119	VAL
1	E	253	TRP
1	E	318	THR
1	E	410	LEU
1	E	511	SER
1	E	916	LYS
1	F	119	VAL
1	F	253	TRP
1	F	318	THR
1	F	511	SER
1	F	916	LYS
1	G	119	VAL
1	G	253	TRP
1	G	318	THR

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Mol	Chain	Res	Type
1	G	410	LEU
1	G	511	SER
1	G	916	LYS
1	H	119	VAL
1	H	253	TRP
1	H	318	THR
1	H	410	LEU
1	H	511	SER
1	H	916	LYS
1	I	119	VAL
1	I	253	TRP
1	I	318	THR
1	I	511	SER
1	I	916	LYS
1	J	119	VAL
1	J	253	TRP
1	J	318	THR
1	J	511	SER
1	J	916	LYS
1	K	119	VAL
1	K	253	TRP
1	K	318	THR
1	K	511	SER
1	K	916	LYS
1	L	119	VAL
1	L	253	TRP
1	L	318	THR
1	L	410	LEU
1	L	511	SER
1	L	916	LYS
1	M	119	VAL
1	M	253	TRP
1	M	318	THR
1	M	410	LEU
1	M	511	SER
1	M	916	LYS
1	N	119	VAL
1	N	253	TRP
1	N	318	THR
1	N	511	SER
1	N	916	LYS
1	O	119	VAL

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Mol	Chain	Res	Type
1	O	253	TRP
1	O	318	THR
1	O	410	LEU
1	O	511	SER
1	O	916	LYS
1	P	119	VAL
1	P	253	TRP
1	P	318	THR
1	P	410	LEU
1	P	511	SER
1	P	916	LYS
1	A	341	TRP
1	A	430	LYS
1	A	902	ILE
1	A	1031	ILE
1	A	1169	ILE
1	B	341	TRP
1	B	410	LEU
1	B	430	LYS
1	B	902	ILE
1	B	1031	ILE
1	B	1169	ILE
1	C	341	TRP
1	C	430	LYS
1	C	902	ILE
1	C	1031	ILE
1	C	1169	ILE
1	D	341	TRP
1	D	410	LEU
1	D	430	LYS
1	D	902	ILE
1	D	1031	ILE
1	D	1169	ILE
1	E	341	TRP
1	E	430	LYS
1	E	902	ILE
1	E	1031	ILE
1	E	1169	ILE
1	F	341	TRP
1	F	410	LEU
1	F	430	LYS
1	F	902	ILE

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Mol	Chain	Res	Type
1	F	1031	ILE
1	F	1169	ILE
1	G	341	TRP
1	G	430	LYS
1	G	902	ILE
1	G	1031	ILE
1	G	1169	ILE
1	H	341	TRP
1	H	430	LYS
1	H	902	ILE
1	H	1031	ILE
1	H	1169	ILE
1	I	341	TRP
1	I	410	LEU
1	I	430	LYS
1	I	902	ILE
1	I	1031	ILE
1	I	1169	ILE
1	J	341	TRP
1	J	410	LEU
1	J	430	LYS
1	J	902	ILE
1	J	1031	ILE
1	J	1169	ILE
1	K	341	TRP
1	K	410	LEU
1	K	430	LYS
1	K	902	ILE
1	K	1031	ILE
1	K	1169	ILE
1	L	341	TRP
1	L	430	LYS
1	L	902	ILE
1	L	1031	ILE
1	L	1169	ILE
1	M	341	TRP
1	M	430	LYS
1	M	902	ILE
1	M	1031	ILE
1	M	1169	ILE
1	N	341	TRP
1	N	410	LEU

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Mol	Chain	Res	Type
1	N	430	LYS
1	N	902	ILE
1	N	1031	ILE
1	N	1169	ILE
1	O	341	TRP
1	O	430	LYS
1	O	902	ILE
1	O	1031	ILE
1	O	1169	ILE
1	P	341	TRP
1	P	430	LYS
1	P	902	ILE
1	P	1031	ILE
1	P	1169	ILE
1	A	415	PRO
1	A	432	LYS
1	A	439	LEU
1	A	512	GLY
1	A	518	LEU
1	A	706	ILE
1	A	915	TYR
1	B	415	PRO
1	B	432	LYS
1	B	439	LEU
1	B	512	GLY
1	B	518	LEU
1	B	706	ILE
1	B	915	TYR
1	C	415	PRO
1	C	432	LYS
1	C	439	LEU
1	C	512	GLY
1	C	518	LEU
1	C	706	ILE
1	C	915	TYR
1	D	415	PRO
1	D	432	LYS
1	D	439	LEU
1	D	512	GLY
1	D	518	LEU
1	D	706	ILE
1	D	915	TYR

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Mol	Chain	Res	Type
1	E	415	PRO
1	E	432	LYS
1	E	439	LEU
1	E	512	GLY
1	E	518	LEU
1	E	706	ILE
1	E	915	TYR
1	F	415	PRO
1	F	432	LYS
1	F	439	LEU
1	F	512	GLY
1	F	518	LEU
1	F	706	ILE
1	F	915	TYR
1	G	415	PRO
1	G	432	LYS
1	G	439	LEU
1	G	512	GLY
1	G	518	LEU
1	G	706	ILE
1	G	915	TYR
1	H	415	PRO
1	H	432	LYS
1	H	439	LEU
1	H	512	GLY
1	H	518	LEU
1	H	706	ILE
1	H	915	TYR
1	I	415	PRO
1	I	432	LYS
1	I	439	LEU
1	I	512	GLY
1	I	518	LEU
1	I	706	ILE
1	I	915	TYR
1	J	415	PRO
1	J	432	LYS
1	J	439	LEU
1	J	512	GLY
1	J	518	LEU
1	J	706	ILE
1	J	915	TYR

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Mol	Chain	Res	Type
1	K	415	PRO
1	K	432	LYS
1	K	439	LEU
1	K	512	GLY
1	K	518	LEU
1	K	706	ILE
1	K	915	TYR
1	L	415	PRO
1	L	432	LYS
1	L	439	LEU
1	L	512	GLY
1	L	518	LEU
1	L	706	ILE
1	L	915	TYR
1	M	415	PRO
1	M	432	LYS
1	M	439	LEU
1	M	512	GLY
1	M	518	LEU
1	M	706	ILE
1	M	915	TYR
1	N	415	PRO
1	N	432	LYS
1	N	439	LEU
1	N	512	GLY
1	N	518	LEU
1	N	706	ILE
1	N	915	TYR
1	O	415	PRO
1	O	432	LYS
1	O	439	LEU
1	O	512	GLY
1	O	518	LEU
1	O	706	ILE
1	O	915	TYR
1	P	415	PRO
1	P	432	LYS
1	P	439	LEU
1	P	512	GLY
1	P	518	LEU
1	P	706	ILE
1	P	915	TYR

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Mol	Chain	Res	Type
1	A	121	ALA
1	A	126	SER
1	A	316	VAL
1	A	424	SER
1	A	1228	ILE
1	B	121	ALA
1	B	126	SER
1	B	316	VAL
1	B	424	SER
1	B	1228	ILE
1	C	121	ALA
1	C	126	SER
1	C	316	VAL
1	C	424	SER
1	C	1228	ILE
1	D	121	ALA
1	D	126	SER
1	D	316	VAL
1	D	424	SER
1	D	1228	ILE
1	E	121	ALA
1	E	126	SER
1	E	316	VAL
1	E	424	SER
1	E	1228	ILE
1	F	121	ALA
1	F	126	SER
1	F	316	VAL
1	F	424	SER
1	F	1228	ILE
1	G	121	ALA
1	G	126	SER
1	G	316	VAL
1	G	424	SER
1	G	1228	ILE
1	H	121	ALA
1	H	126	SER
1	H	316	VAL
1	H	424	SER
1	H	1228	ILE
1	I	121	ALA
1	I	126	SER

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Mol	Chain	Res	Type
1	I	316	VAL
1	I	424	SER
1	I	1228	ILE
1	J	121	ALA
1	J	126	SER
1	J	316	VAL
1	J	424	SER
1	J	1228	ILE
1	K	121	ALA
1	K	126	SER
1	K	316	VAL
1	K	424	SER
1	K	1228	ILE
1	L	121	ALA
1	L	126	SER
1	L	316	VAL
1	L	424	SER
1	L	1228	ILE
1	M	121	ALA
1	M	126	SER
1	M	316	VAL
1	M	424	SER
1	M	1228	ILE
1	N	121	ALA
1	N	126	SER
1	N	316	VAL
1	N	424	SER
1	N	1228	ILE
1	O	121	ALA
1	O	126	SER
1	O	316	VAL
1	O	424	SER
1	O	1228	ILE
1	P	121	ALA
1	P	126	SER
1	P	316	VAL
1	P	424	SER
1	P	1228	ILE
1	G	194	GLU
1	O	194	GLU
1	A	919	VAL
1	B	919	VAL

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Mol	Chain	Res	Type
1	C	919	VAL
1	D	919	VAL
1	E	919	VAL
1	F	919	VAL
1	G	919	VAL
1	H	919	VAL
1	I	919	VAL
1	J	919	VAL
1	K	919	VAL
1	L	919	VAL
1	M	919	VAL
1	N	919	VAL
1	O	919	VAL
1	P	919	VAL
1	F	344	VAL
1	G	344	VAL
1	J	344	VAL
1	N	344	VAL
1	N	883	ILE
1	A	344	VAL
1	A	883	ILE
1	B	344	VAL
1	B	883	ILE
1	C	344	VAL
1	C	883	ILE
1	D	344	VAL
1	D	883	ILE
1	E	344	VAL
1	E	883	ILE
1	F	883	ILE
1	G	883	ILE
1	H	344	VAL
1	H	883	ILE
1	I	344	VAL
1	I	883	ILE
1	J	883	ILE
1	K	344	VAL
1	K	883	ILE
1	L	344	VAL
1	L	883	ILE
1	M	344	VAL
1	M	883	ILE

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Mol	Chain	Res	Type
1	O	344	VAL
1	O	883	ILE
1	P	344	VAL
1	P	883	ILE

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	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	B	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	C	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	D	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	E	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	F	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	G	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	H	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	I	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	J	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	K	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	L	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	M	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	N	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	O	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
1	P	1138/1315 (86%)	1137 (100%)	1 (0%)	92	95
All	All	18208/21040 (86%)	18192 (100%)	16 (0%)	92	95

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	914	VAL
1	B	914	VAL
1	C	914	VAL
1	D	914	VAL
1	E	914	VAL
1	F	914	VAL
1	G	914	VAL
1	H	914	VAL
1	I	914	VAL
1	J	914	VAL
1	K	914	VAL
1	L	914	VAL
1	M	914	VAL
1	N	914	VAL
1	O	914	VAL
1	P	914	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (462) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	GLN
1	A	146	ASN
1	A	171	GLN
1	A	182	ASN
1	A	187	ASN
1	A	222	HIS
1	A	249	ASN
1	A	282	HIS
1	A	287	HIS
1	A	435	ASN
1	A	446	HIS
1	A	473	HIS
1	A	477	ASN
1	A	509	ASN
1	A	592	ASN
1	A	604	ASN
1	A	608	ASN
1	A	612	HIS
1	A	618	ASN
1	A	670	HIS
1	A	738	ASN
1	A	810	ASN
1	A	850	GLN

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Mol	Chain	Res	Type
1	A	930	HIS
1	A	952	HIS
1	A	968	ASN
1	A	994	HIS
1	A	1027	ASN
1	A	1223	GLN
1	B	11	GLN
1	B	146	ASN
1	B	171	GLN
1	B	182	ASN
1	B	187	ASN
1	B	222	HIS
1	B	249	ASN
1	B	282	HIS
1	B	287	HIS
1	B	435	ASN
1	B	446	HIS
1	B	473	HIS
1	B	477	ASN
1	B	509	ASN
1	B	592	ASN
1	B	604	ASN
1	B	608	ASN
1	B	612	HIS
1	B	618	ASN
1	B	670	HIS
1	B	738	ASN
1	B	810	ASN
1	B	850	GLN
1	B	930	HIS
1	B	952	HIS
1	B	968	ASN
1	B	994	HIS
1	B	1027	ASN
1	B	1223	GLN
1	C	11	GLN
1	C	146	ASN
1	C	171	GLN
1	C	182	ASN
1	C	187	ASN
1	C	249	ASN
1	C	282	HIS

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Mol	Chain	Res	Type
1	C	287	HIS
1	C	435	ASN
1	C	446	HIS
1	C	473	HIS
1	C	477	ASN
1	C	509	ASN
1	C	592	ASN
1	C	604	ASN
1	C	608	ASN
1	C	612	HIS
1	C	618	ASN
1	C	670	HIS
1	C	738	ASN
1	C	810	ASN
1	C	850	GLN
1	C	930	HIS
1	C	952	HIS
1	C	968	ASN
1	C	994	HIS
1	C	1027	ASN
1	C	1223	GLN
1	D	11	GLN
1	D	146	ASN
1	D	171	GLN
1	D	182	ASN
1	D	187	ASN
1	D	222	HIS
1	D	249	ASN
1	D	282	HIS
1	D	287	HIS
1	D	435	ASN
1	D	446	HIS
1	D	473	HIS
1	D	477	ASN
1	D	509	ASN
1	D	592	ASN
1	D	604	ASN
1	D	608	ASN
1	D	612	HIS
1	D	618	ASN
1	D	670	HIS
1	D	738	ASN

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Mol	Chain	Res	Type
1	D	810	ASN
1	D	850	GLN
1	D	930	HIS
1	D	952	HIS
1	D	968	ASN
1	D	994	HIS
1	D	1027	ASN
1	D	1223	GLN
1	E	11	GLN
1	E	146	ASN
1	E	171	GLN
1	E	182	ASN
1	E	187	ASN
1	E	222	HIS
1	E	249	ASN
1	E	282	HIS
1	E	287	HIS
1	E	435	ASN
1	E	446	HIS
1	E	473	HIS
1	E	477	ASN
1	E	509	ASN
1	E	592	ASN
1	E	604	ASN
1	E	608	ASN
1	E	612	HIS
1	E	618	ASN
1	E	670	HIS
1	E	738	ASN
1	E	810	ASN
1	E	850	GLN
1	E	930	HIS
1	E	952	HIS
1	E	968	ASN
1	E	994	HIS
1	E	1027	ASN
1	E	1223	GLN
1	F	11	GLN
1	F	117	ASN
1	F	146	ASN
1	F	171	GLN
1	F	182	ASN

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Mol	Chain	Res	Type
1	F	187	ASN
1	F	222	HIS
1	F	249	ASN
1	F	282	HIS
1	F	287	HIS
1	F	435	ASN
1	F	446	HIS
1	F	473	HIS
1	F	477	ASN
1	F	509	ASN
1	F	592	ASN
1	F	604	ASN
1	F	608	ASN
1	F	612	HIS
1	F	618	ASN
1	F	670	HIS
1	F	738	ASN
1	F	810	ASN
1	F	850	GLN
1	F	930	HIS
1	F	952	HIS
1	F	968	ASN
1	F	994	HIS
1	F	1027	ASN
1	F	1223	GLN
1	G	11	GLN
1	G	146	ASN
1	G	171	GLN
1	G	182	ASN
1	G	187	ASN
1	G	222	HIS
1	G	249	ASN
1	G	282	HIS
1	G	287	HIS
1	G	435	ASN
1	G	446	HIS
1	G	473	HIS
1	G	477	ASN
1	G	509	ASN
1	G	592	ASN
1	G	604	ASN
1	G	608	ASN

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Mol	Chain	Res	Type
1	G	612	HIS
1	G	618	ASN
1	G	670	HIS
1	G	738	ASN
1	G	810	ASN
1	G	850	GLN
1	G	930	HIS
1	G	952	HIS
1	G	968	ASN
1	G	994	HIS
1	G	1027	ASN
1	G	1223	GLN
1	H	11	GLN
1	H	146	ASN
1	H	171	GLN
1	H	182	ASN
1	H	187	ASN
1	H	222	HIS
1	H	249	ASN
1	H	282	HIS
1	H	287	HIS
1	H	435	ASN
1	H	446	HIS
1	H	473	HIS
1	H	477	ASN
1	H	509	ASN
1	H	592	ASN
1	H	604	ASN
1	H	608	ASN
1	H	612	HIS
1	H	618	ASN
1	H	670	HIS
1	H	738	ASN
1	H	810	ASN
1	H	850	GLN
1	H	930	HIS
1	H	952	HIS
1	H	968	ASN
1	H	994	HIS
1	H	1027	ASN
1	H	1223	GLN
1	I	11	GLN

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Mol	Chain	Res	Type
1	I	146	ASN
1	I	171	GLN
1	I	182	ASN
1	I	187	ASN
1	I	222	HIS
1	I	249	ASN
1	I	282	HIS
1	I	287	HIS
1	I	435	ASN
1	I	446	HIS
1	I	473	HIS
1	I	477	ASN
1	I	509	ASN
1	I	592	ASN
1	I	604	ASN
1	I	612	HIS
1	I	618	ASN
1	I	670	HIS
1	I	738	ASN
1	I	810	ASN
1	I	850	GLN
1	I	930	HIS
1	I	952	HIS
1	I	968	ASN
1	I	994	HIS
1	I	1027	ASN
1	I	1223	GLN
1	J	11	GLN
1	J	146	ASN
1	J	171	GLN
1	J	182	ASN
1	J	187	ASN
1	J	222	HIS
1	J	249	ASN
1	J	282	HIS
1	J	287	HIS
1	J	435	ASN
1	J	446	HIS
1	J	473	HIS
1	J	477	ASN
1	J	509	ASN
1	J	592	ASN

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Mol	Chain	Res	Type
1	J	604	ASN
1	J	608	ASN
1	J	612	HIS
1	J	618	ASN
1	J	670	HIS
1	J	738	ASN
1	J	810	ASN
1	J	850	GLN
1	J	930	HIS
1	J	952	HIS
1	J	968	ASN
1	J	994	HIS
1	J	1027	ASN
1	J	1223	GLN
1	K	11	GLN
1	K	146	ASN
1	K	171	GLN
1	K	182	ASN
1	K	187	ASN
1	K	222	HIS
1	K	249	ASN
1	K	282	HIS
1	K	287	HIS
1	K	435	ASN
1	K	446	HIS
1	K	473	HIS
1	K	477	ASN
1	K	509	ASN
1	K	592	ASN
1	K	604	ASN
1	K	608	ASN
1	K	612	HIS
1	K	618	ASN
1	K	670	HIS
1	K	738	ASN
1	K	810	ASN
1	K	850	GLN
1	K	930	HIS
1	K	952	HIS
1	K	968	ASN
1	K	994	HIS
1	K	1027	ASN

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Mol	Chain	Res	Type
1	K	1223	GLN
1	L	11	GLN
1	L	146	ASN
1	L	171	GLN
1	L	182	ASN
1	L	187	ASN
1	L	249	ASN
1	L	282	HIS
1	L	287	HIS
1	L	435	ASN
1	L	446	HIS
1	L	473	HIS
1	L	477	ASN
1	L	509	ASN
1	L	592	ASN
1	L	604	ASN
1	L	608	ASN
1	L	612	HIS
1	L	618	ASN
1	L	670	HIS
1	L	738	ASN
1	L	810	ASN
1	L	850	GLN
1	L	930	HIS
1	L	952	HIS
1	L	968	ASN
1	L	994	HIS
1	L	1027	ASN
1	L	1223	GLN
1	M	11	GLN
1	M	146	ASN
1	M	171	GLN
1	M	182	ASN
1	M	187	ASN
1	M	222	HIS
1	M	249	ASN
1	M	282	HIS
1	M	287	HIS
1	M	435	ASN
1	M	446	HIS
1	M	473	HIS
1	M	477	ASN

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Mol	Chain	Res	Type
1	M	509	ASN
1	M	592	ASN
1	M	604	ASN
1	M	608	ASN
1	M	612	HIS
1	M	618	ASN
1	M	670	HIS
1	M	738	ASN
1	M	810	ASN
1	M	850	GLN
1	M	930	HIS
1	M	952	HIS
1	M	968	ASN
1	M	994	HIS
1	M	1027	ASN
1	M	1223	GLN
1	N	11	GLN
1	N	146	ASN
1	N	171	GLN
1	N	182	ASN
1	N	187	ASN
1	N	222	HIS
1	N	249	ASN
1	N	282	HIS
1	N	287	HIS
1	N	435	ASN
1	N	446	HIS
1	N	473	HIS
1	N	477	ASN
1	N	509	ASN
1	N	592	ASN
1	N	604	ASN
1	N	608	ASN
1	N	612	HIS
1	N	618	ASN
1	N	670	HIS
1	N	738	ASN
1	N	810	ASN
1	N	850	GLN
1	N	930	HIS
1	N	952	HIS
1	N	968	ASN

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Mol	Chain	Res	Type
1	N	994	HIS
1	N	1027	ASN
1	N	1223	GLN
1	O	11	GLN
1	O	146	ASN
1	O	171	GLN
1	O	182	ASN
1	O	187	ASN
1	O	222	HIS
1	O	249	ASN
1	O	282	HIS
1	O	287	HIS
1	O	435	ASN
1	O	446	HIS
1	O	473	HIS
1	O	477	ASN
1	O	509	ASN
1	O	592	ASN
1	O	604	ASN
1	O	608	ASN
1	O	612	HIS
1	O	618	ASN
1	O	670	HIS
1	O	738	ASN
1	O	810	ASN
1	O	850	GLN
1	O	930	HIS
1	O	952	HIS
1	O	968	ASN
1	O	994	HIS
1	O	1027	ASN
1	O	1223	GLN
1	P	11	GLN
1	P	146	ASN
1	P	171	GLN
1	P	182	ASN
1	P	187	ASN
1	P	222	HIS
1	P	249	ASN
1	P	282	HIS
1	P	287	HIS
1	P	435	ASN

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Mol	Chain	Res	Type
1	P	446	HIS
1	P	473	HIS
1	P	477	ASN
1	P	509	ASN
1	P	592	ASN
1	P	604	ASN
1	P	608	ASN
1	P	612	HIS
1	P	618	ASN
1	P	670	HIS
1	P	738	ASN
1	P	810	ASN
1	P	850	GLN
1	P	930	HIS
1	P	952	HIS
1	P	968	ASN
1	P	994	HIS
1	P	1027	ASN
1	P	1223	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

16 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	APK	A	251	1	28,33,33	2.93	11 (39%)	27,47,47	3.00	6 (22%)
1	APK	D	251	1	28,33,33	2.93	11 (39%)	27,47,47	3.00	6 (22%)
1	APK	P	251	1	28,33,33	2.92	11 (39%)	27,47,47	3.00	6 (22%)
1	APK	J	251	1	28,33,33	2.92	11 (39%)	27,47,47	3.00	6 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	APK	E	251	1	28,33,33	2.92	11 (39%)	27,47,47	2.99	6 (22%)
1	APK	G	251	1	28,33,33	2.92	11 (39%)	27,47,47	3.00	6 (22%)
1	APK	I	251	1	28,33,33	2.92	11 (39%)	27,47,47	2.99	6 (22%)
1	APK	L	251	1	28,33,33	2.93	11 (39%)	27,47,47	2.99	6 (22%)
1	APK	N	251	1	28,33,33	2.92	11 (39%)	27,47,47	3.00	6 (22%)
1	APK	F	251	1	28,33,33	2.92	11 (39%)	27,47,47	2.99	6 (22%)
1	APK	B	251	1	28,33,33	2.92	11 (39%)	27,47,47	2.99	6 (22%)
1	APK	H	251	1	28,33,33	2.93	11 (39%)	27,47,47	2.99	6 (22%)
1	APK	O	251	1	28,33,33	2.92	11 (39%)	27,47,47	3.00	6 (22%)
1	APK	M	251	1	28,33,33	2.92	11 (39%)	27,47,47	2.99	6 (22%)
1	APK	C	251	1	28,33,33	2.92	11 (39%)	27,47,47	3.00	6 (22%)
1	APK	K	251	1	28,33,33	2.93	11 (39%)	27,47,47	2.99	6 (22%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	APK	A	251	1	-	8/15/37/37	0/3/3/3
1	APK	D	251	1	-	8/15/37/37	0/3/3/3
1	APK	P	251	1	-	8/15/37/37	0/3/3/3
1	APK	J	251	1	-	8/15/37/37	0/3/3/3
1	APK	E	251	1	-	8/15/37/37	0/3/3/3
1	APK	G	251	1	-	8/15/37/37	0/3/3/3
1	APK	I	251	1	-	8/15/37/37	0/3/3/3
1	APK	L	251	1	-	8/15/37/37	0/3/3/3
1	APK	N	251	1	-	8/15/37/37	0/3/3/3
1	APK	F	251	1	-	8/15/37/37	0/3/3/3
1	APK	B	251	1	-	8/15/37/37	0/3/3/3
1	APK	H	251	1	-	8/15/37/37	0/3/3/3
1	APK	O	251	1	-	8/15/37/37	0/3/3/3
1	APK	M	251	1	-	8/15/37/37	0/3/3/3
1	APK	C	251	1	-	8/15/37/37	0/3/3/3
1	APK	K	251	1	-	8/15/37/37	0/3/3/3

All (176) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	251	APK	C2'-C3'	-8.23	1.31	1.53
1	B	251	APK	C2'-C3'	-8.22	1.31	1.53
1	K	251	APK	C2'-C3'	-8.22	1.31	1.53
1	G	251	APK	C2'-C3'	-8.21	1.31	1.53
1	N	251	APK	C2'-C3'	-8.21	1.31	1.53
1	F	251	APK	C2'-C3'	-8.20	1.31	1.53
1	A	251	APK	C2'-C3'	-8.20	1.31	1.53
1	E	251	APK	C2'-C3'	-8.20	1.31	1.53
1	L	251	APK	C2'-C3'	-8.20	1.31	1.53
1	D	251	APK	C2'-C3'	-8.19	1.31	1.53
1	H	251	APK	C2'-C3'	-8.19	1.31	1.53
1	I	251	APK	C2'-C3'	-8.19	1.31	1.53
1	M	251	APK	C2'-C3'	-8.19	1.31	1.53
1	O	251	APK	C2'-C3'	-8.19	1.31	1.53
1	P	251	APK	C2'-C3'	-8.18	1.31	1.53
1	J	251	APK	C2'-C3'	-8.17	1.31	1.53
1	L	251	APK	P-NZ	6.40	1.69	1.61
1	K	251	APK	P-NZ	6.38	1.69	1.61
1	H	251	APK	P-NZ	6.37	1.69	1.61
1	B	251	APK	P-NZ	6.37	1.69	1.61
1	D	251	APK	P-NZ	6.36	1.69	1.61
1	A	251	APK	P-NZ	6.33	1.69	1.61
1	N	251	APK	P-NZ	6.33	1.69	1.61
1	E	251	APK	P-NZ	6.32	1.69	1.61
1	G	251	APK	P-NZ	6.32	1.69	1.61
1	J	251	APK	P-NZ	6.32	1.69	1.61
1	F	251	APK	P-NZ	6.32	1.69	1.61
1	P	251	APK	P-NZ	6.31	1.69	1.61
1	I	251	APK	P-NZ	6.30	1.69	1.61
1	M	251	APK	P-NZ	6.30	1.69	1.61
1	O	251	APK	P-NZ	6.30	1.69	1.61
1	C	251	APK	P-NZ	6.27	1.69	1.61
1	D	251	APK	O3'-C3'	5.34	1.56	1.43
1	F	251	APK	O3'-C3'	5.34	1.56	1.43
1	G	251	APK	O3'-C3'	5.34	1.56	1.43
1	I	251	APK	O3'-C3'	5.34	1.56	1.43
1	N	251	APK	O3'-C3'	5.34	1.56	1.43
1	O	251	APK	O3'-C3'	5.33	1.56	1.43
1	A	251	APK	O3'-C3'	5.32	1.56	1.43
1	C	251	APK	O3'-C3'	5.32	1.56	1.43
1	L	251	APK	O3'-C3'	5.32	1.56	1.43
1	E	251	APK	O3'-C3'	5.32	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	251	APK	O3'-C3'	5.32	1.56	1.43
1	B	251	APK	O3'-C3'	5.31	1.56	1.43
1	J	251	APK	O3'-C3'	5.30	1.56	1.43
1	K	251	APK	O3'-C3'	5.30	1.56	1.43
1	H	251	APK	O3'-C3'	5.30	1.56	1.43
1	M	251	APK	O3'-C3'	5.30	1.56	1.43
1	O	251	APK	C4-N3	-4.92	1.29	1.35
1	E	251	APK	C4-N3	-4.90	1.29	1.35
1	G	251	APK	C4-N3	-4.90	1.29	1.35
1	A	251	APK	C4-N3	-4.90	1.29	1.35
1	F	251	APK	C4-N3	-4.90	1.29	1.35
1	D	251	APK	C4-N3	-4.89	1.29	1.35
1	H	251	APK	C4-N3	-4.89	1.29	1.35
1	I	251	APK	C4-N3	-4.89	1.29	1.35
1	M	251	APK	C4-N3	-4.89	1.29	1.35
1	J	251	APK	C4-N3	-4.88	1.29	1.35
1	N	251	APK	C4-N3	-4.88	1.29	1.35
1	C	251	APK	C4-N3	-4.88	1.29	1.35
1	L	251	APK	C4-N3	-4.88	1.29	1.35
1	K	251	APK	C4-N3	-4.87	1.29	1.35
1	P	251	APK	C4-N3	-4.86	1.29	1.35
1	B	251	APK	C4-N3	-4.84	1.29	1.35
1	L	251	APK	C8-N7	-4.31	1.26	1.34
1	O	251	APK	C8-N7	-4.31	1.26	1.34
1	J	251	APK	C8-N7	-4.31	1.26	1.34
1	B	251	APK	C8-N7	-4.31	1.26	1.34
1	D	251	APK	C8-N7	-4.30	1.26	1.34
1	H	251	APK	C8-N7	-4.30	1.26	1.34
1	I	251	APK	C8-N7	-4.30	1.26	1.34
1	M	251	APK	C8-N7	-4.30	1.26	1.34
1	P	251	APK	C8-N7	-4.29	1.26	1.34
1	A	251	APK	C8-N7	-4.29	1.26	1.34
1	C	251	APK	C8-N7	-4.28	1.26	1.34
1	F	251	APK	C8-N7	-4.28	1.26	1.34
1	E	251	APK	C8-N7	-4.28	1.26	1.34
1	K	251	APK	C8-N7	-4.27	1.26	1.34
1	G	251	APK	C8-N7	-4.26	1.26	1.34
1	N	251	APK	C8-N7	-4.26	1.26	1.34
1	D	251	APK	P-O1P	4.08	1.52	1.46
1	C	251	APK	P-O1P	4.08	1.52	1.46
1	G	251	APK	P-O1P	4.06	1.52	1.46
1	A	251	APK	P-O1P	4.06	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	251	APK	P-O1P	4.05	1.52	1.46
1	H	251	APK	P-O1P	4.03	1.52	1.46
1	I	251	APK	P-O1P	4.03	1.52	1.46
1	N	251	APK	P-O1P	4.03	1.52	1.46
1	M	251	APK	P-O1P	4.03	1.52	1.46
1	O	251	APK	P-O1P	4.03	1.52	1.46
1	P	251	APK	P-O1P	4.03	1.52	1.46
1	L	251	APK	P-O1P	4.02	1.52	1.46
1	J	251	APK	P-O1P	4.01	1.52	1.46
1	B	251	APK	P-O1P	4.01	1.52	1.46
1	E	251	APK	P-O1P	4.01	1.52	1.46
1	F	251	APK	P-O1P	4.01	1.52	1.46
1	K	251	APK	C6-N6	3.14	1.45	1.34
1	H	251	APK	C6-N6	3.13	1.45	1.34
1	L	251	APK	C6-N6	3.12	1.45	1.34
1	E	251	APK	C6-N6	3.12	1.45	1.34
1	F	251	APK	C6-N6	3.12	1.45	1.34
1	D	251	APK	C6-N6	3.12	1.45	1.34
1	J	251	APK	C6-N6	3.12	1.45	1.34
1	C	251	APK	C6-N6	3.12	1.45	1.34
1	A	251	APK	C6-N6	3.12	1.45	1.34
1	P	251	APK	C6-N6	3.11	1.45	1.34
1	B	251	APK	C6-N6	3.11	1.45	1.34
1	I	251	APK	C6-N6	3.11	1.45	1.34
1	M	251	APK	C6-N6	3.11	1.45	1.34
1	D	251	APK	P-O2P	-3.11	1.48	1.56
1	N	251	APK	C6-N6	3.10	1.45	1.34
1	K	251	APK	P-O2P	-3.10	1.48	1.56
1	G	251	APK	C6-N6	3.09	1.45	1.34
1	O	251	APK	C6-N6	3.09	1.45	1.34
1	E	251	APK	P-O2P	-3.09	1.48	1.56
1	A	251	APK	P-O2P	-3.08	1.48	1.56
1	C	251	APK	P-O2P	-3.08	1.48	1.56
1	H	251	APK	P-O2P	-3.08	1.48	1.56
1	I	251	APK	P-O2P	-3.08	1.48	1.56
1	M	251	APK	P-O2P	-3.08	1.48	1.56
1	O	251	APK	P-O2P	-3.08	1.48	1.56
1	F	251	APK	P-O2P	-3.07	1.48	1.56
1	J	251	APK	P-O2P	-3.07	1.48	1.56
1	N	251	APK	P-O2P	-3.07	1.48	1.56
1	P	251	APK	P-O2P	-3.07	1.48	1.56
1	G	251	APK	P-O2P	-3.07	1.48	1.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	251	APK	P-O2P	-3.07	1.48	1.56
1	L	251	APK	P-O2P	-3.06	1.48	1.56
1	O	251	APK	CA-N	-2.61	1.40	1.48
1	L	251	APK	CA-N	-2.61	1.40	1.48
1	C	251	APK	CA-N	-2.60	1.40	1.48
1	G	251	APK	CA-N	-2.60	1.40	1.48
1	F	251	APK	CA-N	-2.59	1.40	1.48
1	M	251	APK	CA-N	-2.59	1.40	1.48
1	A	251	APK	CA-N	-2.59	1.40	1.48
1	B	251	APK	CA-N	-2.59	1.40	1.48
1	K	251	APK	CA-N	-2.59	1.40	1.48
1	P	251	APK	CA-N	-2.59	1.40	1.48
1	H	251	APK	CA-N	-2.59	1.40	1.48
1	I	251	APK	CA-N	-2.59	1.40	1.48
1	E	251	APK	CA-N	-2.58	1.40	1.48
1	J	251	APK	CA-N	-2.57	1.40	1.48
1	N	251	APK	CA-N	-2.57	1.40	1.48
1	D	251	APK	CA-N	-2.55	1.40	1.48
1	O	251	APK	C5-N7	-2.24	1.31	1.39
1	C	251	APK	C5-N7	-2.22	1.31	1.39
1	J	251	APK	C5-N7	-2.21	1.31	1.39
1	P	251	APK	C5-N7	-2.21	1.31	1.39
1	G	251	APK	C5-N7	-2.21	1.31	1.39
1	L	251	APK	C5-N7	-2.21	1.31	1.39
1	F	251	APK	C5-N7	-2.21	1.31	1.39
1	A	251	APK	C5-N7	-2.21	1.31	1.39
1	E	251	APK	C5-N7	-2.21	1.31	1.39
1	N	251	APK	C5-N7	-2.21	1.31	1.39
1	B	251	APK	C5-N7	-2.20	1.31	1.39
1	K	251	APK	C5-N7	-2.20	1.31	1.39
1	H	251	APK	C5-N7	-2.20	1.32	1.39
1	I	251	APK	C5-N7	-2.20	1.32	1.39
1	M	251	APK	C5-N7	-2.20	1.32	1.39
1	D	251	APK	C5-N7	-2.20	1.32	1.39
1	I	251	APK	O2'-C2'	2.11	1.48	1.43
1	F	251	APK	O2'-C2'	2.10	1.48	1.43
1	K	251	APK	O2'-C2'	2.10	1.48	1.43
1	L	251	APK	O2'-C2'	2.09	1.48	1.43
1	N	251	APK	O2'-C2'	2.09	1.48	1.43
1	M	251	APK	O2'-C2'	2.09	1.48	1.43
1	A	251	APK	O2'-C2'	2.09	1.48	1.43
1	D	251	APK	O2'-C2'	2.08	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	251	APK	O2'-C2'	2.08	1.48	1.43
1	C	251	APK	O2'-C2'	2.08	1.48	1.43
1	H	251	APK	O2'-C2'	2.08	1.48	1.43
1	O	251	APK	O2'-C2'	2.08	1.48	1.43
1	J	251	APK	O2'-C2'	2.07	1.48	1.43
1	G	251	APK	O2'-C2'	2.07	1.48	1.43
1	B	251	APK	O2'-C2'	2.06	1.48	1.43
1	P	251	APK	O2'-C2'	2.06	1.48	1.43

All (96) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	251	APK	C1'-N9-C4	8.31	141.23	126.64
1	A	251	APK	C1'-N9-C4	8.30	141.23	126.64
1	D	251	APK	C1'-N9-C4	8.30	141.22	126.64
1	P	251	APK	C1'-N9-C4	8.30	141.22	126.64
1	B	251	APK	C1'-N9-C4	8.29	141.21	126.64
1	G	251	APK	C1'-N9-C4	8.29	141.21	126.64
1	O	251	APK	C1'-N9-C4	8.29	141.21	126.64
1	L	251	APK	C1'-N9-C4	8.28	141.20	126.64
1	N	251	APK	C1'-N9-C4	8.28	141.19	126.64
1	M	251	APK	C1'-N9-C4	8.28	141.19	126.64
1	H	251	APK	C1'-N9-C4	8.27	141.17	126.64
1	I	251	APK	C1'-N9-C4	8.27	141.17	126.64
1	F	251	APK	C1'-N9-C4	8.26	141.16	126.64
1	E	251	APK	C1'-N9-C4	8.26	141.15	126.64
1	C	251	APK	C1'-N9-C4	8.25	141.13	126.64
1	K	251	APK	C1'-N9-C4	8.25	141.13	126.64
1	C	251	APK	C4-C5-N7	7.81	117.59	109.34
1	G	251	APK	C4-C5-N7	7.80	117.58	109.34
1	P	251	APK	C4-C5-N7	7.79	117.57	109.34
1	J	251	APK	C4-C5-N7	7.79	117.56	109.34
1	N	251	APK	C4-C5-N7	7.78	117.56	109.34
1	O	251	APK	C4-C5-N7	7.77	117.55	109.34
1	A	251	APK	C4-C5-N7	7.76	117.53	109.34
1	E	251	APK	C4-C5-N7	7.75	117.53	109.34
1	F	251	APK	C4-C5-N7	7.75	117.53	109.34
1	K	251	APK	C4-C5-N7	7.75	117.52	109.34
1	L	251	APK	C4-C5-N7	7.75	117.52	109.34
1	D	251	APK	C4-C5-N7	7.74	117.52	109.34
1	I	251	APK	C4-C5-N7	7.74	117.51	109.34
1	M	251	APK	C4-C5-N7	7.74	117.51	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	251	APK	C4-C5-N7	7.71	117.48	109.34
1	H	251	APK	C4-C5-N7	7.70	117.48	109.34
1	C	251	APK	N3-C2-N1	-6.05	120.46	128.67
1	D	251	APK	N3-C2-N1	-6.04	120.47	128.67
1	E	251	APK	N3-C2-N1	-6.04	120.47	128.67
1	F	251	APK	N3-C2-N1	-6.04	120.47	128.67
1	P	251	APK	N3-C2-N1	-6.04	120.48	128.67
1	H	251	APK	N3-C2-N1	-6.03	120.49	128.67
1	K	251	APK	N3-C2-N1	-6.03	120.49	128.67
1	M	251	APK	N3-C2-N1	-6.03	120.49	128.67
1	O	251	APK	N3-C2-N1	-6.02	120.49	128.67
1	A	251	APK	N3-C2-N1	-6.02	120.50	128.67
1	B	251	APK	N3-C2-N1	-6.02	120.51	128.67
1	L	251	APK	N3-C2-N1	-6.02	120.51	128.67
1	J	251	APK	N3-C2-N1	-6.01	120.51	128.67
1	N	251	APK	N3-C2-N1	-6.01	120.51	128.67
1	G	251	APK	N3-C2-N1	-6.01	120.52	128.67
1	I	251	APK	N3-C2-N1	-6.00	120.53	128.67
1	D	251	APK	C2'-C3'-C4'	5.05	112.36	102.61
1	G	251	APK	C2'-C3'-C4'	5.04	112.35	102.61
1	F	251	APK	C2'-C3'-C4'	5.04	112.35	102.61
1	P	251	APK	C2'-C3'-C4'	5.04	112.35	102.61
1	A	251	APK	C2'-C3'-C4'	5.04	112.34	102.61
1	K	251	APK	C2'-C3'-C4'	5.04	112.34	102.61
1	C	251	APK	C2'-C3'-C4'	5.04	112.34	102.61
1	E	251	APK	C2'-C3'-C4'	5.03	112.34	102.61
1	B	251	APK	C2'-C3'-C4'	5.03	112.34	102.61
1	L	251	APK	C2'-C3'-C4'	5.03	112.33	102.61
1	N	251	APK	C2'-C3'-C4'	5.03	112.33	102.61
1	J	251	APK	C2'-C3'-C4'	5.03	112.33	102.61
1	I	251	APK	C2'-C3'-C4'	5.02	112.31	102.61
1	O	251	APK	C2'-C3'-C4'	5.02	112.31	102.61
1	H	251	APK	C2'-C3'-C4'	5.01	112.30	102.61
1	M	251	APK	C2'-C3'-C4'	5.01	112.30	102.61
1	K	251	APK	O4'-C4'-C3'	-4.83	95.57	105.15
1	B	251	APK	O4'-C4'-C3'	-4.82	95.59	105.15
1	J	251	APK	O4'-C4'-C3'	-4.82	95.59	105.15
1	C	251	APK	O4'-C4'-C3'	-4.81	95.61	105.15
1	G	251	APK	O4'-C4'-C3'	-4.81	95.61	105.15
1	E	251	APK	O4'-C4'-C3'	-4.81	95.61	105.15
1	P	251	APK	O4'-C4'-C3'	-4.80	95.62	105.15
1	F	251	APK	O4'-C4'-C3'	-4.80	95.62	105.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	251	APK	O4'-C4'-C3'	-4.80	95.62	105.15
1	D	251	APK	O4'-C4'-C3'	-4.80	95.62	105.15
1	I	251	APK	O4'-C4'-C3'	-4.80	95.62	105.15
1	M	251	APK	O4'-C4'-C3'	-4.80	95.63	105.15
1	N	251	APK	O4'-C4'-C3'	-4.80	95.63	105.15
1	O	251	APK	O4'-C4'-C3'	-4.79	95.64	105.15
1	H	251	APK	O4'-C4'-C3'	-4.79	95.65	105.15
1	L	251	APK	O4'-C4'-C3'	-4.78	95.66	105.15
1	G	251	APK	P-NZ-CE	-3.57	119.63	124.61
1	N	251	APK	P-NZ-CE	-3.56	119.65	124.61
1	L	251	APK	P-NZ-CE	-3.55	119.66	124.61
1	K	251	APK	P-NZ-CE	-3.55	119.66	124.61
1	A	251	APK	P-NZ-CE	-3.54	119.67	124.61
1	H	251	APK	P-NZ-CE	-3.54	119.67	124.61
1	B	251	APK	P-NZ-CE	-3.54	119.67	124.61
1	I	251	APK	P-NZ-CE	-3.54	119.67	124.61
1	M	251	APK	P-NZ-CE	-3.54	119.67	124.61
1	O	251	APK	P-NZ-CE	-3.54	119.67	124.61
1	F	251	APK	P-NZ-CE	-3.54	119.67	124.61
1	C	251	APK	P-NZ-CE	-3.53	119.68	124.61
1	D	251	APK	P-NZ-CE	-3.53	119.68	124.61
1	J	251	APK	P-NZ-CE	-3.53	119.68	124.61
1	P	251	APK	P-NZ-CE	-3.53	119.69	124.61
1	E	251	APK	P-NZ-CE	-3.52	119.70	124.61

There are no chirality outliers.

All (128) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	251	APK	O-C-CA-CB
1	A	251	APK	CG-CD-CE-NZ
1	A	251	APK	C5'-O5'-P-O2P
1	B	251	APK	O-C-CA-CB
1	B	251	APK	CG-CD-CE-NZ
1	B	251	APK	C5'-O5'-P-O2P
1	C	251	APK	O-C-CA-CB
1	C	251	APK	CG-CD-CE-NZ
1	C	251	APK	C5'-O5'-P-O2P
1	D	251	APK	O-C-CA-CB
1	D	251	APK	CG-CD-CE-NZ
1	D	251	APK	C5'-O5'-P-O2P
1	E	251	APK	O-C-CA-CB

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Mol	Chain	Res	Type	Atoms
1	E	251	APK	CG-CD-CE-NZ
1	E	251	APK	C5'-O5'-P-O2P
1	F	251	APK	O-C-CA-CB
1	F	251	APK	CG-CD-CE-NZ
1	F	251	APK	C5'-O5'-P-O2P
1	G	251	APK	O-C-CA-CB
1	G	251	APK	CG-CD-CE-NZ
1	G	251	APK	C5'-O5'-P-O2P
1	H	251	APK	O-C-CA-CB
1	H	251	APK	CG-CD-CE-NZ
1	H	251	APK	C5'-O5'-P-O2P
1	I	251	APK	O-C-CA-CB
1	I	251	APK	CG-CD-CE-NZ
1	I	251	APK	C5'-O5'-P-O2P
1	J	251	APK	O-C-CA-CB
1	J	251	APK	CG-CD-CE-NZ
1	J	251	APK	C5'-O5'-P-O2P
1	K	251	APK	O-C-CA-CB
1	K	251	APK	CG-CD-CE-NZ
1	K	251	APK	C5'-O5'-P-O2P
1	L	251	APK	O-C-CA-CB
1	L	251	APK	CG-CD-CE-NZ
1	L	251	APK	C5'-O5'-P-O2P
1	M	251	APK	O-C-CA-CB
1	M	251	APK	CG-CD-CE-NZ
1	M	251	APK	C5'-O5'-P-O2P
1	N	251	APK	O-C-CA-CB
1	N	251	APK	CG-CD-CE-NZ
1	N	251	APK	C5'-O5'-P-O2P
1	O	251	APK	O-C-CA-CB
1	O	251	APK	CG-CD-CE-NZ
1	O	251	APK	C5'-O5'-P-O2P
1	P	251	APK	O-C-CA-CB
1	P	251	APK	CG-CD-CE-NZ
1	P	251	APK	C5'-O5'-P-O2P
1	A	251	APK	CA-CB-CG-CD
1	B	251	APK	CA-CB-CG-CD
1	C	251	APK	CA-CB-CG-CD
1	D	251	APK	CA-CB-CG-CD
1	E	251	APK	CA-CB-CG-CD
1	F	251	APK	CA-CB-CG-CD
1	G	251	APK	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	H	251	APK	CA-CB-CG-CD
1	I	251	APK	CA-CB-CG-CD
1	J	251	APK	CA-CB-CG-CD
1	K	251	APK	CA-CB-CG-CD
1	L	251	APK	CA-CB-CG-CD
1	M	251	APK	CA-CB-CG-CD
1	N	251	APK	CA-CB-CG-CD
1	O	251	APK	CA-CB-CG-CD
1	P	251	APK	CA-CB-CG-CD
1	A	251	APK	C4'-C5'-O5'-P
1	B	251	APK	C4'-C5'-O5'-P
1	C	251	APK	C4'-C5'-O5'-P
1	D	251	APK	C4'-C5'-O5'-P
1	E	251	APK	C4'-C5'-O5'-P
1	F	251	APK	C4'-C5'-O5'-P
1	G	251	APK	C4'-C5'-O5'-P
1	H	251	APK	C4'-C5'-O5'-P
1	I	251	APK	C4'-C5'-O5'-P
1	J	251	APK	C4'-C5'-O5'-P
1	K	251	APK	C4'-C5'-O5'-P
1	L	251	APK	C4'-C5'-O5'-P
1	M	251	APK	C4'-C5'-O5'-P
1	N	251	APK	C4'-C5'-O5'-P
1	O	251	APK	C4'-C5'-O5'-P
1	P	251	APK	C4'-C5'-O5'-P
1	A	251	APK	C5'-O5'-P-NZ
1	B	251	APK	C5'-O5'-P-NZ
1	C	251	APK	C5'-O5'-P-NZ
1	D	251	APK	C5'-O5'-P-NZ
1	E	251	APK	C5'-O5'-P-NZ
1	F	251	APK	C5'-O5'-P-NZ
1	G	251	APK	C5'-O5'-P-NZ
1	H	251	APK	C5'-O5'-P-NZ
1	I	251	APK	C5'-O5'-P-NZ
1	J	251	APK	C5'-O5'-P-NZ
1	K	251	APK	C5'-O5'-P-NZ
1	L	251	APK	C5'-O5'-P-NZ
1	M	251	APK	C5'-O5'-P-NZ
1	N	251	APK	C5'-O5'-P-NZ
1	O	251	APK	C5'-O5'-P-NZ
1	P	251	APK	C5'-O5'-P-NZ
1	A	251	APK	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
1	B	251	APK	C3'-C4'-C5'-O5'
1	C	251	APK	C3'-C4'-C5'-O5'
1	D	251	APK	C3'-C4'-C5'-O5'
1	E	251	APK	C3'-C4'-C5'-O5'
1	F	251	APK	C3'-C4'-C5'-O5'
1	G	251	APK	C3'-C4'-C5'-O5'
1	H	251	APK	C3'-C4'-C5'-O5'
1	I	251	APK	C3'-C4'-C5'-O5'
1	J	251	APK	C3'-C4'-C5'-O5'
1	K	251	APK	C3'-C4'-C5'-O5'
1	L	251	APK	C3'-C4'-C5'-O5'
1	M	251	APK	C3'-C4'-C5'-O5'
1	N	251	APK	C3'-C4'-C5'-O5'
1	O	251	APK	C3'-C4'-C5'-O5'
1	P	251	APK	C3'-C4'-C5'-O5'
1	A	251	APK	C5'-O5'-P-O1P
1	B	251	APK	C5'-O5'-P-O1P
1	C	251	APK	C5'-O5'-P-O1P
1	D	251	APK	C5'-O5'-P-O1P
1	E	251	APK	C5'-O5'-P-O1P
1	F	251	APK	C5'-O5'-P-O1P
1	G	251	APK	C5'-O5'-P-O1P
1	H	251	APK	C5'-O5'-P-O1P
1	I	251	APK	C5'-O5'-P-O1P
1	J	251	APK	C5'-O5'-P-O1P
1	K	251	APK	C5'-O5'-P-O1P
1	L	251	APK	C5'-O5'-P-O1P
1	M	251	APK	C5'-O5'-P-O1P
1	N	251	APK	C5'-O5'-P-O1P
1	O	251	APK	C5'-O5'-P-O1P
1	P	251	APK	C5'-O5'-P-O1P

There are no ring outliers.

16 monomers are involved in 99 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	251	APK	6	0
1	D	251	APK	7	0
1	P	251	APK	6	0
1	J	251	APK	6	0
1	E	251	APK	6	0
1	G	251	APK	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	I	251	APK	6	0
1	L	251	APK	7	0
1	N	251	APK	6	0
1	F	251	APK	6	0
1	B	251	APK	6	0
1	H	251	APK	6	0
1	O	251	APK	5	0
1	M	251	APK	6	0
1	C	251	APK	7	0
1	K	251	APK	7	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

16 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	DTP	B	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	A	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	H	1501	-	28,32,32	3.81	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	J	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)
2	DTP	C	1501	-	28,32,32	3.81	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	M	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)
2	DTP	N	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)
2	DTP	O	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)
2	DTP	P	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)
2	DTP	D	1501	-	28,32,32	3.81	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	K	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	DTP	E	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	G	1501	-	28,32,32	3.81	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	L	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)
2	DTP	F	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.37	6 (17%)
2	DTP	I	1501	-	28,32,32	3.80	10 (35%)	35,50,50	2.35	5 (14%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	DTP	B	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	A	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	H	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	J	1501	-	-	4/18/34/34	0/3/3/3
2	DTP	C	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	M	1501	-	-	4/18/34/34	0/3/3/3
2	DTP	N	1501	-	-	4/18/34/34	0/3/3/3
2	DTP	O	1501	-	-	4/18/34/34	0/3/3/3
2	DTP	P	1501	-	-	4/18/34/34	0/3/3/3
2	DTP	D	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	K	1501	-	-	4/18/34/34	0/3/3/3
2	DTP	E	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	G	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	L	1501	-	-	4/18/34/34	0/3/3/3
2	DTP	F	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	I	1501	-	-	4/18/34/34	0/3/3/3

All (160) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1501	DTP	C2'-C3'	-12.88	1.20	1.52
2	D	1501	DTP	C2'-C3'	-12.88	1.20	1.52
2	M	1501	DTP	C2'-C3'	-12.88	1.20	1.52
2	G	1501	DTP	C2'-C3'	-12.87	1.20	1.52
2	F	1501	DTP	C2'-C3'	-12.87	1.20	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1501	DTP	C2'-C3'	-12.87	1.20	1.52
2	I	1501	DTP	C2'-C3'	-12.87	1.20	1.52
2	O	1501	DTP	C2'-C3'	-12.87	1.20	1.52
2	A	1501	DTP	C2'-C3'	-12.86	1.20	1.52
2	L	1501	DTP	C2'-C3'	-12.86	1.20	1.52
2	H	1501	DTP	C2'-C3'	-12.86	1.20	1.52
2	J	1501	DTP	C2'-C3'	-12.86	1.20	1.52
2	K	1501	DTP	C2'-C3'	-12.85	1.20	1.52
2	E	1501	DTP	C2'-C3'	-12.85	1.20	1.52
2	N	1501	DTP	C2'-C3'	-12.85	1.20	1.52
2	P	1501	DTP	C2'-C3'	-12.84	1.20	1.52
2	P	1501	DTP	O4'-C4'	-8.84	1.25	1.45
2	C	1501	DTP	O4'-C4'	-8.83	1.25	1.45
2	E	1501	DTP	O4'-C4'	-8.83	1.25	1.45
2	B	1501	DTP	O4'-C4'	-8.82	1.25	1.45
2	D	1501	DTP	O4'-C4'	-8.82	1.25	1.45
2	H	1501	DTP	O4'-C4'	-8.82	1.25	1.45
2	J	1501	DTP	O4'-C4'	-8.81	1.25	1.45
2	K	1501	DTP	O4'-C4'	-8.81	1.25	1.45
2	A	1501	DTP	O4'-C4'	-8.81	1.25	1.45
2	G	1501	DTP	O4'-C4'	-8.80	1.25	1.45
2	N	1501	DTP	O4'-C4'	-8.80	1.25	1.45
2	I	1501	DTP	O4'-C4'	-8.80	1.25	1.45
2	M	1501	DTP	O4'-C4'	-8.80	1.25	1.45
2	F	1501	DTP	O4'-C4'	-8.79	1.25	1.45
2	L	1501	DTP	O4'-C4'	-8.79	1.25	1.45
2	O	1501	DTP	O4'-C4'	-8.78	1.25	1.45
2	G	1501	DTP	C1'-N9	-7.82	1.27	1.49
2	H	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	I	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	M	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	E	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	J	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	N	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	B	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	D	1501	DTP	C1'-N9	-7.81	1.27	1.49
2	C	1501	DTP	C1'-N9	-7.80	1.27	1.49
2	K	1501	DTP	C1'-N9	-7.80	1.27	1.49
2	A	1501	DTP	C1'-N9	-7.80	1.27	1.49
2	L	1501	DTP	C1'-N9	-7.79	1.27	1.49
2	P	1501	DTP	C1'-N9	-7.79	1.27	1.49
2	O	1501	DTP	C1'-N9	-7.78	1.27	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	1501	DTP	C1'-N9	-7.77	1.27	1.49
2	F	1501	DTP	PB-O3A	-4.10	1.55	1.59
2	K	1501	DTP	PB-O3A	-4.05	1.55	1.59
2	D	1501	DTP	PB-O3A	-4.05	1.55	1.59
2	H	1501	DTP	PB-O3A	-4.05	1.55	1.59
2	J	1501	DTP	PB-O3A	-4.03	1.55	1.59
2	B	1501	DTP	PB-O3A	-4.02	1.55	1.59
2	L	1501	DTP	PB-O3A	-4.02	1.55	1.59
2	I	1501	DTP	PB-O3A	-4.02	1.55	1.59
2	M	1501	DTP	PB-O3A	-4.02	1.55	1.59
2	A	1501	DTP	PB-O3A	-4.01	1.55	1.59
2	G	1501	DTP	PB-O3A	-4.01	1.55	1.59
2	O	1501	DTP	PB-O3A	-4.00	1.55	1.59
2	C	1501	DTP	PB-O3A	-4.00	1.55	1.59
2	N	1501	DTP	PB-O3A	-4.00	1.55	1.59
2	E	1501	DTP	PB-O3A	-4.00	1.55	1.59
2	P	1501	DTP	PB-O3A	-3.97	1.55	1.59
2	H	1501	DTP	C3'-C4'	3.94	1.63	1.53
2	O	1501	DTP	C3'-C4'	3.93	1.63	1.53
2	F	1501	DTP	C3'-C4'	3.93	1.63	1.53
2	G	1501	DTP	C3'-C4'	3.93	1.63	1.53
2	D	1501	DTP	C3'-C4'	3.93	1.63	1.53
2	M	1501	DTP	C3'-C4'	3.93	1.63	1.53
2	E	1501	DTP	C3'-C4'	3.93	1.63	1.53
2	B	1501	DTP	C3'-C4'	3.92	1.63	1.53
2	C	1501	DTP	C3'-C4'	3.92	1.63	1.53
2	A	1501	DTP	C3'-C4'	3.92	1.63	1.53
2	P	1501	DTP	C3'-C4'	3.92	1.63	1.53
2	L	1501	DTP	C3'-C4'	3.91	1.63	1.53
2	J	1501	DTP	C3'-C4'	3.91	1.63	1.53
2	K	1501	DTP	C3'-C4'	3.91	1.63	1.53
2	I	1501	DTP	C3'-C4'	3.90	1.63	1.53
2	N	1501	DTP	C3'-C4'	3.89	1.63	1.53
2	H	1501	DTP	PB-O3B	-3.65	1.55	1.59
2	J	1501	DTP	PB-O3B	-3.64	1.55	1.59
2	C	1501	DTP	PB-O3B	-3.63	1.55	1.59
2	O	1501	DTP	PB-O3B	-3.62	1.55	1.59
2	A	1501	DTP	PB-O3B	-3.61	1.55	1.59
2	B	1501	DTP	PB-O3B	-3.60	1.55	1.59
2	D	1501	DTP	PB-O3B	-3.59	1.55	1.59
2	F	1501	DTP	PB-O3B	-3.59	1.55	1.59
2	P	1501	DTP	PB-O3B	-3.58	1.55	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	1501	DTP	PB-O3B	-3.58	1.55	1.59
2	N	1501	DTP	PB-O3B	-3.58	1.55	1.59
2	G	1501	DTP	PB-O3B	-3.58	1.55	1.59
2	O	1501	DTP	PA-O3A	-3.57	1.55	1.59
2	P	1501	DTP	PA-O3A	-3.57	1.55	1.59
2	M	1501	DTP	PB-O3B	-3.56	1.55	1.59
2	K	1501	DTP	PB-O3B	-3.55	1.55	1.59
2	L	1501	DTP	PB-O3B	-3.55	1.55	1.59
2	C	1501	DTP	PA-O3A	-3.54	1.55	1.59
2	M	1501	DTP	PA-O3A	-3.54	1.55	1.59
2	G	1501	DTP	PA-O3A	-3.52	1.55	1.59
2	D	1501	DTP	PA-O3A	-3.51	1.55	1.59
2	K	1501	DTP	PA-O3A	-3.51	1.55	1.59
2	A	1501	DTP	PA-O3A	-3.51	1.55	1.59
2	F	1501	DTP	PA-O3A	-3.50	1.55	1.59
2	I	1501	DTP	PB-O3B	-3.50	1.55	1.59
2	I	1501	DTP	PA-O3A	-3.49	1.55	1.59
2	E	1501	DTP	PA-O3A	-3.48	1.55	1.59
2	J	1501	DTP	PA-O3A	-3.48	1.55	1.59
2	N	1501	DTP	PA-O3A	-3.48	1.55	1.59
2	B	1501	DTP	PA-O3A	-3.47	1.55	1.59
2	L	1501	DTP	PA-O3A	-3.46	1.55	1.59
2	H	1501	DTP	PA-O3A	-3.46	1.55	1.59
2	I	1501	DTP	O4'-C1'	3.33	1.49	1.42
2	E	1501	DTP	O4'-C1'	3.33	1.49	1.42
2	G	1501	DTP	O4'-C1'	3.32	1.49	1.42
2	P	1501	DTP	O4'-C1'	3.31	1.49	1.42
2	C	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	B	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	A	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	M	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	J	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	K	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	O	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	L	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	D	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	F	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	H	1501	DTP	O4'-C1'	3.28	1.49	1.42
2	N	1501	DTP	O4'-C1'	3.27	1.49	1.42
2	L	1501	DTP	O3'-C3'	2.50	1.48	1.43
2	I	1501	DTP	O3'-C3'	2.48	1.48	1.43
2	H	1501	DTP	O3'-C3'	2.47	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	1501	DTP	O3'-C3'	2.47	1.48	1.43
2	E	1501	DTP	O3'-C3'	2.47	1.48	1.43
2	G	1501	DTP	O3'-C3'	2.47	1.48	1.43
2	D	1501	DTP	O3'-C3'	2.47	1.48	1.43
2	J	1501	DTP	O3'-C3'	2.47	1.48	1.43
2	F	1501	DTP	O3'-C3'	2.46	1.48	1.43
2	A	1501	DTP	O3'-C3'	2.46	1.48	1.43
2	C	1501	DTP	O3'-C3'	2.46	1.48	1.43
2	B	1501	DTP	O3'-C3'	2.46	1.48	1.43
2	P	1501	DTP	O3'-C3'	2.46	1.48	1.43
2	N	1501	DTP	O3'-C3'	2.45	1.48	1.43
2	O	1501	DTP	O3'-C3'	2.44	1.48	1.43
2	K	1501	DTP	O3'-C3'	2.42	1.48	1.43
2	O	1501	DTP	C6-C5	-2.20	1.35	1.43
2	C	1501	DTP	C6-C5	-2.20	1.35	1.43
2	L	1501	DTP	C6-C5	-2.20	1.35	1.43
2	J	1501	DTP	C6-C5	-2.20	1.35	1.43
2	I	1501	DTP	C6-C5	-2.19	1.35	1.43
2	G	1501	DTP	C6-C5	-2.19	1.35	1.43
2	P	1501	DTP	C6-C5	-2.19	1.35	1.43
2	F	1501	DTP	C6-C5	-2.19	1.35	1.43
2	A	1501	DTP	C6-C5	-2.18	1.35	1.43
2	M	1501	DTP	C6-C5	-2.18	1.35	1.43
2	K	1501	DTP	C6-C5	-2.18	1.35	1.43
2	D	1501	DTP	C6-C5	-2.17	1.35	1.43
2	E	1501	DTP	C6-C5	-2.17	1.35	1.43
2	N	1501	DTP	C6-C5	-2.17	1.35	1.43
2	H	1501	DTP	C6-C5	-2.17	1.35	1.43
2	B	1501	DTP	C6-C5	-2.17	1.35	1.43

All (88) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	N	1501	DTP	C5-C6-N6	8.55	133.34	120.31
2	B	1501	DTP	C5-C6-N6	8.55	133.33	120.31
2	C	1501	DTP	C5-C6-N6	8.54	133.33	120.31
2	M	1501	DTP	C5-C6-N6	8.54	133.33	120.31
2	D	1501	DTP	C5-C6-N6	8.54	133.32	120.31
2	F	1501	DTP	C5-C6-N6	8.53	133.31	120.31
2	L	1501	DTP	C5-C6-N6	8.53	133.31	120.31
2	J	1501	DTP	C5-C6-N6	8.52	133.30	120.31
2	A	1501	DTP	C5-C6-N6	8.52	133.29	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1501	DTP	C5-C6-N6	8.52	133.29	120.31
2	G	1501	DTP	C5-C6-N6	8.52	133.28	120.31
2	K	1501	DTP	C5-C6-N6	8.51	133.27	120.31
2	P	1501	DTP	C5-C6-N6	8.51	133.27	120.31
2	O	1501	DTP	C5-C6-N6	8.49	133.25	120.31
2	I	1501	DTP	C5-C6-N6	8.49	133.25	120.31
2	E	1501	DTP	C5-C6-N6	8.48	133.24	120.31
2	P	1501	DTP	N3-C2-N1	-5.61	121.06	128.67
2	L	1501	DTP	N3-C2-N1	-5.60	121.07	128.67
2	H	1501	DTP	N3-C2-N1	-5.60	121.08	128.67
2	M	1501	DTP	N3-C2-N1	-5.59	121.08	128.67
2	E	1501	DTP	N3-C2-N1	-5.59	121.08	128.67
2	D	1501	DTP	N3-C2-N1	-5.58	121.09	128.67
2	K	1501	DTP	N3-C2-N1	-5.58	121.10	128.67
2	A	1501	DTP	N3-C2-N1	-5.57	121.11	128.67
2	J	1501	DTP	N3-C2-N1	-5.57	121.11	128.67
2	N	1501	DTP	N3-C2-N1	-5.57	121.11	128.67
2	I	1501	DTP	N3-C2-N1	-5.57	121.11	128.67
2	F	1501	DTP	N3-C2-N1	-5.56	121.12	128.67
2	G	1501	DTP	N3-C2-N1	-5.56	121.13	128.67
2	O	1501	DTP	N3-C2-N1	-5.55	121.14	128.67
2	C	1501	DTP	N3-C2-N1	-5.55	121.14	128.67
2	B	1501	DTP	N3-C2-N1	-5.54	121.15	128.67
2	O	1501	DTP	N6-C6-N1	-5.51	106.55	118.33
2	C	1501	DTP	N6-C6-N1	-5.51	106.56	118.33
2	J	1501	DTP	N6-C6-N1	-5.51	106.57	118.33
2	G	1501	DTP	N6-C6-N1	-5.50	106.58	118.33
2	B	1501	DTP	N6-C6-N1	-5.50	106.58	118.33
2	H	1501	DTP	N6-C6-N1	-5.50	106.58	118.33
2	M	1501	DTP	N6-C6-N1	-5.50	106.58	118.33
2	A	1501	DTP	N6-C6-N1	-5.50	106.58	118.33
2	L	1501	DTP	N6-C6-N1	-5.50	106.58	118.33
2	N	1501	DTP	N6-C6-N1	-5.50	106.58	118.33
2	D	1501	DTP	N6-C6-N1	-5.49	106.59	118.33
2	I	1501	DTP	N6-C6-N1	-5.49	106.59	118.33
2	E	1501	DTP	N6-C6-N1	-5.49	106.61	118.33
2	P	1501	DTP	N6-C6-N1	-5.48	106.61	118.33
2	F	1501	DTP	N6-C6-N1	-5.48	106.62	118.33
2	K	1501	DTP	N6-C6-N1	-5.48	106.62	118.33
2	N	1501	DTP	C2'-C1'-N9	-4.37	104.47	114.61
2	O	1501	DTP	C2'-C1'-N9	-4.37	104.48	114.61
2	K	1501	DTP	C2'-C1'-N9	-4.36	104.49	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	1501	DTP	C2'-C1'-N9	-4.36	104.50	114.61
2	I	1501	DTP	C2'-C1'-N9	-4.36	104.50	114.61
2	L	1501	DTP	C2'-C1'-N9	-4.36	104.50	114.61
2	G	1501	DTP	C2'-C1'-N9	-4.36	104.50	114.61
2	H	1501	DTP	C2'-C1'-N9	-4.35	104.50	114.61
2	M	1501	DTP	C2'-C1'-N9	-4.35	104.50	114.61
2	J	1501	DTP	C2'-C1'-N9	-4.35	104.51	114.61
2	A	1501	DTP	C2'-C1'-N9	-4.35	104.51	114.61
2	B	1501	DTP	C2'-C1'-N9	-4.35	104.52	114.61
2	E	1501	DTP	C2'-C1'-N9	-4.35	104.52	114.61
2	D	1501	DTP	C2'-C1'-N9	-4.34	104.53	114.61
2	P	1501	DTP	C2'-C1'-N9	-4.34	104.54	114.61
2	C	1501	DTP	C2'-C1'-N9	-4.34	104.55	114.61
2	C	1501	DTP	C4'-O4'-C1'	-3.53	101.14	109.51
2	B	1501	DTP	C4'-O4'-C1'	-3.53	101.14	109.51
2	F	1501	DTP	C4'-O4'-C1'	-3.52	101.15	109.51
2	E	1501	DTP	C4'-O4'-C1'	-3.52	101.16	109.51
2	O	1501	DTP	C4'-O4'-C1'	-3.52	101.16	109.51
2	I	1501	DTP	C4'-O4'-C1'	-3.52	101.17	109.51
2	A	1501	DTP	C4'-O4'-C1'	-3.51	101.17	109.51
2	P	1501	DTP	C4'-O4'-C1'	-3.51	101.18	109.51
2	M	1501	DTP	C4'-O4'-C1'	-3.51	101.19	109.51
2	K	1501	DTP	C4'-O4'-C1'	-3.50	101.19	109.51
2	L	1501	DTP	C4'-O4'-C1'	-3.50	101.19	109.51
2	D	1501	DTP	C4'-O4'-C1'	-3.50	101.20	109.51
2	G	1501	DTP	C4'-O4'-C1'	-3.50	101.20	109.51
2	H	1501	DTP	C4'-O4'-C1'	-3.50	101.20	109.51
2	J	1501	DTP	C4'-O4'-C1'	-3.50	101.20	109.51
2	N	1501	DTP	C4'-O4'-C1'	-3.49	101.23	109.51
2	C	1501	DTP	O2B-PB-O3B	3.22	115.98	107.27
2	H	1501	DTP	O2B-PB-O3B	3.21	115.96	107.27
2	D	1501	DTP	O2B-PB-O3B	3.21	115.96	107.27
2	E	1501	DTP	O2B-PB-O3B	3.21	115.96	107.27
2	F	1501	DTP	O2B-PB-O3B	3.21	115.95	107.27
2	B	1501	DTP	O2B-PB-O3B	3.21	115.95	107.27
2	A	1501	DTP	O2B-PB-O3B	3.21	115.94	107.27
2	G	1501	DTP	O2B-PB-O3B	3.19	115.89	107.27

There are no chirality outliers.

All (56) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1501	DTP	C3'-C4'-C5'-O5'
2	B	1501	DTP	C3'-C4'-C5'-O5'
2	C	1501	DTP	C3'-C4'-C5'-O5'
2	D	1501	DTP	C3'-C4'-C5'-O5'
2	E	1501	DTP	C3'-C4'-C5'-O5'
2	F	1501	DTP	C3'-C4'-C5'-O5'
2	G	1501	DTP	C3'-C4'-C5'-O5'
2	H	1501	DTP	C3'-C4'-C5'-O5'
2	I	1501	DTP	C3'-C4'-C5'-O5'
2	J	1501	DTP	C3'-C4'-C5'-O5'
2	K	1501	DTP	C3'-C4'-C5'-O5'
2	L	1501	DTP	C3'-C4'-C5'-O5'
2	M	1501	DTP	C3'-C4'-C5'-O5'
2	N	1501	DTP	C3'-C4'-C5'-O5'
2	O	1501	DTP	C3'-C4'-C5'-O5'
2	P	1501	DTP	C3'-C4'-C5'-O5'
2	A	1501	DTP	O4'-C4'-C5'-O5'
2	B	1501	DTP	O4'-C4'-C5'-O5'
2	C	1501	DTP	O4'-C4'-C5'-O5'
2	D	1501	DTP	O4'-C4'-C5'-O5'
2	E	1501	DTP	O4'-C4'-C5'-O5'
2	F	1501	DTP	O4'-C4'-C5'-O5'
2	G	1501	DTP	O4'-C4'-C5'-O5'
2	H	1501	DTP	O4'-C4'-C5'-O5'
2	I	1501	DTP	O4'-C4'-C5'-O5'
2	J	1501	DTP	O4'-C4'-C5'-O5'
2	K	1501	DTP	O4'-C4'-C5'-O5'
2	L	1501	DTP	O4'-C4'-C5'-O5'
2	M	1501	DTP	O4'-C4'-C5'-O5'
2	N	1501	DTP	O4'-C4'-C5'-O5'
2	O	1501	DTP	O4'-C4'-C5'-O5'
2	P	1501	DTP	O4'-C4'-C5'-O5'
2	I	1501	DTP	C5'-O5'-PA-O1A
2	J	1501	DTP	C5'-O5'-PA-O1A
2	K	1501	DTP	C5'-O5'-PA-O1A
2	L	1501	DTP	C5'-O5'-PA-O1A
2	M	1501	DTP	C5'-O5'-PA-O1A
2	N	1501	DTP	C5'-O5'-PA-O1A
2	O	1501	DTP	C5'-O5'-PA-O1A
2	P	1501	DTP	C5'-O5'-PA-O1A
2	A	1501	DTP	C4'-C5'-O5'-PA
2	B	1501	DTP	C4'-C5'-O5'-PA
2	C	1501	DTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
2	D	1501	DTP	C4'-C5'-O5'-PA
2	E	1501	DTP	C4'-C5'-O5'-PA
2	F	1501	DTP	C4'-C5'-O5'-PA
2	G	1501	DTP	C4'-C5'-O5'-PA
2	H	1501	DTP	C4'-C5'-O5'-PA
2	I	1501	DTP	C4'-C5'-O5'-PA
2	J	1501	DTP	C4'-C5'-O5'-PA
2	K	1501	DTP	C4'-C5'-O5'-PA
2	L	1501	DTP	C4'-C5'-O5'-PA
2	M	1501	DTP	C4'-C5'-O5'-PA
2	N	1501	DTP	C4'-C5'-O5'-PA
2	O	1501	DTP	C4'-C5'-O5'-PA
2	P	1501	DTP	C4'-C5'-O5'-PA

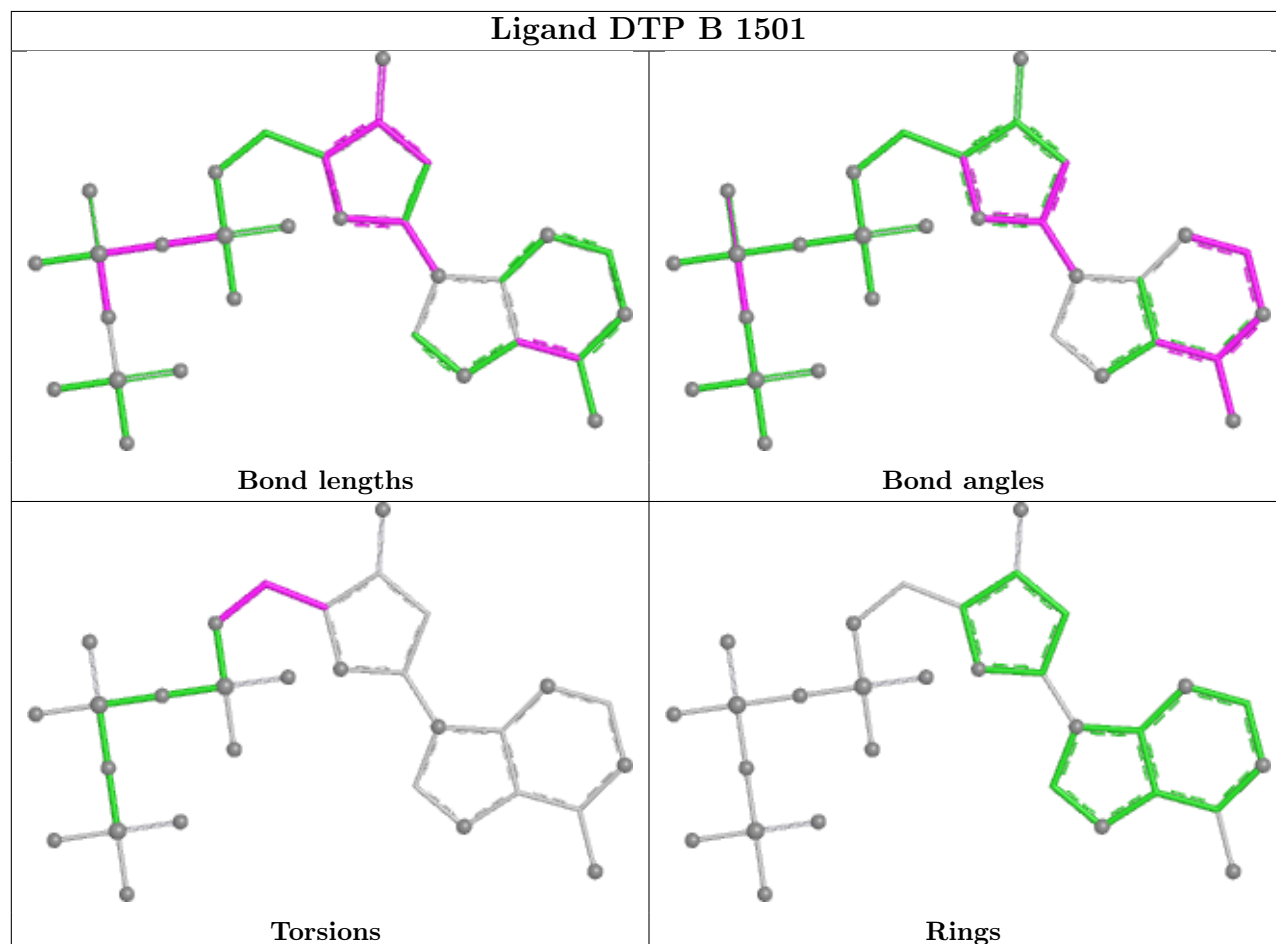
There are no ring outliers.

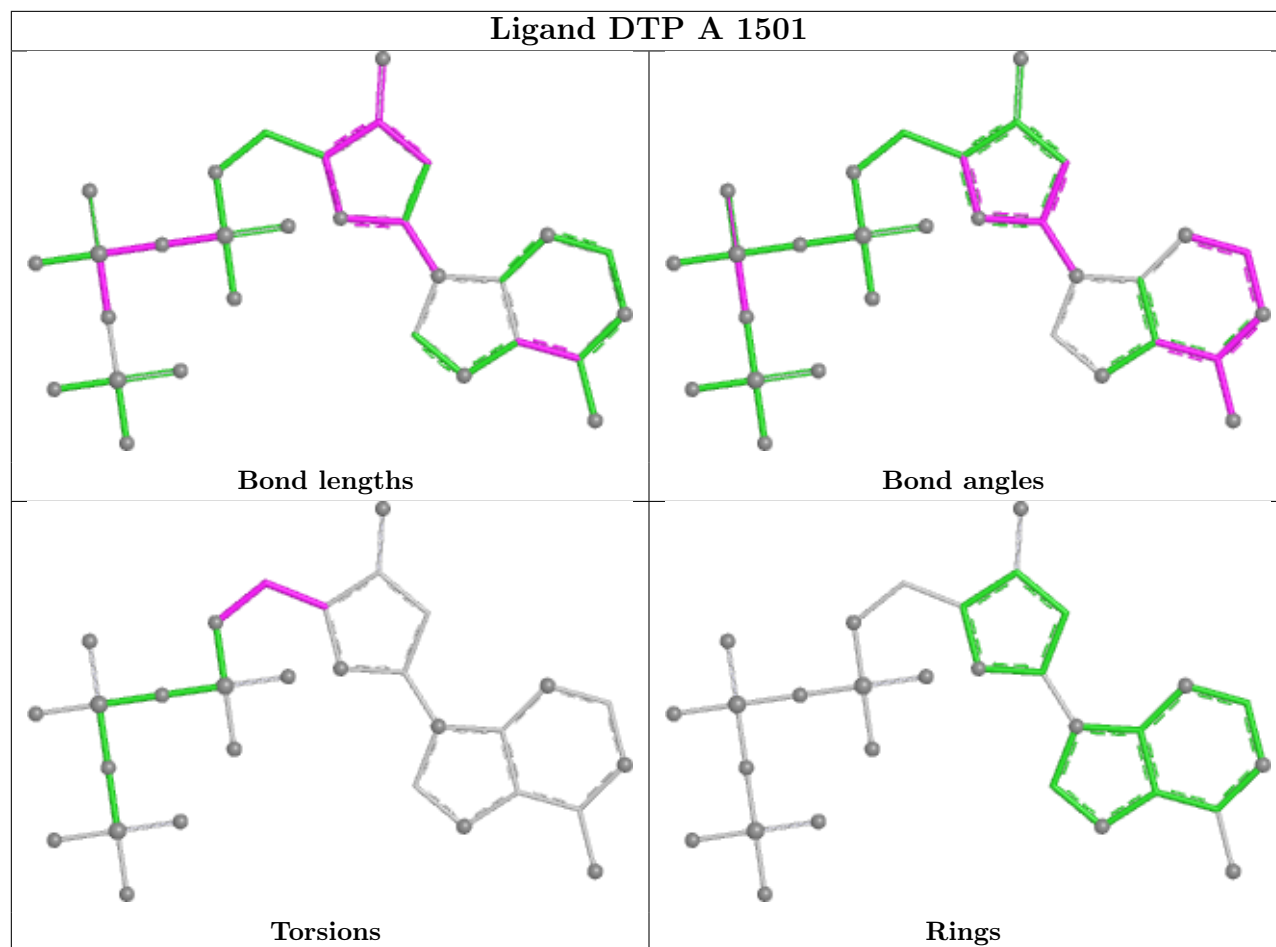
16 monomers are involved in 97 short contacts:

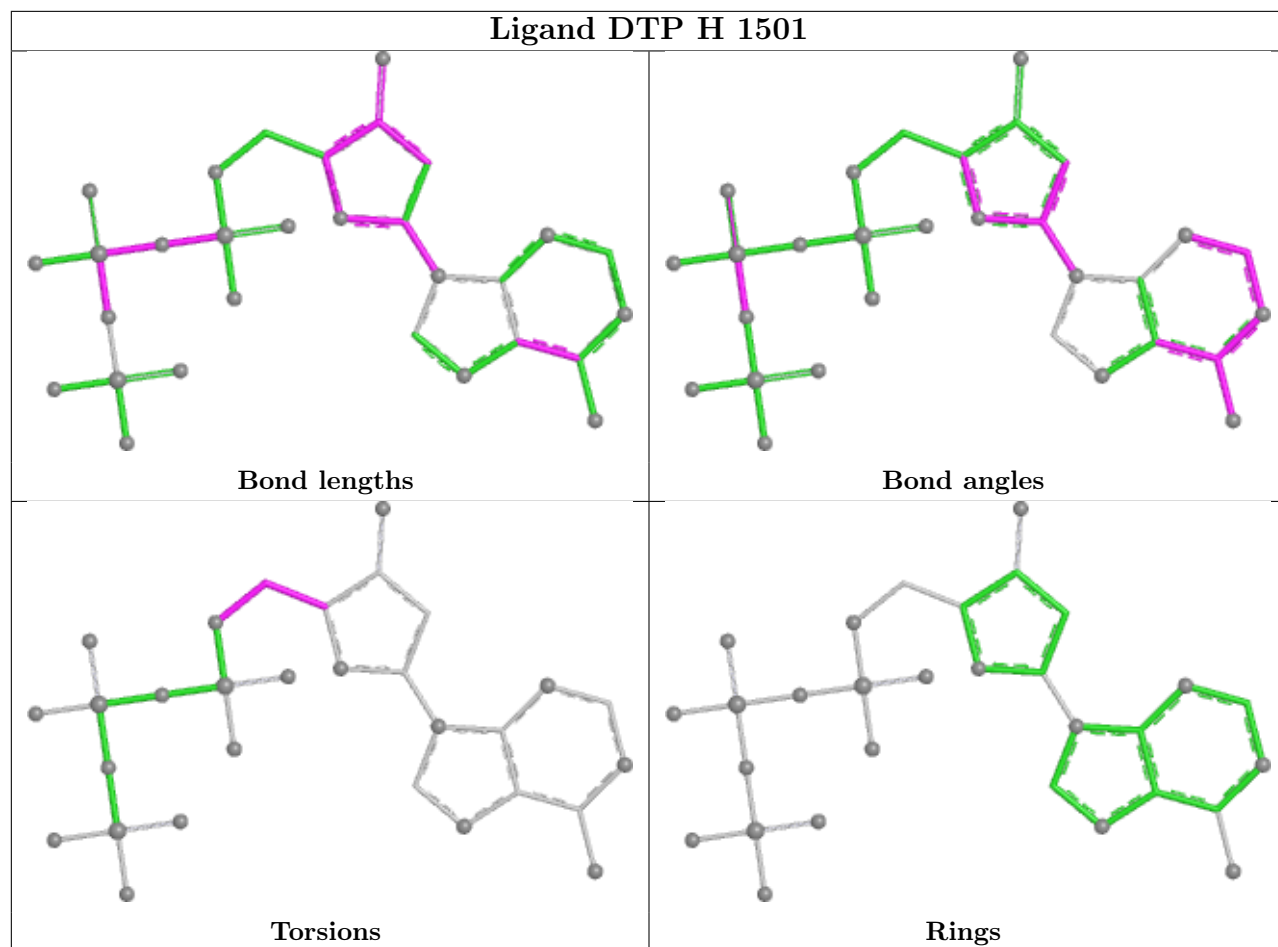
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1501	DTP	7	0
2	A	1501	DTP	6	0
2	H	1501	DTP	6	0
2	J	1501	DTP	6	0
2	C	1501	DTP	6	0
2	M	1501	DTP	6	0
2	N	1501	DTP	6	0
2	O	1501	DTP	6	0
2	P	1501	DTP	6	0
2	D	1501	DTP	6	0
2	K	1501	DTP	6	0
2	E	1501	DTP	6	0
2	G	1501	DTP	6	0
2	L	1501	DTP	6	0
2	F	1501	DTP	6	0
2	I	1501	DTP	6	0

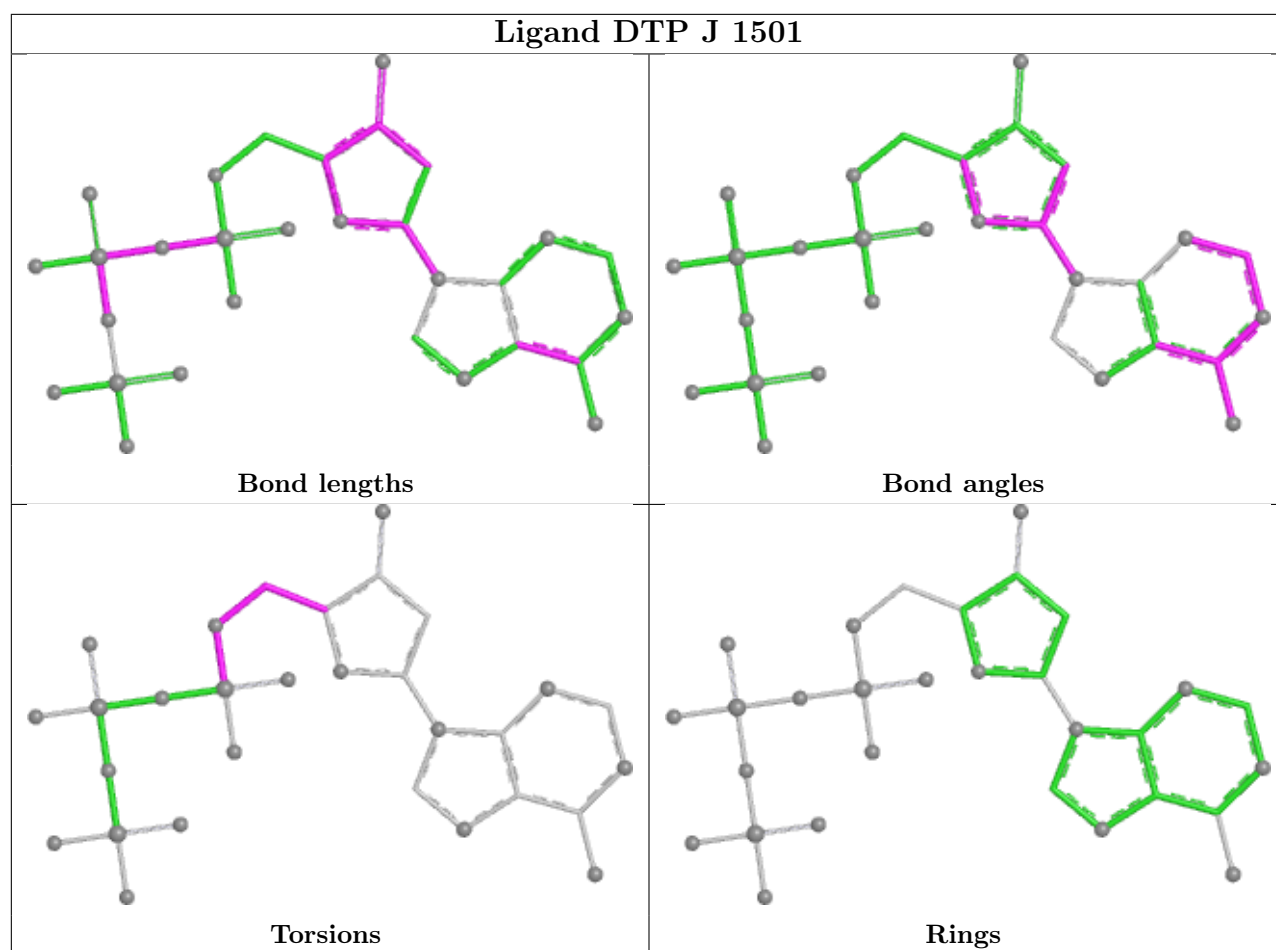
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring

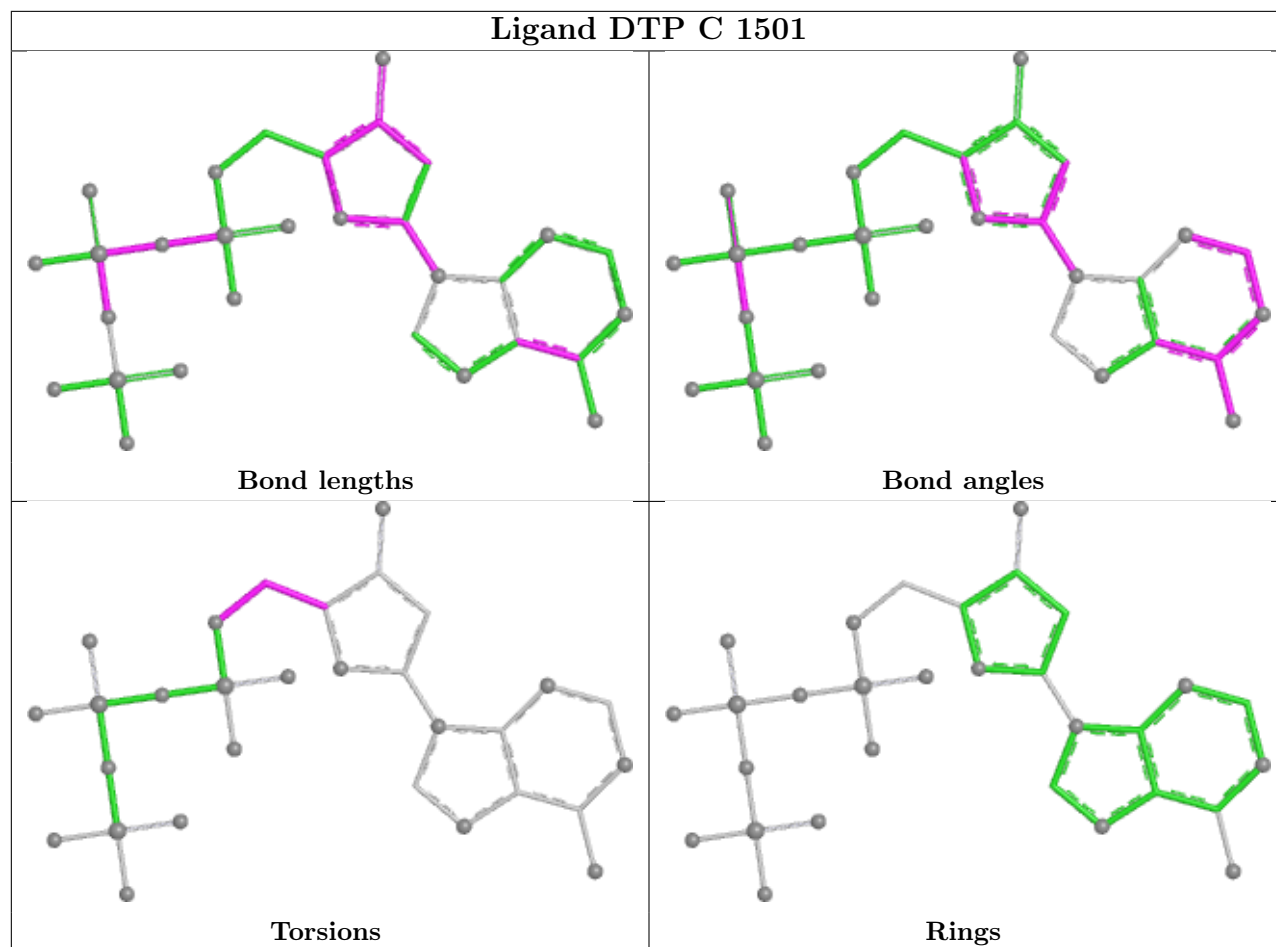
in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

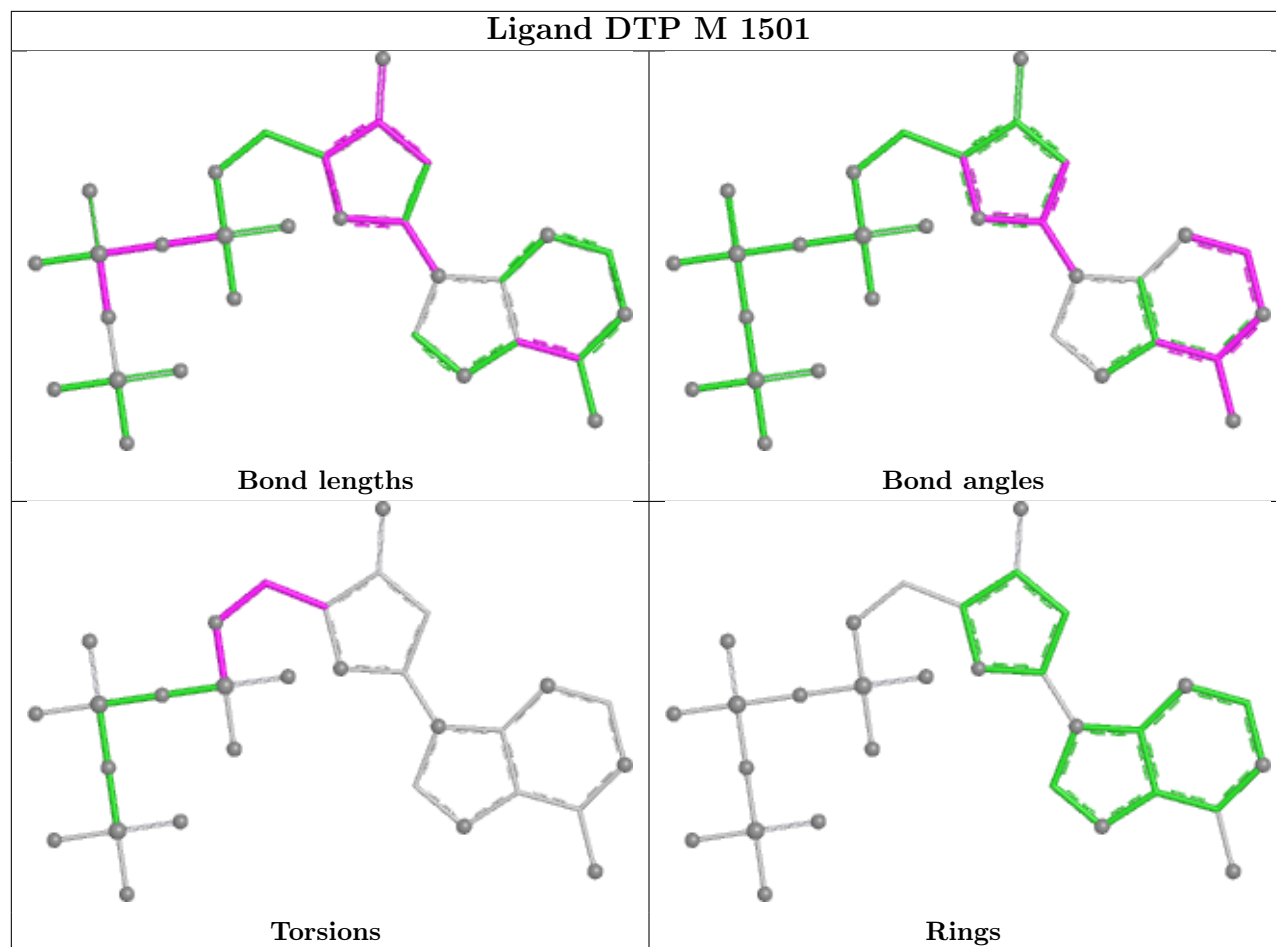


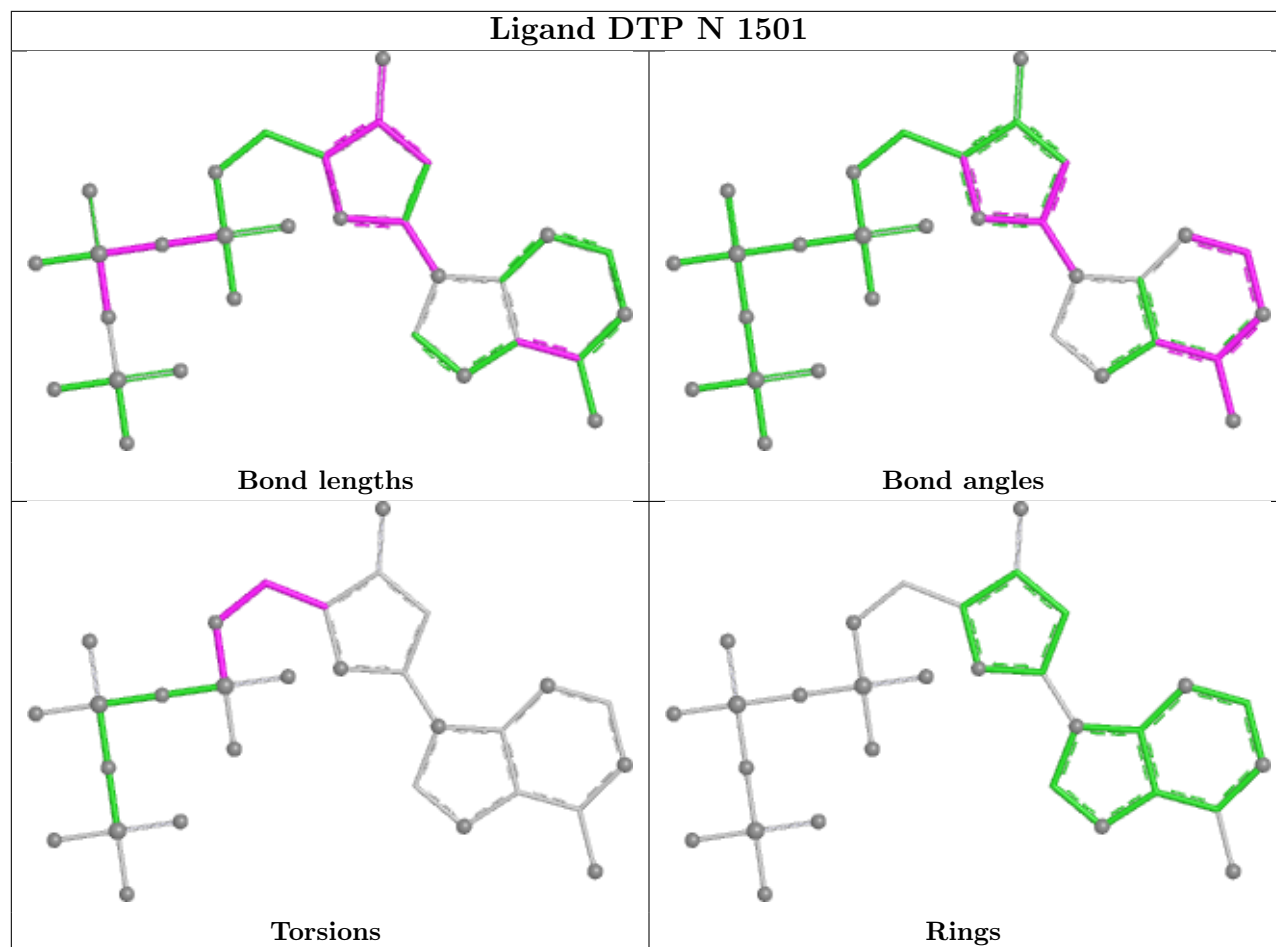


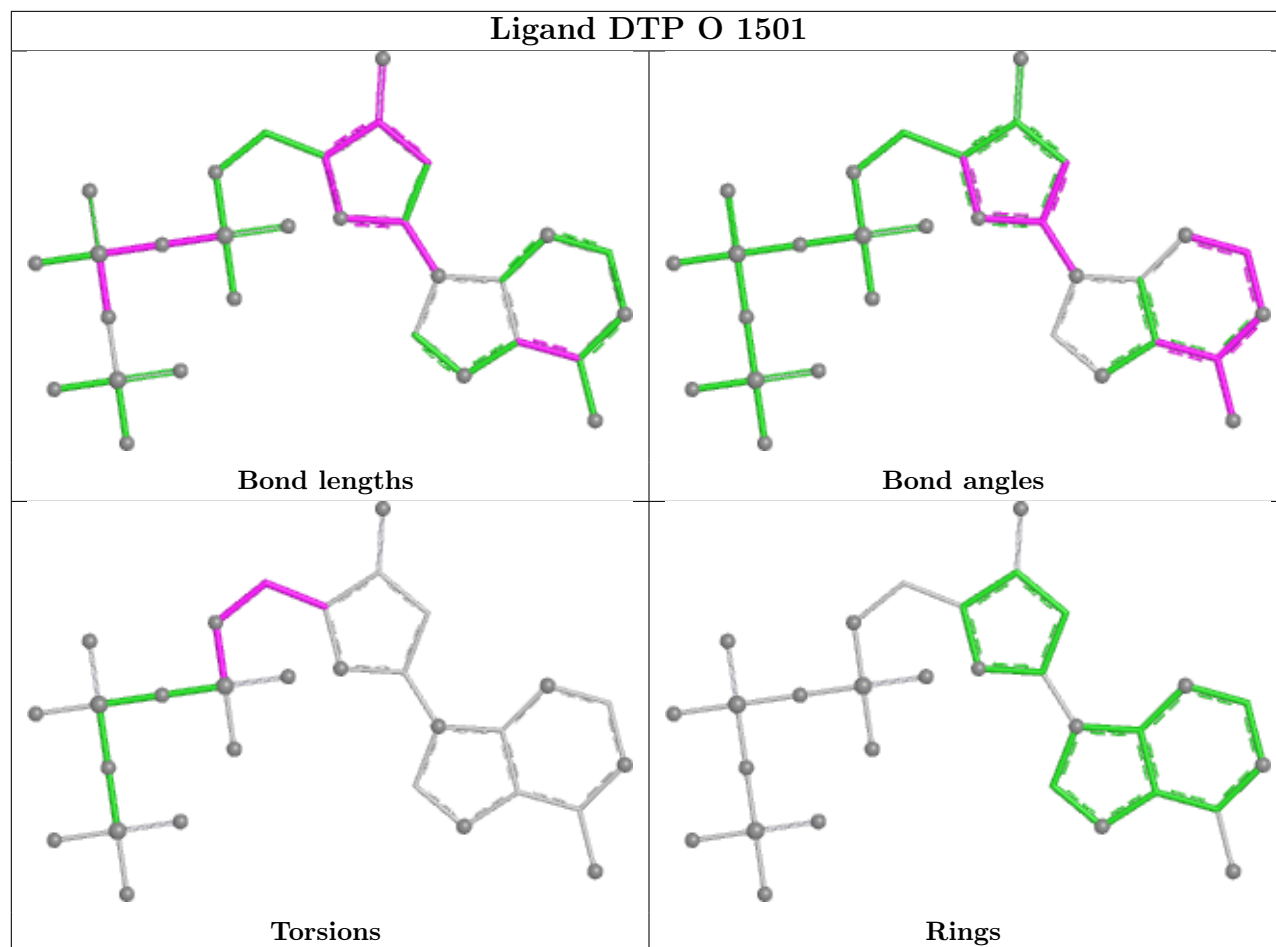


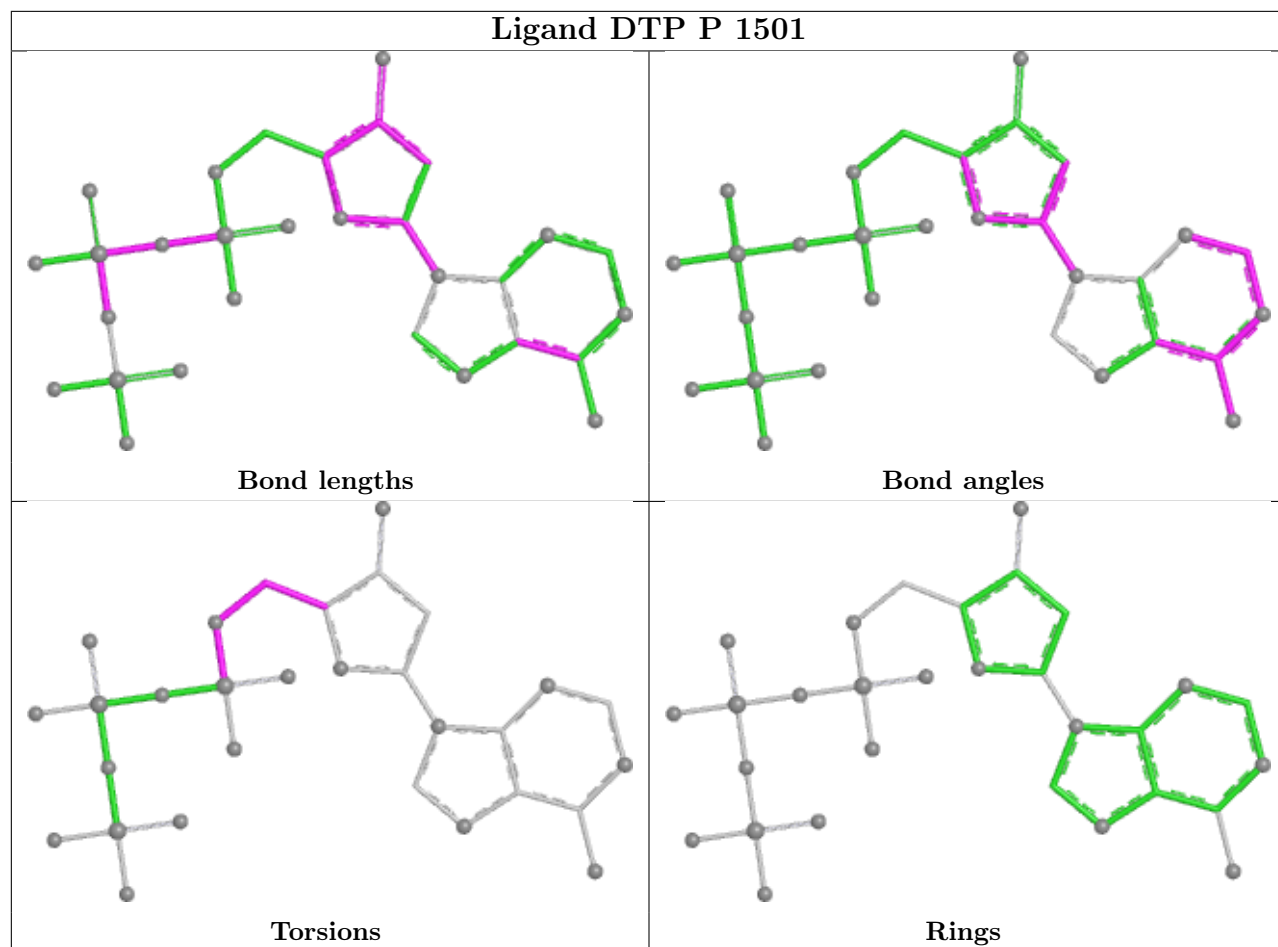


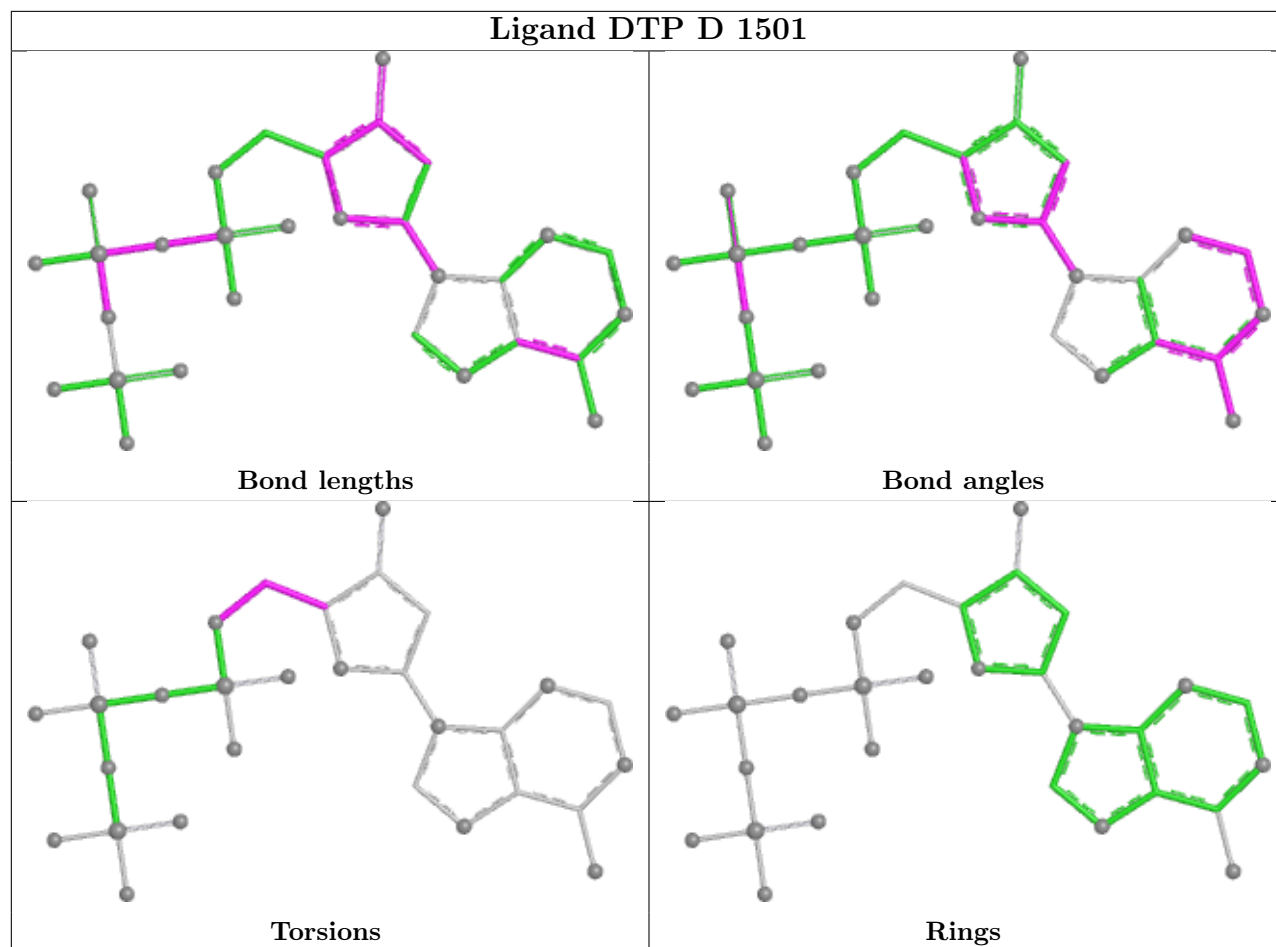


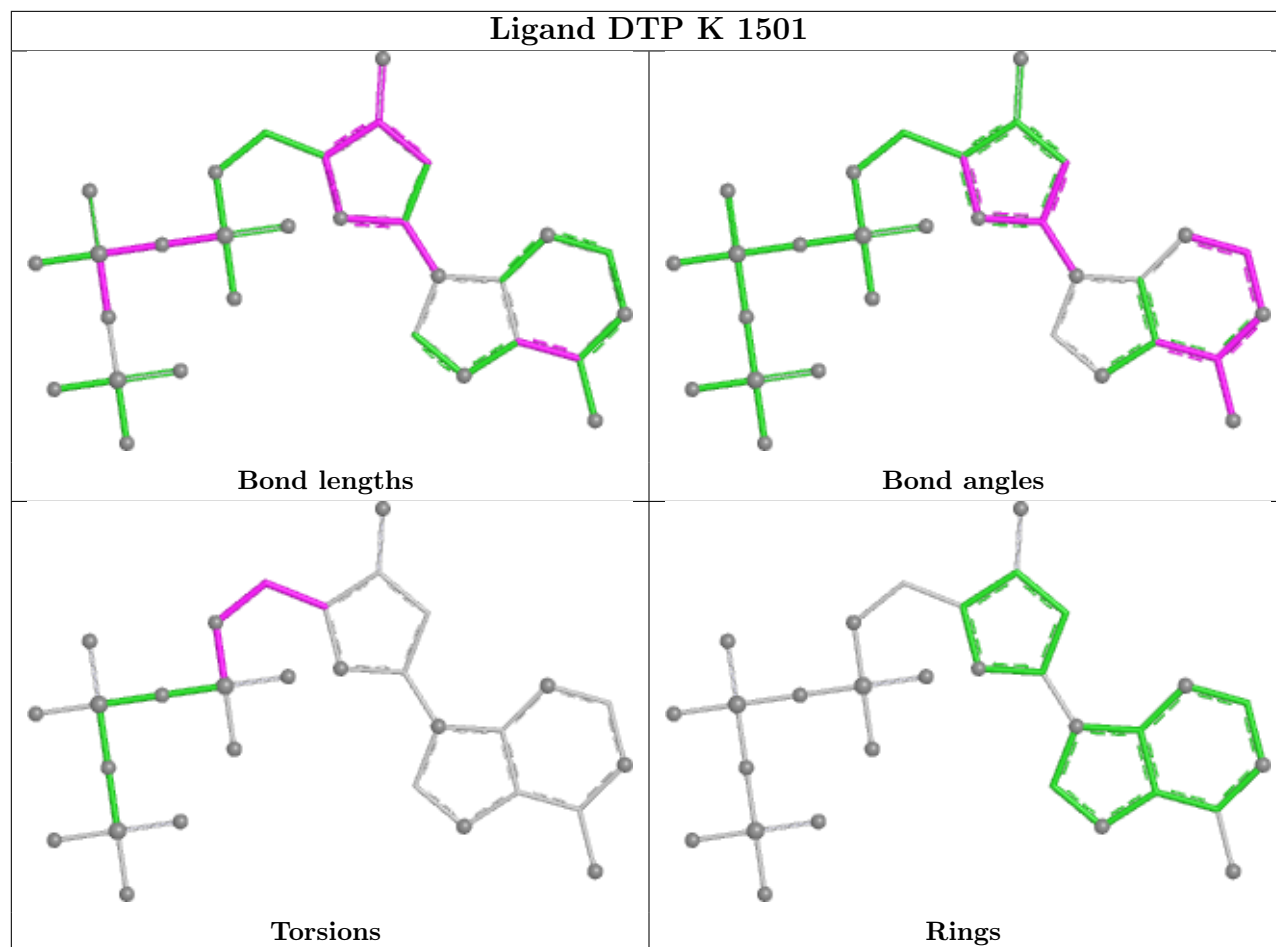


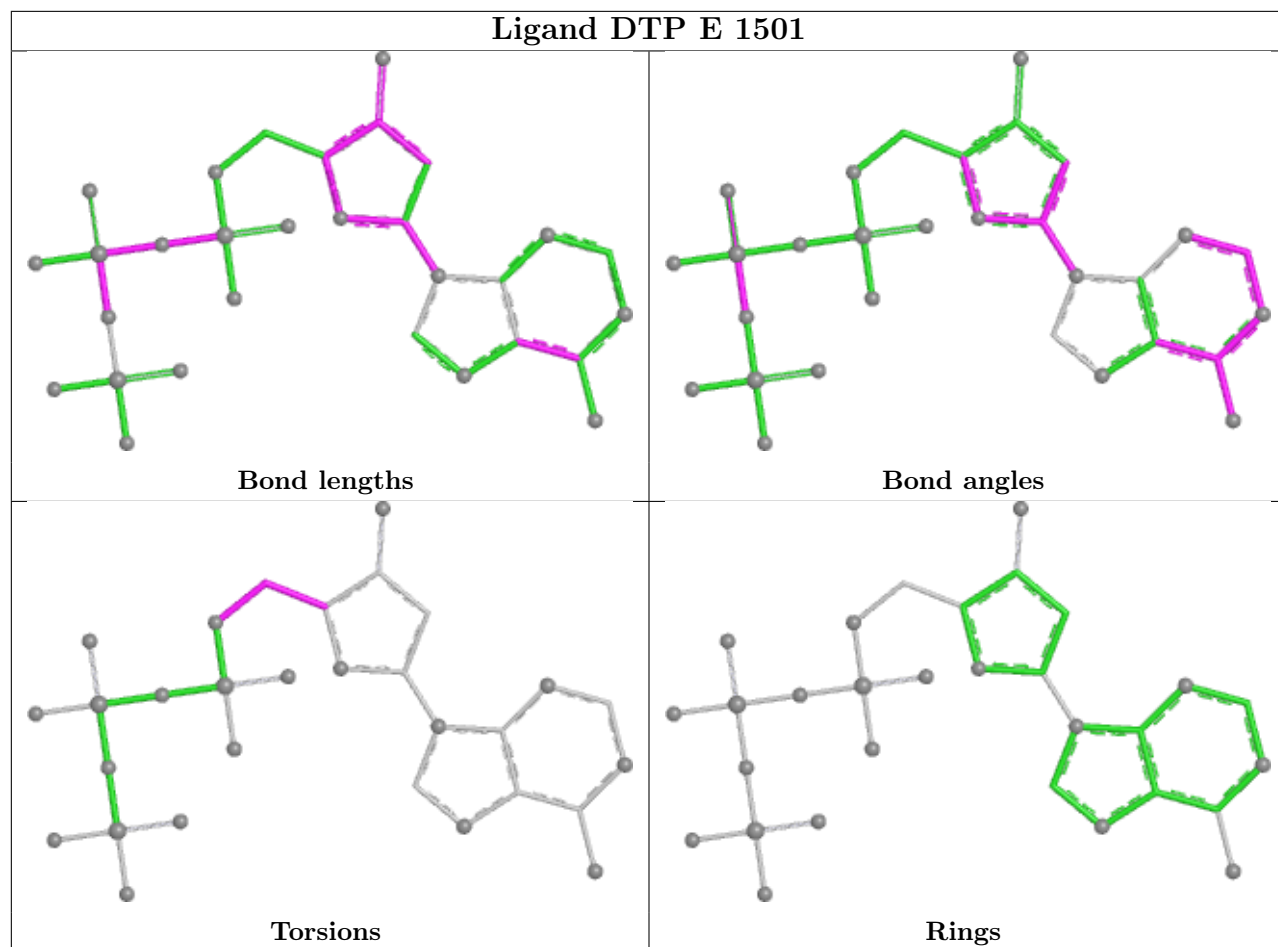


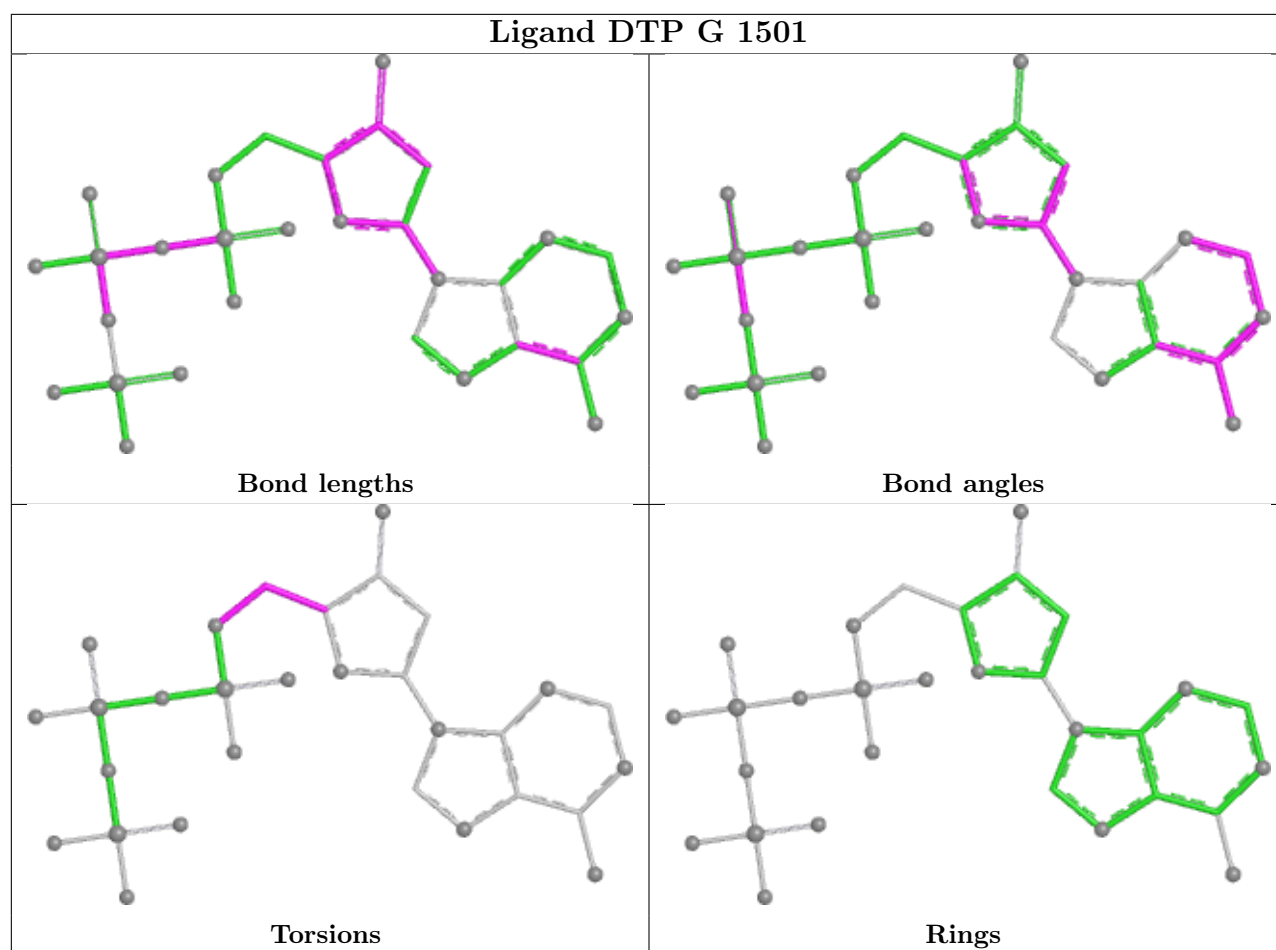


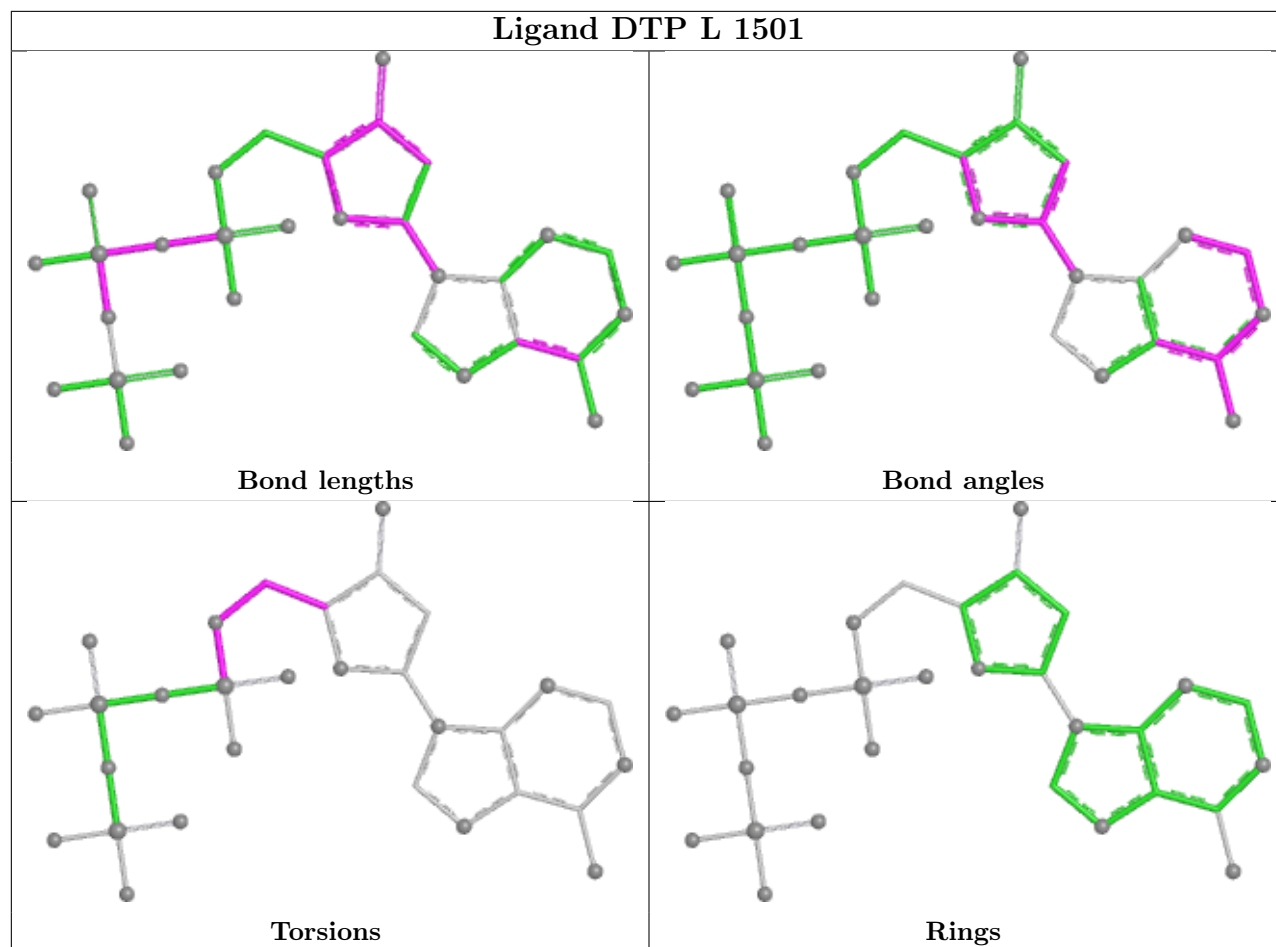


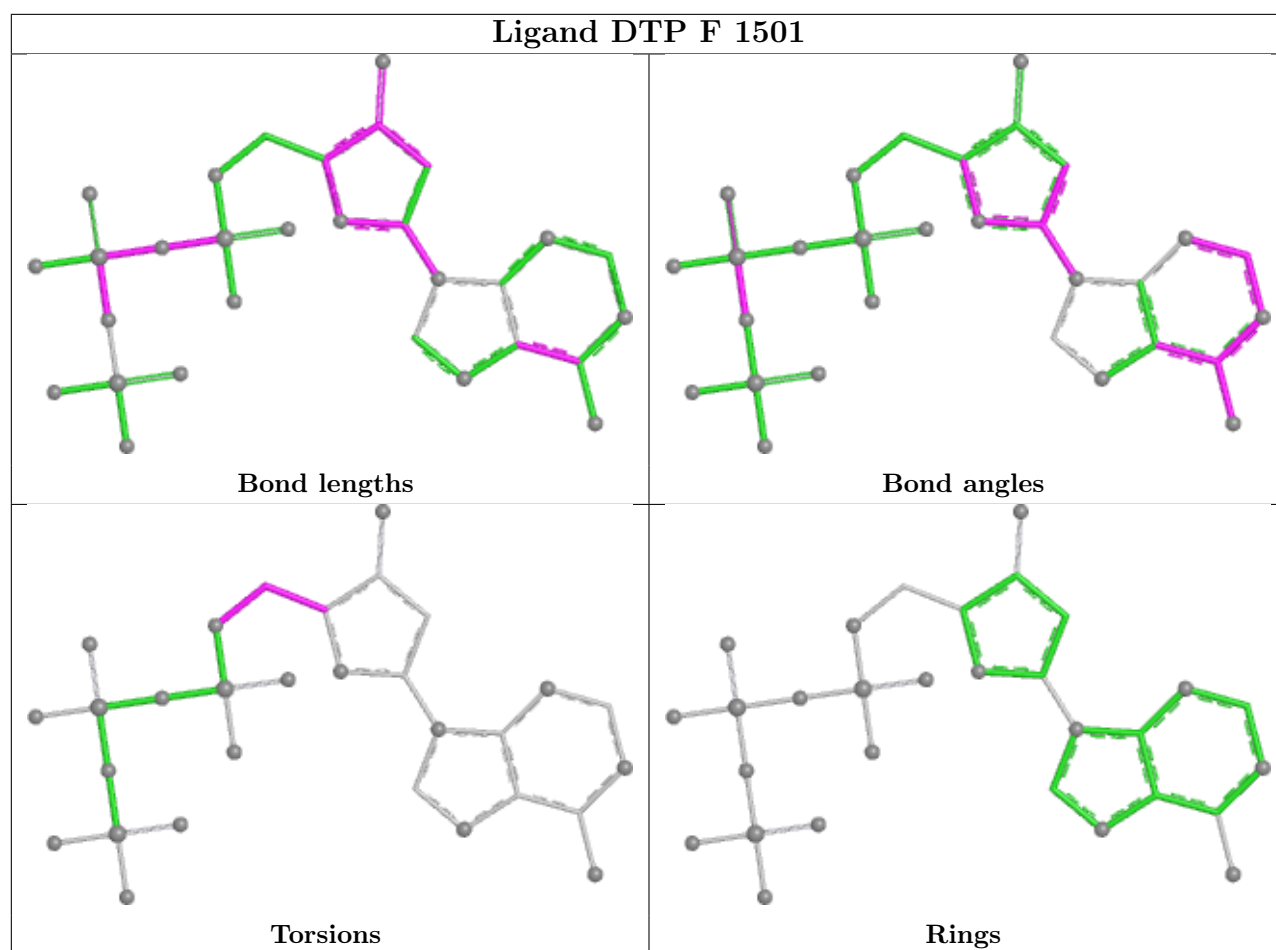


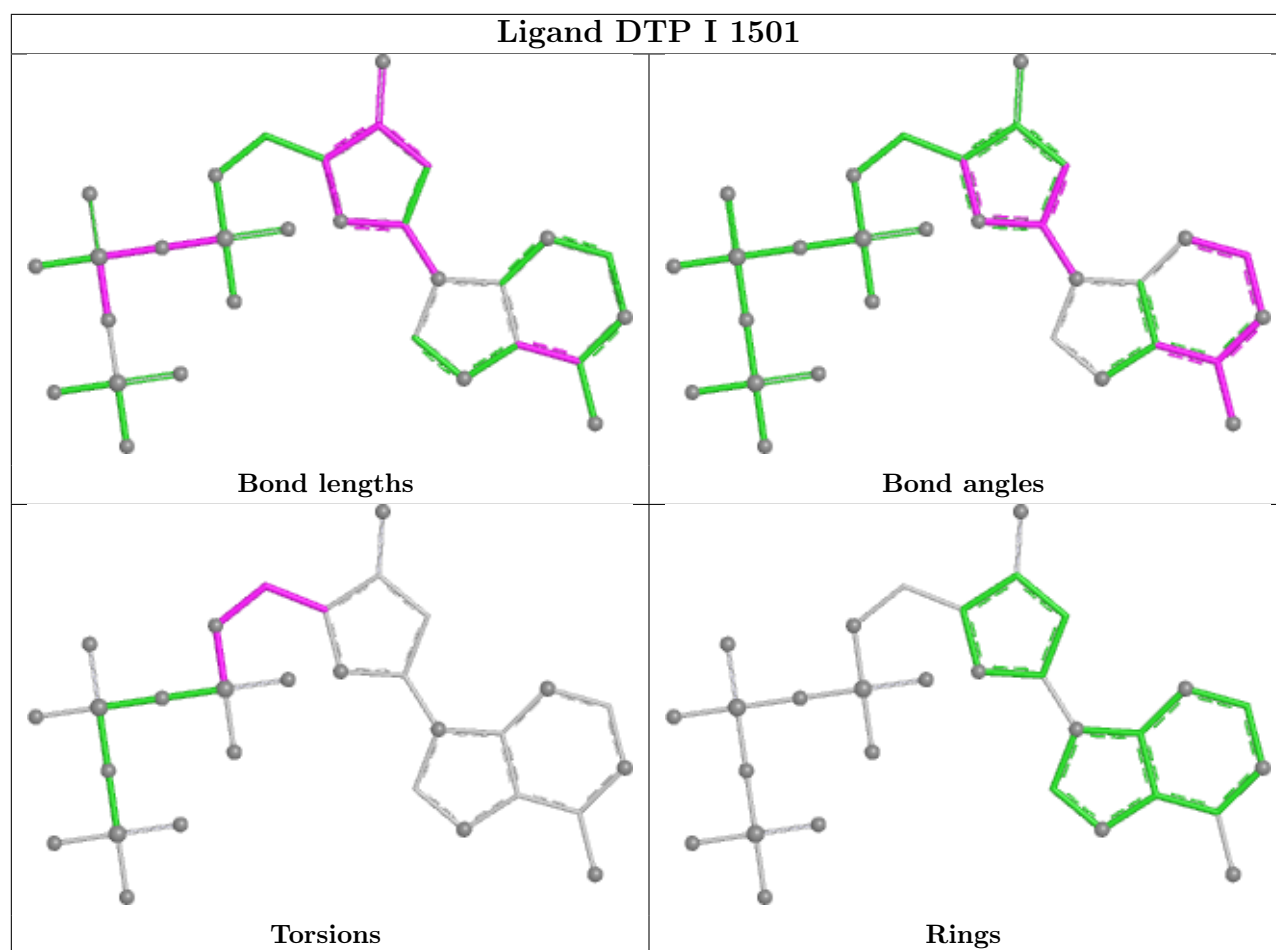












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

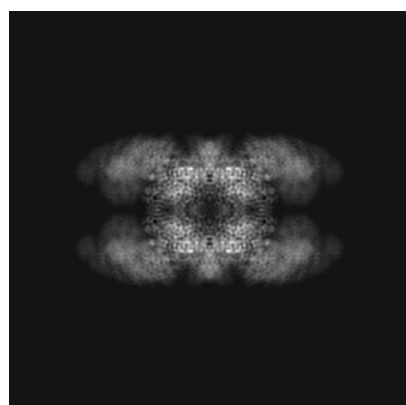
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8177. These allow visual inspection of the internal detail of the map and identification of artifacts.

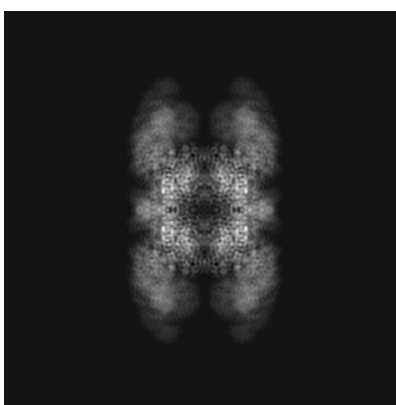
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

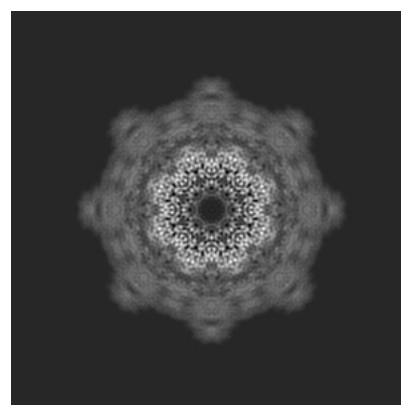
6.1.1 Primary map



X



Y

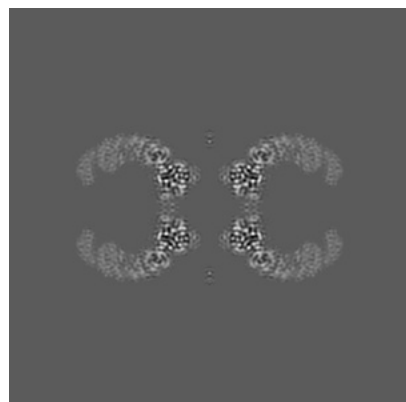


Z

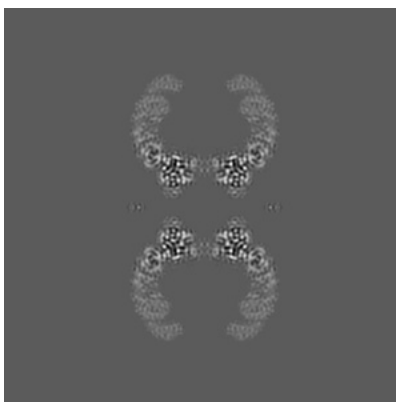
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 160



Y Index: 160

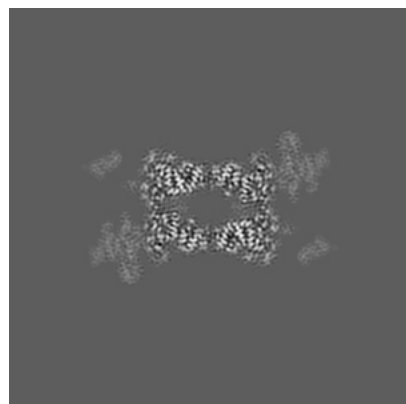


Z Index: 160

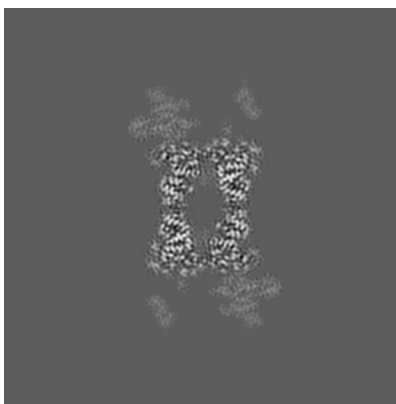
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

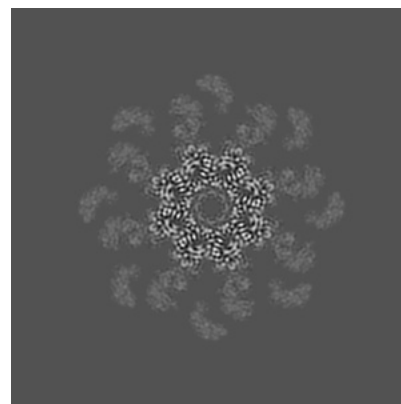
6.3.1 Primary map



X Index: 143



Y Index: 143

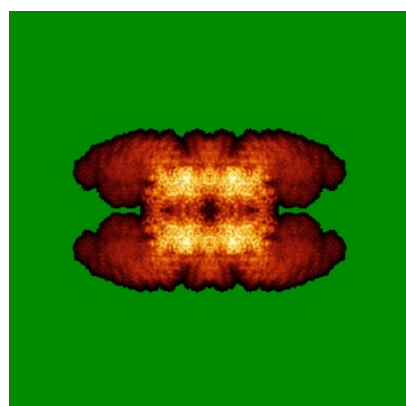


Z Index: 185

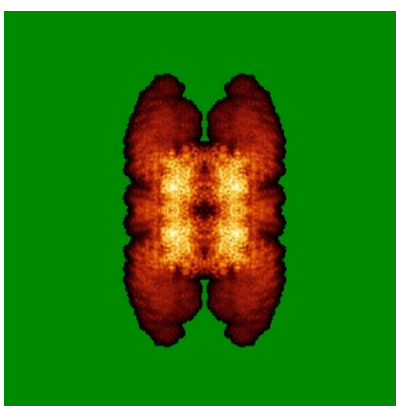
The images above show the largest variance slices of the map in three orthogonal directions.

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

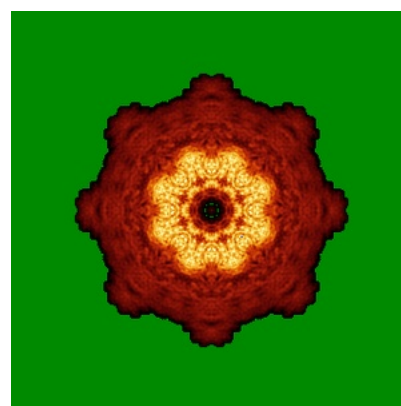
6.4.1 Primary map



X



Y

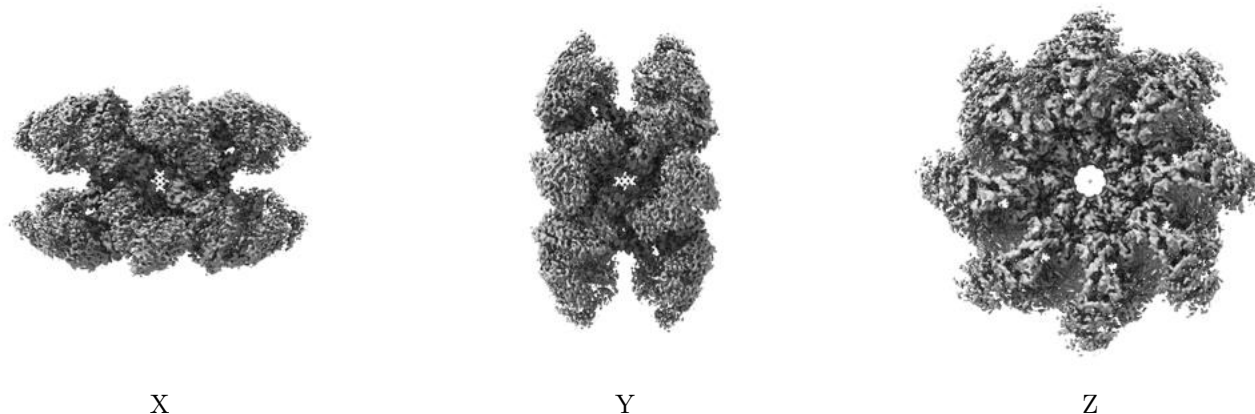


Z

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 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

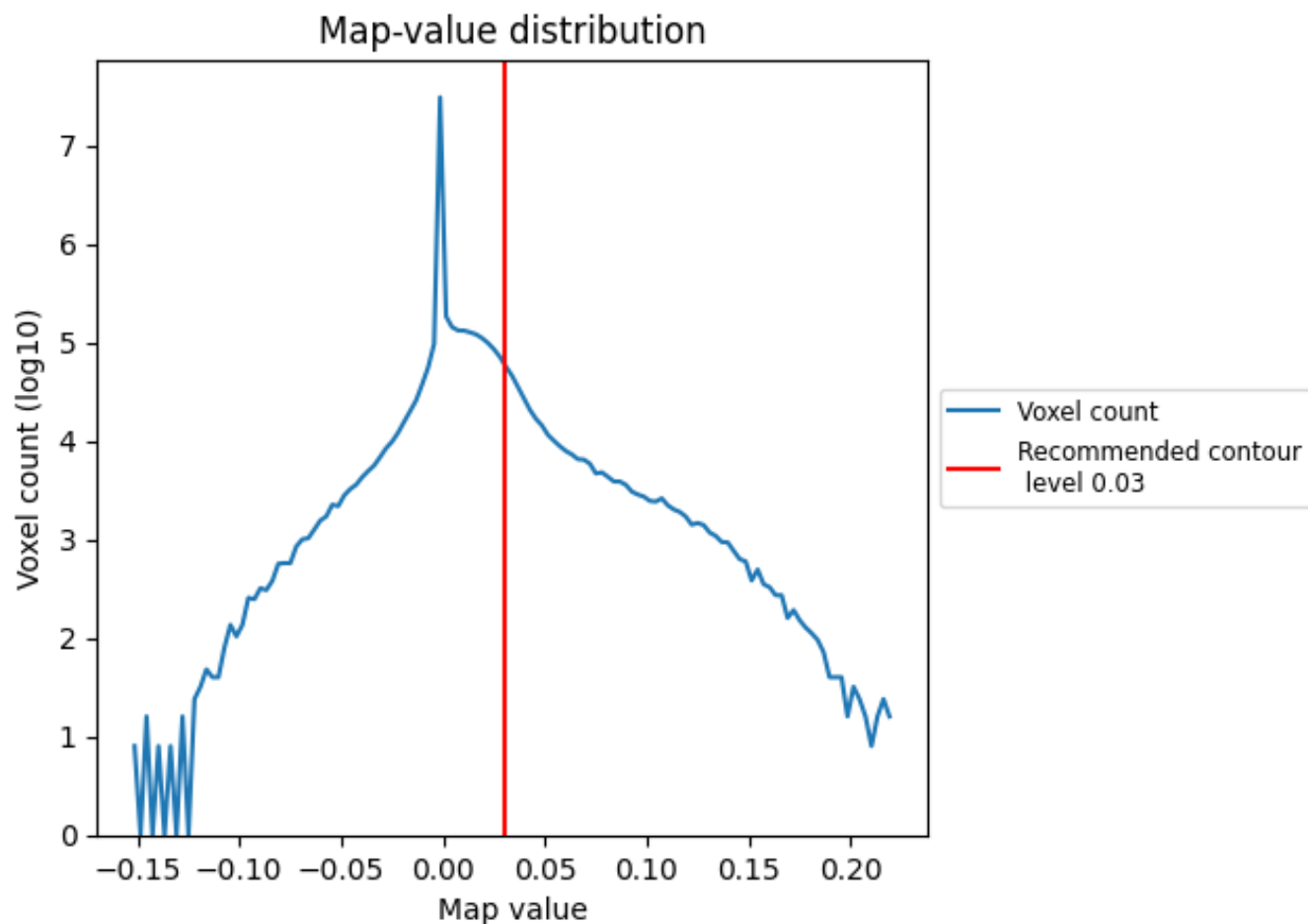
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

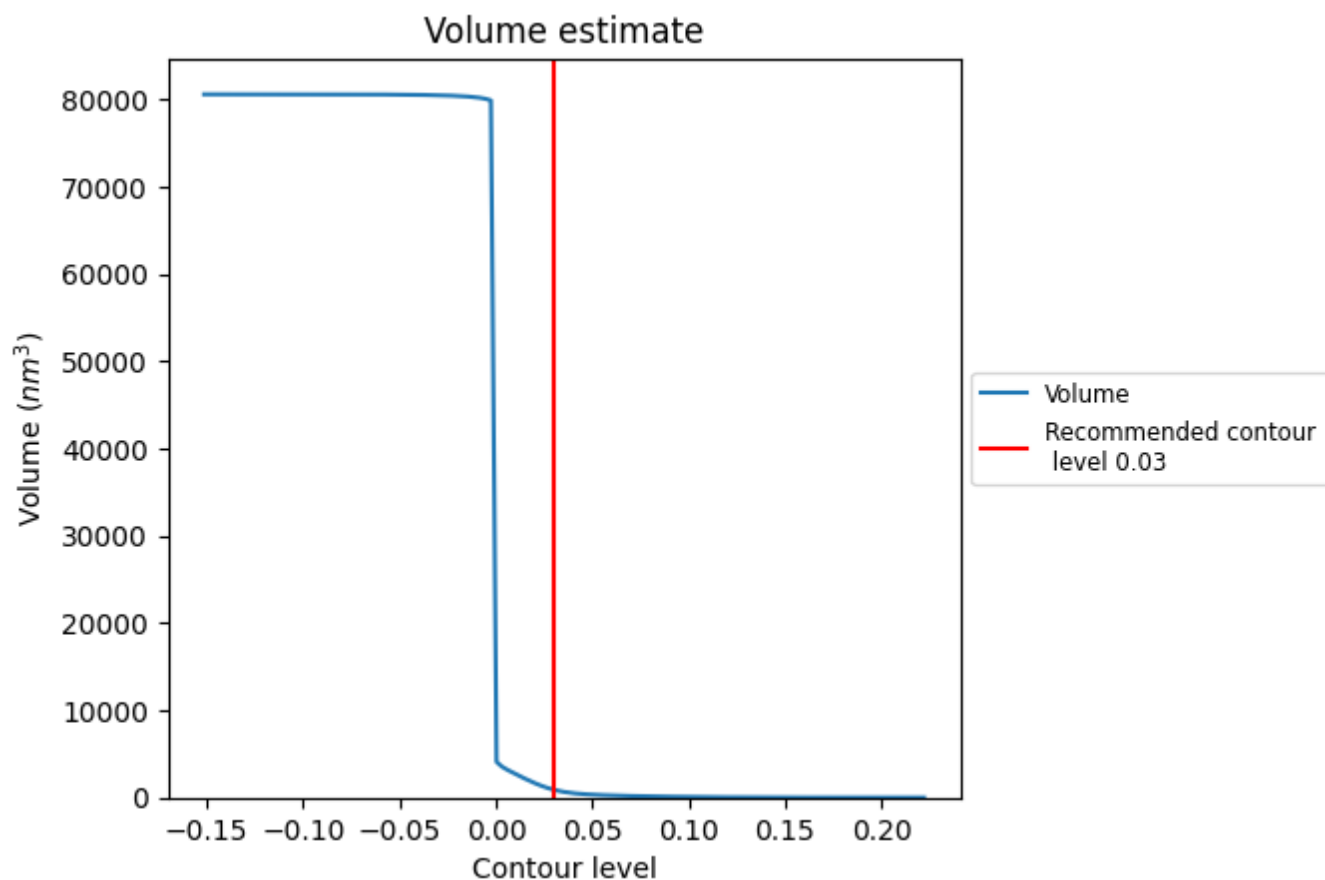
This section contains the results of statistical analysis of the map.

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.

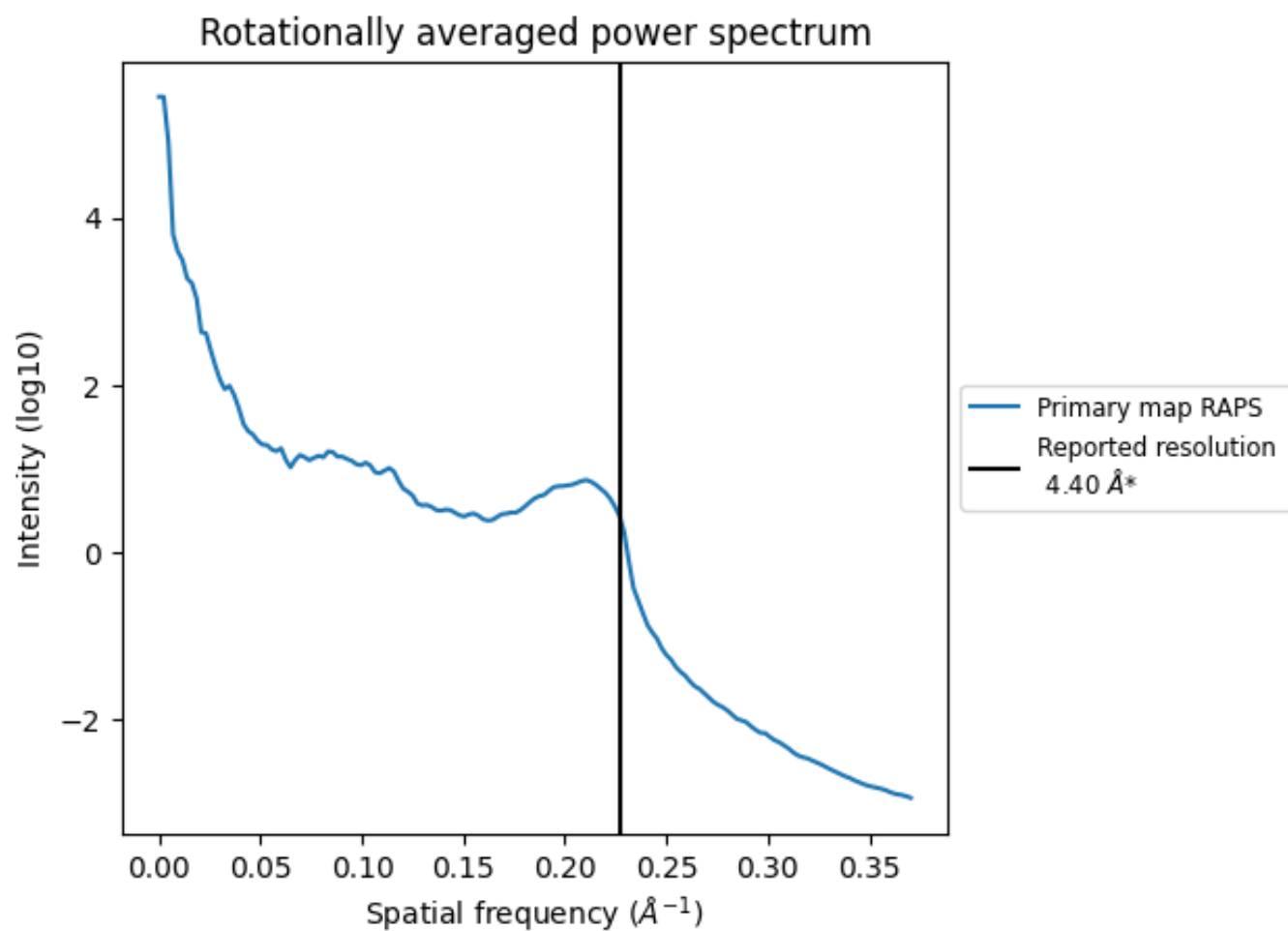
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 904 nm³; this corresponds to an approximate mass of 817 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 0.227 Å⁻¹

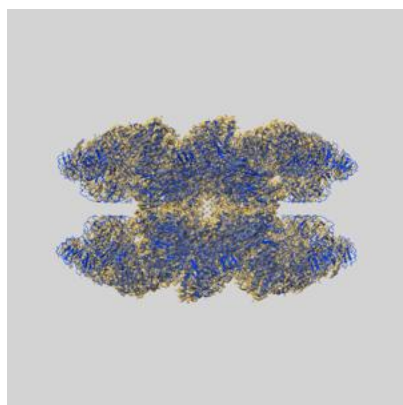
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

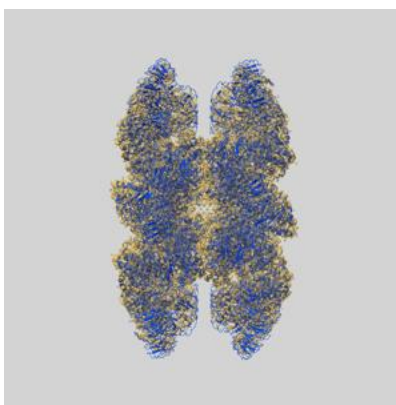
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8177 and PDB model 5JUL. Per-residue inclusion information can be found in section [3](#) on page [7](#).

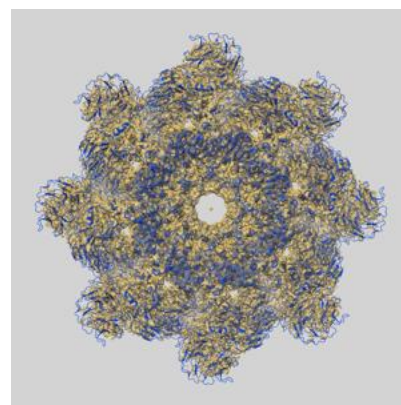
9.1 Map-model overlay [i](#)



X



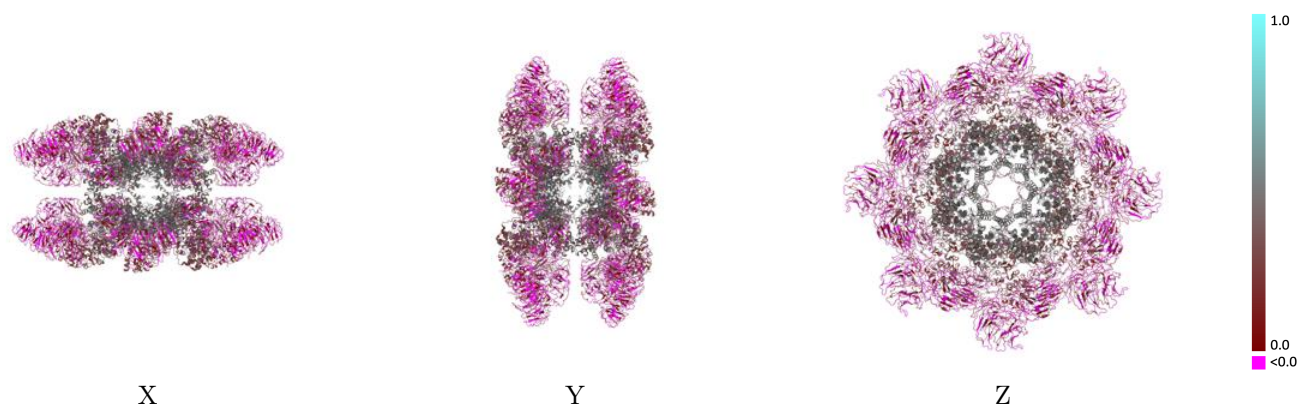
Y



Z

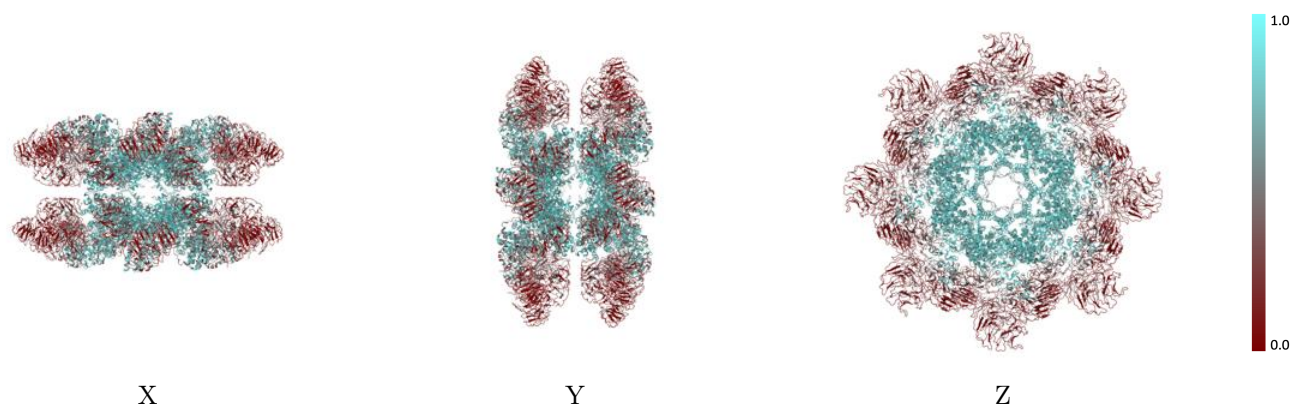
The images above show the 3D surface view of the map at the recommended contour level 0.03 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



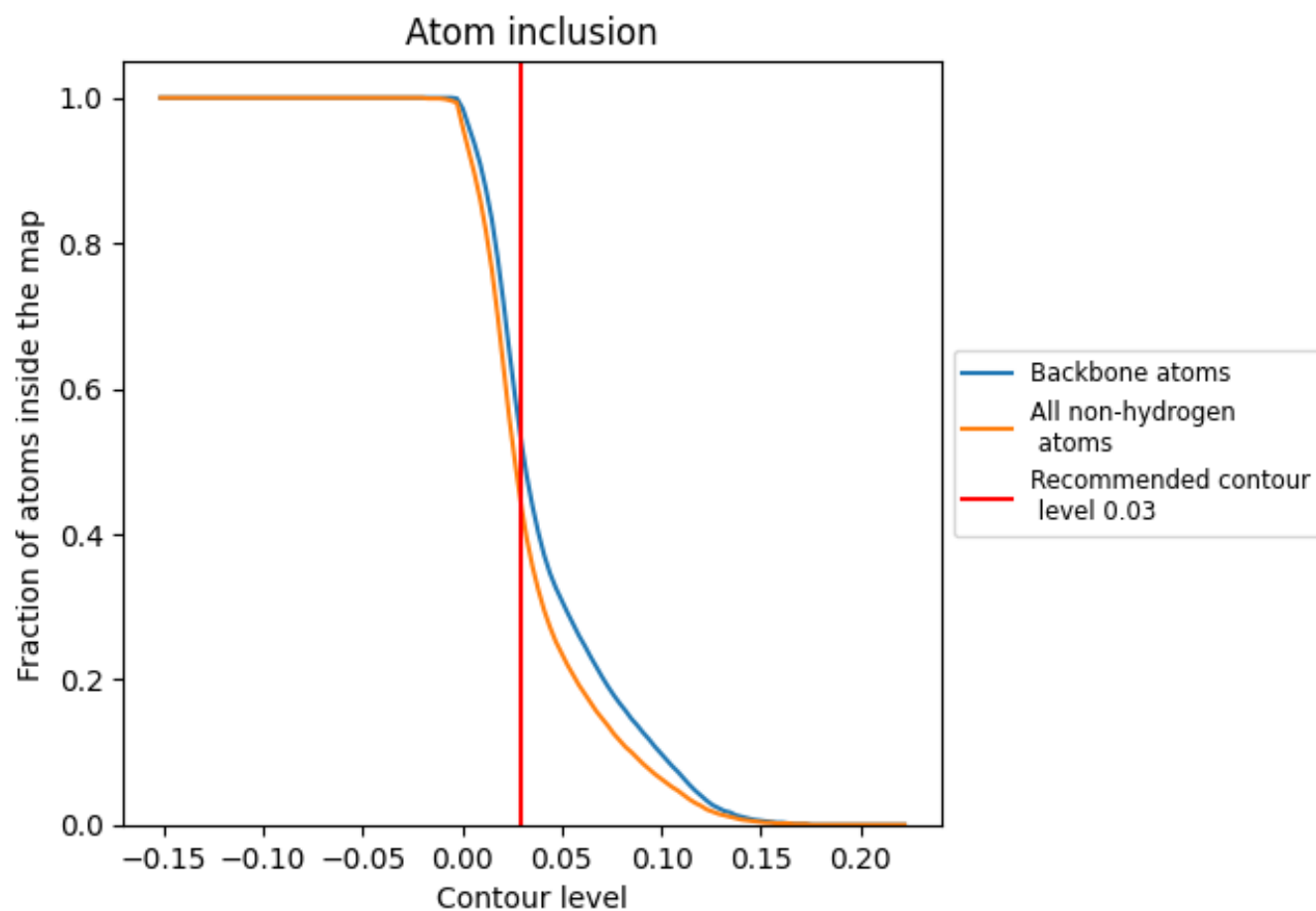
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.03).

9.4 Atom inclusion [i](#)



At the recommended contour level, 52% of all backbone atoms, 43% 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 (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.4340	<div></div> 0.1940
A	<div></div> 0.4360	<div></div> 0.1950
B	<div></div> 0.4300	<div></div> 0.1890
C	<div></div> 0.4310	<div></div> 0.1900
D	<div></div> 0.4330	<div></div> 0.1960
E	<div></div> 0.4370	<div></div> 0.1950
F	<div></div> 0.4280	<div></div> 0.1900
G	<div></div> 0.4360	<div></div> 0.1940
H	<div></div> 0.4360	<div></div> 0.1950
I	<div></div> 0.4350	<div></div> 0.1950
J	<div></div> 0.4370	<div></div> 0.1950
K	<div></div> 0.4340	<div></div> 0.1960
L	<div></div> 0.4280	<div></div> 0.1880
M	<div></div> 0.4350	<div></div> 0.1950
N	<div></div> 0.4370	<div></div> 0.1950
O	<div></div> 0.4350	<div></div> 0.1950
P	<div></div> 0.4330	<div></div> 0.1960

