



Full wwPDB EM Validation Report ⓘ

Nov 7, 2022 – 02:28 PM JST

PDB ID : 5X5F
EMDB ID : EMD-6707
Title : Prefusion structure of MERS-CoV spike glycoprotein, conformation 2
Authors : Yuan, Y.; Cao, D.; Zhang, Y.; Ma, J.; Qi, J.; Wang, Q.; Lu, G.; Wu, Y.; Yan, J.; Shi, Y.; Zhang, X.; Gao, G.F.
Deposited on : 2017-02-15
Resolution : 4.20 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.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

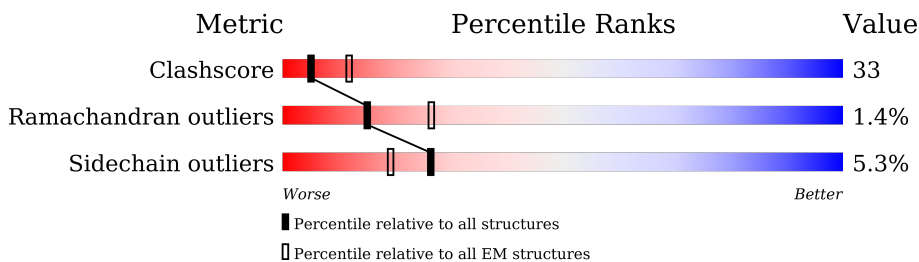
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.20 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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	1323	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">55%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">57%</div> <div style="text-align: center;">24%</div> <div style="text-align: center;">• •</div> <div style="text-align: center;">14%</div> </div>
1	B	1323	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">52%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">57%</div> <div style="text-align: center;">24%</div> <div style="text-align: center;">• •</div> <div style="text-align: center;">14%</div> </div>
1	C	1323	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">54%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">59%</div> <div style="text-align: center;">23%</div> <div style="text-align: center;">• •</div> <div style="text-align: center;">14%</div> </div>

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 26422 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 S protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1141	8806	5599	1457	1699	51	1	0
1	B	1141	8806	5599	1457	1699	51	1	0
1	C	1141	8810	5601	1458	1700	51	1	0

There are 144 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	751	SER	ARG	engineered mutation	UNP W6A028
A	1020	GLN	ARG	engineered mutation	UNP W6A028
A	1295	GLU	-	expression tag	UNP W6A028
A	1296	PHE	-	expression tag	UNP W6A028
A	1297	ARG	-	expression tag	UNP W6A028
A	1298	LEU	-	expression tag	UNP W6A028
A	1299	VAL	-	expression tag	UNP W6A028
A	1300	PRO	-	expression tag	UNP W6A028
A	1301	ARG	-	expression tag	UNP W6A028
A	1302	GLY	-	expression tag	UNP W6A028
A	1303	SER	-	expression tag	UNP W6A028
A	1304	PRO	-	expression tag	UNP W6A028
A	1305	GLY	-	expression tag	UNP W6A028
A	1306	SER	-	expression tag	UNP W6A028
A	1307	GLY	-	expression tag	UNP W6A028
A	1308	TYR	-	expression tag	UNP W6A028
A	1309	ILE	-	expression tag	UNP W6A028
A	1310	PRO	-	expression tag	UNP W6A028
A	1311	GLU	-	expression tag	UNP W6A028
A	1312	ALA	-	expression tag	UNP W6A028
A	1313	PRO	-	expression tag	UNP W6A028
A	1314	ARG	-	expression tag	UNP W6A028
A	1315	ASP	-	expression tag	UNP W6A028
A	1316	GLY	-	expression tag	UNP W6A028

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Chain	Residue	Modelled	Actual	Comment	Reference
A	1317	GLN	-	expression tag	UNP W6A028
A	1318	ALA	-	expression tag	UNP W6A028
A	1319	TYR	-	expression tag	UNP W6A028
A	1320	VAL	-	expression tag	UNP W6A028
A	1321	ARG	-	expression tag	UNP W6A028
A	1322	LYS	-	expression tag	UNP W6A028
A	1323	ASP	-	expression tag	UNP W6A028
A	1324	GLY	-	expression tag	UNP W6A028
A	1325	GLU	-	expression tag	UNP W6A028
A	1326	TRP	-	expression tag	UNP W6A028
A	1327	VAL	-	expression tag	UNP W6A028
A	1328	LEU	-	expression tag	UNP W6A028
A	1329	LEU	-	expression tag	UNP W6A028
A	1330	SER	-	expression tag	UNP W6A028
A	1331	THR	-	expression tag	UNP W6A028
A	1332	PHE	-	expression tag	UNP W6A028
A	1333	LEU	-	expression tag	UNP W6A028
A	1334	GLY	-	expression tag	UNP W6A028
A	1335	HIS	-	expression tag	UNP W6A028
A	1336	HIS	-	expression tag	UNP W6A028
A	1337	HIS	-	expression tag	UNP W6A028
A	1338	HIS	-	expression tag	UNP W6A028
A	1339	HIS	-	expression tag	UNP W6A028
A	1340	HIS	-	expression tag	UNP W6A028
B	751	SER	ARG	engineered mutation	UNP W6A028
B	1020	GLN	ARG	engineered mutation	UNP W6A028
B	1295	GLU	-	expression tag	UNP W6A028
B	1296	PHE	-	expression tag	UNP W6A028
B	1297	ARG	-	expression tag	UNP W6A028
B	1298	LEU	-	expression tag	UNP W6A028
B	1299	VAL	-	expression tag	UNP W6A028
B	1300	PRO	-	expression tag	UNP W6A028
B	1301	ARG	-	expression tag	UNP W6A028
B	1302	GLY	-	expression tag	UNP W6A028
B	1303	SER	-	expression tag	UNP W6A028
B	1304	PRO	-	expression tag	UNP W6A028
B	1305	GLY	-	expression tag	UNP W6A028
B	1306	SER	-	expression tag	UNP W6A028
B	1307	GLY	-	expression tag	UNP W6A028
B	1308	TYR	-	expression tag	UNP W6A028
B	1309	ILE	-	expression tag	UNP W6A028
B	1310	PRO	-	expression tag	UNP W6A028

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1311	GLU	-	expression tag	UNP W6A028
B	1312	ALA	-	expression tag	UNP W6A028
B	1313	PRO	-	expression tag	UNP W6A028
B	1314	ARG	-	expression tag	UNP W6A028
B	1315	ASP	-	expression tag	UNP W6A028
B	1316	GLY	-	expression tag	UNP W6A028
B	1317	GLN	-	expression tag	UNP W6A028
B	1318	ALA	-	expression tag	UNP W6A028
B	1319	TYR	-	expression tag	UNP W6A028
B	1320	VAL	-	expression tag	UNP W6A028
B	1321	ARG	-	expression tag	UNP W6A028
B	1322	LYS	-	expression tag	UNP W6A028
B	1323	ASP	-	expression tag	UNP W6A028
B	1324	GLY	-	expression tag	UNP W6A028
B	1325	GLU	-	expression tag	UNP W6A028
B	1326	TRP	-	expression tag	UNP W6A028
B	1327	VAL	-	expression tag	UNP W6A028
B	1328	LEU	-	expression tag	UNP W6A028
B	1329	LEU	-	expression tag	UNP W6A028
B	1330	SER	-	expression tag	UNP W6A028
B	1331	THR	-	expression tag	UNP W6A028
B	1332	PHE	-	expression tag	UNP W6A028
B	1333	LEU	-	expression tag	UNP W6A028
B	1334	GLY	-	expression tag	UNP W6A028
B	1335	HIS	-	expression tag	UNP W6A028
B	1336	HIS	-	expression tag	UNP W6A028
B	1337	HIS	-	expression tag	UNP W6A028
B	1338	HIS	-	expression tag	UNP W6A028
B	1339	HIS	-	expression tag	UNP W6A028
B	1340	HIS	-	expression tag	UNP W6A028
C	751	SER	ARG	engineered mutation	UNP W6A028
C	1020	GLN	ARG	engineered mutation	UNP W6A028
C	1295	GLU	-	expression tag	UNP W6A028
C	1296	PHE	-	expression tag	UNP W6A028
C	1297	ARG	-	expression tag	UNP W6A028
C	1298	LEU	-	expression tag	UNP W6A028
C	1299	VAL	-	expression tag	UNP W6A028
C	1300	PRO	-	expression tag	UNP W6A028
C	1301	ARG	-	expression tag	UNP W6A028
C	1302	GLY	-	expression tag	UNP W6A028
C	1303	SER	-	expression tag	UNP W6A028
C	1304	PRO	-	expression tag	UNP W6A028

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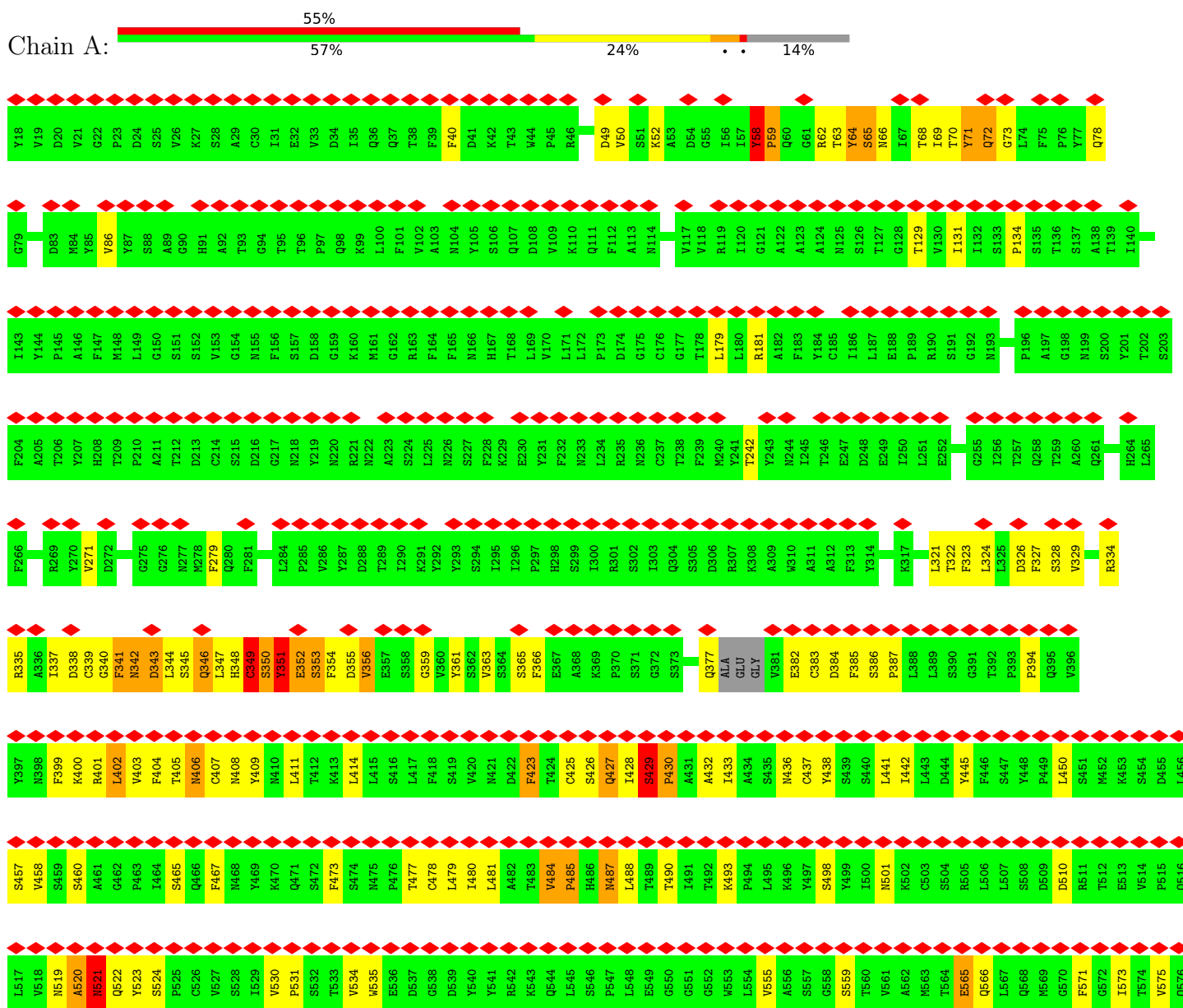
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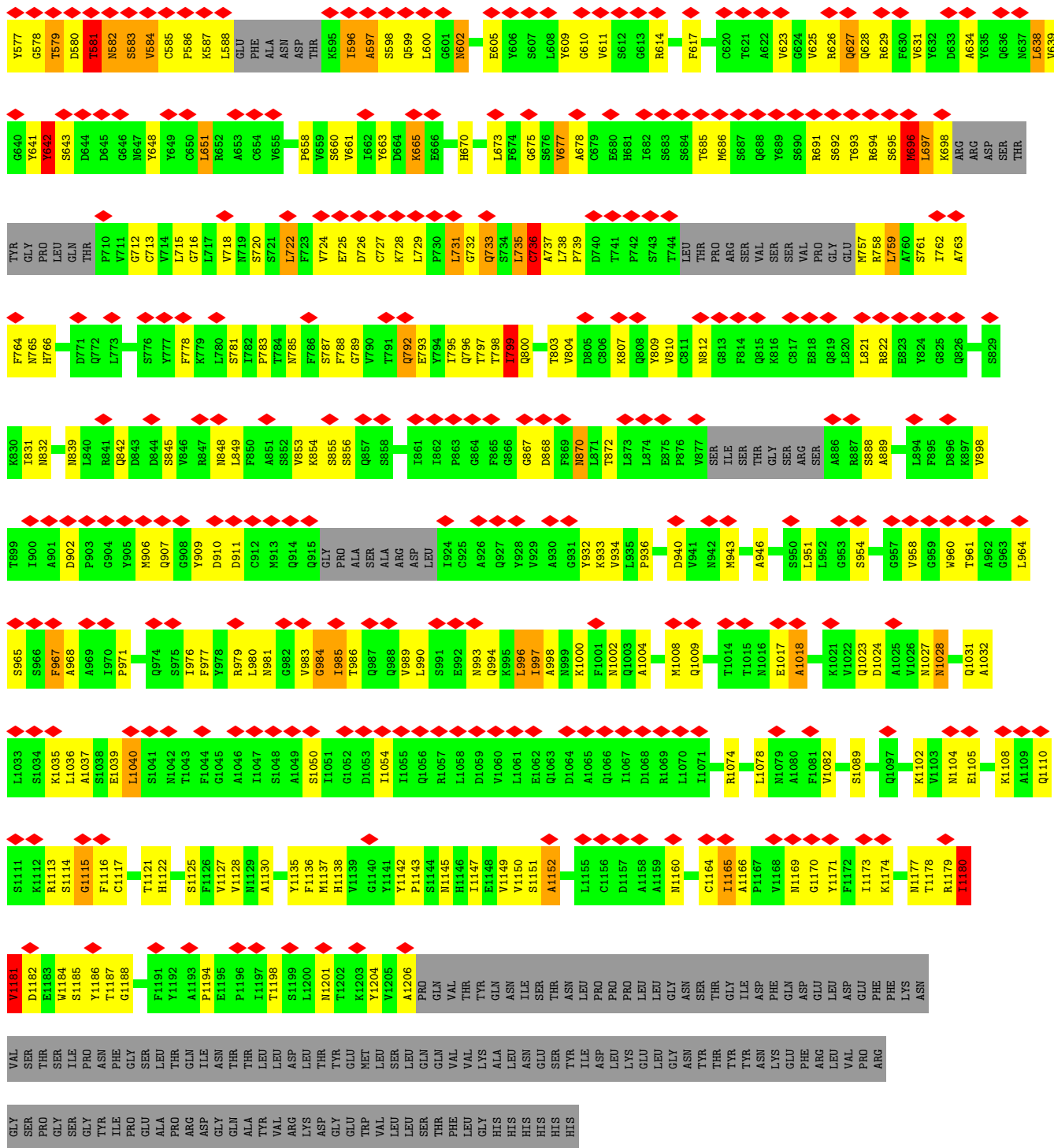
Chain	Residue	Modelled	Actual	Comment	Reference
C	1305	GLY	-	expression tag	UNP W6A028
C	1306	SER	-	expression tag	UNP W6A028
C	1307	GLY	-	expression tag	UNP W6A028
C	1308	TYR	-	expression tag	UNP W6A028
C	1309	ILE	-	expression tag	UNP W6A028
C	1310	PRO	-	expression tag	UNP W6A028
C	1311	GLU	-	expression tag	UNP W6A028
C	1312	ALA	-	expression tag	UNP W6A028
C	1313	PRO	-	expression tag	UNP W6A028
C	1314	ARG	-	expression tag	UNP W6A028
C	1315	ASP	-	expression tag	UNP W6A028
C	1316	GLY	-	expression tag	UNP W6A028
C	1317	GLN	-	expression tag	UNP W6A028
C	1318	ALA	-	expression tag	UNP W6A028
C	1319	TYR	-	expression tag	UNP W6A028
C	1320	VAL	-	expression tag	UNP W6A028
C	1321	ARG	-	expression tag	UNP W6A028
C	1322	LYS	-	expression tag	UNP W6A028
C	1323	ASP	-	expression tag	UNP W6A028
C	1324	GLY	-	expression tag	UNP W6A028
C	1325	GLU	-	expression tag	UNP W6A028
C	1326	TRP	-	expression tag	UNP W6A028
C	1327	VAL	-	expression tag	UNP W6A028
C	1328	LEU	-	expression tag	UNP W6A028
C	1329	LEU	-	expression tag	UNP W6A028
C	1330	SER	-	expression tag	UNP W6A028
C	1331	THR	-	expression tag	UNP W6A028
C	1332	PHE	-	expression tag	UNP W6A028
C	1333	LEU	-	expression tag	UNP W6A028
C	1334	GLY	-	expression tag	UNP W6A028
C	1335	HIS	-	expression tag	UNP W6A028
C	1336	HIS	-	expression tag	UNP W6A028
C	1337	HIS	-	expression tag	UNP W6A028
C	1338	HIS	-	expression tag	UNP W6A028
C	1339	HIS	-	expression tag	UNP W6A028
C	1340	HIS	-	expression tag	UNP W6A028

3 Residue-property plots

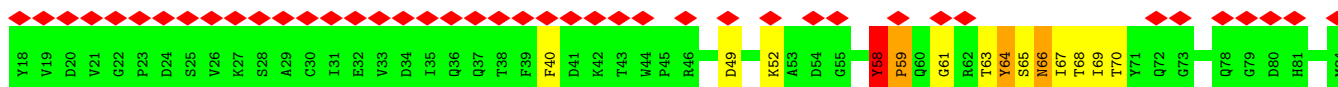
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: S protein

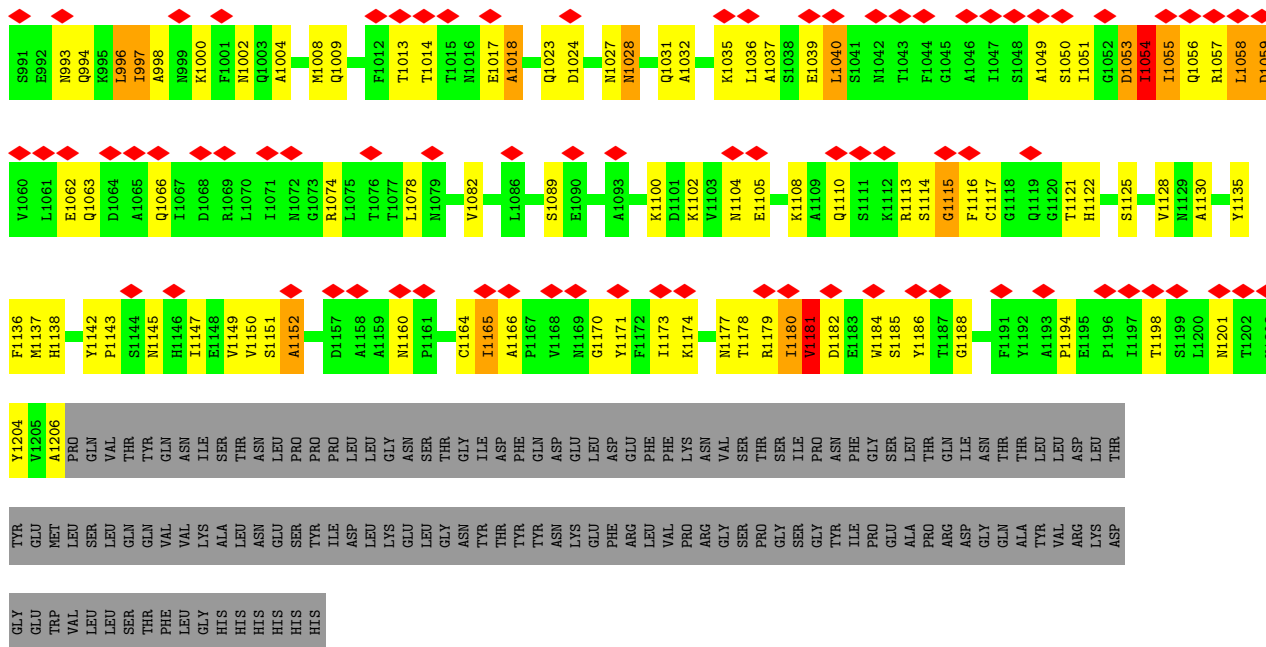




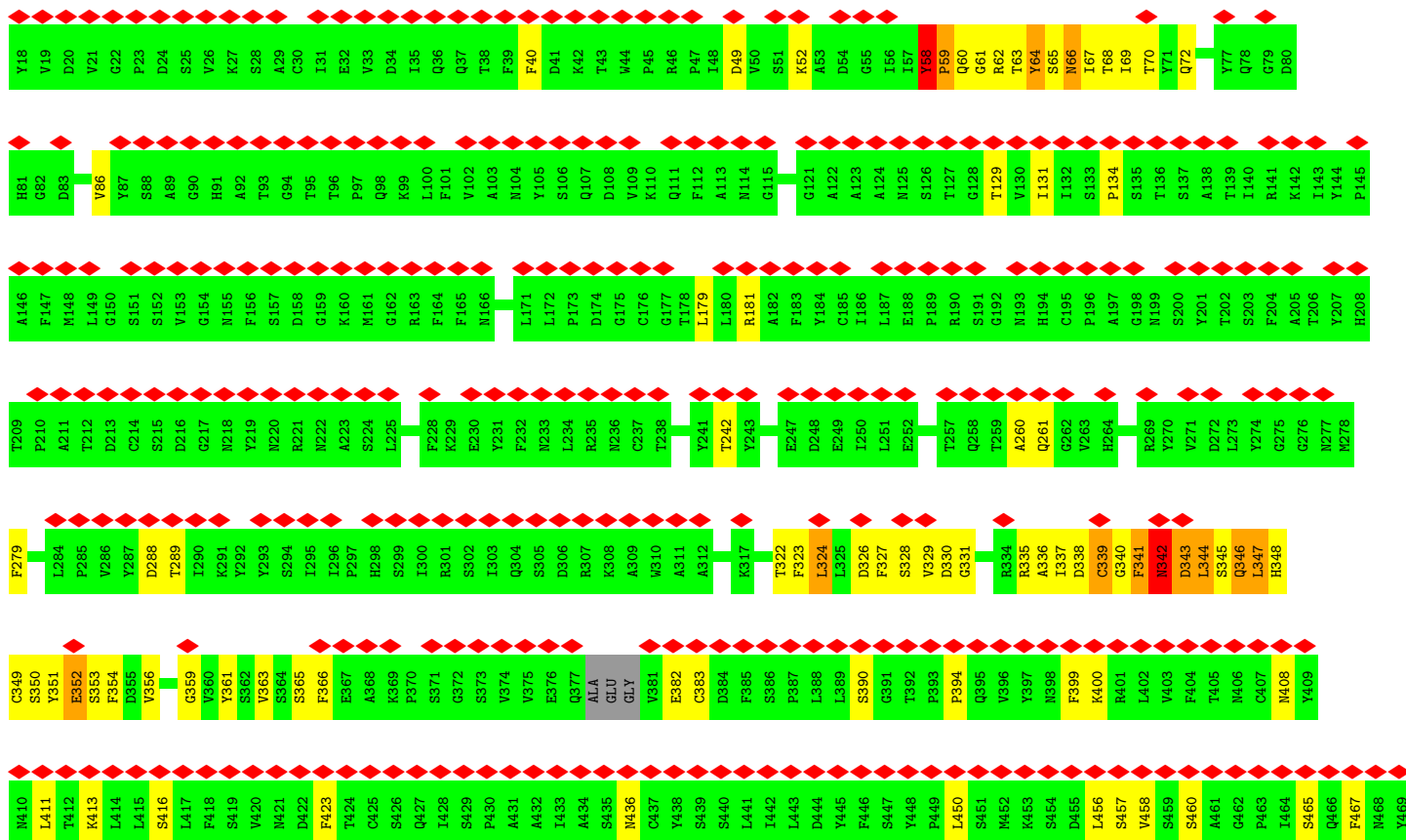
• Molecule 1: S protein



ALA	SER	ALA	ARC	ASP	LEU	I924	C925	A926	Q927	Y928	Y929	A930	G931	X932	K933	V934	L935	P936	D940	M943	A946	L951	S954	G957	V958	G959	W960	A962	G963	L964	S965	S966	F967	A968	P971	I976	F977	Y978	R979	L980	N981	V983	G984	I985	I986	R987	Q988	V989	L990											
V853	K854	S855	S856	S857	S858	S859	I862	F863	G864	F865	G866	G867	T868	F869	M870	T871	T872	L873	L874	E875	F876	S877	S878	I879	S880	S881	S882	S883	S884	S885	S886	S887	S888	S889	L894	V888	T889	I900	A901	D902	P903	G904	Y905	Q907	G908	Y909	D910	D911	C912	M913	Q914	Q915	PRO							
C713	L714	G715	L716	L717	L718	L719	S720	S721	F722	F723	W724	E725	Y726	C727	K728	L729	Q800	T803	W804	K807	Q808	Y809	W810	G811	N812	G813	F814	Q815	K816	C817	E818	Q819	L820	L821	R822	E823	Y824	K830	I831	N832	M833	L840	R841	Q842	S845	N848	L849	F850	L780											
W647	Y648	Y649	C650	L651	R652	A653	C654	V655	F658	S659	W660	V661	I662	Y663	D664	K665	T669	H670	L673	F674	C675	G676	W677	A678	C679	L688	E690	S694	T695	M696	S697	C698	Y699	S699	R691	S692	T693	R694	A695	ARG	ASP	ASP	SER	THR	TYR	PRO	PRO	LEU	GLN	THR	V711	G712								
S781	I782	F783	T784	N785	F786	S787	F788	G789	Y790	T791	Q792	E793	Y794	I795	Q796	T797	T798	Q800	T803	W804	K807	Q808	Y809	W810	G811	N812	G813	F814	Q815	K816	C817	E818	Q819	L820	L821	R822	E823	Y824	K830	I831	N832	M833	L840	R841	Q842	S845	N848	L849	F850											
V886	K885	S885	S886	S887	S888	S889	I862	F863	G864	F865	G866	G867	T868	F869	M870	T871	T872	L873	L874	E875	F876	S877	S878	I879	S880	S881	S882	S883	S884	S885	S886	S887	S888	S889	L894	V888	T889	I900	A901	D902	P903	G904	Y905	Q907	G908	Y909	D910	D911	C912	M913	Q914	Q915	PRO							
Y886	V886	Y87	S88	S89	G90	H91	A92	T93	G94	T96	P97	Q98	K99	L100	F101	V102	Y105	S106	Q107	D108	I109	K110	Q111	F112	A113	M114	G115	F116	V117	V118	R119	I120	G121	A122	A123	A124	M125	S126	T127	G128	T129	V130	I131	I132	S133	P134	S135	T136	S137	A138	T139	I140	R141	K142	I143	Y144	P145			
A146	F147	M148	L149	G150	S151	S152	V153	G154	M155	F156	S157	D158	G159	M161	G162	R163	F164	F165	M166	Q167	T168	L169	V170	L171	L172	P173	D174	G175	C176	G177	L178	L179	L180	R181	A182	F183	Y184	C185	D248	E249	I250	P189	S191	G192	N193	P196	A197	G198	M199	C262	Y263	H264	L265	R269	Y270	A205	T206			
Y207	H208	T209	P210	A211	D213	C214	S215	D216	G217	N218	Y219	N220	R221	M222	A223	S224	L225	N226	S227	F228	K229	E230	Y231	F232	N233	L234	R235	N236	C237	T238	F239	M240	Y241	T242	Y243	N244	I245	T246	E247	D248	E249	I250	L251	E252	T256	T257	Q258	N193	T259	A260	Q261	C262	Y263	H264	L265	R269	Y270			
V271	D272	L273	Y274	G275	G276	F279	Q280	F281	A282	T283	L284	P285	Y287	D288	T289	I290	K291	Y292	Y293	S294	I295	L296	P297	H298	S299	I300	R301	S302	I303	Q304	S305	D306	R307	K308	A309	W310	A311	A312	F313	L321	L324	L325	D326	F327	S328	V329	R334	R335	A336	I337	D338	C339	F341							
R342	D343	L344	S345	Q346	L347	H348	C349	S350	Y351	E352	S353	F354	D355	G359	V360	Y361	S362	S363	S364	K365	F366	E367	A368	K369	P370	H298	S299	I300	R301	S302	I303	Q304	S305	D306	R307	K308	A309	W310	A311	A312	F313	L321	L324	L325	D326	F327	S328	V329	R334	R335	A336	I337	D338	C339	F341					
F404	T405	M406	C407	M408	M409	M410	L411	T412	K413	L414	L415	S416	L417	F418	S419	V420	M421	D422	F423	T424	C425	S426	Q427	I428	S429	P430	A431	A432	I433	A434	S435	M436	C437	A438	S439	S440	L441	I442	L443	D444	L445	Y446	F446	S447	Y448	P449	L450	S451	M452	K453	S454	D455	L456	S457	V458	S459	A461	G462	P463	
I464	S465	Q466	F467	M468	Y469	K470	Q471	S472	F473	S474	M475	P476	T477	C478	L479	L480	L481	A482	T483	V484	P485	H486	N487	L488	T489	T490	L491	T492	K493	P494	L495	L496	Y497	S498	Y499	I500	L501	N502	I503	C504	S504	R505	L506	L507	S508	D509	D510	R511	T512	E513	V514	P515	Q516	L517	V518	N519	A520	N521	Q522	Y523
S524	P525	C526	W527	S528	L529	V530	P531	S532	T533	V534	M535	E536	D537	G538	D539	Y540	Y541	R542	K543	Q544	L545	S546	P547	L548	E549	G550	G551	G552	M553	L554	V555	A556	S557	G558	S559	T560	D561	V562	W563	T564	E565	Q566	L567	Q568	M569	G570	F571	G572	I573	T574	V575	Q576	Y577	G578	T579	D580	N582	S583		
W584	C585	F586	K587	L588	GLU	PHE	ALA	ASN	ASP	THR	K595	I596	O599	L600	G601	M602	E605	Y606	S607	L608	Y609	G610	W611	S612	G613	R614	F617	Q618	N619	C620	T621	A622	V623	C624	W625	R626	G627	D628	R629	F630	V631	Y632	D633	A634	W635	D636	L638	H637	L639	W639	G640	Y641	W642	S643	D644	D645	G646			
R647	Y648	Y649	C650	L651	R652	A653	C654	V655	F658	S659	W660	V661	I662	Y663	D664	K665	T669	H670	L673	F674	C675	G676	W677	A678	C679	L688	E690	S694	T695	M696	S697	C698	Y699	S699	R691	S692	T693	R694	A695	ARG	ASP	ASP	SER	THR	TYR	PRO	PRO	LEU	GLN	THR	V711	G712								
C713	L714	G715	L716	L717	L718	L719	S720	S721	F722	F723	W724	E725	Y726	C727	K728	L729	Q800	T803	W804	K807	Q808	Y809	W810	G811	N812	G813	F814	Q815	K816	C817	E818	Q819	L820	L821	R822	E823	Y824	K830	I831	N832	M833	L840	R841	Q842	S845	N848	L849	F850	L780											
S781	I782	F783	T784	N785	F786	S787	F788	G789	Y790	T791	Q792	E793	Y794	I795	Q796	T797	T798	Q800	T803	W804	K807	Q808	Y809	W810	G811	N812	G813	F814	Q815	K816	C817	E818	Q819	L820	L821	R822	E823	Y824	K830	I831	N832	M833	L840	R841	Q842	S845	N848	L849	F850											
V853	K854	S855	S856	S857	S858	S859	I862	F863	G864	F865	G866	G867	T868	F869	M870	T871	T872	L873	L874	E875	F876	S877	S878	I879	S880	S881	S882	S883	S884	S885	S886	S887	S888	S889	L894	V888	T889	I900	A901	D902	P903	G904	Y905	Q907	G908	Y909	D910	D911	C912	M913	Q914	Q915	PRO							



• Molecule 1: S protein



ASP	GLY	GLN	ALA	TYR	LEU	VAL	ARG	LYS	ASP	LEU	TYR	GLY	GLU	TRP	MET	VAL	LEU	SER	PRO	GLN	GLY	VAL	THR	GLN	SER	THR	PHE	VAL	LYS	GLY	HIS	HIS	HIS	HIS	HIS	HIS																							
E1196	P1196	I1197	I1197	S1198	S1198	L1200	N1201	T1202	K1203	Y1204	Y1205	A1206	PRO	GLN	GLY	VAL	THR	GLN	SER	THR	GLN	VAL	THR	GLN	SER	THR	PHE	VAL	LYS	GLY	HIS	HIS	HIS	HIS	HIS	HIS																							
A1130	Y1136	F1136	M1137	H1138	V1139	G1140	Y1141	Y1142	P1143	M1145	H1146	I1147	E1148	V1149	V1150	S1151	A1152	L1155	C1156	D1157	A1158	M1159	P1161	T1162	M1163	I1165	A1166	P1167	V1168	N1169	G1170	Y1171	F1172	I1173	K1174	M1177	T1178	R1179	I1180	V1181	D1182	E1183	W1184	S1185	Y1186	G1187	G1188	S1189	S1190	F1191	Y1192	A1193	P1194						
S1050	I1051	G1052	D1053	I1054	T1055	Q1056	R1057	L1058	D1059	V1060	L1061	Q1063	D1064	A1065	Q1066	I1067	D1068	R1069	M1072	G1073	R1074	L1078	V1082	S1089	Q1097	K1100	D1101	K1102	V1103	M1104	E1105	K1108	A1109	Q1110	S1111	R1113	S1114	G1115	F1116	Q1117	G1118	T1121	H1122	S1125	F1126	V1127	V1128	M1129											
V983	G984	I985	T986	Q987	Q988	V989	L990	S991	E992	N993	Q994	K995	I997	A998	N999	K1000	F1001	M1002	Q1003	A1004	M1008	Q1009	T1010	G1011	T1013	T1014	T1015	N1016	E1017	Q1023	D1024	N1027	N1028	Q1031	A1032	L1033	S1034	K1035	L1036	A1037	S1038	E1039	L1040	S1041	N1042	T1043	F1044	G1045	I1047	S1048	A1049								
G915	PRO	ALA	SER	ALA	ARG	ASP	LEU	I924	C925	A926	I928	I929	I930	I931	I932	K933	Y934	I935	P936	D940	Y941	I942	M943	A946	L951	L952	G953	S954	G957	V958	G959	W960	T961	A962	L964	S965	S966	A968	A969	I970	P971	A974	S975	F977	Y978	Y979	D910	L980	N981	G982									
F850	A851	S852	K854	S855	S856	Q857	S858	I861	I862	F863	G864	F865	G866	D868	F869	L870	L871	L872	L873	L874	E875	F876	M877	SER	ILE	SER	THR	GLY	SER	ARG	SER	A886	R887	S888	A889	F895	D896	K897	V898	T899	I900	A901	D902	P903	G904	Y905	M906	Q907	G908	D843	D844	S845	N848	L849					
F778	P783	I784	M785	S787	F788	G789	V790	T791	Q792	F793	I794	I795	Q796	T797	I798	Q800	T803	V804	K807	Q808	Y809	V810	G811	N812	G813	F814	Q815	K816	C817	L820	L821	R822	E823	Y824	G825	Q826	F827	C828	S829	K830	L831	N832	N839	Q842	D843	D844	S845	N848	L849										
V714	L715	G716	L717	M718	M719	S721	L722	F723	V724	E725	D726	C727	K728	L729	F730	L731	S734	Q735	C736	A737	L738	A678	C679	E680	H681	N682	S683	S684	T621	A622	G623	G624	G625	R626	Q627	Q628	R629	F630	V631	Y632	D633	A634	Y635	M637	L638	V639	G640	Y641	Q642	S643	D644	D645	D646	P710	V711	G712	C713		
PHE	ALA	ASN	ASP	THR	K595	I596	A597	S598	Q599	L600	G601	M602	E605	Y606	S607	L608	S646	P647	G610	L648	E649	G650	G651	G652	M653	L654	V655	A656	S657	G658	S659	T660	V661	A662	Q627	Q628	R629	F630	V631	Y632	D633	A634	Y635	M637	L638	V639	G640	Y641	Q642	S643	D644	D645	D646	P710	V711	G712	C713		
K470	Q471	S472	F473	S474	N475	P476	T477	C478	L479	I480	L481	A482	T483	V484	P485	H486	M487	L488	T489	T490	I491	T492	K493	P494	L495	K496	Y497	S498	Y499	I500	N501	K502	C503	S504	R505	L506	L507	S508	D509	D510	R511	T512	E513	V514	P515	Q516	L517	V518	N519	A520	N521	Q522	Y523	S524	P525	C526	V527	S528	I529

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	60000	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 ($e^-/\text{\AA}^2$)	8	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.179	Depositor
Minimum map value	-0.093	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.0595	Depositor
Map size (Å)	260.0, 260.0, 260.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3, 1.3, 1.3	Depositor

5 Model quality i

5.1 Standard geometry i

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	0.58	6/9006 (0.1%)	0.81	29/12245 (0.2%)
1	B	0.51	1/9006 (0.0%)	0.80	24/12245 (0.2%)
1	C	0.51	1/9010 (0.0%)	0.78	22/12250 (0.2%)
All	All	0.53	8/27022 (0.0%)	0.80	75/36740 (0.2%)

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	20
1	B	0	20
1	C	0	19
All	All	0	59

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	349	CYS	N-CA	-15.13	1.16	1.46
1	A	349	CYS	C-O	9.59	1.41	1.23
1	A	349	CYS	CB-SG	-8.35	1.68	1.82
1	A	696	MET	N-CA	6.67	1.59	1.46
1	A	59	PRO	N-CD	5.22	1.55	1.47
1	C	59	PRO	N-CD	5.15	1.55	1.47
1	B	59	PRO	N-CD	5.12	1.55	1.47
1	A	430	PRO	N-CD	5.00	1.54	1.47

All (75) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	735	LEU	CA-CB-CG	11.61	142.00	115.30
1	B	735	LEU	CA-CB-CG	11.58	141.93	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	735	LEU	CA-CB-CG	11.51	141.78	115.30
1	A	349	CYS	O-C-N	-11.07	104.98	122.70
1	A	1040	LEU	CA-CB-CG	7.84	133.32	115.30
1	C	1040	LEU	CA-CB-CG	7.82	133.28	115.30
1	B	1040	LEU	CA-CB-CG	7.81	133.27	115.30
1	C	1151	SER	C-N-CA	7.39	140.18	121.70
1	A	1151	SER	C-N-CA	7.35	140.08	121.70
1	B	1151	SER	C-N-CA	7.33	140.03	121.70
1	C	697	LEU	CA-CB-CG	7.29	132.06	115.30
1	B	697	LEU	CA-CB-CG	7.28	132.04	115.30
1	A	1018	ALA	N-CA-C	7.11	130.21	111.00
1	B	1018	ALA	N-CA-C	7.11	130.21	111.00
1	C	1018	ALA	N-CA-C	7.09	130.15	111.00
1	B	729	LEU	CA-CB-CG	6.79	130.91	115.30
1	A	729	LEU	CA-CB-CG	6.76	130.86	115.30
1	C	729	LEU	CA-CB-CG	6.76	130.86	115.30
1	A	731	LEU	CA-CB-CG	6.69	130.69	115.30
1	C	731	LEU	CA-CB-CG	6.68	130.66	115.30
1	B	731	LEU	CA-CB-CG	6.63	130.56	115.30
1	A	365	SER	C-N-CA	6.47	137.88	121.70
1	C	1152	ALA	C-N-CA	6.44	137.80	121.70
1	A	1152	ALA	C-N-CA	6.43	137.78	121.70
1	C	365	SER	C-N-CA	6.43	137.77	121.70
1	B	1152	ALA	C-N-CA	6.41	137.72	121.70
1	B	365	SER	C-N-CA	6.38	137.66	121.70
1	B	1180	ILE	CG1-CB-CG2	-6.22	97.71	111.40
1	C	1180	ILE	CG1-CB-CG2	-6.20	97.75	111.40
1	A	1180	ILE	CG1-CB-CG2	-6.16	97.84	111.40
1	C	651	LEU	CA-CB-CG	6.08	129.28	115.30
1	B	651	LEU	CA-CB-CG	6.07	129.26	115.30
1	A	651	LEU	CA-CB-CG	6.05	129.23	115.30
1	A	349	CYS	C-N-CA	6.05	136.82	121.70
1	A	582	ASN	N-CA-CB	6.05	121.49	110.60
1	A	349	CYS	N-CA-C	-5.96	94.92	111.00
1	C	1116	PHE	N-CA-C	5.75	126.54	111.00
1	A	429	SER	C-N-CD	5.74	140.46	128.40
1	B	1116	PHE	N-CA-C	5.74	126.51	111.00
1	A	1116	PHE	N-CA-C	5.70	126.39	111.00
1	B	822	ARG	N-CA-CB	5.60	120.68	110.60
1	A	58	TYR	C-N-CD	5.59	140.13	128.40
1	A	729	LEU	C-N-CD	-5.59	108.31	120.60
1	C	729	LEU	C-N-CD	-5.58	108.32	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	58	TYR	C-N-CD	5.58	140.12	128.40
1	B	729	LEU	C-N-CD	-5.57	108.34	120.60
1	A	521	ASN	CB-CA-C	5.57	121.54	110.40
1	C	58	TYR	C-N-CD	5.55	140.06	128.40
1	A	349	CYS	CA-C-N	5.53	129.37	117.20
1	A	406	ASN	N-CA-C	-5.49	96.18	111.00
1	A	759	LEU	CB-CG-CD1	-5.45	101.74	111.00
1	A	985	ILE	CG1-CB-CG2	-5.43	99.45	111.40
1	C	759	LEU	CB-CG-CD1	-5.43	101.77	111.00
1	B	759	LEU	CB-CG-CD1	-5.42	101.78	111.00
1	B	985	ILE	CG1-CB-CG2	-5.39	99.55	111.40
1	A	902	ASP	C-N-CD	-5.37	108.78	120.60
1	C	902	ASP	C-N-CD	-5.36	108.80	120.60
1	B	902	ASP	C-N-CD	-5.35	108.83	120.60
1	C	985	ILE	CG1-CB-CG2	-5.32	99.69	111.40
1	A	724	VAL	C-N-CA	5.25	134.83	121.70
1	A	997	ILE	N-CA-C	5.25	125.19	111.00
1	B	997	ILE	N-CA-C	5.25	125.17	111.00
1	B	348	HIS	N-CA-CB	-5.23	101.19	110.60
1	C	997	ILE	N-CA-C	5.22	125.09	111.00
1	B	724	VAL	C-N-CA	5.21	134.72	121.70
1	C	724	VAL	C-N-CA	5.20	134.71	121.70
1	A	638	LEU	CA-CB-CG	5.20	127.26	115.30
1	B	638	LEU	CA-CB-CG	5.16	127.17	115.30
1	C	638	LEU	CA-CB-CG	5.16	127.16	115.30
1	B	1017	GLU	C-N-CA	5.11	134.48	121.70
1	B	799	ILE	CG1-CB-CG2	-5.09	100.21	111.40
1	A	799	ILE	CG1-CB-CG2	-5.09	100.21	111.40
1	A	1017	GLU	C-N-CA	5.09	134.42	121.70
1	C	1017	GLU	C-N-CA	5.07	134.36	121.70
1	C	799	ILE	CG1-CB-CG2	-5.05	100.30	111.40

There are no chirality outliers.

All (59) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1115	GLY	Peptide
1	A	1152	ALA	Peptide
1	A	1170	GLY	Peptide
1	A	1180	ILE	Peptide
1	A	1188	GLY	Peptide
1	A	1204	TYR	Peptide

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Mol	Chain	Res	Type	Group
1	A	520	ALA	Mainchain
1	A	639	VAL	Peptide
1	A	642	TYR	Peptide
1	A	65	SER	Peptide
1	A	733	GLN	Peptide
1	A	736	CYS	Peptide
1	A	788	PHE	Peptide
1	A	792	GLN	Peptide
1	A	795	ILE	Peptide
1	A	809	TYR	Peptide
1	A	856	SER	Peptide
1	A	967	PHE	Peptide
1	A	984	GLY	Peptide
1	A	996	LEU	Peptide
1	B	1115	GLY	Peptide
1	B	1152	ALA	Peptide
1	B	1170	GLY	Peptide
1	B	1180	ILE	Peptide
1	B	1188	GLY	Peptide
1	B	1204	TYR	Peptide
1	B	511	ARG	Peptide
1	B	578	GLY	Peptide
1	B	639	VAL	Peptide
1	B	642	TYR	Peptide
1	B	733	GLN	Peptide
1	B	736	CYS	Peptide
1	B	788	PHE	Peptide
1	B	792	GLN	Peptide
1	B	795	ILE	Peptide
1	B	809	TYR	Peptide
1	B	856	SER	Peptide
1	B	967	PHE	Peptide
1	B	984	GLY	Peptide
1	B	996	LEU	Peptide
1	C	1055	ILE	Peptide
1	C	1115	GLY	Peptide
1	C	1152	ALA	Peptide
1	C	1170	GLY	Peptide
1	C	1180	ILE	Peptide
1	C	1188	GLY	Peptide
1	C	1204	TYR	Peptide
1	C	639	VAL	Peptide

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Mol	Chain	Res	Type	Group
1	C	642	TYR	Peptide
1	C	733	GLN	Peptide
1	C	736	CYS	Peptide
1	C	788	PHE	Peptide
1	C	792	GLN	Peptide
1	C	795	ILE	Peptide
1	C	809	TYR	Peptide
1	C	856	SER	Peptide
1	C	967	PHE	Peptide
1	C	984	GLY	Peptide
1	C	996	LEU	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8806	0	8507	678	0
1	B	8806	0	8504	766	0
1	C	8810	0	8512	581	0
All	All	26422	0	25523	1686	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 (1686) 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:C:339:CYS:SG	1:C:349:CYS:HB2	1.35	1.62
1:B:344:LEU:CD2	1:B:670:HIS:HB3	1.16	1.61
1:A:583:SER:HB2	1:A:609:TYR:CE1	1.37	1.60
1:C:335:ARG:HB3	1:C:354:PHE:CE2	1.34	1.60
1:B:344:LEU:HD22	1:B:670:HIS:CB	1.16	1.58
1:B:347:LEU:CD2	1:B:361:TYR:HB3	1.27	1.57
1:B:335:ARG:CG	1:B:354:PHE:CE2	1.77	1.57
1:B:347:LEU:HD21	1:B:361:TYR:CB	1.18	1.56
1:B:335:ARG:CG	1:B:354:PHE:HE2	1.11	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:SER:CB	1:B:1058:LEU:HD22	1.34	1.53
1:A:583:SER:HB2	1:A:609:TYR:CD1	1.38	1.53
1:C:324:LEU:HD11	1:C:354:PHE:CD1	1.37	1.53
1:A:335:ARG:HB2	1:A:354:PHE:CZ	1.42	1.52
1:A:623:VAL:CG1	1:B:65:SER:HB2	1.31	1.51
1:C:1058:LEU:HD11	1:C:1063:GLN:CA	1.37	1.51
1:B:439:SER:CB	1:B:582:ASN:H	1.19	1.49
1:A:429:SER:HB2	1:B:1058:LEU:CD2	1.42	1.49
1:A:335:ARG:CD	1:A:354:PHE:HE2	1.26	1.48
1:A:577:TYR:CD1	1:A:610:GLY:O	1.64	1.48
1:C:1054:ILE:CD1	1:C:1056:GLN:NE2	1.77	1.47
1:A:63:THR:CG2	1:C:628:GLN:HE21	1.27	1.46
1:A:580:ASP:OD2	1:A:628:GLN:CB	1.63	1.46
1:A:335:ARG:HD3	1:A:354:PHE:CE2	1.49	1.45
1:A:343:ASP:CB	1:A:661:VAL:CG2	1.95	1.45
1:A:343:ASP:CB	1:A:661:VAL:HG21	1.47	1.45
1:B:476:PRO:HD2	1:B:577:TYR:CD2	1.48	1.44
1:B:511:ARG:HD2	1:C:436:ASN:ND2	1.16	1.44
1:C:324:LEU:CD1	1:C:354:PHE:HD1	1.31	1.44
1:A:429:SER:CA	1:B:1058:LEU:HD22	1.46	1.43
1:C:339:CYS:SG	1:C:349:CYS:CB	2.06	1.43
1:B:343:ASP:CB	1:B:661:VAL:CG2	1.97	1.42
1:A:623:VAL:CG1	1:B:65:SER:CB	1.98	1.42
1:A:429:SER:CB	1:B:1058:LEU:CD2	1.96	1.41
1:C:1054:ILE:HD12	1:C:1056:GLN:NE2	1.14	1.41
1:A:335:ARG:CB	1:A:354:PHE:CZ	2.02	1.40
1:B:347:LEU:CD2	1:B:361:TYR:CB	1.85	1.40
1:B:348:HIS:HA	1:B:356:VAL:CG2	1.49	1.39
1:B:343:ASP:HB3	1:B:661:VAL:CG2	1.49	1.38
1:A:685:THR:CG2	1:A:697:LEU:HD11	1.54	1.38
1:A:520:ALA:HB1	1:A:521:ASN:ND2	1.31	1.38
1:B:439:SER:HB2	1:B:582:ASN:N	1.09	1.38
1:B:335:ARG:HG3	1:B:354:PHE:CE2	0.87	1.37
1:A:425:CYS:HB3	1:A:428:ILE:CG2	1.50	1.37
1:B:335:ARG:CZ	1:B:354:PHE:HD2	1.36	1.37
1:B:623:VAL:HG13	1:C:329:VAL:O	1.19	1.37
1:B:439:SER:CB	1:B:582:ASN:N	1.80	1.36
1:A:429:SER:CB	1:B:1058:LEU:HD13	1.54	1.35
1:B:511:ARG:CD	1:C:436:ASN:HD22	1.38	1.34
1:C:343:ASP:CB	1:C:661:VAL:CG2	2.05	1.34
1:C:1054:ILE:CD1	1:C:1056:GLN:HE21	1.37	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:324:LEU:CD1	1:C:354:PHE:CD1	2.07	1.34
1:A:583:SER:CB	1:A:609:TYR:CE1	2.10	1.33
1:A:822:ARG:HG2	1:C:72:GLN:OE1	1.20	1.32
1:C:335:ARG:CB	1:C:354:PHE:HE2	1.42	1.32
1:B:439:SER:CB	1:B:581:THR:HA	1.57	1.31
1:A:271:VAL:HG22	1:C:627:GLN:OE1	1.16	1.31
1:A:377:GLN:OE1	1:A:408:ASN:ND2	1.63	1.31
1:A:63:THR:CB	1:C:625:VAL:HG21	1.59	1.30
1:A:577:TYR:CE2	1:B:1057:ARG:NH2	1.99	1.30
1:A:429:SER:HB3	1:B:1058:LEU:CG	1.60	1.30
1:B:335:ARG:HG3	1:B:354:PHE:CZ	1.67	1.29
1:A:596:ILE:O	1:A:598:SER:N	1.63	1.29
1:A:429:SER:CB	1:B:1058:LEU:CD1	2.11	1.28
1:A:377:GLN:HE21	1:A:585:CYS:CB	1.45	1.28
1:B:582:ASN:HB2	1:B:609:TYR:CD2	1.67	1.28
1:C:1050:SER:O	1:C:1051:ILE:HD13	1.17	1.28
1:B:343:ASP:OD1	1:B:363:VAL:HG11	1.33	1.27
1:A:623:VAL:HG11	1:B:65:SER:CB	1.56	1.27
1:B:439:SER:OG	1:B:581:THR:HA	1.32	1.27
1:B:428:ILE:HD12	1:B:577:TYR:OH	1.34	1.26
1:B:337:ILE:HD11	1:B:348:HIS:CE1	1.71	1.26
1:B:343:ASP:CB	1:B:661:VAL:HG21	1.58	1.26
1:B:625:VAL:CG2	1:C:63:THR:HB	1.64	1.26
1:B:350:SER:O	1:B:351:TYR:HD1	1.18	1.25
1:A:347:LEU:HD21	1:A:361:TYR:CB	1.66	1.25
1:A:521:ASN:HB2	1:B:260:ALA:CB	1.67	1.25
1:B:347:LEU:HD22	1:B:361:TYR:CG	1.72	1.25
1:B:579:THR:C	1:C:61:GLY:HA2	1.56	1.25
1:C:343:ASP:HB2	1:C:661:VAL:CG2	1.62	1.25
1:B:578:GLY:CA	1:B:579:THR:OG1	1.85	1.24
1:B:663:TYR:CE2	1:B:665:LYS:HB3	1.71	1.24
1:C:58:TYR:CD1	1:C:279:PHE:CZ	2.26	1.24
1:B:58:TYR:CD1	1:B:279:PHE:CZ	2.26	1.24
1:B:575:VAL:O	1:B:577:TYR:CD2	1.90	1.24
1:B:428:ILE:HG13	1:C:1056:GLN:O	1.38	1.24
1:B:578:GLY:HA3	1:B:579:THR:OG1	1.16	1.23
1:B:576:GLN:HA	1:B:577:TYR:CB	1.62	1.23
1:B:576:GLN:CA	1:B:577:TYR:HB2	1.66	1.23
1:B:578:GLY:HA2	1:B:579:THR:CG2	1.68	1.23
1:A:58:TYR:CD1	1:A:279:PHE:CZ	2.26	1.22
1:B:663:TYR:HE2	1:B:665:LYS:CB	1.50	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:812:ASN:HD22	1:C:1051:ILE:CD1	1.53	1.22
1:B:439:SER:CB	1:B:581:THR:CA	2.16	1.22
1:B:347:LEU:CD1	1:B:361:TYR:HB2	1.69	1.22
1:A:347:LEU:O	1:A:350:SER:O	1.55	1.21
1:B:631:VAL:HA	1:C:63:THR:O	1.38	1.21
1:A:63:THR:CG2	1:C:628:GLN:NE2	2.02	1.20
1:A:78:GLN:HB2	1:A:338:ASP:OD2	1.38	1.20
1:B:436:ASN:O	1:B:438:TYR:CE2	1.94	1.20
1:A:385:PHE:CE2	1:A:414:LEU:HB2	1.76	1.20
1:A:425:CYS:HB2	1:A:428:ILE:O	1.38	1.20
1:B:335:ARG:CZ	1:B:354:PHE:CD2	2.25	1.20
1:B:326:ASP:OD2	1:B:335:ARG:HD3	1.40	1.20
1:C:343:ASP:CB	1:C:661:VAL:HG21	1.69	1.20
1:A:429:SER:HB3	1:B:1058:LEU:CD1	1.72	1.20
1:A:63:THR:HG21	1:C:628:GLN:NE2	1.55	1.19
1:B:337:ILE:CD1	1:B:348:HIS:CE1	2.25	1.19
1:B:344:LEU:HD11	1:B:663:TYR:CD1	1.77	1.19
1:B:663:TYR:HE2	1:B:665:LYS:CA	1.54	1.19
1:B:511:ARG:HH22	1:C:575:VAL:HG21	1.04	1.18
1:A:348:HIS:HE1	1:A:356:VAL:CG2	1.57	1.18
1:A:429:SER:CB	1:B:1058:LEU:CG	2.15	1.18
1:A:429:SER:HB3	1:B:1058:LEU:CB	1.72	1.18
1:A:627:GLN:NE2	1:B:271:VAL:HG22	1.57	1.18
1:B:347:LEU:HD13	1:B:361:TYR:CD2	1.77	1.18
1:B:1053:ASP:HA	1:B:1057:ARG:CG	1.74	1.18
1:C:1051:ILE:HB	1:C:1054:ILE:HG13	1.26	1.18
1:A:335:ARG:CB	1:A:354:PHE:HZ	1.46	1.18
1:A:338:ASP:O	1:A:345:SER:HB2	1.03	1.18
1:A:425:CYS:CB	1:A:428:ILE:HG23	1.73	1.17
1:A:335:ARG:CB	1:A:354:PHE:CE2	2.27	1.17
1:B:347:LEU:HD22	1:B:361:TYR:CD1	1.80	1.17
1:A:342:ASN:ND2	1:A:344:LEU:HD23	1.56	1.17
1:B:347:LEU:CD2	1:B:361:TYR:CG	2.26	1.17
1:A:377:GLN:NE2	1:A:585:CYS:CB	2.06	1.17
1:A:521:ASN:CB	1:B:260:ALA:CB	2.23	1.17
1:A:580:ASP:OD2	1:A:628:GLN:HB3	1.43	1.16
1:A:377:GLN:NE2	1:A:585:CYS:HB3	1.59	1.16
1:C:341:PHE:CZ	1:C:696:MET:HG3	1.80	1.16
1:A:348:HIS:CE1	1:A:356:VAL:CG2	2.27	1.16
1:A:521:ASN:CB	1:B:260:ALA:HB1	1.75	1.16
1:B:510:ASP:O	1:B:511:ARG:HD2	1.44	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:623:VAL:CG1	1:C:65:SER:HB2	1.75	1.15
1:A:335:ARG:CD	1:A:354:PHE:CE2	2.17	1.15
1:A:520:ALA:CB	1:A:521:ASN:ND2	2.08	1.15
1:A:271:VAL:CG2	1:C:627:GLN:OE1	1.95	1.15
1:A:344:LEU:HD21	1:A:670:HIS:CB	1.76	1.15
1:A:583:SER:CB	1:A:609:TYR:CD1	2.29	1.15
1:B:575:VAL:O	1:B:577:TYR:HD2	1.24	1.15
1:B:625:VAL:HG21	1:C:63:THR:CB	1.77	1.15
1:A:578:GLY:O	1:A:611:VAL:CG1	1.94	1.15
1:A:623:VAL:HG12	1:B:65:SER:CB	1.69	1.15
1:A:63:THR:HB	1:C:625:VAL:HG21	1.23	1.14
1:C:1053:ASP:HB2	1:C:1058:LEU:HD12	1.23	1.14
1:C:1058:LEU:CD1	1:C:1063:GLN:HA	1.77	1.14
1:B:337:ILE:HD13	1:B:348:HIS:ND1	1.60	1.14
1:B:578:GLY:HA2	1:B:579:THR:HG23	1.16	1.14
1:A:338:ASP:O	1:A:345:SER:CB	1.95	1.14
1:A:66:ASN:HB2	1:A:329:VAL:CA	1.78	1.13
1:A:578:GLY:O	1:A:611:VAL:HG13	1.47	1.13
1:B:350:SER:O	1:B:351:TYR:CD1	2.02	1.13
1:B:439:SER:HB2	1:B:581:THR:C	1.69	1.13
1:A:521:ASN:HB3	1:B:260:ALA:HB1	1.28	1.13
1:A:437:CYS:HB2	1:A:609:TYR:O	1.47	1.13
1:A:521:ASN:HB2	1:B:260:ALA:HB2	1.17	1.13
1:B:348:HIS:HA	1:B:356:VAL:HG22	1.26	1.13
1:B:377:GLN:HE21	1:B:585:CYS:HB2	1.14	1.12
1:A:436:ASN:OD1	1:B:1056:GLN:HG2	1.47	1.12
1:A:580:ASP:OD2	1:A:628:GLN:HB2	1.38	1.12
1:B:439:SER:OG	1:B:581:THR:CA	1.98	1.12
1:B:629:ARG:O	1:B:642:TYR:HB2	1.50	1.12
1:B:343:ASP:HB2	1:B:661:VAL:CG2	1.70	1.11
1:A:628:GLN:HE21	1:B:63:THR:HG22	1.06	1.11
1:A:335:ARG:HB2	1:A:354:PHE:CE2	1.85	1.11
1:C:343:ASP:HB2	1:C:661:VAL:HG21	1.23	1.11
1:B:476:PRO:CD	1:B:577:TYR:CD2	2.33	1.11
1:B:337:ILE:CD1	1:B:348:HIS:ND1	2.14	1.10
1:A:58:TYR:HD2	1:A:59:PRO:HD2	1.16	1.10
1:A:348:HIS:CE1	1:A:356:VAL:HG22	1.86	1.10
1:A:377:GLN:CG	1:A:585:CYS:HB2	1.82	1.10
1:B:623:VAL:HG11	1:C:65:SER:HB2	1.13	1.10
1:A:685:THR:HG22	1:A:697:LEU:CD1	1.81	1.10
1:A:343:ASP:HB3	1:A:661:VAL:CG2	1.68	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:629:ARG:O	1:B:642:TYR:CB	2.00	1.09
1:A:58:TYR:HD1	1:A:279:PHE:CZ	1.67	1.09
1:A:429:SER:HA	1:B:1058:LEU:HD22	1.22	1.09
1:B:348:HIS:CA	1:B:356:VAL:CG2	2.30	1.09
1:B:632:TYR:CE2	1:C:62:ARG:CB	2.35	1.09
1:A:78:GLN:CB	1:A:338:ASP:OD2	2.01	1.09
1:B:335:ARG:NE	1:B:354:PHE:CD2	2.21	1.09
1:B:1058:LEU:HD12	1:B:1059:ASP:HA	1.25	1.09
1:A:385:PHE:HE2	1:A:414:LEU:HB2	1.02	1.08
1:C:1053:ASP:OD2	1:C:1066:GLN:OE1	1.70	1.08
1:C:1058:LEU:CD1	1:C:1063:GLN:CA	2.30	1.08
1:C:70:THR:HG23	1:C:352:GLU:CG	1.82	1.08
1:B:343:ASP:HB3	1:B:661:VAL:HG23	1.31	1.08
1:C:812:ASN:HD22	1:C:1051:ILE:HD11	1.00	1.08
1:C:1054:ILE:HD13	1:C:1056:GLN:HE21	1.19	1.08
1:A:520:ALA:C	1:A:521:ASN:HD22	1.55	1.07
1:A:692:SER:CB	1:A:696:MET:O	2.02	1.07
1:B:344:LEU:CD1	1:B:663:TYR:CD1	2.36	1.07
1:B:509:ASP:O	1:C:436:ASN:OD1	1.69	1.07
1:B:1051:ILE:HB	1:B:1054:ILE:HG23	1.30	1.07
1:C:58:TYR:HD1	1:C:279:PHE:CZ	1.67	1.07
1:A:343:ASP:HB3	1:A:661:VAL:HG21	1.13	1.07
1:A:347:LEU:HD21	1:A:361:TYR:CG	1.88	1.07
1:A:437:CYS:CB	1:A:609:TYR:O	2.02	1.07
1:C:324:LEU:HG	1:C:354:PHE:HE1	1.14	1.07
1:C:343:ASP:HB3	1:C:661:VAL:CG2	1.80	1.07
1:A:63:THR:OG1	1:C:625:VAL:HG21	1.52	1.07
1:A:436:ASN:ND2	1:B:1056:GLN:O	1.87	1.07
1:B:58:TYR:HD2	1:B:59:PRO:HD2	1.16	1.07
1:A:577:TYR:CD2	1:B:1057:ARG:NH2	2.22	1.07
1:A:685:THR:HA	1:A:697:LEU:HG	1.37	1.07
1:B:58:TYR:HD1	1:B:279:PHE:CZ	1.67	1.07
1:B:377:GLN:OE1	1:B:408:ASN:ND2	1.88	1.07
1:C:324:LEU:CD1	1:C:337:ILE:HD12	1.85	1.07
1:A:428:ILE:C	1:B:1058:LEU:HB2	1.75	1.06
1:A:580:ASP:CG	1:A:628:GLN:HB2	1.75	1.06
1:B:343:ASP:HB3	1:B:661:VAL:HG21	1.14	1.06
1:B:663:TYR:CE2	1:B:665:LYS:CA	2.37	1.06
1:A:377:GLN:HG2	1:A:585:CYS:HB2	1.31	1.06
1:A:63:THR:HG21	1:C:628:GLN:CG	1.86	1.05
1:A:66:ASN:HB2	1:A:329:VAL:HA	1.07	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:511:ARG:HD3	1:C:436:ASN:HB3	1.32	1.05
1:B:582:ASN:HB2	1:B:609:TYR:HD2	0.93	1.05
1:C:58:TYR:HD2	1:C:59:PRO:HD2	1.16	1.05
1:A:63:THR:HG22	1:C:628:GLN:HE21	0.94	1.05
1:C:70:THR:HG23	1:C:352:GLU:HG3	1.06	1.05
1:B:628:GLN:HG2	1:C:63:THR:HG21	1.36	1.05
1:A:63:THR:OG1	1:C:625:VAL:CG2	2.05	1.05
1:A:335:ARG:HB3	1:A:354:PHE:CZ	1.87	1.04
1:A:342:ASN:ND2	1:A:344:LEU:CD2	2.18	1.04
1:A:577:TYR:HD1	1:A:610:GLY:O	1.00	1.04
1:B:347:LEU:HD11	1:B:361:TYR:HB2	1.06	1.04
1:B:511:ARG:HD3	1:C:436:ASN:CB	1.87	1.04
1:B:335:ARG:NE	1:B:354:PHE:HD2	1.54	1.04
1:A:68:THR:CG2	1:A:326:ASP:HA	1.89	1.03
1:A:343:ASP:HB2	1:A:661:VAL:HG21	1.24	1.03
1:A:520:ALA:CB	1:A:521:ASN:HD22	1.68	1.03
1:B:439:SER:CB	1:B:581:THR:C	2.26	1.03
1:C:1058:LEU:HD11	1:C:1063:GLN:HA	1.07	1.03
1:A:623:VAL:HG12	1:B:65:SER:HB3	1.37	1.02
1:A:343:ASP:HB2	1:A:661:VAL:CG2	1.72	1.02
1:C:1051:ILE:HB	1:C:1054:ILE:CG1	1.90	1.02
1:C:1058:LEU:HD21	1:C:1062:GLU:HB2	1.40	1.02
1:A:441:LEU:HD12	1:A:575:VAL:HG12	1.39	1.02
1:C:1058:LEU:HD11	1:C:1063:GLN:CB	1.90	1.02
1:B:511:ARG:CD	1:C:436:ASN:ND2	2.06	1.01
1:A:441:LEU:CD1	1:A:575:VAL:HG12	1.91	1.01
1:B:439:SER:CA	1:B:582:ASN:H	1.71	1.01
1:C:344:LEU:HD21	1:C:670:HIS:CG	1.94	1.01
1:A:70:THR:HB	1:A:323:PHE:O	1.59	1.01
1:B:326:ASP:HB3	1:B:335:ARG:HG2	1.39	1.01
1:C:65:SER:O	1:C:67:ILE:N	1.92	1.01
1:A:627:GLN:HE21	1:B:271:VAL:HG22	1.21	1.01
1:B:65:SER:O	1:B:67:ILE:N	1.92	1.01
1:B:577:TYR:CD1	1:C:1057:ARG:NH1	2.28	1.01
1:A:65:SER:HB2	1:C:623:VAL:CG1	1.91	1.01
1:A:70:THR:HG22	1:A:324:LEU:HA	1.43	1.00
1:A:685:THR:CB	1:A:697:LEU:HD11	1.90	1.00
1:B:335:ARG:CD	1:B:354:PHE:CE2	2.42	1.00
1:B:663:TYR:CE2	1:B:665:LYS:CB	2.36	1.00
1:B:438:TYR:O	1:B:584:VAL:HB	1.62	1.00
1:B:577:TYR:HD1	1:C:1057:ARG:NH1	1.58	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1058:LEU:CD1	1:B:1059:ASP:HA	1.92	1.00
1:B:261:GLN:N	1:B:261:GLN:OE1	1.93	0.99
1:A:350:SER:O	1:A:351:TYR:HB2	1.59	0.99
1:B:344:LEU:CD1	1:B:663:TYR:HD1	1.75	0.99
1:C:335:ARG:CB	1:C:354:PHE:CE2	2.29	0.99
1:A:377:GLN:NE2	1:A:585:CYS:HB2	1.77	0.99
1:A:442:ILE:HD11	1:B:261:GLN:HG3	1.44	0.99
1:B:623:VAL:CG1	1:C:329:VAL:O	2.11	0.99
1:A:63:THR:HG21	1:C:628:GLN:CD	1.84	0.99
1:C:1054:ILE:O	1:C:1063:GLN:NE2	1.96	0.99
1:C:323:PHE:CE1	1:C:338:ASP:OD1	2.14	0.98
1:A:344:LEU:HD12	1:A:663:TYR:CE1	1.98	0.98
1:B:401:ARG:HH12	1:C:260:ALA:HB1	1.28	0.98
1:A:337:ILE:HD12	1:A:348:HIS:HB3	1.45	0.98
1:B:428:ILE:HD12	1:B:577:TYR:HH	1.23	0.98
1:A:436:ASN:OD1	1:B:1056:GLN:CG	2.12	0.98
1:C:1054:ILE:HD12	1:C:1054:ILE:H	1.25	0.98
1:A:377:GLN:HE21	1:A:585:CYS:HB3	0.83	0.97
1:A:341:PHE:CD1	1:A:696:MET:HB2	1.99	0.97
1:A:583:SER:O	1:A:584:VAL:HG23	1.60	0.97
1:A:429:SER:OG	1:B:1058:LEU:HD13	1.64	0.97
1:B:1051:ILE:CB	1:B:1054:ILE:HG23	1.93	0.97
1:C:343:ASP:HB3	1:C:661:VAL:HG23	1.46	0.97
1:A:63:THR:CG2	1:C:628:GLN:CG	2.43	0.97
1:B:347:LEU:CD1	1:B:361:TYR:CB	2.43	0.97
1:B:377:GLN:HE21	1:B:585:CYS:CB	1.78	0.97
1:A:342:ASN:HD21	1:A:344:LEU:HD23	1.25	0.97
1:B:377:GLN:NE2	1:B:585:CYS:HB2	1.80	0.96
1:B:1053:ASP:HA	1:B:1057:ARG:HG2	1.44	0.96
1:C:70:THR:CG2	1:C:352:GLU:HG3	1.95	0.96
1:B:348:HIS:CA	1:B:356:VAL:HG21	1.94	0.96
1:C:1054:ILE:HA	1:C:1063:GLN:HE21	1.27	0.96
1:B:376:GLU:O	1:B:609:TYR:CD1	2.17	0.96
1:C:337:ILE:HG21	1:C:348:HIS:HB2	1.47	0.96
1:B:347:LEU:HD11	1:B:361:TYR:CB	1.96	0.96
1:A:685:THR:HG22	1:A:697:LEU:HD11	0.98	0.96
1:A:596:ILE:HG22	1:A:597:ALA:H	1.29	0.96
1:A:437:CYS:O	1:A:610:GLY:HA2	1.66	0.96
1:A:628:GLN:NE2	1:B:63:THR:HG22	1.81	0.96
1:C:1058:LEU:HD11	1:C:1063:GLN:N	1.80	0.96
1:A:520:ALA:CA	1:A:521:ASN:HD22	1.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:583:SER:O	1:A:584:VAL:CG2	2.14	0.95
1:A:68:THR:HG21	1:A:326:ASP:HA	1.48	0.95
1:B:432:ALA:HB2	1:C:1055:ILE:O	1.64	0.95
1:C:343:ASP:CB	1:C:661:VAL:HG23	1.96	0.95
1:C:344:LEU:HD21	1:C:670:HIS:CB	1.96	0.95
1:C:335:ARG:HD2	1:C:354:PHE:CD2	2.02	0.95
1:C:342:ASN:OD1	1:C:344:LEU:N	1.97	0.95
1:B:476:PRO:CG	1:B:577:TYR:CE2	2.50	0.95
1:A:329:VAL:O	1:C:623:VAL:HG13	1.67	0.95
1:A:337:ILE:HD13	1:A:348:HIS:CD2	2.01	0.95
1:B:625:VAL:CG2	1:C:63:THR:CB	2.40	0.95
1:B:343:ASP:CB	1:B:661:VAL:HG23	1.82	0.94
1:B:428:ILE:CG1	1:C:1056:GLN:O	2.15	0.94
1:A:577:TYR:HD1	1:A:610:GLY:C	1.69	0.94
1:B:261:GLN:O	1:B:287:TYR:HE1	1.51	0.94
1:A:425:CYS:HB3	1:A:428:ILE:HG23	0.95	0.94
1:A:580:ASP:CB	1:A:628:GLN:HB2	1.96	0.94
1:A:822:ARG:CG	1:C:72:GLN:OE1	2.12	0.94
1:B:261:GLN:O	1:B:287:TYR:CE1	2.21	0.94
1:B:343:ASP:OD1	1:B:363:VAL:CG1	2.16	0.94
1:B:441:LEU:HD23	1:B:442:ILE:N	1.83	0.94
1:B:476:PRO:HG2	1:B:577:TYR:CZ	2.03	0.94
1:C:1058:LEU:HD22	1:C:1059:ASP:N	1.83	0.94
1:B:344:LEU:HD12	1:B:663:TYR:HD1	1.31	0.94
1:C:324:LEU:HG	1:C:354:PHE:CE1	2.01	0.93
1:B:349:CYS:O	1:B:351:TYR:N	2.01	0.93
1:B:511:ARG:HH22	1:C:575:VAL:CG2	1.80	0.93
1:B:1053:ASP:HA	1:B:1057:ARG:HG3	1.45	0.93
1:A:579:THR:HB	1:B:61:GLY:O	1.68	0.93
1:A:697:LEU:HD22	1:A:698:LYS:N	1.84	0.93
1:C:1058:LEU:CD2	1:C:1062:GLU:HB2	1.99	0.93
1:A:65:SER:HB2	1:C:623:VAL:HG11	1.50	0.93
1:A:429:SER:CA	1:B:1058:LEU:CD2	2.39	0.93
1:B:663:TYR:CE2	1:B:665:LYS:HA	2.03	0.93
1:A:70:THR:CG2	1:A:324:LEU:HA	1.99	0.93
1:A:377:GLN:CD	1:A:585:CYS:HB2	1.89	0.93
1:C:1053:ASP:HB3	1:C:1058:LEU:N	1.82	0.93
1:A:523:TYR:HD2	1:B:288:ASP:OD1	1.51	0.93
1:A:685:THR:HA	1:A:697:LEU:CG	1.98	0.93
1:B:441:LEU:HD23	1:B:442:ILE:H	1.33	0.93
1:B:625:VAL:HG21	1:C:63:THR:HB	0.92	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:623:VAL:CG1	1:C:65:SER:CB	2.46	0.92
1:B:634:ALA:HB2	1:C:67:ILE:CD1	2.00	0.92
1:B:1032:ALA:O	1:B:1036:LEU:HB2	1.69	0.92
1:C:58:TYR:CD2	1:C:59:PRO:HD2	2.04	0.92
1:C:1050:SER:O	1:C:1051:ILE:CD1	2.13	0.92
1:A:1032:ALA:O	1:A:1036:LEU:HB2	1.69	0.92
1:B:578:GLY:CA	1:B:579:THR:CB	2.44	0.92
1:B:1058:LEU:HG	1:B:1059:ASP:HB3	1.52	0.92
1:A:66:ASN:O	1:A:327:PHE:O	1.88	0.92
1:C:324:LEU:HD13	1:C:337:ILE:HD12	1.50	0.92
1:C:337:ILE:HD13	1:C:348:HIS:CG	2.03	0.92
1:A:383:CYS:HB3	1:A:404:PHE:CD1	2.05	0.92
1:B:442:ILE:HD11	1:C:261:GLN:HG2	1.52	0.92
1:C:812:ASN:ND2	1:C:1051:ILE:HD11	1.84	0.92
1:A:271:VAL:HG22	1:C:627:GLN:CD	1.90	0.91
1:A:583:SER:HB2	1:A:609:TYR:HD1	1.27	0.91
1:B:476:PRO:HG2	1:B:577:TYR:CE2	2.05	0.91
1:A:66:ASN:HA	1:A:328:SER:O	1.70	0.91
1:C:1032:ALA:O	1:C:1036:LEU:HB2	1.69	0.91
1:B:58:TYR:CD2	1:B:59:PRO:HD2	2.05	0.91
1:C:341:PHE:CZ	1:C:696:MET:CG	2.53	0.91
1:A:58:TYR:CD2	1:A:59:PRO:HD2	2.05	0.91
1:B:347:LEU:CD1	1:B:361:TYR:CD2	2.53	0.91
1:B:1050:SER:C	1:B:1051:ILE:HD13	1.91	0.91
1:A:429:SER:N	1:B:1058:LEU:HB2	1.86	0.91
1:B:634:ALA:HB2	1:C:67:ILE:HD11	1.52	0.91
1:C:812:ASN:ND2	1:C:1051:ILE:CD1	2.34	0.91
1:B:583:SER:H	1:B:609:TYR:CB	1.83	0.90
1:B:476:PRO:HB2	1:B:577:TYR:CE2	2.07	0.90
1:B:376:GLU:O	1:B:609:TYR:HD1	1.55	0.90
1:B:345:SER:O	1:B:348:HIS:HB3	1.72	0.90
1:B:582:ASN:CB	1:B:609:TYR:CD2	2.52	0.90
1:A:344:LEU:HD21	1:A:670:HIS:HB3	1.54	0.90
1:A:596:ILE:C	1:A:598:SER:H	1.75	0.90
1:C:1053:ASP:CG	1:C:1058:LEU:HB3	1.92	0.90
1:C:1054:ILE:H	1:C:1056:GLN:HE22	1.11	0.90
1:B:264:HIS:CE1	1:B:283:THR:OG1	2.24	0.90
1:A:66:ASN:CB	1:A:329:VAL:HA	1.98	0.89
1:B:343:ASP:CB	1:B:363:VAL:HG21	2.01	0.89
1:B:439:SER:HG	1:B:581:THR:HA	1.32	0.89
1:B:583:SER:H	1:B:609:TYR:HB2	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1054:ILE:N	1:C:1056:GLN:HE22	1.68	0.89
1:A:324:LEU:HB3	1:A:337:ILE:HB	1.55	0.89
1:A:577:TYR:HE2	1:B:1057:ARG:NH2	1.63	0.89
1:C:1062:GLU:O	1:C:1065:ALA:N	2.05	0.89
1:A:63:THR:HG22	1:C:628:GLN:NE2	1.76	0.89
1:A:429:SER:HA	1:B:1058:LEU:CD2	2.00	0.89
1:C:338:ASP:O	1:C:339:CYS:HB2	1.72	0.89
1:B:476:PRO:HD2	1:B:577:TYR:HD2	1.32	0.89
1:C:347:LEU:HD21	1:C:661:VAL:HG11	1.55	0.89
1:A:335:ARG:CG	1:A:354:PHE:HE2	1.85	0.88
1:B:348:HIS:N	1:B:356:VAL:HG21	1.87	0.88
1:C:341:PHE:CE1	1:C:696:MET:CG	2.56	0.88
1:B:738:LEU:HD11	1:C:943:MET:SD	2.13	0.88
1:C:324:LEU:CD1	1:C:354:PHE:CE1	2.56	0.88
1:A:596:ILE:HG22	1:A:597:ALA:N	1.87	0.88
1:B:631:VAL:HG23	1:C:64:TYR:HA	1.54	0.88
1:A:343:ASP:CB	1:A:661:VAL:HG22	2.02	0.88
1:A:943:MET:SD	1:C:738:LEU:HD11	2.13	0.88
1:B:510:ASP:O	1:B:511:ARG:CD	2.18	0.88
1:A:583:SER:CB	1:A:609:TYR:HE1	1.69	0.88
1:A:344:LEU:HD21	1:A:670:HIS:CG	2.08	0.88
1:A:347:LEU:CD2	1:A:361:TYR:CB	2.52	0.88
1:B:344:LEU:HD22	1:B:670:HIS:CA	2.04	0.88
1:A:324:LEU:HD11	1:A:353:SER:N	1.88	0.88
1:B:1058:LEU:HG	1:B:1059:ASP:CB	2.04	0.88
1:B:812:ASN:HD22	1:B:1051:ILE:CD1	1.87	0.88
1:A:425:CYS:HB3	1:A:428:ILE:HG22	1.52	0.87
1:B:511:ARG:NH2	1:C:575:VAL:HG21	1.89	0.87
1:A:581:THR:CG2	1:A:582:ASN:HA	2.04	0.87
1:A:738:LEU:HD11	1:B:943:MET:SD	2.15	0.87
1:A:583:SER:HB3	1:A:629:ARG:NH2	1.90	0.87
1:B:579:THR:O	1:C:61:GLY:HA2	1.75	0.87
1:C:343:ASP:HB2	1:C:661:VAL:HG22	1.57	0.86
1:A:578:GLY:HA2	1:A:579:THR:OG1	1.74	0.86
1:B:259:THR:OG1	1:B:264:HIS:CD2	2.28	0.86
1:C:323:PHE:HE1	1:C:338:ASP:OD1	1.54	0.86
1:A:429:SER:HB3	1:B:1058:LEU:HD13	1.35	0.86
1:A:429:SER:HB3	1:B:1058:LEU:HB2	1.57	0.86
1:B:578:GLY:CA	1:B:579:THR:HG23	2.02	0.86
1:B:623:VAL:HG11	1:C:65:SER:CB	2.03	0.86
1:B:1051:ILE:CG1	1:B:1054:ILE:HG23	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:ASP:C	1:A:404:PHE:HE1	1.77	0.86
1:A:677:VAL:HG11	1:B:909:TYR:CE2	2.11	0.86
1:B:347:LEU:CG	1:B:361:TYR:CB	2.53	0.86
1:B:578:GLY:HA2	1:B:579:THR:CB	2.04	0.86
1:A:347:LEU:HD21	1:A:361:TYR:HB3	1.55	0.85
1:A:342:ASN:HD21	1:A:344:LEU:CD2	1.85	0.85
1:A:429:SER:HB2	1:B:1058:LEU:CD1	1.93	0.85
1:B:582:ASN:CB	1:B:609:TYR:HD2	1.85	0.85
1:B:628:GLN:HG2	1:C:63:THR:CG2	2.07	0.85
1:B:677:VAL:HG11	1:C:909:TYR:CE2	2.11	0.85
1:B:812:ASN:HD22	1:B:1051:ILE:HD11	1.41	0.85
1:B:1053:ASP:CA	1:B:1057:ARG:HG3	2.07	0.85
1:B:436:ASN:O	1:B:438:TYR:HE2	1.57	0.85
1:A:628:GLN:HE21	1:B:63:THR:CG2	1.88	0.85
1:C:343:ASP:HB3	1:C:363:VAL:HG21	1.58	0.85
1:B:1053:ASP:CB	1:B:1057:ARG:HG3	2.07	0.85
1:C:337:ILE:HD13	1:C:348:HIS:CB	2.07	0.85
1:B:439:SER:HB3	1:B:581:THR:HA	1.56	0.85
1:B:522:GLN:HG2	1:C:289:THR:HG22	1.59	0.85
1:B:578:GLY:CA	1:B:579:THR:CG2	2.55	0.85
1:C:341:PHE:O	1:C:342:ASN:ND2	2.10	0.84
1:A:337:ILE:CD1	1:A:348:HIS:HB3	2.07	0.84
1:A:628:GLN:HG2	1:B:63:THR:CG2	2.07	0.84
1:A:627:GLN:HE21	1:B:271:VAL:CG2	1.90	0.84
1:C:343:ASP:HB3	1:C:661:VAL:HG21	1.50	0.84
1:C:1054:ILE:CA	1:C:1063:GLN:HE21	1.90	0.84
1:A:340:GLY:O	1:A:696:MET:N	2.10	0.84
1:B:632:TYR:HB2	1:C:64:TYR:CE1	2.12	0.84
1:A:344:LEU:CD1	1:A:663:TYR:CE1	2.60	0.84
1:A:429:SER:HB2	1:B:1058:LEU:HD21	1.58	0.84
1:A:909:TYR:CE2	1:C:677:VAL:HG11	2.13	0.84
1:B:439:SER:OG	1:B:581:THR:C	2.14	0.84
1:A:344:LEU:CD1	1:A:663:TYR:CD1	2.61	0.84
1:C:1024:ASP:O	1:C:1028:ASN:HB2	1.78	0.84
1:A:344:LEU:HD11	1:A:663:TYR:CD1	2.13	0.84
1:B:347:LEU:HD21	1:B:361:TYR:HB2	1.56	0.83
1:C:1053:ASP:CB	1:C:1058:LEU:HD12	2.06	0.83
1:C:1058:LEU:CD1	1:C:1063:GLN:CB	2.52	0.83
1:A:343:ASP:CG	1:A:661:VAL:CG2	2.47	0.83
1:B:1051:ILE:O	1:B:1054:ILE:HG13	1.78	0.83
1:B:522:GLN:HG2	1:C:289:THR:CG2	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1024:ASP:O	1:B:1028:ASN:HB2	1.78	0.83
1:A:337:ILE:CD1	1:A:348:HIS:CD2	2.61	0.83
1:A:1024:ASP:O	1:A:1028:ASN:HB2	1.78	0.83
1:B:335:ARG:CB	1:B:354:PHE:HE2	1.91	0.83
1:A:347:LEU:HD21	1:A:361:TYR:HB2	1.61	0.83
1:B:347:LEU:CD1	1:B:361:TYR:CG	2.62	0.83
1:B:348:HIS:HA	1:B:356:VAL:HG21	1.50	0.83
1:A:425:CYS:CB	1:A:428:ILE:O	2.26	0.82
1:C:1055:ILE:H	1:C:1056:GLN:CD	1.82	0.82
1:B:347:LEU:CG	1:B:361:TYR:HB2	2.08	0.82
1:B:442:ILE:HD11	1:C:261:GLN:CG	2.08	0.82
1:C:337:ILE:HD13	1:C:348:HIS:HB3	1.60	0.82
1:B:343:ASP:HB2	1:B:661:VAL:HG22	1.59	0.82
1:C:324:LEU:HD12	1:C:354:PHE:CD1	2.13	0.82
1:B:439:SER:HB3	1:B:581:THR:HG22	1.59	0.82
1:B:629:ARG:O	1:B:642:TYR:HB3	1.79	0.82
1:B:264:HIS:ND1	1:B:283:THR:OG1	2.13	0.82
1:B:348:HIS:O	1:B:353:SER:O	1.98	0.82
1:A:383:CYS:SG	1:A:404:PHE:HB3	2.19	0.82
1:B:343:ASP:OD2	1:B:363:VAL:HB	1.79	0.82
1:B:349:CYS:O	1:B:352:GLU:N	2.13	0.82
1:A:580:ASP:OD2	1:A:628:GLN:CG	2.26	0.82
1:A:343:ASP:HB2	1:A:661:VAL:HG22	1.58	0.82
1:A:520:ALA:HB1	1:A:521:ASN:HD21	0.99	0.82
1:B:70:THR:HG23	1:B:352:GLU:HG3	1.62	0.82
1:B:428:ILE:HA	1:C:1057:ARG:C	2.00	0.81
1:A:628:GLN:NE2	1:B:63:THR:CG2	2.43	0.81
1:B:441:LEU:CD2	1:B:442:ILE:N	2.43	0.81
1:B:510:ASP:HB3	1:C:436:ASN:HD21	1.42	0.81
1:C:324:LEU:CG	1:C:354:PHE:CE1	2.63	0.81
1:C:1053:ASP:OD1	1:C:1058:LEU:HB3	1.79	0.81
1:A:430:PRO:O	1:A:433:ILE:HG22	1.80	0.81
1:C:58:TYR:CD1	1:C:279:PHE:HZ	1.99	0.81
1:A:432:ALA:HB1	1:B:1056:GLN:O	1.80	0.81
1:A:628:GLN:CG	1:B:63:THR:CG2	2.57	0.81
1:B:344:LEU:CG	1:B:670:HIS:HB3	2.08	0.81
1:A:343:ASP:OD2	1:A:661:VAL:CG2	2.29	0.81
1:A:343:ASP:OD2	1:A:661:VAL:HG22	1.81	0.81
1:A:377:GLN:HG2	1:A:585:CYS:CB	2.10	0.81
1:A:406:ASN:HA	1:A:583:SER:OG	1.80	0.81
1:A:348:HIS:HE1	1:A:356:VAL:HG23	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:428:ILE:CD1	1:B:577:TYR:OH	2.24	0.81
1:B:628:GLN:CG	1:C:63:THR:HG21	2.11	0.80
1:C:1054:ILE:HD13	1:C:1056:GLN:NE2	1.76	0.80
1:A:697:LEU:HD13	1:A:697:LEU:O	1.79	0.80
1:B:632:TYR:CZ	1:C:62:ARG:CB	2.64	0.80
1:A:521:ASN:HB3	1:B:260:ALA:CB	2.00	0.80
1:B:522:GLN:CD	1:C:289:THR:HG21	2.02	0.80
1:A:520:ALA:C	1:A:521:ASN:ND2	2.34	0.80
1:A:522:GLN:HG2	1:B:289:THR:HG22	1.64	0.80
1:A:677:VAL:HG21	1:B:909:TYR:HD2	1.47	0.80
1:B:511:ARG:CD	1:C:436:ASN:HB3	2.10	0.80
1:B:634:ALA:CB	1:C:67:ILE:HD11	2.11	0.80
1:C:129:THR:HG22	1:C:131:ILE:H	1.47	0.80
1:B:335:ARG:O	1:B:354:PHE:HZ	1.65	0.79
1:B:677:VAL:HG21	1:C:909:TYR:CD2	2.17	0.79
1:B:377:GLN:CD	1:B:408:ASN:HD21	1.84	0.79
1:B:583:SER:N	1:B:609:TYR:HB2	1.97	0.79
1:B:129:THR:HG22	1:B:131:ILE:H	1.47	0.79
1:B:348:HIS:CA	1:B:356:VAL:HG22	2.06	0.79
1:C:954:SER:O	1:C:958:VAL:HB	1.82	0.79
1:A:954:SER:O	1:A:958:VAL:HB	1.82	0.79
1:B:1051:ILE:HB	1:B:1054:ILE:CG2	2.12	0.79
1:B:476:PRO:CB	1:B:577:TYR:CE2	2.65	0.79
1:B:677:VAL:HG21	1:C:909:TYR:HD2	1.47	0.79
1:A:63:THR:CB	1:C:625:VAL:CG2	2.52	0.79
1:B:439:SER:HB2	1:B:581:THR:CA	1.96	0.79
1:B:511:ARG:CD	1:C:436:ASN:CB	2.61	0.79
1:C:1054:ILE:HA	1:C:1063:GLN:NE2	1.98	0.79
1:A:436:ASN:OD1	1:B:1056:GLN:CB	2.31	0.79
1:B:429:SER:HB3	1:C:1059:ASP:HA	1.64	0.79
1:A:523:TYR:CD2	1:B:288:ASP:OD1	2.35	0.78
1:B:628:GLN:CG	1:C:63:THR:CG2	2.61	0.78
1:A:429:SER:HB2	1:B:1058:LEU:CG	1.93	0.78
1:A:583:SER:HB3	1:A:609:TYR:CE1	2.18	0.78
1:A:129:THR:HG22	1:A:131:ILE:H	1.47	0.78
1:B:1053:ASP:HB3	1:B:1057:ARG:HG3	1.64	0.78
1:C:58:TYR:CD1	1:C:279:PHE:CE2	2.71	0.78
1:B:954:SER:O	1:B:958:VAL:HB	1.82	0.78
1:A:344:LEU:HD11	1:A:663:TYR:HD1	1.47	0.78
1:A:909:TYR:HD2	1:C:677:VAL:HG21	1.49	0.78
1:C:324:LEU:CG	1:C:354:PHE:HE1	1.92	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:TYR:CD1	1:A:279:PHE:CE2	2.71	0.78
1:B:337:ILE:HD13	1:B:348:HIS:CE1	2.03	0.78
1:B:58:TYR:CD1	1:B:279:PHE:CE2	2.71	0.78
1:A:692:SER:HB2	1:A:696:MET:O	1.84	0.78
1:B:429:SER:HB3	1:C:1059:ASP:CA	2.14	0.78
1:A:335:ARG:CG	1:A:354:PHE:CE2	2.64	0.77
1:A:403:VAL:HG13	1:A:441:LEU:O	1.84	0.77
1:A:427:GLN:HE21	1:A:427:GLN:HA	1.47	0.77
1:A:677:VAL:HG21	1:B:909:TYR:CD2	2.18	0.77
1:A:343:ASP:CB	1:A:661:VAL:HG23	2.13	0.77
1:A:906:MET:SD	1:C:678:ALA:HA	2.24	0.77
1:A:678:ALA:HA	1:B:906:MET:SD	2.25	0.77
1:B:67:ILE:O	1:B:327:PHE:HD1	1.67	0.77
1:B:1054:ILE:H	1:B:1054:ILE:HD12	1.48	0.77
1:C:67:ILE:O	1:C:327:PHE:HD1	1.67	0.77
1:C:337:ILE:HG21	1:C:348:HIS:CB	2.13	0.77
1:A:65:SER:HB2	1:C:623:VAL:HG12	1.65	0.77
1:B:623:VAL:HG12	1:C:65:SER:CB	2.14	0.76
1:B:678:ALA:HA	1:C:906:MET:SD	2.25	0.76
1:A:909:TYR:CD2	1:C:677:VAL:HG21	2.20	0.76
1:A:344:LEU:HD12	1:A:663:TYR:HE1	1.47	0.76
1:B:439:SER:HB3	1:B:581:THR:CG2	2.15	0.76
1:B:1058:LEU:CG	1:B:1059:ASP:HA	2.15	0.76
1:A:63:THR:CG2	1:C:628:GLN:HG3	2.13	0.76
1:A:63:THR:HG21	1:C:628:GLN:HG2	1.67	0.76
1:B:427:GLN:HE21	1:C:1047:ILE:HD11	1.51	0.76
1:B:579:THR:C	1:C:61:GLY:CA	2.49	0.76
1:A:428:ILE:HG23	1:A:478:CYS:SG	2.26	0.76
1:B:575:VAL:C	1:B:577:TYR:CD2	2.58	0.76
1:A:321:LEU:HA	1:B:822:ARG:NH1	2.01	0.76
1:A:628:GLN:HG2	1:B:63:THR:HG21	1.66	0.76
1:B:511:ARG:HD2	1:C:436:ASN:CG	2.04	0.76
1:B:344:LEU:HD11	1:B:663:TYR:CG	2.21	0.76
1:A:404:PHE:HB3	1:A:407:CYS:SG	2.25	0.76
1:B:335:ARG:CD	1:B:354:PHE:CD2	2.66	0.76
1:A:940:ASP:OD1	1:C:737:ALA:HB1	1.86	0.75
1:B:432:ALA:CB	1:C:1055:ILE:O	2.34	0.75
1:A:58:TYR:CE1	1:A:279:PHE:HZ	2.05	0.75
1:C:1050:SER:C	1:C:1051:ILE:HD13	2.05	0.75
1:B:326:ASP:CB	1:B:335:ARG:HG2	2.15	0.75
1:B:335:ARG:NE	1:B:354:PHE:CE2	2.53	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:337:ILE:HD11	1:B:348:HIS:HE1	1.45	0.75
1:C:1054:ILE:CA	1:C:1063:GLN:NE2	2.49	0.75
1:A:715:LEU:HD21	1:B:936:PRO:HG2	1.68	0.75
1:B:715:LEU:HD21	1:C:936:PRO:HG2	1.67	0.75
1:C:337:ILE:CD1	1:C:348:HIS:HB3	2.16	0.75
1:A:441:LEU:CD1	1:A:575:VAL:CG1	2.65	0.75
1:C:324:LEU:CD1	1:C:337:ILE:CD1	2.63	0.75
1:B:347:LEU:HD13	1:B:361:TYR:CG	2.19	0.75
1:C:1054:ILE:C	1:C:1063:GLN:NE2	2.38	0.75
1:A:337:ILE:HG21	1:A:348:HIS:HB2	1.69	0.74
1:C:1053:ASP:O	1:C:1063:GLN:HG3	1.87	0.74
1:A:66:ASN:HB2	1:A:329:VAL:N	2.02	0.74
1:A:341:PHE:CD1	1:A:696:MET:CB	2.70	0.74
1:B:343:ASP:HB3	1:B:363:VAL:HG21	1.68	0.74
1:A:634:ALA:HB2	1:B:67:ILE:HD11	1.68	0.74
1:C:58:TYR:CE1	1:C:279:PHE:HZ	2.05	0.74
1:A:337:ILE:CD1	1:A:348:HIS:CB	2.66	0.74
1:A:737:ALA:HB1	1:B:940:ASP:OD1	1.88	0.74
1:A:936:PRO:HG2	1:C:715:LEU:HD21	1.68	0.74
1:B:58:TYR:CE1	1:B:279:PHE:HZ	2.05	0.74
1:A:582:ASN:O	1:A:583:SER:HB3	1.86	0.74
1:C:1058:LEU:HD21	1:C:1062:GLU:CB	2.16	0.74
1:A:343:ASP:HB3	1:A:661:VAL:HG23	1.65	0.74
1:C:341:PHE:CE1	1:C:696:MET:HG2	2.22	0.74
1:A:522:GLN:CD	1:B:289:THR:HG21	2.08	0.74
1:A:68:THR:HG21	1:A:326:ASP:CA	2.17	0.74
1:A:1179:ARG:HB2	1:A:1184:TRP:HA	1.70	0.74
1:B:58:TYR:CD1	1:B:279:PHE:HZ	1.99	0.74
1:B:737:ALA:HB1	1:C:940:ASP:OD1	1.88	0.74
1:B:1054:ILE:HD12	1:B:1054:ILE:N	2.03	0.73
1:A:344:LEU:HD21	1:A:670:HIS:HB2	1.68	0.73
1:A:583:SER:HB3	1:A:629:ARG:HH21	1.52	0.73
1:B:1179:ARG:HB2	1:B:1184:TRP:HA	1.70	0.73
1:A:337:ILE:HD13	1:A:348:HIS:HD2	1.53	0.73
1:A:1114:SER:HB3	1:B:1104:ASN:HB3	1.70	0.73
1:A:405:THR:C	1:A:407:CYS:N	2.38	0.73
1:B:432:ALA:HB1	1:C:1056:GLN:CA	2.18	0.73
1:B:432:ALA:CB	1:C:1056:GLN:O	2.37	0.73
1:A:583:SER:C	1:A:584:VAL:HG23	2.09	0.73
1:A:337:ILE:HD13	1:A:348:HIS:CG	2.23	0.72
1:A:347:LEU:O	1:A:351:TYR:HB2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:324:LEU:HB2	1:C:352:GLU:O	1.89	0.72
1:A:441:LEU:HD12	1:A:575:VAL:CG1	2.17	0.72
1:B:58:TYR:CE1	1:B:279:PHE:CZ	2.77	0.72
1:B:1059:ASP:OD1	1:B:1062:GLU:OE1	2.08	0.72
1:C:324:LEU:HD11	1:C:337:ILE:CD1	2.20	0.72
1:C:1179:ARG:HB2	1:C:1184:TRP:HA	1.70	0.72
1:A:342:ASN:HD22	1:A:344:LEU:H	1.37	0.72
1:B:343:ASP:CG	1:B:363:VAL:CB	2.58	0.72
1:A:63:THR:HG23	1:C:628:GLN:HG3	1.72	0.72
1:C:58:TYR:CE1	1:C:279:PHE:CZ	2.78	0.72
1:A:348:HIS:CE1	1:A:356:VAL:HG21	2.25	0.72
1:B:631:VAL:CA	1:C:63:THR:O	2.30	0.72
1:A:347:LEU:CD2	1:A:361:TYR:HB2	2.18	0.71
1:A:578:GLY:O	1:A:611:VAL:HG11	1.90	0.71
1:A:581:THR:CG2	1:A:582:ASN:ND2	2.53	0.71
1:C:1053:ASP:CB	1:C:1058:LEU:HB3	2.19	0.71
1:A:337:ILE:HD13	1:A:348:HIS:CB	2.21	0.71
1:A:377:GLN:CG	1:A:585:CYS:CB	2.66	0.71
1:B:339:CYS:SG	1:B:349:CYS:CB	2.79	0.71
1:B:1114:SER:HB3	1:C:1104:ASN:HB3	1.71	0.71
1:C:1054:ILE:HD12	1:C:1054:ILE:N	2.03	0.71
1:C:1058:LEU:CD1	1:C:1063:GLN:HB2	2.19	0.71
1:A:437:CYS:C	1:A:609:TYR:O	2.29	0.71
1:A:324:LEU:CD1	1:A:353:SER:N	2.52	0.71
1:A:341:PHE:HD1	1:A:696:MET:HB2	1.53	0.71
1:A:385:PHE:CD2	1:A:414:LEU:HD13	2.25	0.71
1:A:581:THR:HG23	1:A:582:ASN:ND2	2.06	0.71
1:A:623:VAL:HG13	1:B:329:VAL:O	1.89	0.71
1:B:337:ILE:HD13	1:B:348:HIS:CG	2.24	0.71
1:B:577:TYR:CE1	1:C:1057:ARG:NH1	2.58	0.71
1:C:339:CYS:SG	1:C:349:CYS:HB3	2.28	0.71
1:B:344:LEU:HD22	1:B:670:HIS:CG	2.18	0.70
1:B:1051:ILE:HG12	1:B:1054:ILE:HG23	1.72	0.70
1:B:522:GLN:CG	1:C:289:THR:CG2	2.68	0.70
1:A:58:TYR:CE1	1:A:279:PHE:CZ	2.77	0.70
1:A:582:ASN:O	1:A:583:SER:CB	2.39	0.70
1:B:40:PHE:HD1	1:B:86:VAL:HG13	1.57	0.70
1:C:40:PHE:HD1	1:C:86:VAL:HG13	1.57	0.70
1:C:347:LEU:CD2	1:C:661:VAL:HG11	2.21	0.70
1:A:65:SER:CB	1:C:623:VAL:HG12	2.21	0.70
1:A:409:TYR:OH	1:A:433:ILE:O	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:348:HIS:HA	1:B:356:VAL:HG23	1.69	0.70
1:A:341:PHE:CE1	1:A:696:MET:CB	2.75	0.70
1:C:335:ARG:HB3	1:C:354:PHE:CZ	2.18	0.70
1:B:583:SER:N	1:B:609:TYR:CG	2.58	0.70
1:C:1056:GLN:OE1	1:C:1057:ARG:N	2.23	0.70
1:C:324:LEU:HD11	1:C:354:PHE:HD1	0.60	0.70
1:C:1054:ILE:HD12	1:C:1056:GLN:HE22	0.84	0.70
1:A:63:THR:OG1	1:C:625:VAL:HG23	1.91	0.70
1:A:342:ASN:ND2	1:A:344:LEU:HD22	2.06	0.70
1:A:401:ARG:HH12	1:B:260:ALA:HB1	1.57	0.70
1:C:324:LEU:HG	1:C:324:LEU:O	1.92	0.70
1:A:442:ILE:HD11	1:B:261:GLN:CG	2.22	0.69
1:A:78:GLN:HB3	1:A:338:ASP:OD2	1.90	0.69
1:B:326:ASP:OD2	1:B:335:ARG:CD	2.31	0.69
1:A:340:GLY:CA	1:A:695:SER:HB2	2.21	0.69
1:C:812:ASN:HD22	1:C:1051:ILE:HD13	1.53	0.69
1:B:476:PRO:CG	1:B:577:TYR:CD2	2.75	0.69
1:A:323:PHE:CE1	1:A:338:ASP:HB2	2.27	0.69
1:A:1104:ASN:HB3	1:C:1114:SER:HB3	1.72	0.69
1:B:347:LEU:CD2	1:B:361:TYR:CD1	2.63	0.69
1:A:351:TYR:O	1:A:353:SER:OG	2.09	0.69
1:C:67:ILE:O	1:C:327:PHE:CD1	2.46	0.69
1:C:335:ARG:NH1	1:C:354:PHE:HD2	1.91	0.69
1:C:408:ASN:HB3	1:C:587:LYS:HB3	1.75	0.69
1:A:63:THR:HB	1:C:625:VAL:CG2	2.12	0.69
1:A:685:THR:CB	1:A:697:LEU:CD1	2.69	0.69
1:B:339:CYS:SG	1:B:349:CYS:HB2	2.32	0.69
1:B:377:GLN:CD	1:B:408:ASN:ND2	2.43	0.69
1:B:432:ALA:HB1	1:C:1056:GLN:O	1.92	0.69
1:A:40:PHE:HD1	1:A:86:VAL:HG13	1.57	0.69
1:A:427:GLN:HA	1:A:427:GLN:NE2	2.07	0.69
1:A:432:ALA:O	1:A:436:ASN:ND2	2.26	0.69
1:B:1050:SER:O	1:B:1051:ILE:HD13	1.93	0.69
1:A:581:THR:HG22	1:A:582:ASN:HA	1.72	0.68
1:A:906:MET:SD	1:C:677:VAL:HA	2.33	0.68
1:B:632:TYR:CD2	1:C:62:ARG:CB	2.76	0.68
1:C:1056:GLN:HB2	1:C:1057:ARG:HG2	1.74	0.68
1:B:67:ILE:O	1:B:327:PHE:CD1	2.46	0.68
1:B:343:ASP:CG	1:B:363:VAL:HB	2.14	0.68
1:B:1058:LEU:HB3	1:B:1059:ASP:OD2	1.93	0.68
1:B:408:ASN:HB3	1:B:587:LYS:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:608:LEU:HD22	1:B:630:PHE:HE1	1.58	0.68
1:C:344:LEU:HA	1:C:347:LEU:HD22	1.74	0.68
1:A:405:THR:N	1:A:407:CYS:SG	2.67	0.68
1:A:581:THR:CG2	1:A:582:ASN:HD22	2.06	0.68
1:A:677:VAL:HA	1:B:906:MET:SD	2.34	0.68
1:B:476:PRO:HB2	1:B:577:TYR:HE2	1.58	0.68
1:C:341:PHE:O	1:C:342:ASN:CG	2.32	0.68
1:B:428:ILE:HA	1:C:1057:ARG:O	1.94	0.68
1:B:347:LEU:CD2	1:B:361:TYR:HB2	2.05	0.67
1:A:341:PHE:O	1:A:345:SER:HB3	1.95	0.67
1:A:408:ASN:HB3	1:A:587:LYS:HB3	1.75	0.67
1:C:1058:LEU:HD13	1:C:1058:LEU:C	2.15	0.67
1:B:339:CYS:HB3	1:B:349:CYS:SG	2.34	0.67
1:C:341:PHE:CE1	1:C:696:MET:HG3	2.26	0.67
1:C:337:ILE:HD13	1:C:348:HIS:CD2	2.29	0.67
1:A:425:CYS:CB	1:A:428:ILE:CG2	2.46	0.67
1:B:1031:GLN:O	1:B:1035:LYS:HB2	1.95	0.67
1:C:1031:GLN:O	1:C:1035:LYS:HB2	1.95	0.67
1:A:66:ASN:CA	1:A:328:SER:O	2.43	0.67
1:A:429:SER:CB	1:B:1058:LEU:HB2	2.25	0.67
1:B:1049:ALA:O	1:B:1050:SER:OG	2.13	0.67
1:B:66:ASN:HB2	1:B:329:VAL:HA	1.77	0.67
1:B:343:ASP:C	1:B:661:VAL:HG21	2.14	0.67
1:B:663:TYR:CE2	1:B:665:LYS:N	2.63	0.66
1:B:677:VAL:HA	1:C:906:MET:SD	2.35	0.66
1:C:493:LYS:NZ	1:C:565:GLU:O	2.29	0.66
1:A:68:THR:CG2	1:A:326:ASP:CA	2.69	0.66
1:A:692:SER:OG	1:A:696:MET:O	2.12	0.66
1:A:764:PHE:CD2	1:B:943:MET:SD	2.89	0.66
1:B:344:LEU:HD12	1:B:663:TYR:CD1	2.17	0.66
1:B:439:SER:CB	1:B:581:THR:HG22	2.25	0.66
1:A:596:ILE:CG2	1:A:597:ALA:H	2.00	0.66
1:B:337:ILE:CD1	1:B:348:HIS:HD1	2.08	0.66
1:B:493:LYS:NZ	1:B:565:GLU:O	2.28	0.66
1:B:335:ARG:NH1	1:B:354:PHE:CD2	2.63	0.66
1:C:324:LEU:HD11	1:C:354:PHE:CE1	2.15	0.66
1:B:406:ASN:HA	1:B:583:SER:HB3	1.76	0.66
1:A:335:ARG:NE	1:A:354:PHE:CE2	2.64	0.66
1:B:511:ARG:HB2	1:C:436:ASN:HB3	1.78	0.66
1:C:1051:ILE:CB	1:C:1054:ILE:HG13	2.16	0.66
1:A:493:LYS:NZ	1:A:565:GLU:O	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1031:GLN:O	1:A:1035:LYS:HB2	1.95	0.65
1:A:337:ILE:CD1	1:A:348:HIS:CG	2.79	0.65
1:A:401:ARG:HH12	1:A:521:ASN:HB3	1.60	0.65
1:A:428:ILE:C	1:B:1058:LEU:CB	2.59	0.65
1:B:343:ASP:CA	1:B:661:VAL:HG21	2.25	0.65
1:B:339:CYS:HG	1:B:349:CYS:CB	2.08	0.65
1:A:428:ILE:CG2	1:A:478:CYS:SG	2.85	0.65
1:B:339:CYS:CB	1:B:349:CYS:SG	2.84	0.65
1:B:476:PRO:CD	1:B:577:TYR:CE2	2.76	0.65
1:A:69:ILE:HD12	1:A:69:ILE:C	2.16	0.65
1:A:578:GLY:HA2	1:A:579:THR:CB	2.25	0.65
1:B:401:ARG:NH1	1:C:260:ALA:HB1	2.06	0.65
1:B:581:THR:O	1:B:582:ASN:ND2	2.30	0.65
1:B:335:ARG:O	1:B:354:PHE:CZ	2.49	0.65
1:C:66:ASN:HB2	1:C:329:VAL:HA	1.77	0.65
1:C:322:THR:O	1:C:339:CYS:HB2	1.97	0.65
1:C:335:ARG:HD2	1:C:354:PHE:HD2	1.61	0.65
1:C:1056:GLN:CD	1:C:1057:ARG:H	1.99	0.65
1:B:343:ASP:CG	1:B:363:VAL:HG11	2.16	0.65
1:A:429:SER:HB2	1:B:1058:LEU:HD22	1.10	0.64
1:B:898:VAL:HA	1:B:1023:GLN:HE21	1.62	0.64
1:A:58:TYR:CD1	1:A:279:PHE:HZ	1.98	0.64
1:A:692:SER:HB3	1:A:696:MET:O	1.92	0.64
1:B:347:LEU:HD13	1:B:361:TYR:HD2	1.57	0.64
1:B:510:ASP:CB	1:C:436:ASN:HD21	2.09	0.64
1:B:1053:ASP:OD2	1:B:1058:LEU:O	2.15	0.64
1:C:595:LYS:HD3	1:C:596:ILE:HG13	1.79	0.64
1:B:634:ALA:CB	1:C:67:ILE:CD1	2.70	0.64
1:C:324:LEU:HD11	1:C:337:ILE:HD12	1.74	0.64
1:A:322:THR:O	1:A:339:CYS:SG	2.56	0.64
1:A:697:LEU:HD13	1:A:697:LEU:C	2.16	0.64
1:B:501:ASN:ND2	1:B:559:SER:OG	2.31	0.64
1:B:1053:ASP:CA	1:B:1057:ARG:CG	2.62	0.64
1:B:764:PHE:CD2	1:C:943:MET:SD	2.90	0.64
1:C:70:THR:HG23	1:C:352:GLU:HA	1.79	0.64
1:A:342:ASN:HD22	1:A:344:LEU:CD2	2.06	0.64
1:A:599:GLN:HB3	1:A:600:LEU:HD23	1.80	0.64
1:C:1058:LEU:HD21	1:C:1063:GLN:N	2.12	0.64
1:A:1027:ASN:O	1:A:1031:GLN:HB2	1.98	0.64
1:B:401:ARG:NH1	1:C:260:ALA:O	2.28	0.64
1:B:1027:ASN:O	1:B:1031:GLN:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:577:TYR:CE1	1:C:1057:ARG:HD3	2.32	0.64
1:C:340:GLY:O	1:C:695:SER:HB2	1.97	0.64
1:B:259:THR:OG1	1:B:264:HIS:HD2	1.81	0.63
1:C:1053:ASP:HB2	1:C:1058:LEU:CD1	2.15	0.63
1:C:599:GLN:HB3	1:C:600:LEU:HD23	1.80	0.63
1:C:812:ASN:ND2	1:C:1051:ILE:HD13	2.11	0.63
1:C:1027:ASN:O	1:C:1031:GLN:HB2	1.98	0.63
1:C:1110:GLN:O	1:C:1122:HIS:ND1	2.31	0.63
1:A:323:PHE:CE1	1:A:338:ASP:CB	2.80	0.63
1:A:522:GLN:CG	1:B:289:THR:CG2	2.77	0.63
1:B:343:ASP:CG	1:B:363:VAL:HG21	2.17	0.63
1:B:599:GLN:HB3	1:B:600:LEU:HD23	1.80	0.63
1:C:351:TYR:O	1:C:353:SER:N	2.30	0.63
1:A:943:MET:SD	1:C:764:PHE:CD2	2.91	0.63
1:A:405:THR:C	1:A:407:CYS:H	1.99	0.63
1:B:510:ASP:O	1:B:511:ARG:CG	2.47	0.63
1:C:1054:ILE:H	1:C:1056:GLN:NE2	1.91	0.63
1:B:339:CYS:CB	1:B:349:CYS:HG	2.12	0.63
1:B:439:SER:HB2	1:B:582:ASN:H	0.69	0.63
1:A:522:GLN:CG	1:B:289:THR:HG22	2.28	0.63
1:A:634:ALA:HB2	1:B:67:ILE:CD1	2.28	0.63
1:B:344:LEU:O	1:B:348:HIS:HB2	1.99	0.63
1:A:579:THR:CB	1:B:61:GLY:O	2.45	0.63
1:B:406:ASN:HA	1:B:583:SER:CB	2.29	0.63
1:B:576:GLN:HA	1:B:577:TYR:HB2	0.75	0.63
1:A:697:LEU:O	1:A:698:LYS:HB3	1.99	0.62
1:A:384:ASP:C	1:A:404:PHE:CE1	2.67	0.62
1:B:583:SER:N	1:B:609:TYR:CB	2.60	0.62
1:B:404:PHE:HB2	1:B:441:LEU:HB3	1.80	0.62
1:C:1058:LEU:HD22	1:C:1059:ASP:H	1.61	0.62
1:A:898:VAL:HA	1:A:1023:GLN:HE21	1.62	0.62
1:C:898:VAL:HA	1:C:1023:GLN:HE21	1.62	0.62
1:B:1051:ILE:HD13	1:B:1051:ILE:N	2.11	0.62
1:A:577:TYR:O	1:A:579:THR:HG23	1.98	0.62
1:C:1055:ILE:N	1:C:1056:GLN:OE1	2.33	0.62
1:A:1110:GLN:O	1:A:1122:HIS:ND1	2.31	0.62
1:B:595:LYS:HD3	1:B:596:ILE:HG13	1.79	0.62
1:C:68:THR:O	1:C:69:ILE:CG2	2.48	0.62
1:A:694:ARG:NH1	1:B:822:ARG:HH21	1.97	0.62
1:A:964:LEU:HD22	1:A:965:SER:HB3	1.82	0.62
1:A:385:PHE:CE2	1:A:414:LEU:CB	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:68:THR:O	1:B:69:ILE:CG2	2.48	0.62
1:C:351:TYR:HH	1:C:361:TYR:HE1	1.47	0.62
1:C:1055:ILE:C	1:C:1056:GLN:OE1	2.38	0.62
1:A:522:GLN:CD	1:B:289:THR:CG2	2.68	0.62
1:B:625:VAL:HG23	1:C:63:THR:CB	2.26	0.62
1:A:324:LEU:HD11	1:A:353:SER:CA	2.30	0.61
1:A:685:THR:HB	1:A:697:LEU:HD11	1.79	0.61
1:B:428:ILE:CA	1:C:1058:LEU:HA	2.30	0.61
1:C:964:LEU:HD22	1:C:965:SER:HB3	1.82	0.61
1:B:608:LEU:HD22	1:B:630:PHE:CE1	2.36	0.61
1:B:1110:GLN:O	1:B:1122:HIS:ND1	2.31	0.61
1:C:341:PHE:HZ	1:C:696:MET:HG3	1.58	0.61
1:A:403:VAL:CG1	1:A:441:LEU:O	2.47	0.61
1:B:575:VAL:O	1:B:577:TYR:CG	2.51	0.61
1:A:623:VAL:CG1	1:B:65:SER:HB3	1.98	0.61
1:B:964:LEU:HD22	1:B:965:SER:HB3	1.82	0.61
1:C:351:TYR:CE2	1:C:356:VAL:HG13	2.36	0.61
1:A:405:THR:HA	1:A:584:VAL:HG22	1.82	0.61
1:A:631:VAL:HA	1:B:63:THR:O	2.01	0.61
1:B:511:ARG:CD	1:C:436:ASN:CG	2.66	0.61
1:C:343:ASP:CB	1:C:363:VAL:HG21	2.29	0.61
1:B:259:THR:O	1:B:262:GLY:N	2.30	0.61
1:C:1054:ILE:N	1:C:1056:GLN:NE2	2.43	0.61
1:A:427:GLN:O	1:B:1057:ARG:HB2	2.00	0.61
1:B:377:GLN:NE2	1:B:585:CYS:CB	2.53	0.61
1:A:581:THR:HG22	1:A:582:ASN:CA	2.31	0.61
1:A:58:TYR:HD2	1:A:59:PRO:CD	2.04	0.60
1:A:344:LEU:CD1	1:A:663:TYR:HD1	2.09	0.60
1:A:501:ASN:ND2	1:A:559:SER:OG	2.30	0.60
1:A:577:TYR:CE1	1:A:610:GLY:O	2.46	0.60
1:A:577:TYR:OH	1:B:1056:GLN:HB3	2.01	0.60
1:C:338:ASP:O	1:C:339:CYS:CB	2.45	0.60
1:A:436:ASN:HD21	1:B:1056:GLN:C	2.00	0.60
1:A:694:ARG:NH1	1:B:822:ARG:NH2	2.50	0.60
1:C:344:LEU:HD21	1:C:670:HIS:HB2	1.82	0.60
1:A:343:ASP:HB3	1:A:363:VAL:HG21	1.83	0.60
1:A:685:THR:HB	1:A:697:LEU:CD1	2.32	0.60
1:A:812:ASN:ND2	1:A:1050:SER:OG	2.34	0.60
1:C:735:LEU:HD22	1:C:736:CYS:H	1.66	0.60
1:C:1051:ILE:HB	1:C:1054:ILE:HG12	1.83	0.60
1:A:628:GLN:CG	1:B:63:THR:HG21	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:522:GLN:CG	1:C:289:THR:HG21	2.30	0.60
1:B:346:GLN:O	1:B:350:SER:N	2.34	0.60
1:B:432:ALA:HB1	1:C:1056:GLN:C	2.22	0.60
1:C:501:ASN:ND2	1:C:559:SER:OG	2.30	0.60
1:B:735:LEU:HD22	1:B:736:CYS:H	1.66	0.60
1:A:271:VAL:CG2	1:C:627:GLN:CD	2.60	0.59
1:A:402:LEU:HD11	1:A:445:TYR:CE2	2.36	0.59
1:B:441:LEU:HD21	1:B:573:ILE:HG22	1.84	0.59
1:B:582:ASN:HB2	1:B:609:TYR:CE2	2.31	0.59
1:A:68:THR:OG1	1:A:326:ASP:HA	2.02	0.59
1:A:343:ASP:OD2	1:A:661:VAL:HG23	2.02	0.59
1:B:377:GLN:NE2	1:B:408:ASN:ND2	2.50	0.59
1:A:406:ASN:N	1:A:583:SER:O	2.34	0.59
1:B:428:ILE:CA	1:C:1057:ARG:O	2.50	0.59
1:A:735:LEU:HD22	1:A:736:CYS:H	1.66	0.59
1:C:812:ASN:ND2	1:C:1050:SER:OG	2.34	0.59
1:B:625:VAL:HG23	1:C:63:THR:OG1	2.02	0.59
1:C:1058:LEU:HD11	1:C:1063:GLN:HB2	1.80	0.59
1:C:457:SER:HB3	1:C:460:SER:HB3	1.85	0.59
1:B:428:ILE:HA	1:C:1058:LEU:HA	1.84	0.59
1:B:1053:ASP:N	1:B:1053:ASP:OD1	2.34	0.59
1:C:58:TYR:HD2	1:C:59:PRO:CD	2.04	0.59
1:B:439:SER:OG	1:B:582:ASN:N	2.32	0.58
1:A:335:ARG:HB2	1:A:354:PHE:HZ	0.91	0.58
1:A:344:LEU:CD2	1:A:670:HIS:CG	2.84	0.58
1:A:432:ALA:HB1	1:B:1056:GLN:C	2.22	0.58
1:B:457:SER:HB3	1:B:460:SER:HB3	1.85	0.58
1:A:335:ARG:HB3	1:A:354:PHE:CE2	2.16	0.58
1:B:432:ALA:HB1	1:C:1056:GLN:HA	1.85	0.58
1:B:476:PRO:HD2	1:B:577:TYR:CG	2.26	0.58
1:C:70:THR:CG2	1:C:352:GLU:CG	2.68	0.58
1:C:602:ASN:ND2	1:C:617:PHE:O	2.37	0.58
1:A:425:CYS:SG	1:A:428:ILE:HG23	2.43	0.58
1:A:428:ILE:O	1:B:1058:LEU:HB2	2.02	0.58
1:A:457:SER:HB3	1:A:460:SER:HB3	1.85	0.58
1:A:783:PRO:HG3	1:A:1143:PRO:HB3	1.86	0.58
1:B:783:PRO:HG3	1:B:1143:PRO:HB3	1.86	0.58
1:A:71:TYR:CE2	1:A:72:GLN:O	2.56	0.58
1:A:623:VAL:CG1	1:B:65:SER:CA	2.81	0.58
1:A:1179:ARG:H	1:A:1186:TYR:H	1.52	0.58
1:B:406:ASN:HA	1:B:583:SER:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1179:ARG:H	1:C:1186:TYR:H	1.52	0.58
1:B:960:TRP:H	1:B:961:THR:HA	1.68	0.58
1:A:63:THR:CG2	1:C:628:GLN:HG2	2.29	0.58
1:A:602:ASN:ND2	1:A:617:PHE:O	2.37	0.58
1:C:960:TRP:H	1:C:961:THR:HA	1.68	0.58
1:A:623:VAL:HG11	1:B:65:SER:HB2	0.62	0.57
1:A:812:ASN:ND2	1:A:1050:SER:O	2.37	0.57
1:A:943:MET:SD	1:C:738:LEU:CD1	2.91	0.57
1:C:783:PRO:HG3	1:C:1143:PRO:HB3	1.85	0.57
1:C:812:ASN:ND2	1:C:1050:SER:O	2.37	0.57
1:B:602:ASN:ND2	1:B:617:PHE:O	2.37	0.57
1:C:605:GLU:HG3	1:C:614:ARG:HG2	1.86	0.57
1:A:960:TRP:H	1:A:961:THR:HA	1.68	0.57
1:A:1027:ASN:O	1:A:1031:GLN:CB	2.53	0.57
1:B:377:GLN:HA	1:B:609:TYR:CD1	2.39	0.57
1:B:476:PRO:HG2	1:B:577:TYR:CE1	2.39	0.57
1:C:1023:GLN:O	1:C:1027:ASN:HB2	2.04	0.57
1:A:577:TYR:HD1	1:A:610:GLY:CA	2.17	0.57
1:A:738:LEU:HG	1:B:940:ASP:H	1.69	0.57
1:B:1027:ASN:O	1:B:1031:GLN:CB	2.53	0.57
1:C:343:ASP:O	1:C:347:LEU:HD13	2.04	0.57
1:A:342:ASN:HD22	1:A:344:LEU:HD22	1.68	0.57
1:A:341:PHE:CE1	1:A:696:MET:HB3	2.40	0.57
1:A:685:THR:HA	1:A:697:LEU:CD2	2.34	0.57
1:B:582:ASN:OD1	1:B:583:SER:OG	2.16	0.57
1:C:67:ILE:O	1:C:327:PHE:HB2	2.05	0.57
1:C:1027:ASN:O	1:C:1031:GLN:CB	2.53	0.57
1:C:1105:GLU:OE1	1:C:1113:ARG:NH2	2.38	0.57
1:A:343:ASP:CG	1:A:661:VAL:HG22	2.18	0.57
1:A:427:GLN:NE2	1:B:1066:GLN:HE22	2.02	0.57
1:A:78:GLN:HG2	1:A:341:PHE:HD2	1.70	0.57
1:A:344:LEU:H	1:A:344:LEU:HD22	1.69	0.57
1:A:436:ASN:CG	1:B:1056:GLN:HB3	2.25	0.57
1:A:1023:GLN:O	1:A:1027:ASN:HB2	2.04	0.57
1:A:623:VAL:HG12	1:B:65:SER:CA	2.35	0.57
1:A:1105:GLU:OE1	1:A:1113:ARG:NH2	2.38	0.57
1:B:58:TYR:HD2	1:B:59:PRO:CD	2.04	0.57
1:B:577:TYR:HD1	1:C:1057:ARG:HH12	1.52	0.57
1:A:351:TYR:O	1:A:353:SER:N	2.37	0.57
1:B:64:TYR:N	1:B:64:TYR:CD2	2.73	0.57
1:B:738:LEU:CD1	1:C:943:MET:SD	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1179:ARG:H	1:B:1186:TYR:H	1.52	0.57
1:C:344:LEU:CD2	1:C:670:HIS:CG	2.80	0.57
1:B:1105:GLU:OE1	1:B:1113:ARG:NH2	2.38	0.56
1:A:65:SER:CB	1:C:623:VAL:CG1	2.74	0.56
1:A:71:TYR:HE2	1:A:73:GLY:HA3	1.70	0.56
1:A:324:LEU:CD1	1:A:353:SER:H	2.18	0.56
1:B:438:TYR:N	1:B:438:TYR:CD2	2.73	0.56
1:B:439:SER:CB	1:B:581:THR:CG2	2.83	0.56
1:C:1059:ASP:OD1	1:C:1062:GLU:HB2	2.04	0.56
1:A:437:CYS:HB3	1:A:609:TYR:O	1.98	0.56
1:B:343:ASP:CG	1:B:363:VAL:CG2	2.74	0.56
1:B:1023:GLN:O	1:B:1027:ASN:HB2	2.04	0.56
1:C:70:THR:CG2	1:C:352:GLU:HA	2.35	0.56
1:C:399:PHE:O	1:C:523:TYR:OH	2.15	0.56
1:A:64:TYR:N	1:A:64:TYR:CD2	2.73	0.56
1:B:577:TYR:HE1	1:C:1057:ARG:HD3	1.70	0.56
1:A:577:TYR:HH	1:B:1056:GLN:HB3	1.70	0.56
1:C:64:TYR:N	1:C:64:TYR:CD2	2.73	0.56
1:A:605:GLU:HG3	1:A:614:ARG:HG2	1.87	0.56
1:A:793:GLU:HA	1:A:1018:ALA:HB2	1.88	0.56
1:B:580:ASP:N	1:C:61:GLY:HA2	2.17	0.56
1:B:605:GLU:HG3	1:B:614:ARG:HG2	1.86	0.56
1:B:738:LEU:HG	1:C:940:ASP:H	1.70	0.56
1:C:66:ASN:HA	1:C:328:SER:O	2.06	0.56
1:A:63:THR:CG2	1:C:628:GLN:CD	2.58	0.56
1:B:439:SER:CA	1:B:582:ASN:N	2.48	0.56
1:B:511:ARG:NH2	1:C:575:VAL:CG2	2.57	0.56
1:A:582:ASN:C	1:A:629:ARG:HH22	2.08	0.56
1:A:787:SER:OG	1:A:1142:TYR:O	2.24	0.56
1:B:476:PRO:HD2	1:B:577:TYR:CE2	2.25	0.56
1:A:63:THR:HG23	1:C:628:GLN:CG	2.29	0.56
1:A:628:GLN:HG2	1:B:63:THR:HG23	1.84	0.56
1:B:628:GLN:HE21	1:C:63:THR:HG22	1.71	0.56
1:A:347:LEU:CD2	1:A:361:TYR:CG	2.78	0.55
1:B:67:ILE:O	1:B:327:PHE:HB2	2.05	0.55
1:B:335:ARG:C	1:B:354:PHE:HZ	2.10	0.55
1:B:442:ILE:HD11	1:C:261:GLN:HG3	1.89	0.55
1:B:787:SER:H	1:B:1000:LYS:HD3	1.71	0.55
1:B:793:GLU:HA	1:B:1018:ALA:HB2	1.88	0.55
1:B:888:SER:OG	1:B:889:ALA:N	2.39	0.55
1:C:1053:ASP:HB3	1:C:1058:LEU:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:ALA:CA	1:A:521:ASN:ND2	2.53	0.55
1:A:673:LEU:HD13	1:A:735:LEU:HD21	1.88	0.55
1:B:348:HIS:CE1	1:B:354:PHE:O	2.59	0.55
1:B:694:ARG:NH1	1:C:822:ARG:HH21	2.03	0.55
1:B:1102:LYS:HB3	1:B:1136:PHE:HE2	1.71	0.55
1:A:399:PHE:O	1:A:523:TYR:OH	2.15	0.55
1:A:429:SER:CA	1:B:1058:LEU:HB2	2.35	0.55
1:B:510:ASP:O	1:B:511:ARG:CB	2.53	0.55
1:B:686:MET:SD	1:B:686:MET:N	2.75	0.55
1:C:323:PHE:CE1	1:C:338:ASP:HA	2.41	0.55
1:C:787:SER:H	1:C:1000:LYS:HD3	1.71	0.55
1:B:68:THR:C	1:B:69:ILE:HG23	2.26	0.55
1:B:673:LEU:HD13	1:B:735:LEU:HD21	1.88	0.55
1:C:68:THR:C	1:C:69:ILE:HG23	2.27	0.55
1:A:1102:LYS:HB3	1:A:1136:PHE:HE2	1.71	0.55
1:C:677:VAL:HG22	1:C:678:ALA:HB2	1.89	0.55
1:A:738:LEU:CD1	1:B:943:MET:SD	2.93	0.55
1:B:259:THR:HG1	1:B:264:HIS:CD2	2.20	0.55
1:B:787:SER:OG	1:B:1142:TYR:O	2.24	0.55
1:C:335:ARG:HD2	1:C:354:PHE:CE2	2.41	0.55
1:B:66:ASN:HA	1:B:328:SER:O	2.06	0.55
1:C:346:GLN:NE2	1:C:346:GLN:HA	2.22	0.55
1:C:793:GLU:HA	1:C:1018:ALA:HB2	1.88	0.55
1:A:697:LEU:HD22	1:A:698:LYS:CA	2.36	0.55
1:A:787:SER:H	1:A:1000:LYS:HD3	1.72	0.55
1:A:677:VAL:HG11	1:B:909:TYR:CD2	2.41	0.55
1:A:1174:LYS:O	1:A:1177:ASN:ND2	2.40	0.55
1:B:476:PRO:HG2	1:B:577:TYR:CD2	2.41	0.55
1:B:632:TYR:HB2	1:C:64:TYR:CD1	2.42	0.55
1:C:686:MET:SD	1:C:686:MET:N	2.75	0.54
1:C:989:VAL:HB	1:C:1186:TYR:HE1	1.72	0.54
1:C:1058:LEU:HD13	1:C:1058:LEU:O	2.07	0.54
1:A:428:ILE:O	1:B:1058:LEU:CB	2.55	0.54
1:A:765:ASN:HD21	1:B:946:ALA:HB1	1.72	0.54
1:B:70:THR:HG23	1:B:352:GLU:CG	2.35	0.54
1:C:322:THR:O	1:C:339:CYS:CB	2.55	0.54
1:A:68:THR:CB	1:A:326:ASP:HA	2.37	0.54
1:A:940:ASP:H	1:C:738:LEU:HG	1.71	0.54
1:B:624:GLY:O	1:C:330:ASP:O	2.25	0.54
1:B:989:VAL:HB	1:B:1186:TYR:HE1	1.72	0.54
1:C:1102:LYS:HB3	1:C:1136:PHE:HE2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1174:LYS:O	1:C:1177:ASN:ND2	2.40	0.54
1:A:583:SER:O	1:A:584:VAL:HG22	2.03	0.54
1:B:677:VAL:HG22	1:B:678:ALA:HB2	1.89	0.54
1:B:996:LEU:HD23	1:B:998:ALA:HB3	1.89	0.54
1:B:1174:LYS:O	1:B:1177:ASN:ND2	2.41	0.54
1:C:1053:ASP:HB3	1:C:1058:LEU:HB3	1.88	0.54
1:B:344:LEU:CD2	1:B:670:HIS:CG	2.84	0.54
1:B:576:GLN:CA	1:B:577:TYR:CB	2.46	0.54
1:C:787:SER:OG	1:C:1142:TYR:O	2.24	0.54
1:A:428:ILE:HG22	1:A:477:THR:O	2.08	0.54
1:A:581:THR:HG23	1:A:582:ASN:HA	1.85	0.54
1:A:989:VAL:HB	1:A:1186:TYR:HE1	1.72	0.54
1:B:663:TYR:CD2	1:B:665:LYS:N	2.76	0.54
1:B:831:ILE:HG23	1:B:1082:VAL:HG21	1.89	0.54
1:A:344:LEU:CD1	1:A:663:TYR:HE1	2.09	0.54
1:B:634:ALA:N	1:C:67:ILE:HD13	2.23	0.54
1:C:343:ASP:HA	1:C:363:VAL:HG11	1.90	0.54
1:C:888:SER:OG	1:C:889:ALA:N	2.40	0.54
1:C:1062:GLU:O	1:C:1063:GLN:C	2.45	0.54
1:A:996:LEU:HD23	1:A:998:ALA:HB3	1.89	0.54
1:C:673:LEU:HD13	1:C:735:LEU:HD21	1.88	0.54
1:C:831:ILE:HG23	1:C:1082:VAL:HG21	1.89	0.54
1:A:425:CYS:HB2	1:A:428:ILE:C	2.24	0.54
1:A:677:VAL:HG22	1:A:678:ALA:HB2	1.89	0.54
1:A:909:TYR:CD2	1:C:677:VAL:HG11	2.43	0.54
1:B:1058:LEU:CG	1:B:1059:ASP:CA	2.86	0.54
1:C:335:ARG:CD	1:C:354:PHE:CD2	2.84	0.54
1:C:347:LEU:HD21	1:C:661:VAL:CG1	2.33	0.54
1:B:347:LEU:C	1:B:356:VAL:HG21	2.29	0.53
1:B:677:VAL:CG2	1:C:909:TYR:CD2	2.90	0.53
1:A:831:ILE:HG23	1:A:1082:VAL:HG21	1.89	0.53
1:C:1053:ASP:HB3	1:C:1058:LEU:CA	2.37	0.53
1:A:271:VAL:CG2	1:C:627:GLN:NE2	2.72	0.53
1:C:337:ILE:HD11	1:C:354:PHE:HA	1.91	0.53
1:C:1053:ASP:CB	1:C:1058:LEU:CB	2.85	0.53
1:A:694:ARG:CZ	1:B:822:ARG:HH21	2.22	0.53
1:B:349:CYS:SG	1:B:350:SER:N	2.81	0.53
1:B:1166:ALA:HB2	1:B:1194:PRO:HD3	1.90	0.53
1:C:351:TYR:CD2	1:C:356:VAL:HG13	2.43	0.53
1:A:429:SER:HG	1:B:1058:LEU:HD13	1.70	0.53
1:A:888:SER:OG	1:A:889:ALA:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:439:SER:CB	1:B:581:THR:CB	2.87	0.53
1:B:523:TYR:HD2	1:C:288:ASP:OD1	1.92	0.53
1:B:579:THR:CA	1:C:61:GLY:HA2	2.36	0.53
1:C:1166:ALA:HB2	1:C:1194:PRO:HD3	1.90	0.53
1:A:436:ASN:OD1	1:B:1056:GLN:HB3	2.09	0.53
1:B:129:THR:HG23	1:B:134:PRO:HA	1.91	0.53
1:B:677:VAL:HG11	1:C:909:TYR:CD2	2.42	0.53
1:C:789:GLY:HA3	1:C:1004:ALA:HB1	1.91	0.53
1:C:996:LEU:HD23	1:C:998:ALA:HB3	1.89	0.53
1:B:326:ASP:HB2	1:B:354:PHE:CZ	2.43	0.53
1:B:429:SER:HB3	1:C:1059:ASP:N	2.24	0.53
1:B:1053:ASP:HB3	1:B:1057:ARG:O	2.09	0.53
1:A:129:THR:HG23	1:A:134:PRO:HA	1.91	0.52
1:A:344:LEU:HD12	1:A:663:TYR:CD1	2.34	0.52
1:A:480:ILE:HB	1:A:571:PHE:HB2	1.91	0.52
1:A:946:ALA:HB1	1:C:765:ASN:HD21	1.74	0.52
1:B:789:GLY:HA3	1:B:1004:ALA:HB1	1.91	0.52
1:C:697:LEU:HD13	1:C:698:LYS:H	1.74	0.52
1:C:1117:CYS:HB3	1:C:1122:HIS:CD2	2.45	0.52
1:A:337:ILE:HG21	1:A:348:HIS:CB	2.37	0.52
1:A:351:TYR:O	1:A:352:GLU:C	2.47	0.52
1:A:384:ASP:O	1:A:404:PHE:CE1	2.62	0.52
1:C:129:THR:HG23	1:C:134:PRO:HA	1.91	0.52
1:C:342:ASN:OD1	1:C:343:ASP:N	2.42	0.52
1:A:1166:ALA:HB2	1:A:1194:PRO:HD3	1.90	0.52
1:B:467:PHE:O	1:B:524:SER:HB2	2.10	0.52
1:B:581:THR:O	1:B:582:ASN:CB	2.56	0.52
1:C:977:PHE:O	1:C:981:ASN:HB2	2.10	0.52
1:A:1169:ASN:OD1	1:A:1169:ASN:N	2.43	0.52
1:B:575:VAL:O	1:B:577:TYR:HB2	2.09	0.52
1:B:1051:ILE:HB	1:B:1054:ILE:HA	1.91	0.52
1:B:1117:CYS:HB3	1:B:1122:HIS:CD2	2.44	0.52
1:C:480:ILE:HB	1:C:571:PHE:HB2	1.91	0.52
1:A:324:LEU:HD13	1:A:337:ILE:HD12	1.92	0.52
1:A:977:PHE:O	1:A:981:ASN:HB2	2.10	0.52
1:B:1058:LEU:HD12	1:B:1059:ASP:CA	2.19	0.52
1:A:577:TYR:HE2	1:B:1057:ARG:HH21	1.34	0.52
1:A:628:GLN:CG	1:B:63:THR:HG23	2.37	0.52
1:A:1147:ILE:HD12	1:A:1184:TRP:HE1	1.75	0.52
1:C:181:ARG:HG3	1:C:242:THR:HG22	1.92	0.52
1:C:1147:ILE:HD12	1:C:1184:TRP:HE1	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1169:ASN:OD1	1:C:1169:ASN:N	2.43	0.52
1:A:789:GLY:HA3	1:A:1004:ALA:HB1	1.92	0.52
1:B:351:TYR:HB3	1:B:353:SER:OG	2.10	0.52
1:C:347:LEU:HD13	1:C:347:LEU:N	2.24	0.52
1:A:677:VAL:CG2	1:B:909:TYR:CD2	2.91	0.52
1:B:1054:ILE:H	1:B:1054:ILE:CD1	2.14	0.52
1:A:1117:CYS:HB3	1:A:1122:HIS:CD2	2.45	0.52
1:B:977:PHE:O	1:B:981:ASN:HB2	2.10	0.52
1:B:1147:ILE:HD12	1:B:1184:TRP:HE1	1.75	0.52
1:C:58:TYR:HD1	1:C:279:PHE:CE1	2.24	0.52
1:C:1059:ASP:O	1:C:1063:GLN:HB2	2.09	0.52
1:A:697:LEU:HD22	1:A:697:LEU:C	2.30	0.51
1:A:909:TYR:CD2	1:C:677:VAL:CG2	2.93	0.51
1:B:1031:GLN:HG2	1:B:1035:LYS:HD3	1.92	0.51
1:B:1058:LEU:HG	1:B:1059:ASP:CA	2.39	0.51
1:B:1165:ILE:HG12	1:C:960:TRP:HH2	1.75	0.51
1:A:66:ASN:OD1	1:A:328:SER:HA	2.11	0.51
1:A:348:HIS:ND1	1:A:356:VAL:CG2	2.72	0.51
1:B:345:SER:O	1:B:348:HIS:CB	2.53	0.51
1:B:523:TYR:CD2	1:C:288:ASP:OD1	2.62	0.51
1:B:1059:ASP:O	1:B:1063:GLN:HB2	2.10	0.51
1:A:428:ILE:CG2	1:A:477:THR:O	2.58	0.51
1:A:521:ASN:ND2	1:A:521:ASN:N	2.58	0.51
1:A:870:ASN:N	1:A:1002:ASN:OD1	2.43	0.51
1:B:480:ILE:HB	1:B:571:PHE:HB2	1.91	0.51
1:B:629:ARG:HB3	1:B:642:TYR:HB3	1.92	0.51
1:C:1031:GLN:HG2	1:C:1035:LYS:HD3	1.93	0.51
1:C:1058:LEU:HD13	1:C:1063:GLN:HB2	1.90	0.51
1:A:271:VAL:HG22	1:C:627:GLN:NE2	2.26	0.51
1:A:626:ARG:HA	1:A:642:TYR:HE2	1.76	0.51
1:B:799:ILE:HD11	1:B:1089:SER:HA	1.93	0.51
1:A:383:CYS:N	1:A:408:ASN:O	2.44	0.51
1:A:467:PHE:O	1:A:524:SER:HB2	2.10	0.51
1:B:796:GLN:O	1:B:798:THR:N	2.40	0.51
1:A:660:SER:N	1:A:673:LEU:O	2.42	0.51
1:B:181:ARG:HG3	1:B:242:THR:HG22	1.92	0.51
1:B:697:LEU:HD13	1:B:698:LYS:H	1.75	0.51
1:C:467:PHE:O	1:C:524:SER:HB2	2.10	0.51
1:C:799:ILE:HD11	1:C:1089:SER:HA	1.93	0.51
1:A:427:GLN:NE2	1:A:427:GLN:CA	2.73	0.51
1:A:581:THR:HG22	1:A:582:ASN:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:958:VAL:HG11	1:C:1108:LYS:HD2	1.92	0.51
1:A:324:LEU:HD22	1:A:354:PHE:CD1	2.46	0.51
1:A:428:ILE:HG13	1:A:429:SER:N	2.26	0.51
1:A:958:VAL:HG11	1:A:1108:LYS:HD2	1.92	0.51
1:B:439:SER:HB2	1:B:581:THR:CB	2.41	0.51
1:B:626:ARG:HA	1:B:642:TYR:HE2	1.76	0.51
1:B:765:ASN:HD21	1:C:946:ALA:HB1	1.74	0.51
1:C:1062:GLU:O	1:C:1064:ASP:N	2.44	0.51
1:A:181:ARG:HG3	1:A:242:THR:HG22	1.92	0.51
1:B:870:ASN:N	1:B:1002:ASN:OD1	2.43	0.51
1:A:347:LEU:CD2	1:A:361:TYR:HB3	2.33	0.50
1:B:347:LEU:CG	1:B:361:TYR:CG	2.93	0.50
1:B:432:ALA:HB3	1:C:1056:GLN:O	2.09	0.50
1:B:660:SER:N	1:B:673:LEU:O	2.42	0.50
1:C:1130:ALA:HB2	1:C:1135:TYR:HB2	1.93	0.50
1:A:764:PHE:CG	1:B:943:MET:SD	3.05	0.50
1:A:872:THR:OG1	1:A:1009:GLN:NE2	2.39	0.50
1:B:343:ASP:CA	1:B:363:VAL:HG21	2.41	0.50
1:C:335:ARG:C	1:C:354:PHE:HZ	2.13	0.50
1:B:377:GLN:HA	1:B:609:TYR:HD1	1.75	0.50
1:A:58:TYR:HD1	1:A:279:PHE:CE1	2.24	0.50
1:A:346:GLN:NE2	1:A:346:GLN:CA	2.73	0.50
1:A:778:PHE:CE1	1:B:971:PRO:HD3	2.47	0.50
1:B:68:THR:HG22	1:B:69:ILE:N	2.26	0.50
1:C:341:PHE:O	1:C:342:ASN:CB	2.59	0.50
1:C:626:ARG:HA	1:C:642:TYR:HE2	1.75	0.50
1:A:406:ASN:HA	1:A:583:SER:HG	1.72	0.50
1:A:1165:ILE:HG12	1:B:960:TRP:HH2	1.75	0.50
1:B:583:SER:N	1:B:609:TYR:CD2	2.77	0.50
1:B:958:VAL:HG11	1:B:1108:LYS:HD2	1.92	0.50
1:C:351:TYR:OH	1:C:361:TYR:HE1	1.93	0.50
1:C:383:CYS:N	1:C:408:ASN:O	2.44	0.50
1:C:738:LEU:HD13	1:C:762:ILE:HG23	1.94	0.50
1:C:870:ASN:N	1:C:1002:ASN:OD1	2.43	0.50
1:B:428:ILE:HG13	1:C:1057:ARG:HA	1.94	0.50
1:B:663:TYR:CD2	1:B:663:TYR:C	2.84	0.50
1:C:68:THR:HG22	1:C:69:ILE:N	2.26	0.50
1:C:343:ASP:O	1:C:347:LEU:HD22	2.11	0.50
1:A:738:LEU:HD13	1:A:762:ILE:HG23	1.94	0.50
1:A:799:ILE:HD11	1:A:1089:SER:HA	1.93	0.50
1:B:872:THR:OG1	1:B:1009:GLN:NE2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1051:ILE:HG12	1:B:1054:ILE:CG2	2.40	0.50
1:C:1053:ASP:HB3	1:C:1058:LEU:H	1.72	0.50
1:A:324:LEU:HD11	1:A:353:SER:C	2.32	0.50
1:A:339:CYS:O	1:A:345:SER:OG	2.30	0.50
1:A:960:TRP:HH2	1:C:1165:ILE:HG12	1.77	0.50
1:B:623:VAL:HG12	1:C:65:SER:HA	1.94	0.50
1:B:778:PHE:CE1	1:C:971:PRO:HD3	2.47	0.50
1:A:967:PHE:HB3	1:A:968:ALA:HB2	1.94	0.50
1:A:1031:GLN:HG2	1:A:1035:LYS:HD3	1.92	0.50
1:A:1130:ALA:HB2	1:A:1135:TYR:HB2	1.93	0.50
1:B:259:THR:OG1	1:B:264:HIS:NE2	2.38	0.50
1:B:347:LEU:O	1:B:356:VAL:CG1	2.60	0.50
1:B:625:VAL:CG2	1:C:63:THR:OG1	2.60	0.50
1:C:341:PHE:CZ	1:C:696:MET:CB	2.95	0.50
1:B:49:ASP:HB3	1:B:52:LYS:HD2	1.94	0.49
1:B:735:LEU:HD12	1:B:739:PRO:HB2	1.94	0.49
1:C:1008:MET:HB3	1:C:1137:MET:HE3	1.94	0.49
1:B:347:LEU:O	1:B:356:VAL:HG11	2.11	0.49
1:B:377:GLN:HE22	1:B:408:ASN:ND2	2.10	0.49
1:A:71:TYR:C	1:A:71:TYR:CD2	2.86	0.49
1:A:341:PHE:HE1	1:A:696:MET:HB3	1.78	0.49
1:A:522:GLN:HG2	1:B:289:THR:CG2	2.37	0.49
1:A:583:SER:OG	1:A:609:TYR:HE1	1.94	0.49
1:B:376:GLU:C	1:B:609:TYR:CD1	2.85	0.49
1:B:628:GLN:HG3	1:C:63:THR:CG2	2.40	0.49
1:B:983:VAL:HG12	1:B:1121:THR:HB	1.93	0.49
1:A:324:LEU:CD2	1:A:354:PHE:CD1	2.96	0.49
1:A:1039:GLU:OE2	1:B:830:LYS:NZ	2.28	0.49
1:A:578:GLY:C	1:A:579:THR:HG23	2.33	0.49
1:B:804:VAL:HA	1:B:932:TYR:HA	1.95	0.49
1:C:66:ASN:HA	1:C:327:PHE:O	2.12	0.49
1:C:796:GLN:O	1:C:798:THR:N	2.40	0.49
1:A:804:VAL:HA	1:A:932:TYR:HA	1.94	0.49
1:B:264:HIS:CE1	1:B:283:THR:CG2	2.96	0.49
1:B:1008:MET:HB3	1:B:1137:MET:HE3	1.94	0.49
1:C:343:ASP:CB	1:C:661:VAL:HG22	2.24	0.49
1:C:1179:ARG:HB2	1:C:1185:SER:HA	1.95	0.49
1:C:343:ASP:HB3	1:C:363:VAL:CG2	2.35	0.49
1:A:50:VAL:HG22	1:A:78:GLN:OE1	2.13	0.49
1:A:577:TYR:CD1	1:A:610:GLY:C	2.56	0.49
1:A:983:VAL:HG12	1:A:1121:THR:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1008:MET:HB3	1:A:1137:MET:HE3	1.94	0.49
1:B:377:GLN:HE21	1:B:585:CYS:HB3	1.74	0.49
1:B:1130:ALA:HB2	1:B:1135:TYR:HB2	1.93	0.49
1:A:337:ILE:HD11	1:A:348:HIS:CD2	2.46	0.49
1:A:519:ASN:HB2	1:A:522:GLN:OE1	2.13	0.49
1:A:796:GLN:O	1:A:798:THR:N	2.40	0.49
1:A:1179:ARG:HB2	1:A:1185:SER:HA	1.95	0.49
1:B:66:ASN:HA	1:B:327:PHE:O	2.11	0.49
1:B:623:VAL:HG12	1:C:65:SER:CA	2.42	0.49
1:B:1053:ASP:HB3	1:B:1057:ARG:C	2.33	0.49
1:C:341:PHE:CE1	1:C:696:MET:HB2	2.48	0.49
1:C:983:VAL:HG12	1:C:1121:THR:HB	1.93	0.49
1:B:68:THR:O	1:B:69:ILE:HG23	2.12	0.49
1:B:343:ASP:CG	1:B:363:VAL:CG1	2.74	0.49
1:B:579:THR:O	1:C:61:GLY:CA	2.53	0.49
1:B:1179:ARG:HB2	1:B:1185:SER:HA	1.95	0.49
1:C:68:THR:O	1:C:69:ILE:HG23	2.13	0.49
1:A:49:ASP:HB3	1:A:52:LYS:HD2	1.95	0.48
1:A:971:PRO:HD3	1:C:778:PHE:CE1	2.48	0.48
1:A:324:LEU:CB	1:A:337:ILE:HB	2.36	0.48
1:A:720:SER:HG	1:A:757:MET:N	2.11	0.48
1:B:519:ASN:HB2	1:B:522:GLN:OE1	2.13	0.48
1:B:764:PHE:CG	1:C:943:MET:SD	3.06	0.48
1:C:660:SER:N	1:C:673:LEU:O	2.42	0.48
1:C:1053:ASP:O	1:C:1063:GLN:NE2	2.46	0.48
1:B:967:PHE:HB3	1:B:968:ALA:HB2	1.94	0.48
1:C:519:ASN:HB2	1:C:522:GLN:OE1	2.13	0.48
1:A:686:MET:SD	1:A:686:MET:N	2.75	0.48
1:A:692:SER:OG	1:A:696:MET:C	2.52	0.48
1:B:68:THR:O	1:B:69:ILE:HG22	2.13	0.48
1:B:785:ASN:OD1	1:B:1145:ASN:ND2	2.41	0.48
1:C:720:SER:HG	1:C:757:MET:N	2.11	0.48
1:A:628:GLN:CD	1:B:63:THR:CG2	2.81	0.48
1:A:735:LEU:HD12	1:A:739:PRO:HB2	1.94	0.48
1:B:344:LEU:CD2	1:B:670:HIS:CB	2.10	0.48
1:B:738:LEU:HD13	1:B:762:ILE:HG23	1.94	0.48
1:C:735:LEU:HD12	1:C:739:PRO:HB2	1.94	0.48
1:C:804:VAL:HA	1:C:932:TYR:HA	1.95	0.48
1:A:577:TYR:CE1	1:B:1056:GLN:OE1	2.66	0.48
1:A:990:LEU:HD11	1:A:1179:ARG:HD3	1.96	0.48
1:B:579:THR:O	1:C:61:GLY:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:720:SER:HG	1:B:757:MET:N	2.11	0.48
1:A:582:ASN:O	1:A:629:ARG:NH2	2.46	0.48
1:C:68:THR:O	1:C:69:ILE:HG22	2.13	0.48
1:A:728:LYS:H	1:A:761:SER:HG	1.58	0.48
1:A:800:GLN:HE21	1:A:934:VAL:HG11	1.78	0.48
1:B:642:TYR:HA	1:B:643:SER:HA	1.63	0.48
1:B:1039:GLU:OE2	1:C:830:LYS:NZ	2.30	0.48
1:C:629:ARG:HB2	1:C:642:TYR:HB3	1.96	0.48
1:A:321:LEU:HD23	1:B:822:ARG:HH12	1.78	0.48
1:C:967:PHE:HB3	1:C:968:ALA:HB2	1.94	0.48
1:B:625:VAL:CG1	1:C:279:PHE:CE2	2.97	0.48
1:B:1050:SER:OG	1:B:1051:ILE:N	2.47	0.48
1:C:49:ASP:HB3	1:C:52:LYS:HD2	1.95	0.48
1:C:341:PHE:CD1	1:C:696:MET:HB2	2.49	0.48
1:C:800:GLN:HE21	1:C:934:VAL:HG11	1.78	0.48
1:B:58:TYR:HD1	1:B:279:PHE:CE1	2.24	0.47
1:B:335:ARG:CG	1:B:354:PHE:CZ	2.55	0.47
1:B:440:SER:HB3	1:B:576:GLN:HB2	1.95	0.47
1:B:580:ASP:HB3	1:C:60:GLN:HB3	1.96	0.47
1:C:335:ARG:C	1:C:354:PHE:CZ	2.87	0.47
1:C:990:LEU:HD11	1:C:1179:ARG:HD3	1.96	0.47
1:C:1054:ILE:C	1:C:1055:ILE:HG13	2.34	0.47
1:A:804:VAL:HG11	1:A:1078:LEU:HD11	1.96	0.47
1:A:943:MET:SD	1:C:764:PHE:CG	3.07	0.47
1:B:341:PHE:O	1:B:696:MET:O	2.32	0.47
1:B:129:THR:CG2	1:B:131:ILE:H	2.24	0.47
1:B:575:VAL:O	1:B:577:TYR:CB	2.62	0.47
1:B:800:GLN:HE21	1:B:934:VAL:HG11	1.78	0.47
1:B:804:VAL:HG11	1:B:1078:LEU:HD11	1.96	0.47
1:A:405:THR:HA	1:A:584:VAL:CG2	2.43	0.47
1:B:933:LYS:NZ	1:B:934:VAL:O	2.47	0.47
1:B:1059:ASP:OD1	1:B:1062:GLU:CD	2.52	0.47
1:C:347:LEU:HD11	1:C:363:VAL:CG2	2.44	0.47
1:C:351:TYR:O	1:C:352:GLU:HB2	2.14	0.47
1:C:798:THR:HB	1:C:842:GLN:HE21	1.80	0.47
1:A:129:THR:CG2	1:A:131:ILE:H	2.24	0.47
1:A:385:PHE:HD2	1:A:414:LEU:HD13	1.78	0.47
1:A:677:VAL:HG21	1:B:910:ASP:OD1	2.14	0.47
1:A:822:ARG:HG2	1:C:72:GLN:CD	2.19	0.47
1:A:798:THR:HB	1:A:842:GLN:HE21	1.80	0.47
1:A:867:GLY:HA2	1:A:868:ASP:HA	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:GLY:O	1:A:986:THR:N	2.48	0.47
1:A:1160:ASN:HB3	1:A:1198:THR:HG21	1.97	0.47
1:A:629:ARG:HB2	1:A:642:TYR:HB3	1.96	0.47
1:B:343:ASP:HB3	1:B:363:VAL:CG2	2.42	0.47
1:B:344:LEU:CD1	1:B:663:TYR:CB	2.93	0.47
1:B:383:CYS:N	1:B:408:ASN:O	2.44	0.47
1:B:399:PHE:O	1:B:523:TYR:OH	2.15	0.47
1:B:429:SER:CB	1:C:1059:ASP:HA	2.38	0.47
1:B:439:SER:HA	1:B:582:ASN:N	2.28	0.47
1:B:984:GLY:O	1:B:986:THR:N	2.48	0.47
1:A:324:LEU:CD2	1:A:354:PHE:CE1	2.98	0.47
1:A:433:ILE:HA	1:A:438:TYR:OH	2.14	0.47
1:A:579:THR:HA	1:B:61:GLY:O	2.15	0.47
1:B:476:PRO:CD	1:B:577:TYR:CG	2.93	0.47
1:C:129:THR:CG2	1:C:131:ILE:H	2.24	0.47
1:C:485:PRO:O	1:C:566:GLN:HG2	2.15	0.47
1:A:324:LEU:HB3	1:A:337:ILE:CB	2.35	0.47
1:A:628:GLN:NE2	1:B:63:THR:HG21	2.28	0.47
1:A:907:GLN:O	1:A:911:ASP:CB	2.63	0.47
1:C:324:LEU:HD12	1:C:352:GLU:O	2.15	0.47
1:C:804:VAL:HG11	1:C:1078:LEU:HD11	1.96	0.47
1:A:340:GLY:C	1:A:695:SER:HB2	2.35	0.47
1:C:984:GLY:O	1:C:986:THR:N	2.48	0.47
1:A:428:ILE:HA	1:B:1058:LEU:H	1.80	0.46
1:C:336:ALA:HA	1:C:354:PHE:HZ	1.81	0.46
1:C:1060:VAL:O	1:C:1063:GLN:HB3	2.15	0.46
1:B:439:SER:HA	1:B:582:ASN:H	1.72	0.46
1:B:990:LEU:HD11	1:B:1179:ARG:HD3	1.96	0.46
1:A:436:ASN:O	1:A:586:PRO:HD3	2.16	0.46
1:A:437:CYS:CA	1:A:609:TYR:O	2.63	0.46
1:A:485:PRO:O	1:A:566:GLN:HG2	2.15	0.46
1:A:642:TYR:HA	1:A:643:SER:HA	1.64	0.46
1:B:845:SER:O	1:B:849:LEU:HB2	2.15	0.46
1:B:907:GLN:O	1:B:911:ASP:CB	2.63	0.46
1:C:658:PRO:HG2	1:C:675:GLY:HA3	1.98	0.46
1:C:907:GLN:O	1:C:911:ASP:CB	2.63	0.46
1:A:347:LEU:HD11	1:A:361:TYR:HB3	1.97	0.46
1:A:359:GLY:HA2	1:A:733:GLN:HB2	1.97	0.46
1:A:845:SER:O	1:A:849:LEU:HB2	2.15	0.46
1:B:68:THR:C	1:B:69:ILE:CG2	2.83	0.46
1:B:321:LEU:HA	1:C:822:ARG:HH12	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:798:THR:HB	1:B:842:GLN:HE21	1.80	0.46
1:B:1128:VAL:HG23	1:B:1135:TYR:HB3	1.97	0.46
1:C:68:THR:C	1:C:69:ILE:CG2	2.83	0.46
1:C:845:SER:O	1:C:849:LEU:HB2	2.15	0.46
1:C:872:THR:OG1	1:C:1009:GLN:NE2	2.39	0.46
1:A:348:HIS:O	1:A:349:CYS:C	2.54	0.46
1:A:408:ASN:HA	1:A:585:CYS:O	2.15	0.46
1:A:587:LYS:HB2	1:A:587:LYS:HE3	1.74	0.46
1:B:344:LEU:HA	1:B:661:VAL:HG11	1.97	0.46
1:B:408:ASN:HA	1:B:585:CYS:O	2.15	0.46
1:B:511:ARG:HD2	1:C:436:ASN:HD22	0.65	0.46
1:C:408:ASN:HA	1:C:585:CYS:O	2.15	0.46
1:C:1053:ASP:O	1:C:1063:GLN:CG	2.61	0.46
1:A:722:LEU:HG	1:A:758:ARG:HA	1.98	0.46
1:B:1149:VAL:HG12	1:B:1150:VAL:H	1.81	0.46
1:B:1160:ASN:HB3	1:B:1198:THR:HG21	1.97	0.46
1:C:933:LYS:NZ	1:C:934:VAL:O	2.47	0.46
1:A:807:LYS:HA	1:A:821:LEU:HD13	1.97	0.46
1:A:1181:VAL:HA	1:A:1182:ASP:HA	1.60	0.46
1:B:485:PRO:O	1:B:566:GLN:HG2	2.15	0.46
1:B:658:PRO:HG2	1:B:675:GLY:HA3	1.98	0.46
1:C:70:THR:CG2	1:C:352:GLU:CD	2.84	0.46
1:C:335:ARG:CD	1:C:354:PHE:CE2	2.99	0.46
1:C:359:GLY:HA2	1:C:733:GLN:HB2	1.98	0.46
1:A:271:VAL:CG2	1:C:627:GLN:HE22	2.29	0.46
1:A:580:ASP:OD2	1:A:628:GLN:HG3	2.15	0.46
1:C:1128:VAL:HG23	1:C:1135:TYR:HB3	1.98	0.46
1:A:1164:CYS:HA	1:A:1165:ILE:HA	1.69	0.46
1:C:323:PHE:CD1	1:C:338:ASP:O	2.68	0.46
1:C:1160:ASN:HB3	1:C:1198:THR:HG21	1.97	0.46
1:C:1171:TYR:H	1:C:1178:THR:HG22	1.81	0.46
1:A:340:GLY:HA3	1:A:695:SER:HB2	1.97	0.45
1:A:433:ILE:CG1	1:A:438:TYR:OH	2.65	0.45
1:A:677:VAL:CB	1:B:909:TYR:CD2	2.99	0.45
1:A:725:GLU:OE2	1:A:728:LYS:NZ	2.43	0.45
1:B:803:THR:HG22	1:B:839:ASN:HD21	1.81	0.45
1:B:807:LYS:HA	1:B:821:LEU:HD13	1.97	0.45
1:C:335:ARG:HH11	1:C:354:PHE:HD2	1.61	0.45
1:C:712:GLY:HA3	1:C:713:CYS:HA	1.67	0.45
1:A:658:PRO:HG2	1:A:675:GLY:HA3	1.98	0.45
1:A:1128:VAL:HG23	1:A:1135:TYR:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:339:CYS:HG	1:B:349:CYS:HG	0.92	0.45
1:B:1013:THR:HA	1:B:1014:THR:HA	1.76	0.45
1:C:807:LYS:HA	1:C:821:LEU:HD13	1.97	0.45
1:A:781:SER:OG	1:B:857:GLN:NE2	2.47	0.45
1:B:511:ARG:NE	1:C:436:ASN:HD22	2.04	0.45
1:B:634:ALA:HB2	1:C:67:ILE:HD13	1.94	0.45
1:B:677:VAL:CB	1:C:909:TYR:CD2	3.00	0.45
1:B:728:LYS:H	1:B:761:SER:HG	1.64	0.45
1:C:323:PHE:CZ	1:C:338:ASP:OD1	2.67	0.45
1:C:336:ALA:HA	1:C:354:PHE:CZ	2.51	0.45
1:C:341:PHE:H	1:C:345:SER:CB	2.29	0.45
1:C:803:THR:HG22	1:C:839:ASN:HD21	1.81	0.45
1:C:1149:VAL:HG12	1:C:1150:VAL:H	1.81	0.45
1:A:323:PHE:CZ	1:A:338:ASP:HB3	2.52	0.45
1:A:910:ASP:OD1	1:C:677:VAL:HG21	2.17	0.45
1:B:867:GLY:HA2	1:B:868:ASP:HA	1.63	0.45
1:C:343:ASP:CA	1:C:363:VAL:HG21	2.45	0.45
1:C:1013:THR:HA	1:C:1014:THR:HA	1.76	0.45
1:A:628:GLN:CD	1:B:63:THR:HG21	2.36	0.45
1:A:685:THR:CG2	1:A:697:LEU:CD1	2.51	0.45
1:C:498:SER:HB3	1:C:534:VAL:HG23	1.99	0.45
1:A:627:GLN:HE21	1:B:271:VAL:HG13	1.82	0.45
1:A:993:ASN:HA	1:A:994:GLN:HA	1.75	0.45
1:A:1149:VAL:HG12	1:A:1150:VAL:H	1.81	0.45
1:B:347:LEU:C	1:B:356:VAL:HG11	2.37	0.45
1:B:722:LEU:HG	1:B:758:ARG:HA	1.98	0.45
1:C:341:PHE:CE1	1:C:696:MET:CB	2.99	0.45
1:A:343:ASP:CG	1:A:661:VAL:HG23	2.27	0.45
1:A:498:SER:HB3	1:A:534:VAL:HG23	1.99	0.45
1:A:697:LEU:CD2	1:A:698:LYS:N	2.69	0.45
1:B:1051:ILE:CG1	1:B:1054:ILE:CG2	2.86	0.45
1:C:867:GLY:HA2	1:C:868:ASP:HA	1.63	0.45
1:C:1053:ASP:CB	1:C:1058:LEU:CD1	2.85	0.45
1:A:66:ASN:HB2	1:A:328:SER:C	2.36	0.45
1:A:803:THR:HG22	1:A:839:ASN:HD21	1.81	0.45
1:C:324:LEU:CD1	1:C:352:GLU:O	2.65	0.45
1:C:993:ASN:HA	1:C:994:GLN:HA	1.75	0.45
1:A:403:VAL:HG22	1:A:442:ILE:HG12	1.99	0.45
1:B:394:PRO:HG3	1:B:400:LYS:HG3	1.99	0.45
1:B:1171:TYR:H	1:B:1178:THR:HG22	1.81	0.45
1:A:66:ASN:CB	1:A:329:VAL:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:TYR:H	1:A:1178:THR:HG22	1.81	0.45
1:B:335:ARG:C	1:B:354:PHE:CZ	2.90	0.45
1:C:337:ILE:HD12	1:C:348:HIS:HB3	1.98	0.45
1:A:346:GLN:NE2	1:A:346:GLN:HA	2.32	0.44
1:A:348:HIS:ND1	1:A:356:VAL:HG22	2.27	0.44
1:B:781:SER:OG	1:C:857:GLN:NE2	2.47	0.44
1:C:792:GLN:HG3	1:C:1138:HIS:HB2	2.00	0.44
1:A:429:SER:HB3	1:B:1058:LEU:CA	2.41	0.44
1:A:577:TYR:CD1	1:A:610:GLY:CA	2.99	0.44
1:A:765:ASN:HB2	1:A:766:HIS:HA	2.00	0.44
1:A:933:LYS:NZ	1:A:934:VAL:O	2.47	0.44
1:A:1186:TYR:HB3	1:A:1187:THR:H	1.53	0.44
1:B:344:LEU:CD1	1:B:663:TYR:HB2	2.47	0.44
1:B:441:LEU:HD22	1:B:442:ILE:N	2.26	0.44
1:B:501:ASN:HD22	1:B:559:SER:HG	1.60	0.44
1:B:677:VAL:HG21	1:C:910:ASP:OD1	2.17	0.44
1:B:792:GLN:HG3	1:B:1138:HIS:HB2	2.00	0.44
1:C:68:THR:CG2	1:C:69:ILE:N	2.80	0.44
1:C:722:LEU:HG	1:C:758:ARG:HA	1.98	0.44
1:B:68:THR:CG2	1:B:69:ILE:N	2.80	0.44
1:B:377:GLN:HE22	1:B:408:ASN:HD22	1.66	0.44
1:B:498:SER:HB3	1:B:534:VAL:HG23	1.99	0.44
1:B:582:ASN:CG	1:B:609:TYR:CE2	2.90	0.44
1:B:1164:CYS:HA	1:B:1165:ILE:HA	1.69	0.44
1:A:344:LEU:HD11	1:A:663:TYR:CE1	2.41	0.44
1:C:964:LEU:HA	1:C:965:SER:HA	1.78	0.44
1:A:346:GLN:HG3	1:A:693:THR:OG1	2.18	0.44
1:B:63:THR:C	1:B:64:TYR:CD2	2.91	0.44
1:B:712:GLY:HA3	1:B:713:CYS:HA	1.67	0.44
1:C:335:ARG:CG	1:C:354:PHE:CE2	3.00	0.44
1:C:335:ARG:CZ	1:C:354:PHE:HD2	2.30	0.44
1:C:346:GLN:HG2	1:C:693:THR:OG1	2.18	0.44
1:C:347:LEU:O	1:C:350:SER:OG	2.28	0.44
1:C:394:PRO:HG3	1:C:400:LYS:HG3	1.98	0.44
1:C:577:TYR:O	1:C:577:TYR:CD2	2.70	0.44
1:B:359:GLY:HA2	1:B:733:GLN:HB2	1.98	0.44
1:B:623:VAL:CG1	1:C:65:SER:CA	2.95	0.44
1:A:423:PHE:CD1	1:A:430:PRO:HG3	2.52	0.44
1:A:964:LEU:HA	1:A:965:SER:HA	1.78	0.44
1:B:344:LEU:CD1	1:B:663:TYR:CG	2.90	0.44
1:B:812:ASN:ND2	1:B:1051:ILE:CD1	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1114:SER:OG	1:B:1115:GLY:N	2.51	0.44
1:C:785:ASN:OD1	1:C:1145:ASN:ND2	2.41	0.44
1:A:337:ILE:CD1	1:A:348:HIS:HD2	2.16	0.44
1:A:979:ARG:O	1:A:1110:GLN:NE2	2.51	0.44
1:B:456:LEU:HD12	1:B:456:LEU:HA	1.88	0.44
1:A:394:PRO:HG3	1:A:400:LYS:HG3	1.99	0.44
1:B:326:ASP:CB	1:B:335:ARG:CG	2.93	0.44
1:B:441:LEU:CD2	1:B:441:LEU:C	2.86	0.44
1:B:765:ASN:HB2	1:B:766:HIS:HA	2.00	0.44
1:B:979:ARG:O	1:B:1110:GLN:NE2	2.51	0.44
1:C:63:THR:C	1:C:64:TYR:CD2	2.91	0.44
1:C:326:ASP:HB2	1:C:354:PHE:CE2	2.53	0.44
1:C:343:ASP:HA	1:C:363:VAL:HG21	1.99	0.44
1:C:1060:VAL:HA	1:C:1063:GLN:OE1	2.18	0.44
1:A:433:ILE:HG13	1:A:438:TYR:OH	2.18	0.43
1:A:638:LEU:HG	1:A:651:LEU:HD21	2.00	0.43
1:A:1114:SER:OG	1:A:1115:GLY:N	2.51	0.43
1:B:70:THR:OG1	1:B:352:GLU:CD	2.57	0.43
1:B:871:LEU:HA	1:B:871:LEU:HD23	1.84	0.43
1:B:1049:ALA:O	1:B:1050:SER:CB	2.66	0.43
1:C:1037:ALA:HA	1:C:1040:LEU:HD12	2.00	0.43
1:A:909:TYR:CD2	1:C:677:VAL:CB	3.01	0.43
1:B:510:ASP:O	1:B:511:ARG:HB2	2.18	0.43
1:C:484:VAL:HA	1:C:485:PRO:HD3	1.72	0.43
1:B:428:ILE:HA	1:C:1058:LEU:CA	2.49	0.43
1:C:718:VAL:HG11	1:C:759:LEU:HD11	2.00	0.43
1:C:979:ARG:O	1:C:1110:GLN:NE2	2.51	0.43
1:C:1058:LEU:CD1	1:C:1063:GLN:N	2.67	0.43
1:A:63:THR:C	1:A:64:TYR:CD2	2.91	0.43
1:A:792:GLN:HG3	1:A:1138:HIS:HB2	1.99	0.43
1:B:1181:VAL:HA	1:B:1182:ASP:HA	1.60	0.43
1:C:493:LYS:H	1:C:493:LYS:HG2	1.58	0.43
1:C:726:ASP:HB2	1:C:727:CYS:HB3	2.01	0.43
1:A:441:LEU:HD13	1:A:575:VAL:HG12	1.89	0.43
1:B:1173:ILE:HG22	1:B:1174:LYS:H	1.83	0.43
1:C:765:ASN:HB2	1:C:766:HIS:HA	2.00	0.43
1:A:427:GLN:O	1:B:1057:ARG:HD3	2.17	0.43
1:B:726:ASP:HB2	1:B:727:CYS:HB3	2.01	0.43
1:B:1122:HIS:NE2	1:B:1125:SER:HB3	2.34	0.43
1:C:1053:ASP:CG	1:C:1066:GLN:OE1	2.50	0.43
1:A:321:LEU:HA	1:B:822:ARG:HH11	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:638:LEU:HG	1:C:651:LEU:HD21	2.00	0.43
1:C:1114:SER:OG	1:C:1115:GLY:N	2.51	0.43
1:C:1164:CYS:HA	1:C:1165:ILE:HA	1.69	0.43
1:C:346:GLN:NE2	1:C:346:GLN:CA	2.80	0.43
1:A:129:THR:CG2	1:A:134:PRO:HA	2.49	0.43
1:A:625:VAL:HG11	1:B:63:THR:HG21	2.00	0.43
1:A:339:CYS:HA	1:A:345:SER:OG	2.19	0.43
1:A:718:VAL:HG11	1:A:759:LEU:HD11	2.00	0.43
1:C:129:THR:CG2	1:C:134:PRO:HA	2.49	0.43
1:C:335:ARG:NH1	1:C:354:PHE:CD2	2.80	0.43
1:A:68:THR:HG23	1:A:326:ASP:HA	1.89	0.42
1:A:341:PHE:CE1	1:A:696:MET:HB2	2.44	0.42
1:A:428:ILE:HG21	1:A:478:CYS:SG	2.59	0.42
1:A:1173:ILE:HG22	1:A:1174:LYS:H	1.83	0.42
1:C:366:PHE:N	1:C:691:ARG:O	2.51	0.42
1:C:581:THR:O	1:C:583:SER:N	2.47	0.42
1:B:129:THR:CG2	1:B:134:PRO:HA	2.49	0.42
1:B:352:GLU:N	1:B:352:GLU:OE1	2.52	0.42
1:C:1122:HIS:NE2	1:C:1125:SER:HB3	2.34	0.42
1:B:436:ASN:C	1:B:438:TYR:CE2	2.84	0.42
1:B:579:THR:O	1:B:581:THR:OG1	2.34	0.42
1:B:638:LEU:HG	1:B:651:LEU:HD21	2.00	0.42
1:B:718:VAL:HG11	1:B:759:LEU:HD11	2.00	0.42
1:B:1054:ILE:HB	1:B:1055:ILE:H	1.65	0.42
1:C:1173:ILE:HG22	1:C:1174:LYS:H	1.83	0.42
1:A:377:GLN:HG2	1:A:585:CYS:SG	2.58	0.42
1:A:425:CYS:CB	1:A:428:ILE:C	2.85	0.42
1:B:347:LEU:HB3	1:B:356:VAL:HG11	2.01	0.42
1:B:428:ILE:HG13	1:C:1056:GLN:C	2.26	0.42
1:B:511:ARG:HB2	1:C:436:ASN:CB	2.48	0.42
1:B:625:VAL:CG1	1:C:279:PHE:HE2	2.31	0.42
1:B:634:ALA:HB3	1:C:67:ILE:HD11	1.96	0.42
1:B:677:VAL:HA	1:B:678:ALA:HA	1.90	0.42
1:A:66:ASN:CB	1:A:328:SER:C	2.88	0.42
1:A:377:GLN:NE2	1:A:586:PRO:O	2.42	0.42
1:A:580:ASP:HB2	1:A:628:GLN:HB2	1.91	0.42
1:A:712:GLY:HA3	1:A:713:CYS:HA	1.67	0.42
1:A:1037:ALA:HA	1:A:1040:LEU:HD12	2.00	0.42
1:B:727:CYS:HB2	1:B:763:ALA:HA	2.02	0.42
1:B:993:ASN:HA	1:B:994:GLN:HA	1.75	0.42
1:B:1037:ALA:HA	1:B:1040:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:344:LEU:HD12	1:C:663:TYR:CE1	2.54	0.42
1:B:587:LYS:HB2	1:B:587:LYS:HE3	1.74	0.42
1:C:1181:VAL:HA	1:C:1182:ASP:HA	1.60	0.42
1:A:71:TYR:CE2	1:A:72:GLN:C	2.93	0.42
1:A:405:THR:O	1:A:407:CYS:N	2.53	0.42
1:B:511:ARG:HD3	1:C:436:ASN:HB2	1.93	0.42
1:C:727:CYS:HB2	1:C:763:ALA:HA	2.02	0.42
1:C:728:LYS:H	1:C:761:SER:HG	1.66	0.42
1:A:627:GLN:HE21	1:B:271:VAL:CG1	2.33	0.42
1:A:693:THR:HA	1:A:694:ARG:HA	1.80	0.42
1:A:716:GLY:HA2	1:B:906:MET:HG2	2.01	0.42
1:A:385:PHE:O	1:A:387:PRO:HD2	2.20	0.42
1:A:423:PHE:CE1	1:A:430:PRO:HG3	2.55	0.42
1:A:583:SER:CA	1:A:609:TYR:CD1	3.00	0.42
1:A:731:LEU:HD22	1:A:732:GLY:H	1.85	0.42
1:A:976:ILE:O	1:A:980:LEU:CB	2.68	0.42
1:B:732:GLY:HA2	1:B:734:SER:HB2	2.02	0.42
1:C:347:LEU:N	1:C:347:LEU:CD1	2.83	0.42
1:C:731:LEU:HD22	1:C:732:GLY:H	1.85	0.42
1:C:976:ILE:O	1:C:980:LEU:CB	2.68	0.42
1:C:1061:LEU:H	1:C:1061:LEU:HG	1.54	0.42
1:A:726:ASP:HB2	1:A:727:CYS:HB3	2.01	0.42
1:A:1122:HIS:NE2	1:A:1125:SER:HB3	2.34	0.42
1:B:581:THR:O	1:B:582:ASN:HB3	2.20	0.42
1:B:731:LEU:HD22	1:B:732:GLY:H	1.85	0.42
1:C:872:THR:HG1	1:C:1009:GLN:HE21	1.63	0.42
1:C:1056:GLN:OE1	1:C:1056:GLN:N	2.52	0.42
1:A:578:GLY:HA2	1:A:579:THR:HG1	1.79	0.41
1:B:990:LEU:HD23	1:B:990:LEU:HA	1.86	0.41
1:A:341:PHE:HD1	1:A:696:MET:CB	2.24	0.41
1:A:1181:VAL:HB	1:B:967:PHE:CE2	2.54	0.41
1:B:579:THR:CA	1:C:61:GLY:CA	2.98	0.41
1:B:624:GLY:O	1:C:331:GLY:HA3	2.20	0.41
1:B:1201:ASN:HB2	1:B:1206:ALA:HB3	2.02	0.41
1:A:344:LEU:HD22	1:A:344:LEU:N	2.35	0.41
1:A:366:PHE:N	1:A:691:ARG:O	2.51	0.41
1:B:366:PHE:N	1:B:691:ARG:O	2.51	0.41
1:B:436:ASN:HB3	1:B:438:TYR:CZ	2.55	0.41
1:A:334:ARG:C	1:A:335:ARG:HG3	2.39	0.41
1:A:401:ARG:NH1	1:B:260:ALA:HB1	2.31	0.41
1:A:429:SER:CB	1:B:1058:LEU:CB	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:VAL:HA	1:B:485:PRO:HD3	1.72	0.41
1:B:976:ILE:O	1:B:980:LEU:CB	2.68	0.41
1:A:347:LEU:HA	1:A:347:LEU:HD12	1.82	0.41
1:A:785:ASN:OD1	1:A:1145:ASN:ND2	2.41	0.41
1:B:810:VAL:HG22	1:B:1074:ARG:HD2	2.02	0.41
1:C:728:LYS:HA	1:C:729:LEU:HA	1.71	0.41
1:A:335:ARG:HD3	1:A:354:PHE:CD2	2.32	0.41
1:A:697:LEU:HD22	1:A:698:LYS:CB	2.50	0.41
1:A:1127:VAL:HG13	1:A:1136:PHE:HE1	1.86	0.41
1:C:323:PHE:CD1	1:C:338:ASP:HA	2.55	0.41
1:A:68:THR:HG23	1:A:326:ASP:CA	2.48	0.41
1:A:323:PHE:HA	1:A:337:ILE:O	2.19	0.41
1:A:1201:ASN:HB2	1:A:1206:ALA:HB3	2.02	0.41
1:B:484:VAL:O	1:B:566:GLN:HB3	2.21	0.41
1:B:691:ARG:HB3	1:B:693:THR:HG22	2.03	0.41
1:C:810:VAL:HG22	1:C:1074:ARG:HD2	2.02	0.41
1:A:129:THR:HG22	1:A:131:ILE:N	2.26	0.41
1:A:853:VAL:HG13	1:A:951:LEU:HD22	2.03	0.41
1:A:967:PHE:CE2	1:C:1181:VAL:HB	2.55	0.41
1:B:353:SER:C	1:B:355:ASP:N	2.73	0.41
1:B:609:TYR:OH	1:B:629:ARG:NH2	2.50	0.41
1:C:351:TYR:CD2	1:C:356:VAL:HG22	2.55	0.41
1:C:617:PHE:HB3	1:C:649:TYR:HB3	2.03	0.41
1:C:1054:ILE:CD1	1:C:1054:ILE:H	1.98	0.41
1:A:70:THR:HG22	1:A:324:LEU:CA	2.32	0.41
1:A:346:GLN:C	1:A:346:GLN:HE21	2.24	0.41
1:A:778:PHE:CD1	1:B:971:PRO:HD3	2.56	0.41
1:B:641:TYR:CD2	1:B:648:TYR:HA	2.56	0.41
1:B:728:LYS:N	1:B:761:SER:OG	2.45	0.41
1:C:390:SER:O	1:C:390:SER:OG	2.39	0.41
1:C:530:VAL:HA	1:C:531:PRO:HD2	1.90	0.41
1:C:764:PHE:HA	1:C:765:ASN:HA	1.81	0.41
1:C:1127:VAL:HG13	1:C:1136:PHE:HE1	1.86	0.41
1:A:341:PHE:O	1:A:342:ASN:CB	2.67	0.41
1:A:401:ARG:HH12	1:B:260:ALA:CB	2.28	0.41
1:A:487:ASN:OD1	1:A:487:ASN:N	2.54	0.41
1:A:641:TYR:CD2	1:A:648:TYR:HA	2.56	0.41
1:B:582:ASN:CB	1:B:609:TYR:CE2	3.00	0.41
1:C:341:PHE:CZ	1:C:696:MET:HB2	2.56	0.41
1:C:484:VAL:O	1:C:566:GLN:HB3	2.21	0.41
1:A:530:VAL:HA	1:A:531:PRO:HD2	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:631:VAL:HG23	1:B:64:TYR:HA	2.03	0.40
1:A:727:CYS:HB2	1:A:763:ALA:HA	2.02	0.40
1:A:733:GLN:H	1:A:733:GLN:HG3	1.64	0.40
1:B:264:HIS:HB3	1:B:280:GLN:OE1	2.21	0.40
1:B:344:LEU:HB2	1:B:670:HIS:CB	2.50	0.40
1:B:504:SER:HB3	1:B:515:PRO:HA	2.03	0.40
1:B:617:PHE:HB3	1:B:649:TYR:HB3	2.03	0.40
1:B:782:ILE:H	1:B:782:ILE:HG13	1.59	0.40
1:C:487:ASN:OD1	1:C:487:ASN:N	2.54	0.40
1:A:62:ARG:CB	1:C:632:TYR:CE2	3.04	0.40
1:A:355:ASP:OD1	1:A:665:LYS:HB2	2.21	0.40
1:A:426:SER:O	1:A:427:GLN:HB2	2.20	0.40
1:B:428:ILE:HA	1:C:1058:LEU:N	2.34	0.40
1:B:583:SER:HA	1:B:609:TYR:CD1	2.56	0.40
1:B:625:VAL:HG21	1:C:63:THR:CG2	2.46	0.40
1:B:853:VAL:HG13	1:B:951:LEU:HD22	2.03	0.40
1:B:1100:LYS:O	1:B:1104:ASN:ND2	2.54	0.40
1:B:1181:VAL:HB	1:C:967:PHE:CE2	2.56	0.40
1:C:413:LYS:O	1:C:416:SER:OG	2.35	0.40
1:C:732:GLY:HA2	1:C:734:SER:HB2	2.02	0.40
1:C:853:VAL:HG13	1:C:951:LEU:HD22	2.03	0.40
1:C:1100:LYS:O	1:C:1104:ASN:ND2	2.54	0.40
1:A:810:VAL:HG22	1:A:1074:ARG:HD2	2.02	0.40
1:B:583:SER:HA	1:B:609:TYR:CG	2.56	0.40
1:C:456:LEU:HD12	1:C:456:LEU:HA	1.88	0.40
1:C:598:SER:OG	1:C:599:GLN:N	2.54	0.40
1:C:1201:ASN:HB2	1:C:1206:ALA:HB3	2.02	0.40
1:A:484:VAL:O	1:A:566:GLN:HB3	2.21	0.40
1:A:906:MET:HG2	1:C:716:GLY:HA2	2.03	0.40
1:B:487:ASN:OD1	1:B:487:ASN:N	2.54	0.40
1:B:716:GLY:HA2	1:C:906:MET:HG2	2.03	0.40
1:A:383:CYS:SG	1:A:404:PHE:CB	3.01	0.40
1:A:423:PHE:CE2	1:A:430:PRO:HB3	2.57	0.40
1:A:726:ASP:OD1	1:A:726:ASP:N	2.52	0.40
1:A:1180:ILE:HG22	1:A:1181:VAL:H	1.87	0.40
1:B:349:CYS:C	1:B:351:TYR:N	2.73	0.40
1:B:511:ARG:CB	1:C:436:ASN:HB3	2.49	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1128/1323 (85%)	964 (86%)	147 (13%)	17 (2%)	10	46
1	B	1128/1323 (85%)	965 (86%)	147 (13%)	16 (1%)	11	47
1	C	1128/1323 (85%)	966 (86%)	147 (13%)	15 (1%)	12	48
All	All	3384/3969 (85%)	2895 (86%)	441 (13%)	48 (1%)	15	47

All (48) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	583	SER
1	A	584	VAL
1	A	596	ILE
1	A	597	ALA
1	A	797	THR
1	B	66	ASN
1	B	350	SER
1	B	351	TYR
1	B	511	ARG
1	B	582	ASN
1	B	797	THR
1	B	1054	ILE
1	C	66	ASN
1	C	797	THR
1	C	1056	GLN
1	A	351	TYR
1	A	485	PRO
1	A	997	ILE
1	B	485	PRO
1	B	997	ILE
1	C	342	ASN
1	C	485	PRO
1	C	582	ASN
1	C	997	ILE

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Mol	Chain	Res	Type
1	A	855	SER
1	B	855	SER
1	C	855	SER
1	C	1063	GLN
1	A	382	GLU
1	B	382	GLU
1	C	382	GLU
1	A	386	SER
1	A	581	THR
1	A	642	TYR
1	B	579	THR
1	B	642	TYR
1	B	736	CYS
1	C	642	TYR
1	A	736	CYS
1	C	736	CYS
1	A	1181	VAL
1	B	1181	VAL
1	C	1055	ILE
1	C	1181	VAL
1	A	1054	ILE
1	B	985	ILE
1	C	985	ILE
1	A	985	ILE

5.3.2 Protein sidechains [i](#)

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	973/1143 (85%)	919 (94%)	54 (6%)	21	49
1	B	973/1143 (85%)	923 (95%)	50 (5%)	24	51
1	C	974/1143 (85%)	924 (95%)	50 (5%)	24	51
All	All	2920/3429 (85%)	2766 (95%)	154 (5%)	26	50

All (154) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	58	TYR
1	A	64	TYR
1	A	71	TYR
1	A	72	GLN
1	A	179	LEU
1	A	341	PHE
1	A	342	ASN
1	A	343	ASP
1	A	346	GLN
1	A	349	CYS
1	A	350	SER
1	A	351	TYR
1	A	352	GLU
1	A	353	SER
1	A	356	VAL
1	A	402	LEU
1	A	411	LEU
1	A	423	PHE
1	A	427	GLN
1	A	429	SER
1	A	450	LEU
1	A	458	VAL
1	A	465	SER
1	A	473	PHE
1	A	479	LEU
1	A	481	LEU
1	A	484	VAL
1	A	487	ASN
1	A	488	LEU
1	A	490	THR
1	A	510	ASP
1	A	521	ASN
1	A	535	TRP
1	A	555	VAL
1	A	565	GLU
1	A	573	ILE
1	A	579	THR
1	A	581	THR
1	A	588	LEU
1	A	602	ASN
1	A	627	GLN
1	A	665	LYS
1	A	677	VAL

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Mol	Chain	Res	Type
1	A	696	MET
1	A	697	LEU
1	A	722	LEU
1	A	799	ILE
1	A	832	ASN
1	A	848	ASN
1	A	854	LYS
1	A	870	ASN
1	A	1028	ASN
1	A	1165	ILE
1	A	1181	VAL
1	B	58	TYR
1	B	64	TYR
1	B	179	LEU
1	B	335	ARG
1	B	349	CYS
1	B	352	GLU
1	B	353	SER
1	B	356	VAL
1	B	411	LEU
1	B	423	PHE
1	B	438	TYR
1	B	441	LEU
1	B	450	LEU
1	B	458	VAL
1	B	465	SER
1	B	473	PHE
1	B	479	LEU
1	B	481	LEU
1	B	484	VAL
1	B	487	ASN
1	B	488	LEU
1	B	490	THR
1	B	535	TRP
1	B	555	VAL
1	B	565	GLU
1	B	573	ILE
1	B	581	THR
1	B	582	ASN
1	B	588	LEU
1	B	602	ASN
1	B	608	LEU

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Mol	Chain	Res	Type
1	B	609	TYR
1	B	627	GLN
1	B	629	ARG
1	B	665	LYS
1	B	677	VAL
1	B	722	LEU
1	B	799	ILE
1	B	832	ASN
1	B	848	ASN
1	B	854	LYS
1	B	870	ASN
1	B	1028	ASN
1	B	1053	ASP
1	B	1054	ILE
1	B	1055	ILE
1	B	1058	LEU
1	B	1059	ASP
1	B	1165	ILE
1	B	1181	VAL
1	C	58	TYR
1	C	64	TYR
1	C	179	LEU
1	C	324	LEU
1	C	339	CYS
1	C	341	PHE
1	C	342	ASN
1	C	343	ASP
1	C	344	LEU
1	C	346	GLN
1	C	347	LEU
1	C	352	GLU
1	C	411	LEU
1	C	423	PHE
1	C	450	LEU
1	C	458	VAL
1	C	465	SER
1	C	473	PHE
1	C	479	LEU
1	C	481	LEU
1	C	484	VAL
1	C	487	ASN
1	C	488	LEU

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Mol	Chain	Res	Type
1	C	490	THR
1	C	510	ASP
1	C	535	TRP
1	C	555	VAL
1	C	565	GLU
1	C	573	ILE
1	C	588	LEU
1	C	602	ASN
1	C	665	LYS
1	C	677	VAL
1	C	722	LEU
1	C	799	ILE
1	C	822	ARG
1	C	832	ASN
1	C	848	ASN
1	C	854	LYS
1	C	870	ASN
1	C	1028	ASN
1	C	1054	ILE
1	C	1055	ILE
1	C	1056	GLN
1	C	1057	ARG
1	C	1058	LEU
1	C	1059	ASP
1	C	1061	LEU
1	C	1165	ILE
1	C	1181	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (62) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	342	ASN
1	A	346	GLN
1	A	348	HIS
1	A	427	GLN
1	A	521	ASN
1	A	599	GLN
1	A	602	ASN
1	A	627	GLN
1	A	628	GLN
1	A	670	HIS
1	A	792	GLN

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Mol	Chain	Res	Type
1	A	800	GLN
1	A	812	ASN
1	A	832	ASN
1	A	839	ASN
1	A	842	GLN
1	A	848	ASN
1	A	870	ASN
1	A	1009	GLN
1	A	1023	GLN
1	A	1028	ASN
1	A	1072	ASN
1	A	1104	ASN
1	B	348	HIS
1	B	377	GLN
1	B	408	ASN
1	B	427	GLN
1	B	501	ASN
1	B	599	GLN
1	B	602	ASN
1	B	670	HIS
1	B	792	GLN
1	B	800	GLN
1	B	812	ASN
1	B	832	ASN
1	B	839	ASN
1	B	842	GLN
1	B	848	ASN
1	B	870	ASN
1	B	1009	GLN
1	B	1023	GLN
1	B	1028	ASN
1	B	1072	ASN
1	B	1104	ASN
1	C	346	GLN
1	C	436	ASN
1	C	599	GLN
1	C	602	ASN
1	C	628	GLN
1	C	792	GLN
1	C	800	GLN
1	C	812	ASN
1	C	832	ASN

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Mol	Chain	Res	Type
1	C	839	ASN
1	C	842	GLN
1	C	848	ASN
1	C	870	ASN
1	C	1009	GLN
1	C	1023	GLN
1	C	1028	ASN
1	C	1072	ASN
1	C	1104	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

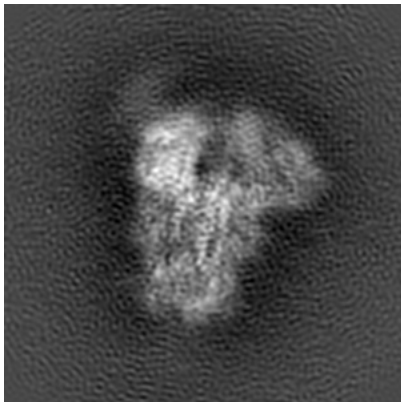
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6707. These allow visual inspection of the internal detail of the map and identification of artifacts.

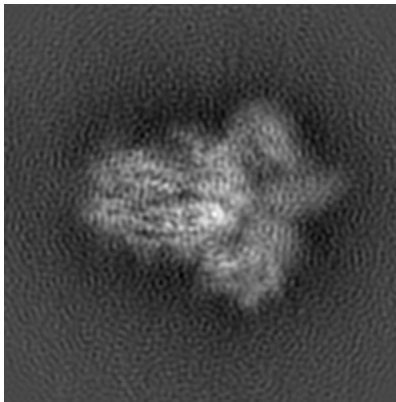
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

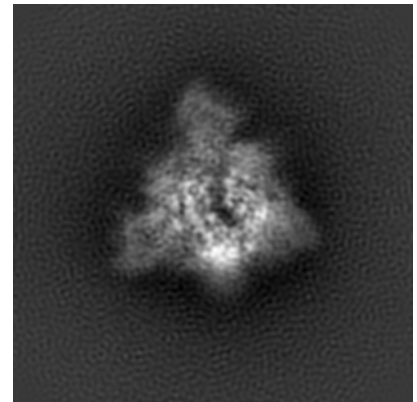
6.1.1 Primary map



X



Y

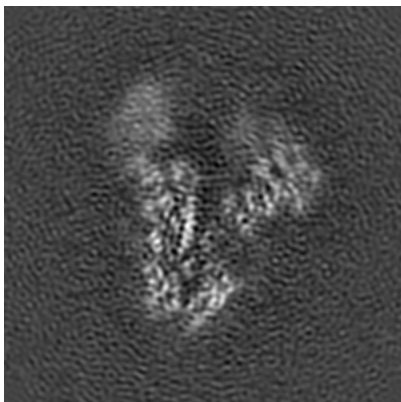


Z

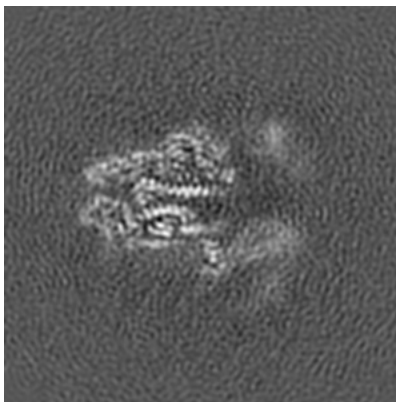
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

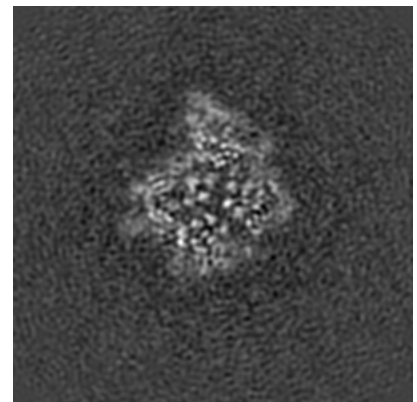
6.2.1 Primary map



X Index: 100



Y Index: 100

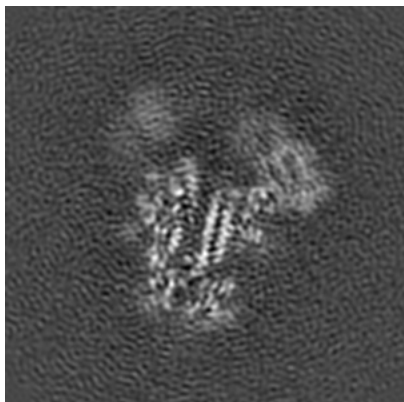


Z Index: 100

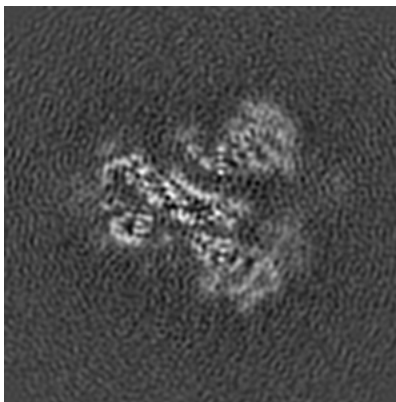
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

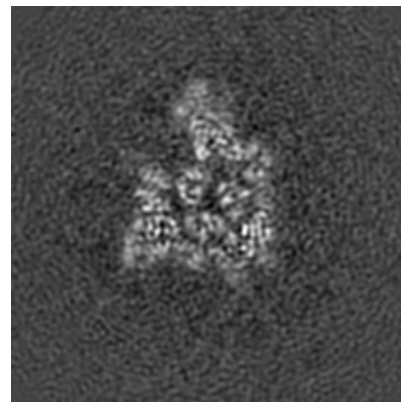
6.3.1 Primary map



X Index: 96



Y Index: 87



Z Index: 108

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0595. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

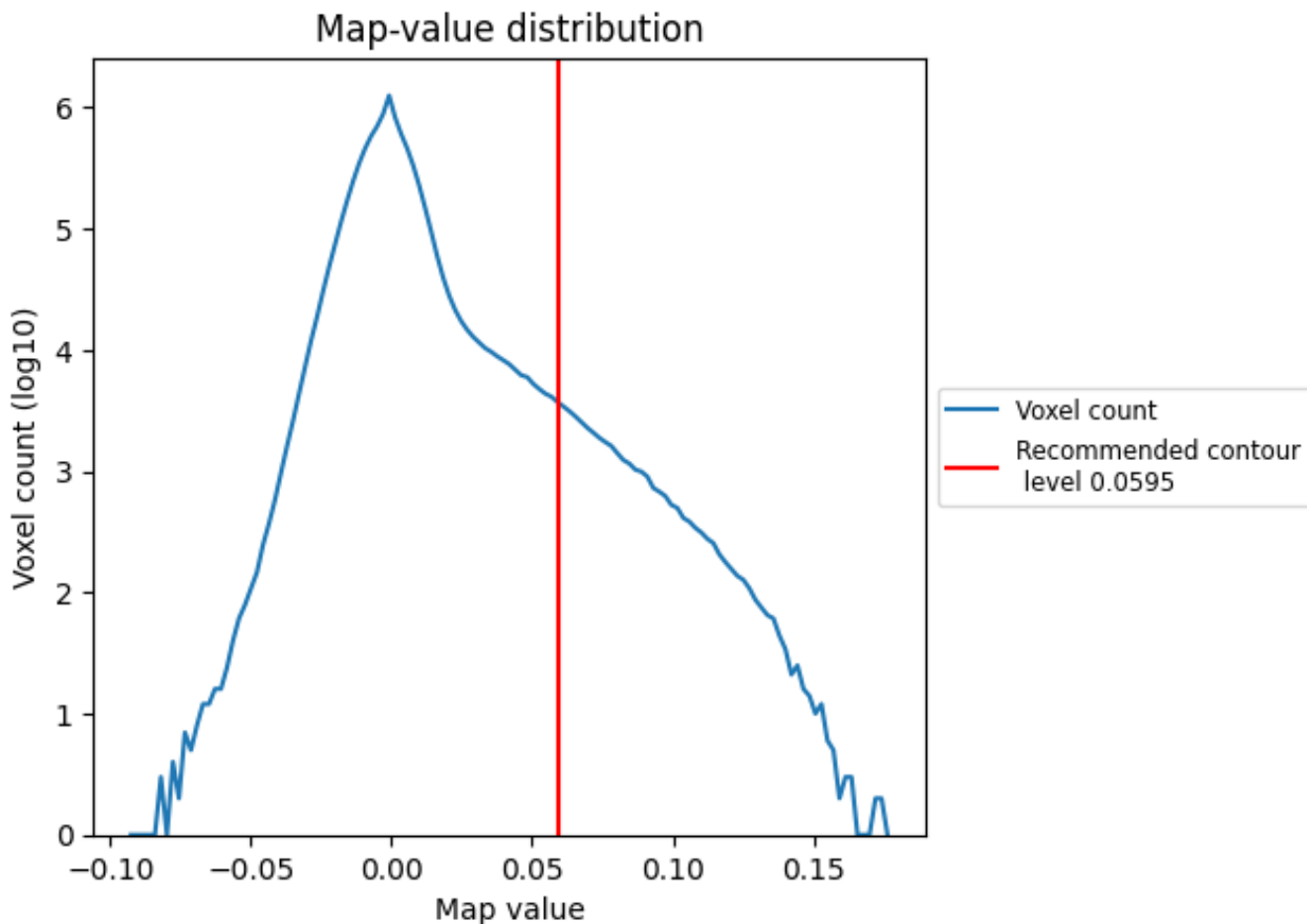
6.5 Mask visualisation

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

7 Map analysis [i](#)

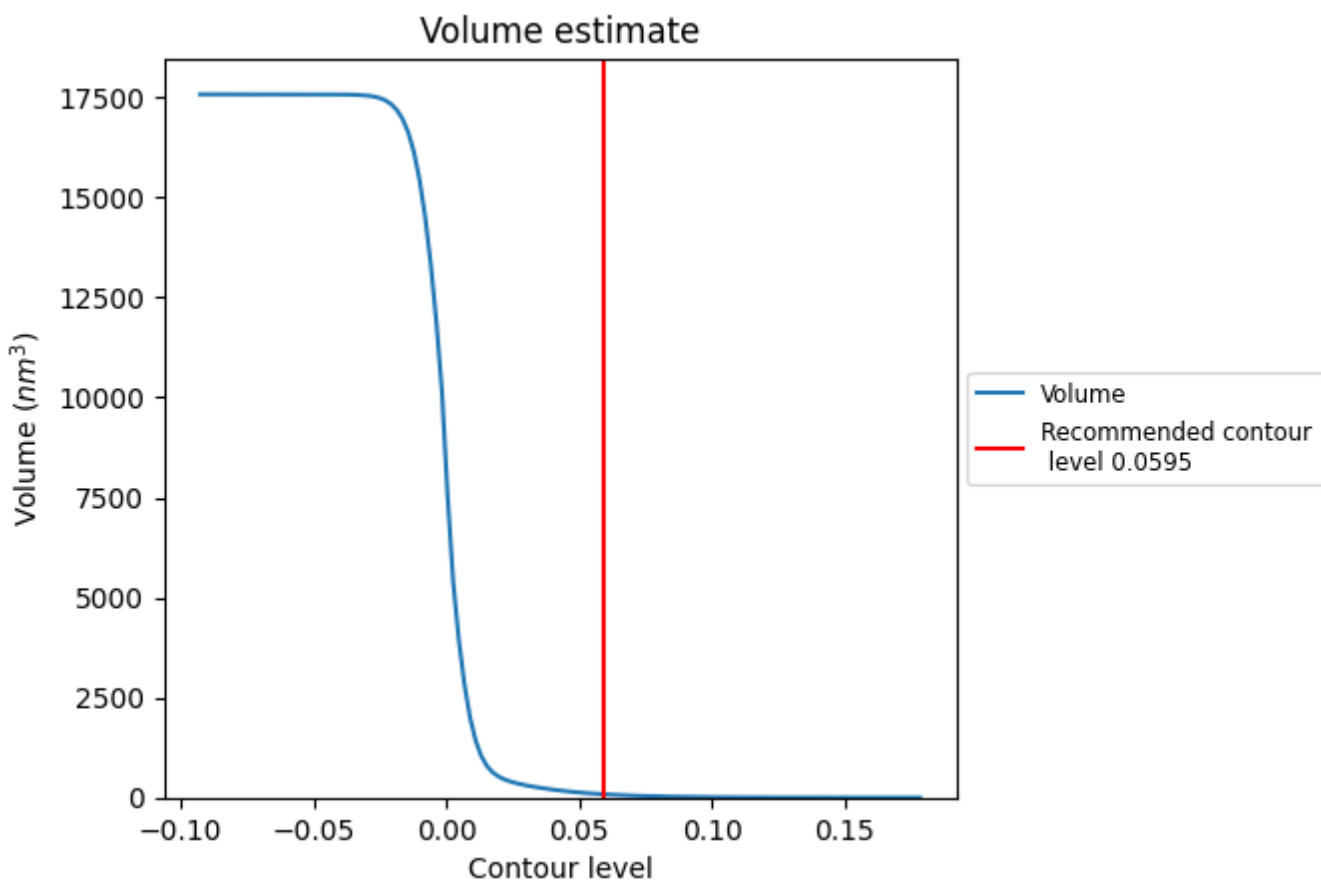
This section contains the results of statistical analysis of the map.

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.

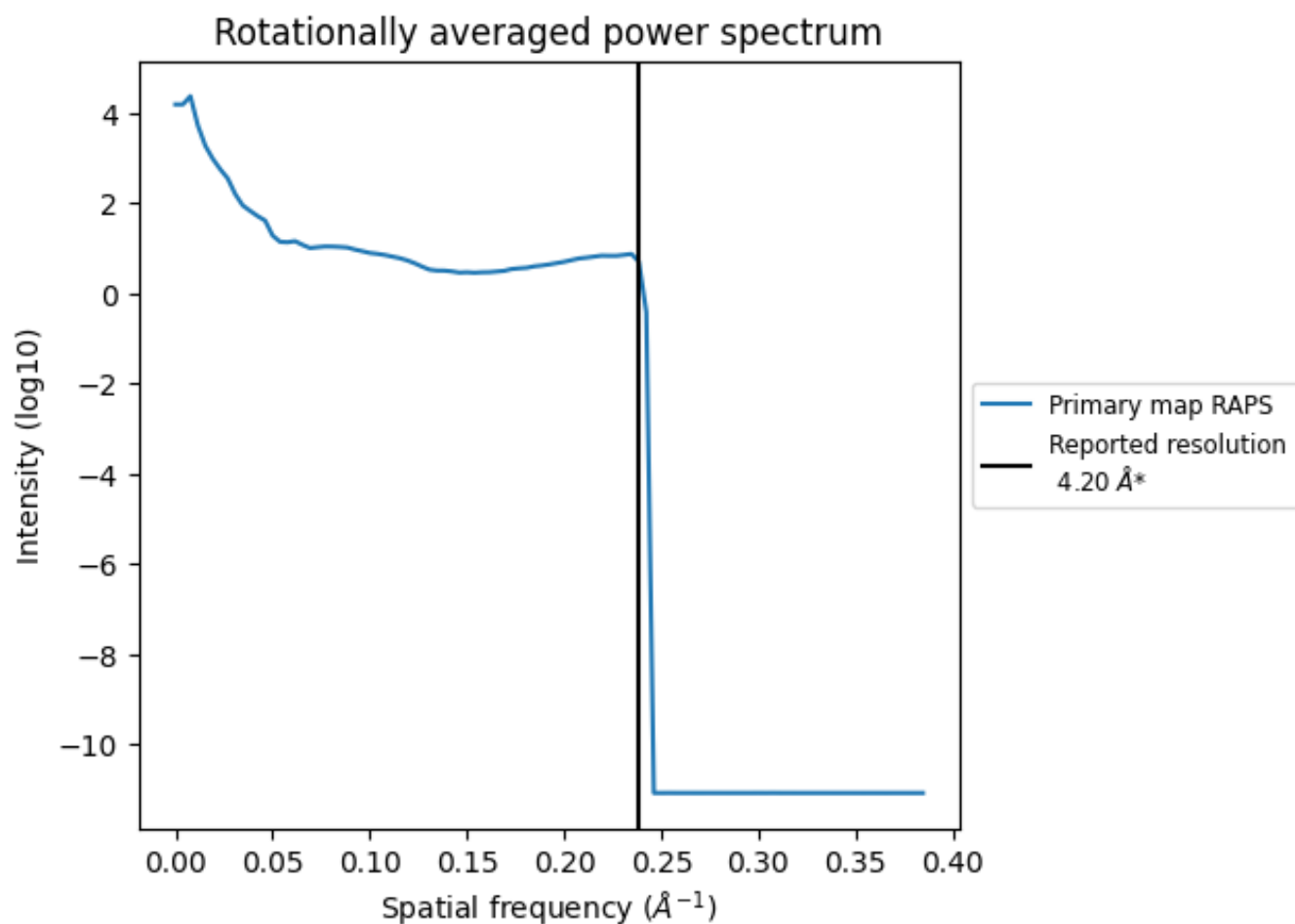
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 82 nm³; this corresponds to an approximate mass of 74 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 [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.238\AA^{-1}

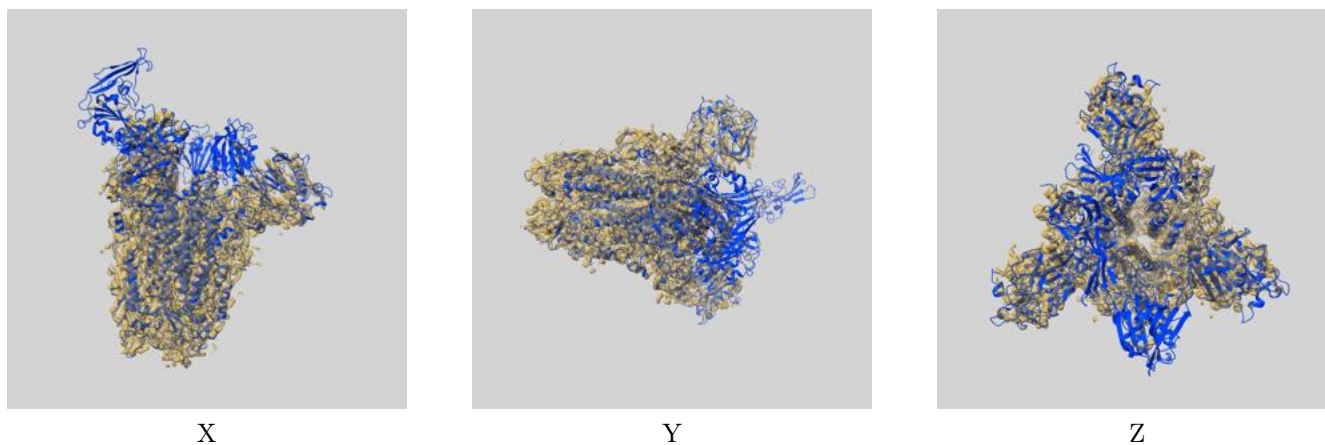
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

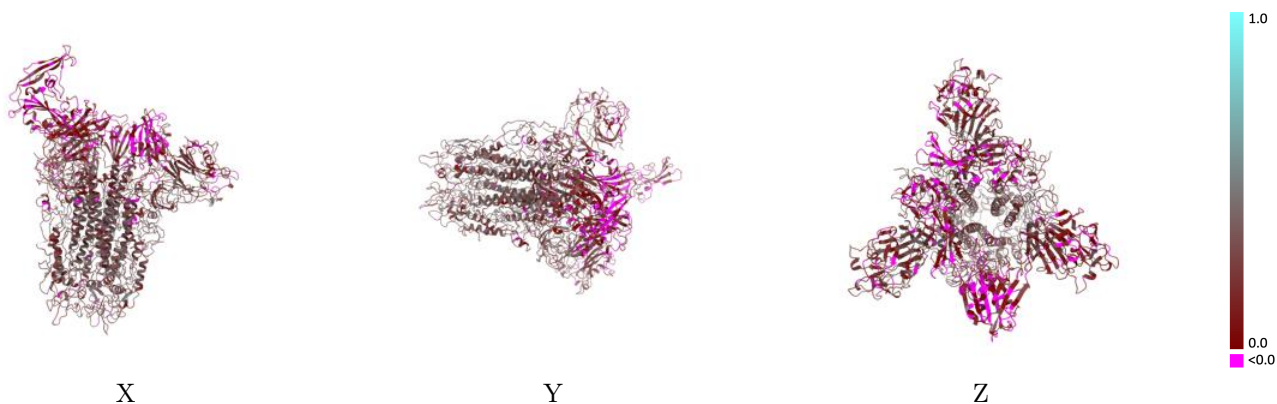
This section contains information regarding the fit between EMDB map EMD-6707 and PDB model 5X5F. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



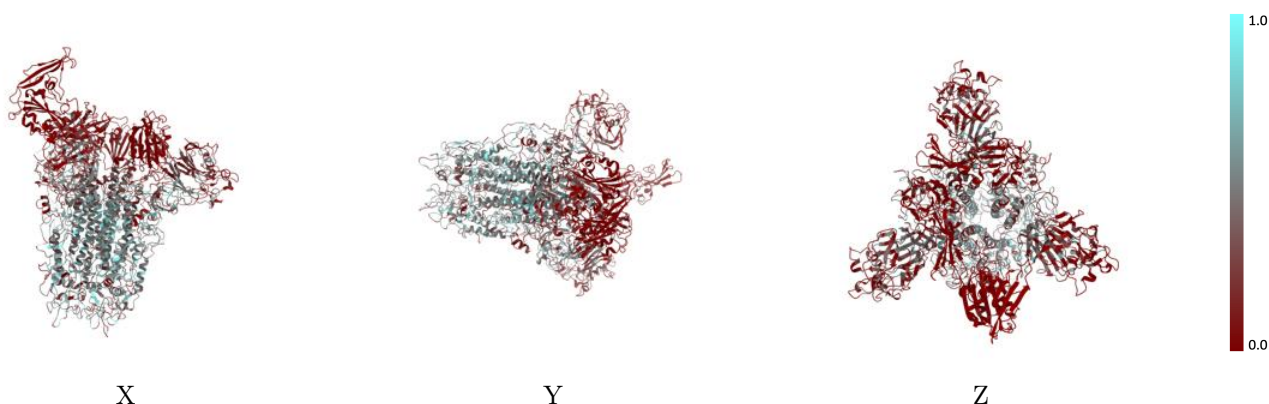
The images above show the 3D surface view of the map at the recommended contour level 0.0595 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



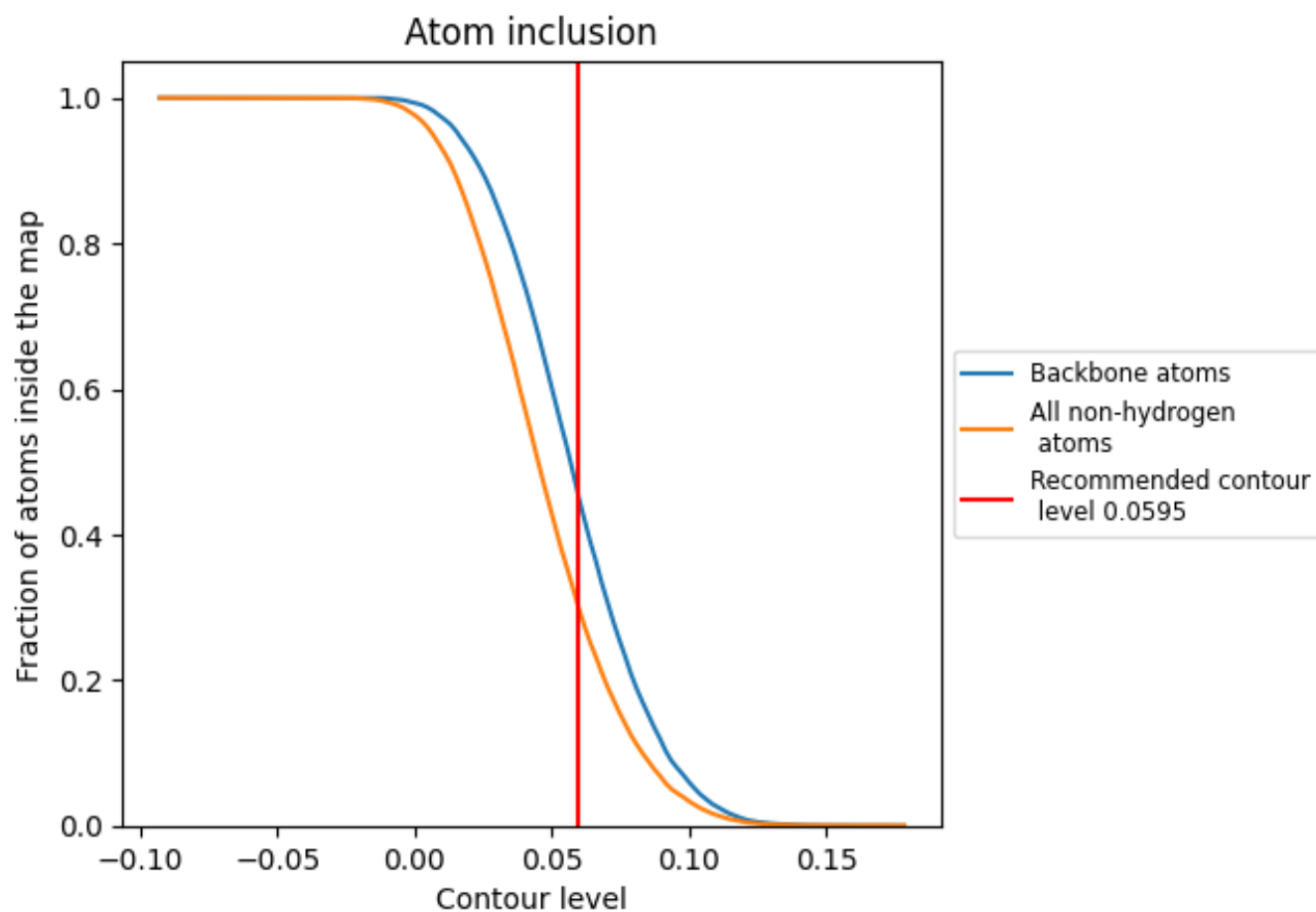
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0595).









9.4 Atom inclusion [i](#)



At the recommended contour level, 46% of all backbone atoms, 31% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.0595) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.3054	 0.2240
A	 0.2892	 0.2110
B	 0.3184	 0.2350
C	 0.3087	 0.2270

