



Full wwPDB EM Validation Report ⓘ

Mar 27, 2026 – 08:25 PM UTC

PDB ID : 7S64 / pdb_00007s64
EMDB ID : EMD-24849
Title : Intermediate-form oocyte/egg Alpha-2-Macroglobulin (A2Moo) tetramer
Authors : Arimura, Y.; Funabiki, H.
Deposited on : 2021-09-13
Resolution : 6.43 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.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

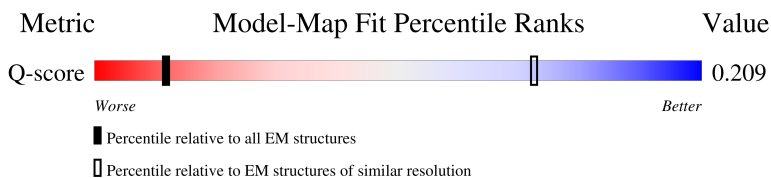
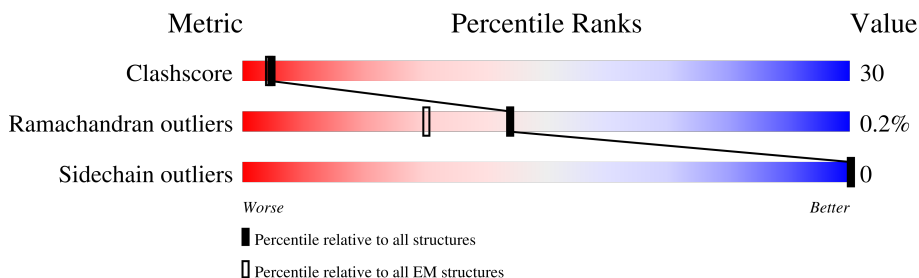
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.43 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	500 (5.94 - 6.91)

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	1441	 38% 59%
1	B	1441	 6% 51% 47%
1	C	1441	 8% 50% 49%
1	D	1441	 46% 52%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 44067 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.

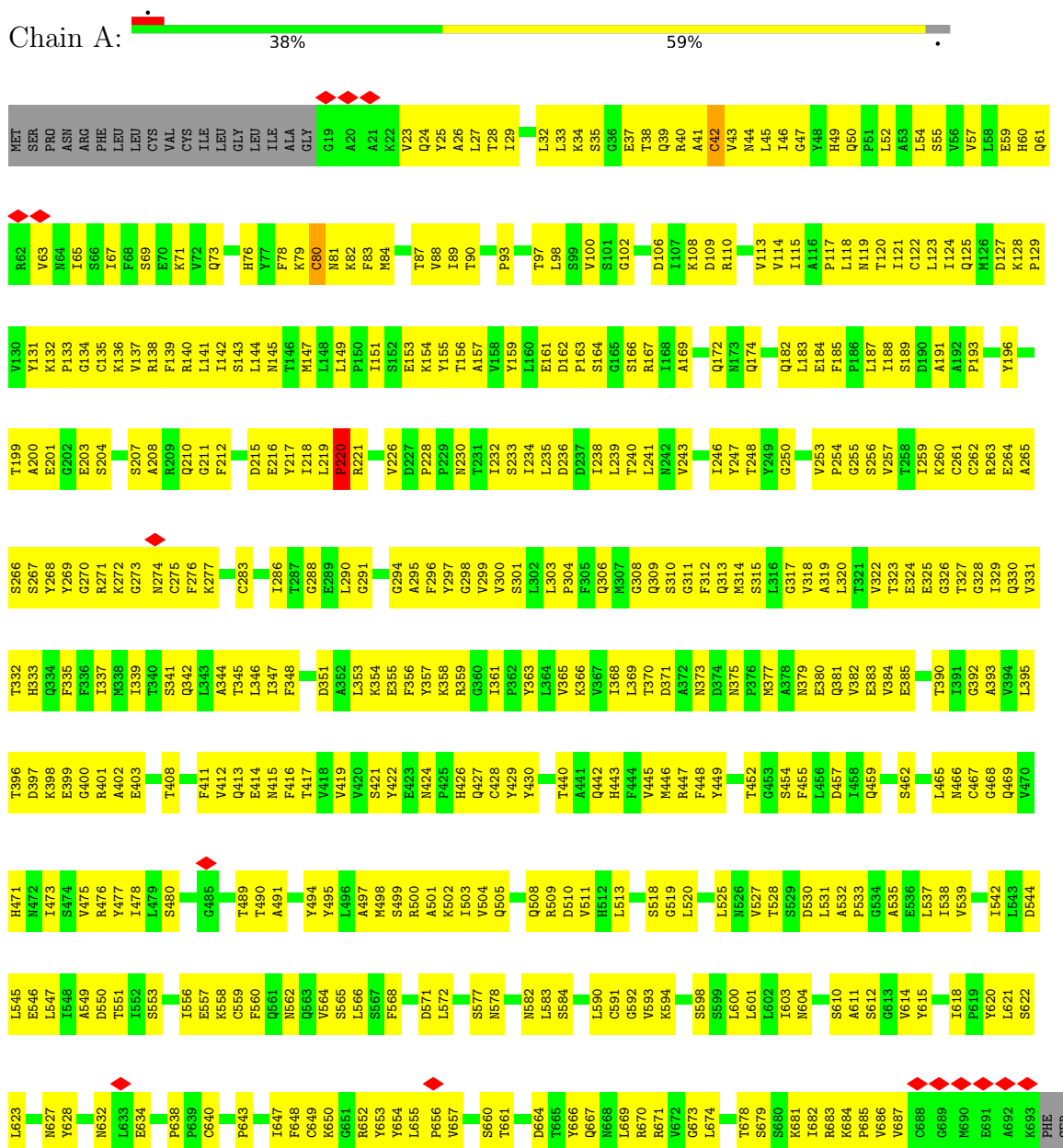
- Molecule 1 is a protein called Alpha 2-macroglobulin.

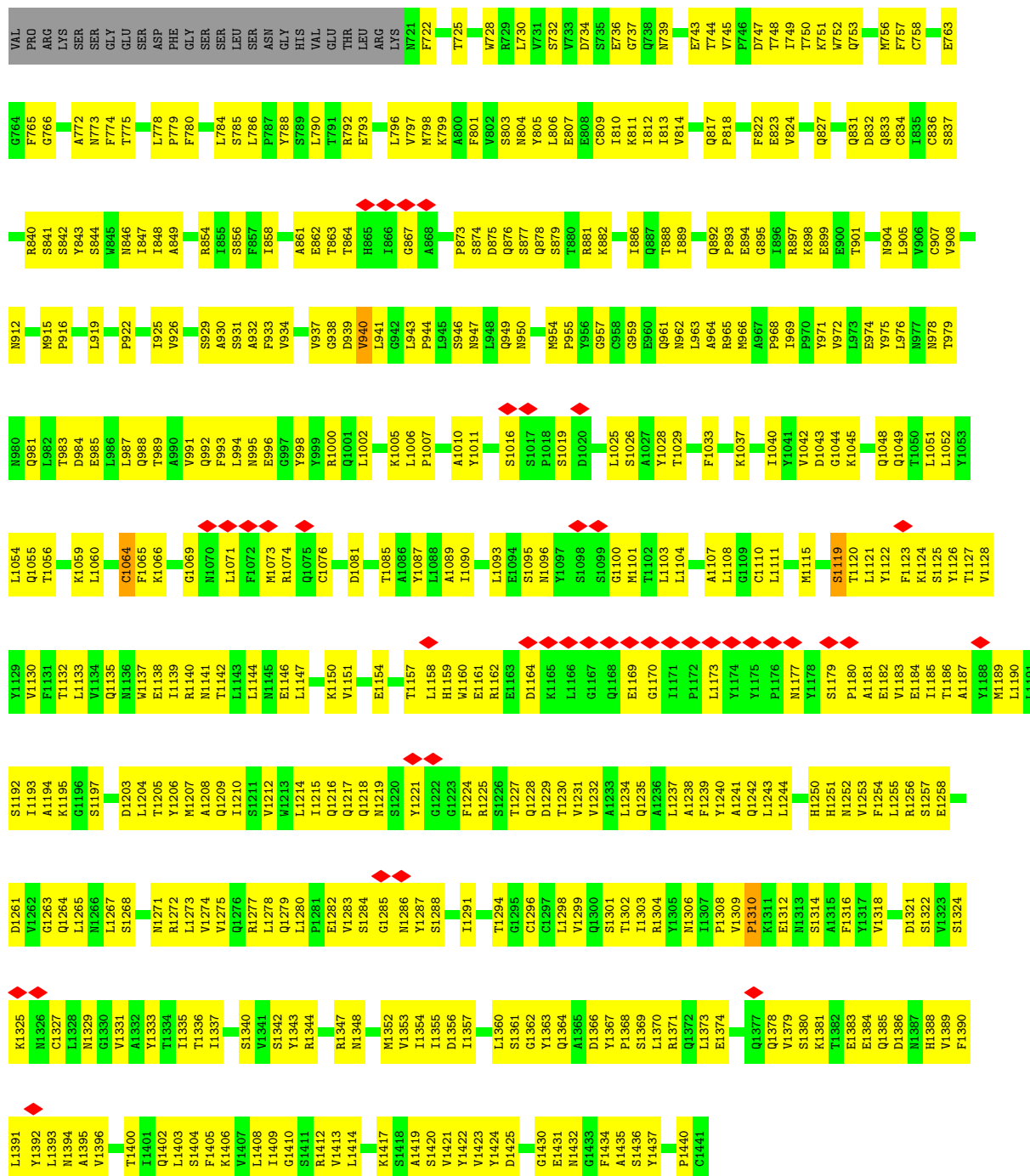
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1396	Total 10875	C 6924	N 1772	O 2124	S 55	0	0
1	B	1420	Total 11064	C 7040	N 1806	O 2163	S 55	0	0
1	C	1420	Total 11064	C 7040	N 1806	O 2163	S 55	0	0
1	D	1420	Total 11064	C 7040	N 1806	O 2163	S 55	0	0

3 Residue-property plots

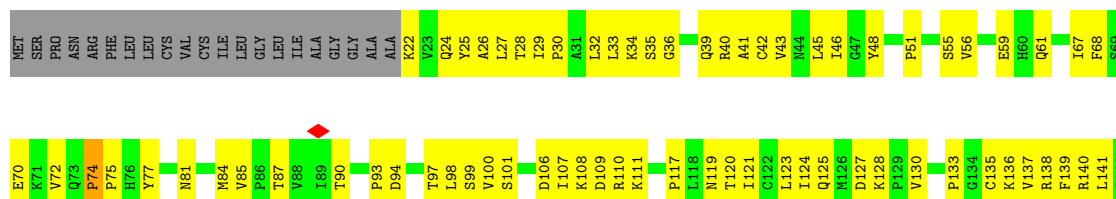
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Alpha 2-macroglobulin

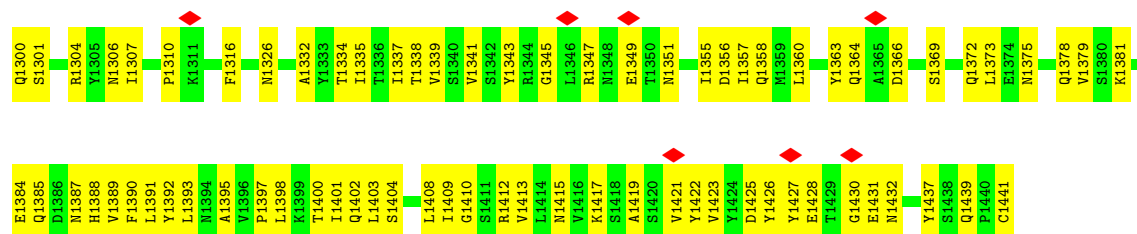




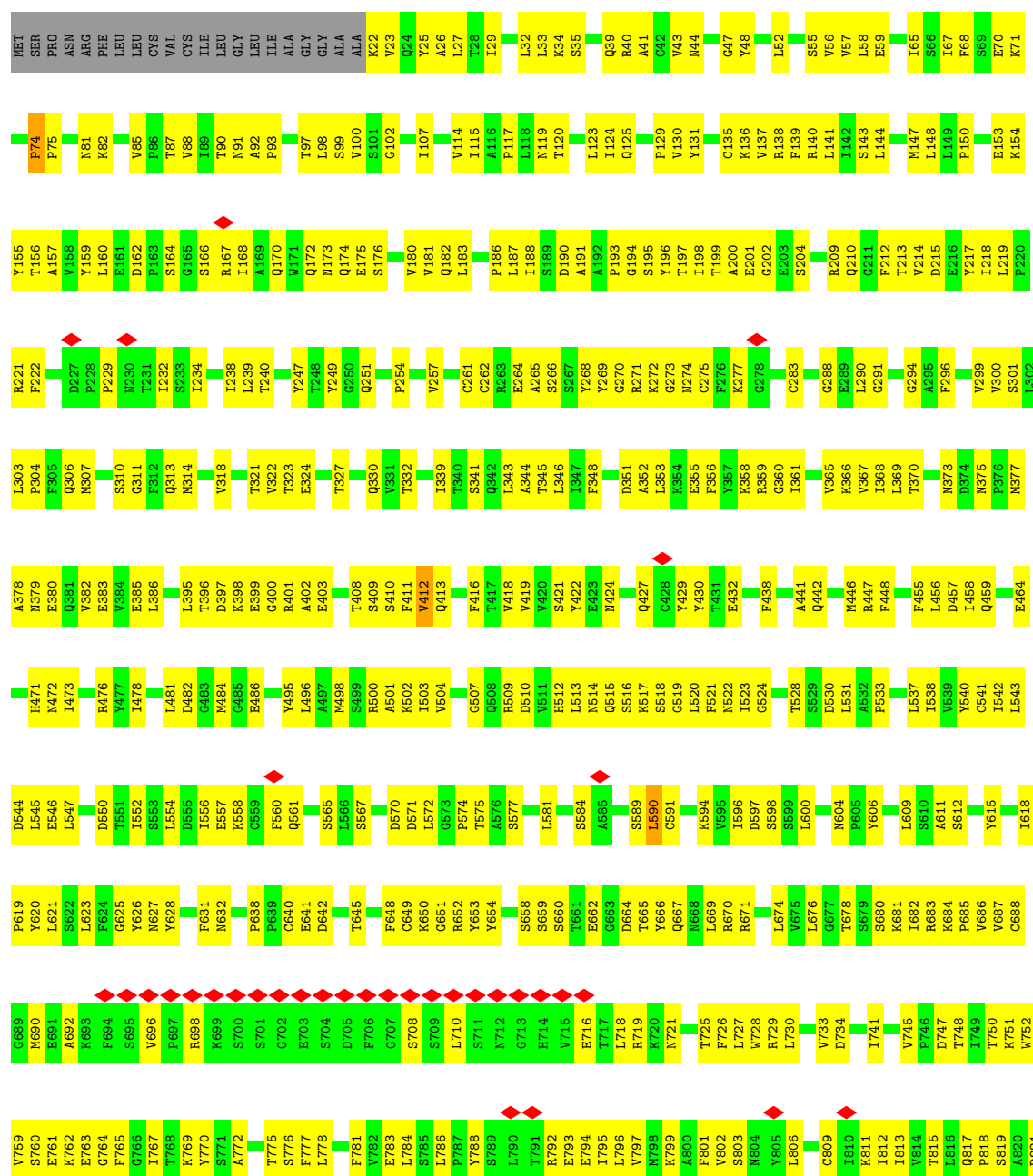
• Molecule 1: Alpha 2-macroglobulin

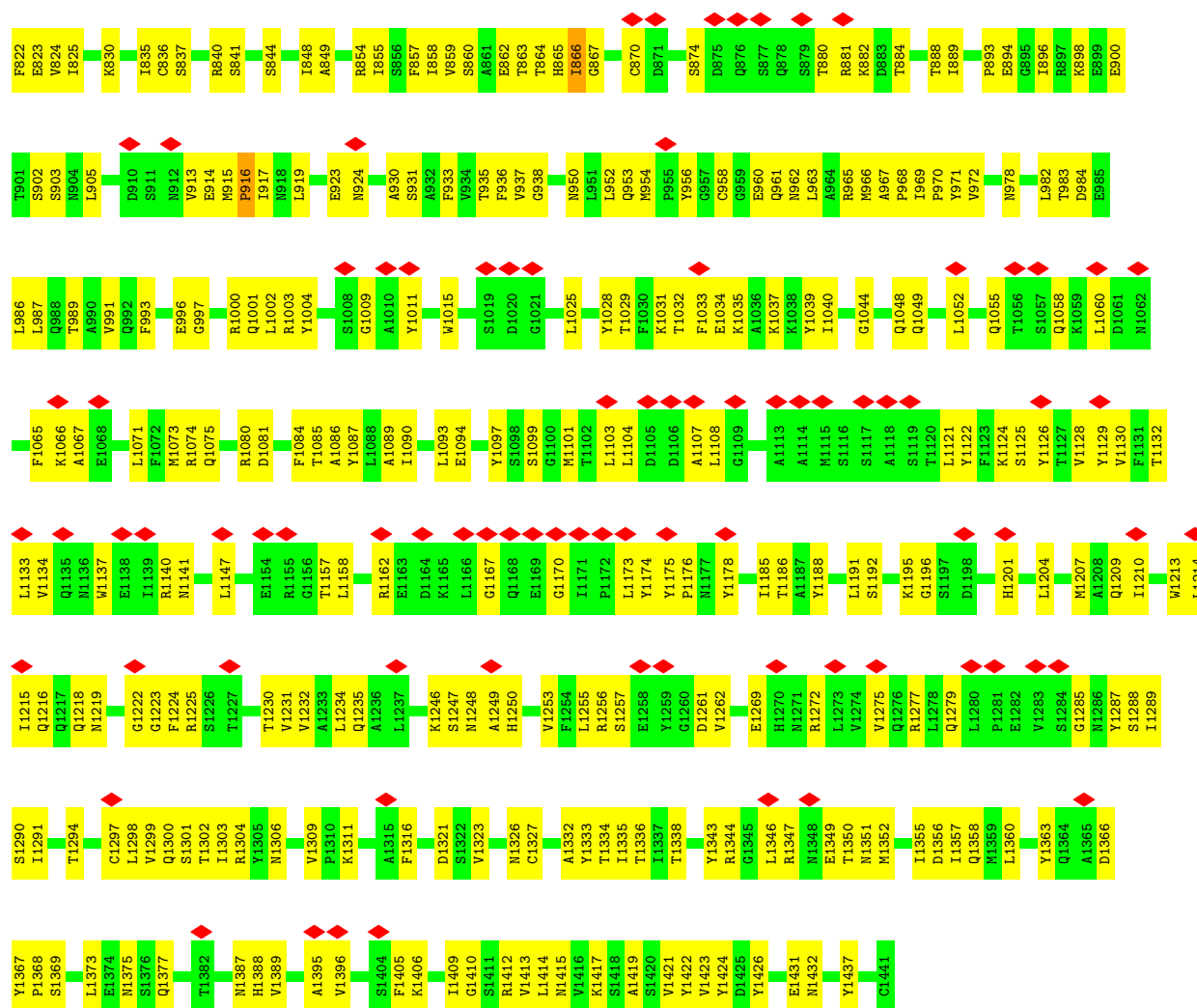


W1213	M115	S1023	F857	P779	E703	N627	C541	H471	E380	Q313	D215	S143
L1214	S1116	S1023	I858	F780	S704	Y628	I542	M472	Q381	M314	E216	M147
L1215	S1117	T1029	V859	F781	D705	F631	L543	M473	E382	S315	Y217	L148
Q1216	A1118	F1030	S860	F782	D706	N632	D544	S474	V383	L316	L218	L149
Q1217	T1119	K1031	E862	E783	G706	L633	E545	R476	V384	T321	P220	P150
Q1218	S1120	T1032	T863	L784	G707	E634	L546		E385	V322	R221	
N1219	L1121	F1033	T864	L786	S708		L547		L386	T323	F222	E153
		E1034	H865		S709	C640	I548	L479		E324	R223	K154
G1222	K1124	K1035	I866	S789	L710	V646	T551	S480	K389	E325	F224	T156
G1223			G867	L790	S711	I647	I552	M481	T390	E326	I225	Y155
F1224	V1128	T1046	A868	T791	N712	F648	S553	M482	G392	Q330	I232	A157
S1226	Y1129	Q1048	S869	R792	G713	C649	I556	M483	A393	V331	S233	V158
T1227	F1130	Q1049	D871	E793	H714	R650		G485	V394	T332	I234	Y159
	F1131	T1050		E794	W715	K651	S565	E486	L395	H333		L160
T1230	L1132	K1059	S874	I795	W716	R652	S566		T396	Q334	S244	E161
V1231	L1133	L1060	Q878	F797	T717	Y653	S567	T489	D397	F335	S245	D162
V1232	F1134	A964	Q879	M798	L718	Y654	S568	T490	K398	F336	A246	P163
		R965	L855	K799	R719	L572		T492	F399	I337	Y247	S164
Q1235	E1138	M966	L656	R799	L719	T575		Y494	G400	K338	Y248	G165
A1236	I1139		V657					Y495	A402	T340	Y249	R167
				F801	L727	D664	L581	L496	I406	Q342	G250	Q170
S1247	L1143	F1065	V885	S802	W728	T665	N582	L497	D467	L343	P251	W171
N1248	E1154	K1066	I886	S803	R729	Y666	S583	M498	T408	A344	V253	Q172
A1249	Y971	A1067	Q887	L806	V733	Q657	N584	S499	S409	L345	P254	M173
H1250	V972	E1068				L669	S589	A501	S410	T346		R174
H1251	L976					R671	P587	F411	F411	Q341	G250	E175
	L982						S589	K502	Q413	D349		L183
F1264	E985	M1073	R897	C809	W739	L674	V593	Q508	T417	D351	I259	P186
L1265	K898	Q1075	K898	I810	T740	V675	K594	R509	V418	A352	K260	P187
L1266	E899	Q1078	E899	I812	I741	L676	V595	D510	V419	K354	C262	L188
S1267	E900	E1079	E900	E813			I596	H512	V511	E355	R263	S189
E1268	T901	Q1080	T901	W745	V745	G677	I596	H512	H511	E355	E264	D190
Y1269	S802	R1081	S802	T746	T746	T678	I597	L513	D597	F356	A265	A191
	S903		S903	D747	D747	S679	S680	L514	E423	Y357	S267	A192
	N904		N904	T748	T748	S680	S598	M514	M424	K388	S267	A192
	L905		L905	I749	I749	K681	S599	Q515	P425	R359	Y268	P193
				T750	T750	I682	S516	S516	Y430	G360		Y196
				K751	K751	R683	L601	K517		I361	R271	T197
	D910		D910	W752	W752	K684	P685			P362	C275	I198
				Q753	Q753	P685	P605	F521	F444	Y363	C275	T199
	E914		E914	M756	M756	V686	Y606	N522	V445	L364	F276	E201
	M915		M915	F757	F757	V687	E607	L525	M446	V365	K277	A200
	P916		P916	Q758	Q758	C688	S608	N526	R447	K366		E203
	E923		E923	V759	V759	G689	L609		F448	V367	C283	E204
	N924		N924	S760	S760	M690	S610	D530	Y449	I368	N285	S204
				E761	E761	E691	A611	L531	S450	T370	I286	C266
	S929		S929					A532		D371	T287	E206
	A930		A930	G764	G764	F694	I618	P533	G453	A372		E207
	S931		S931	F765	F765	S695	P619	P533	S454	A373	L302	A208
	A932		A932	G766	G766	V696	Y620	G534	F455	D374	Q207	R209
	F933		F933	I767	I767	V697	L621	A535	D457	K375	M307	Q210
	V934		V934			R698	L623	E536	I458	F376	G368	G211
	T935		T935	A772	A772	K699	P624	L537	Q459	M377	Q309	F212
	V937		V937	N773	N773	G625	V539	F538		A378		T213
	G938		G938	T775	T775	S700					F312	V214
	D939		D939	S776	S776	S701						
				F777	F777	G702						
				L778	L778							



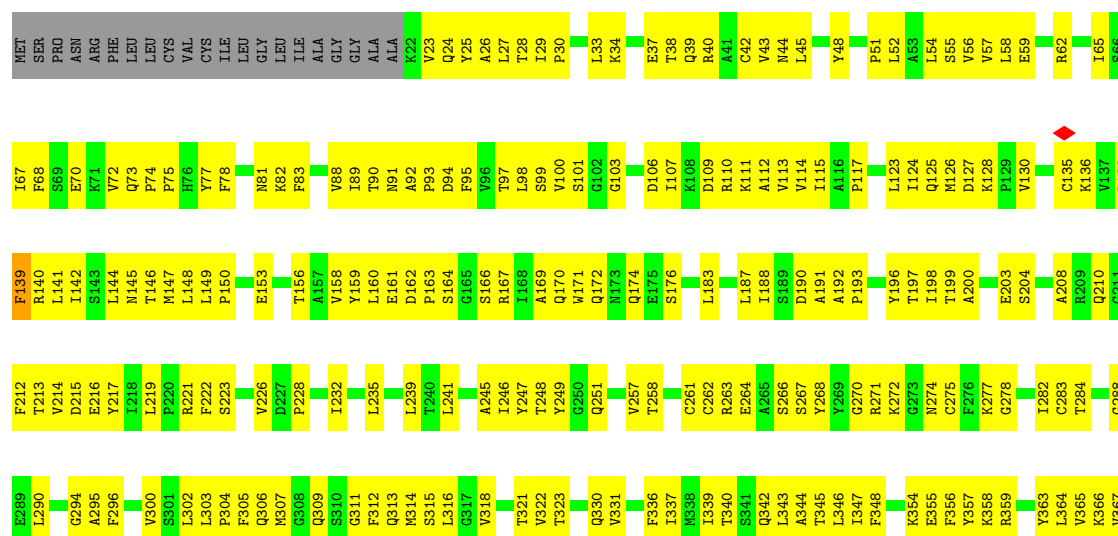
• Molecule 1: Alpha 2-macroglobulin





• Molecule 1: Alpha 2-macroglobulin

Chain D: 46% 52%



K1399	F1316	S1226	I1139	Y1053	D984	V913	S842	V759	P685	L609	G534	R447	I368
T1400	F1317	D1229	R1140	L1054	E985	E914	W845	S760	C688	S610	A535	E451	L369
I1401	M1141	Y1232	M1142	Q1055	T989	I917	N846	E761	G689	A611	E536	T452	T370
L1403	L1143	Y1235	L1144	Q1058	A990	N918	I847	K762	M690	G612	L537	G453	D371
M1326	Y1152	Q1236	V1152	D1061	Q992	L919	A849	E764	S484	V614	V539	F455	N373
A1332	S1153	A1236	S1153	C1064	F993	E923	L852	F765	A692	G615	Y540	L456	D374
Y1333	C1064	F1065	C1064	F1065	N994	N924	S856	A772	K693	Y616	C541	D457	N375
I1335	F1065	K1066	F1065	K1066	N995	I925	F857	N773	F694	L618	L543	M377	P376
H1250	A1067	A1067	A1067	A1067	E996	V926	T858	T775	V696	L623	L545	S461	A378
H1251	E1068	E1068	E1068	E1068	G997	Y998	V859	T776	P697	D544	E546	V462	N379
E1161	Y1068	Y1068	Y1068	Y1068	Y998	A930	I858	T777	R698	Y626	L547	E464	E380
R1162	K1165	L1166	K1165	L1166	R1000	S931	S860	F778	K699	N627	A549	L465	Q381
K1165	L1166	F1072	L1166	F1072	R1002	A932	E861	F779	S700	Y628	D550	N466	V382
L1166	F1072	M1073	L1166	M1073	V934	F933	E862	F780	S701	F631	T551	C467	V384
G1167	G1167	R1074	G1167	R1074	R1003	F781	T863	F781	S702	N632	I552	E385	E385
Q1168	Q1168	Q1075	Q1168	Q1075	Y1004	E782	H865	E783	G702	C640	L554	V470	L386
E1169	E1169	R1080	E1169	R1080	K1005	L784	I866	L784	E703	E641	D555	H471	T390
G1170	G1170	I1171	G1170	I1171	G1009	S785	A868	S785	S704	F647	I556	R476	I391
I1171	I1171	F1084	I1171	F1084	D1010	L941	G867	S786	D705	F648	E557	I478	G392
L1173	L1173	T1085	L1173	T1085	D1012	L943	S869	L786	G706	C649	Q561	I479	A393
Y1174	Y1174	A1086	Y1174	A1086	F1014	N947	G872	S789	S708	K650	V564	G483	K398
Y1175	Y1175	Y1087	Y1175	Y1087	F1014	N947	P873	L790	S709	G651	S565	M484	E399
A1181	A1181	I1090	A1181	I1090	W1015	Q949	S874	E794	L710	R652	L566	G400	C400
E1182	E1182	A1091	E1182	A1091	S1016	N950	S877	E795	S711	Y654	S567	T489	R401
I1185	I1185	L1092	I1185	L1092	G1021	L951	Q878	L796	N712	P656	F568	T482	A402
L1190	L1190	S1099	L1190	S1099	S1022	L952	S879	E797	G713	G657	L572	F493	E403
L1191	L1191	M1101	L1191	M1101	W1024	M954	T880	M798	G713	P574	G573	Y494	S410
S1192	S1192	T1102	S1192	T1102	L1025	P955	K881	K799	H714	S659	P574	Y495	V412
I1193	I1193	L1104	I1193	L1104	Y1028	Y956	K882	A800	H715	F801	T575	L496	F411
G1196	G1196	L1103	G1196	L1103	C958	Q957	D883	F801	E716	E662	A576	S489	V412
S1197	S1197	F1030	S1197	F1030	Q959	I886	V885	S803	L718	G663	S577	R500	F416
D1198	D1198	T1032	D1198	T1032	E960	Q961	Q887	E807	R719	D664	L581	A501	T417
P1199	P1199	F1033	P1199	F1033	N962	L963	T888	E808	K720	Y666	S584	K502	V418
T1200	T1200	E1034	T1200	E1034	A964	R665	I889	K811	T725	N668	P587	I503	V419
H1201	H1201	K1035	H1201	K1035	R665	M966	E894	I812	F726	L669	G588	V504	W420
D1202	D1202	A1036	D1202	A1036	K1037	K1037	G895	I813	L727	R670	S589	S421	S421
D1203	D1203	K1037	D1203	K1037	K1038	M966	I896	I814	W728	R671	E423	Y422	Y422
L1204	L1204	Y1039	L1204	Y1039	I038	T969	R897	T815	R729	V672	L590	N424	N424
M1207	M1207	Y1040	M1207	Y1040	Y1041	Y970	K898	S732	S732	G673	V593	Q427	Q427
V1212	V1212	Y1128	V1212	Y1128	Y1041	Y971	E899	S819	V733	L674	K594	I823	Y430
W1213	W1213	Y1130	W1213	Y1130	L973	Y971	E900	F822	E736	V675	V595	G524	T431
L1214	L1214	F1131	L1214	F1131	E974	Y975	T901	E823	T678	L676	I596	L525	E432
I1215	I1215	T1132	I1215	T1132	L976	L976	S902	V824	S679	G677	D597	T528	Q442
Q1216	Q1216	L1133	Q1216	L1133	Q1048	N904	S903	E828	S599	S679	S598	S629	H443
G1217	G1217	V1134	G1217	V1134	Q1049	Q1049	L905	V829	S680	K681	L600	D550	H443
N1136	N1136	Q1135	N1136	Q1135	T1050	N980	V908	R840	I741	L601	L601	L531	F444
W1137	W1137	E1138	W1137	E1138	L1051	Q981	S911	S841	T749	R682	L602	A532	V445
G1222	G1222		G1222		L1052		N912		K750	K684		P533	M446
									K751				
									Q753				
									G754				
									S755				
									M756				
									F757				
									C758				

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	11170	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	33.11, 38.34, 35.27, 34.2	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k), GATAN K2 SUMMIT (4k x 4k), GATAN K2 SUMMIT (4k x 4k), GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	20.991	Depositor
Minimum map value	-11.364	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	4	Depositor
Map size (Å)	384.0, 384.0, 384.0	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.5, 1.5, 1.5	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.24	0/11104	0.52	5/15099 (0.0%)
1	B	0.20	0/11298	0.45	2/15359 (0.0%)
1	C	0.23	1/11298 (0.0%)	0.50	4/15359 (0.0%)
1	D	0.24	1/11298 (0.0%)	0.50	0/15359
All	All	0.23	2/44998 (0.0%)	0.49	11/61176 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	2
All	All	0	5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	916	PRO	CG-CD	-8.83	1.20	1.50
1	D	654	TYR	C-N	5.12	1.40	1.33

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	916	PRO	N-CD-CG	-11.71	85.63	103.20
1	C	916	PRO	CA-N-CD	-10.16	97.78	112.00
1	A	80	CYS	CA-CB-SG	8.51	133.97	114.40
1	A	42	CYS	N-CA-C	7.56	119.89	107.73
1	A	42	CYS	CA-CB-SG	7.42	131.47	114.40
1	A	1310	PRO	CA-N-CD	-6.71	102.61	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	412	VAL	N-CA-C	-6.64	106.32	112.43
1	B	654	TYR	CA-C-N	6.07	137.19	122.31
1	B	654	TYR	C-N-CA	6.07	137.19	122.31
1	C	916	PRO	CA-CB-CG	-6.02	93.06	104.50
1	A	80	CYS	N-CA-C	5.54	115.70	107.88

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	220	PRO	Peptide
1	B	757	PHE	Peptide
1	C	590	LEU	Peptide
1	D	139	PHE	Peptide
1	D	652	ARG	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10875	0	10684	801	0
1	B	11064	0	10871	571	0
1	C	11064	0	10871	598	0
1	D	11064	0	10871	709	0
All	All	44067	0	43297	2634	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 30.

All (2634) 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:358:LYS:HE3	1:C:448:PHE:HB3	1.40	1.03
1:A:23:VAL:HA	1:A:46:ILE:O	1.62	0.98
1:D:381:GLN:HE21	1:D:393:ALA:HA	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:356:PHE:HA	1:D:446:MET:O	1.67	0.93
1:A:1251:HIS:HB3	1:A:1267:LEU:HB3	1.48	0.93
1:A:366:LYS:HA	1:A:402:ALA:O	1.71	0.91
1:C:421:SER:HB2	1:C:438:PHE:HE2	1.35	0.91
1:D:966:MET:HE2	1:D:997:GLY:HA3	1.53	0.90
1:B:652:ARG:HD3	1:B:653:TYR:H	1.36	0.88
1:A:359:ARG:NH1	1:A:411:PHE:O	2.07	0.88
1:D:589:SER:H	1:D:733:VAL:HB	1.37	0.87
1:B:566:LEU:HB2	1:B:756:MET:HE1	1.58	0.85
1:C:1157:THR:HB	1:C:1213:TRP:HB2	1.58	0.85
1:D:309:GLN:HG3	1:D:311:GLY:H	1.40	0.85
1:C:792:ARG:HD2	1:C:893:PRO:HA	1.59	0.85
1:D:649:CYS:H	1:D:654:TYR:HE2	1.25	0.84
1:D:684:LYS:HD2	1:D:685:PRO:HD2	1.59	0.84
1:A:750:THR:HG22	1:A:751:LYS:H	1.42	0.84
1:A:793:GLU:HG2	1:A:894:GLU:HG2	1.58	0.84
1:A:1360:LEU:HD11	1:A:1417:LYS:HB2	1.59	0.83
1:B:1157:THR:HB	1:B:1213:TRP:HB2	1.60	0.83
1:B:500:ARG:HB2	1:B:621:LEU:HG	1.59	0.83
1:A:120:THR:HG22	1:A:145:ASN:HB2	1.61	0.82
1:D:944:PRO:HA	1:D:947:ASN:HB2	1.59	0.82
1:A:591:CYS:HB2	1:A:758:CYS:HA	1.61	0.82
1:D:905:LEU:HG	1:D:1215:ILE:HG21	1.61	0.82
1:A:272:LYS:N	1:C:430:TYR:O	2.12	0.82
1:A:912:ASN:HA	1:A:1291:ILE:O	1.79	0.82
1:C:681:LYS:NZ	1:C:683:ARG:O	2.13	0.81
1:C:148:LEU:HG	1:C:764:GLY:HA3	1.59	0.81
1:D:1162:ARG:HG2	1:D:1182:GLU:HG2	1.62	0.81
1:C:667:GLN:HG3	1:C:670:ARG:HH22	1.44	0.81
1:B:649:CYS:H	1:B:654:TYR:HE2	1.27	0.80
1:B:498:MET:HB3	1:B:536:GLU:HG2	1.63	0.80
1:B:958:CYS:HB2	1:B:1013:ALA:HB1	1.63	0.80
1:A:246:ILE:HD12	1:A:250:GLY:HA2	1.64	0.79
1:B:1073:MET:HE1	1:B:1080:ARG:HA	1.64	0.79
1:C:865:HIS:HE2	1:C:874:SER:HG	1.24	0.79
1:A:39:GLN:O	1:A:82:LYS:HA	1.83	0.79
1:B:1262:VAL:HG21	1:B:1287:TYR:HE1	1.48	0.79
1:B:1360:LEU:HD13	1:B:1419:ALA:HB2	1.62	0.79
1:A:1243:LEU:HD12	1:A:1244:LEU:HG	1.63	0.79
1:D:1157:THR:HB	1:D:1213:TRP:HB2	1.63	0.79
1:A:397:ASP:HB2	1:A:401:ARG:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:596:ILE:HD11	1:B:600:LEU:HD22	1.62	0.79
1:C:751:LYS:HB3	1:C:753:GLN:HE22	1.46	0.79
1:D:533:PRO:HA	1:D:556:ILE:HB	1.64	0.78
1:A:878:GLN:HG3	1:A:879:SER:H	1.48	0.78
1:C:269:TYR:HB2	1:C:273:GLY:HA3	1.66	0.78
1:D:863:THR:HG21	1:D:881:ARG:HB2	1.65	0.78
1:C:935:THR:HB	1:C:1300:GLN:HB2	1.66	0.77
1:A:368:ILE:HG12	1:A:401:ARG:HH22	1.49	0.77
1:A:535:ALA:O	1:A:553:SER:HA	1.85	0.77
1:B:581:LEU:O	1:B:740:THR:HA	1.84	0.77
1:C:264:GLU:OE1	1:C:313:GLN:NE2	2.17	0.77
1:C:1363:TYR:HA	1:C:1410:GLY:H	1.49	0.77
1:A:357:TYR:N	1:A:446:MET:O	2.17	0.77
1:A:648:PHE:HD2	1:A:655:LEU:H	1.32	0.77
1:A:325:GLU:OE1	1:A:840:ARG:NH2	2.18	0.77
1:C:962:ASN:HD21	1:C:1000:ARG:HG3	1.50	0.77
1:A:810:ILE:HG23	1:A:874:SER:HB2	1.65	0.77
1:A:26:ALA:O	1:A:43:VAL:HA	1.85	0.77
1:B:356:PHE:HA	1:B:446:MET:O	1.84	0.77
1:D:1074:ARG:HD2	1:D:1351:ASN:HA	1.65	0.77
1:C:193:PRO:HB3	1:C:215:ASP:HA	1.66	0.76
1:B:817:GLN:NE2	1:B:860:SER:OG	2.18	0.76
1:B:863:THR:HG21	1:B:881:ARG:HB2	1.67	0.76
1:B:1251:HIS:HB3	1:B:1291:ILE:HD11	1.65	0.76
1:C:290:LEU:HD12	1:C:294:GLY:HA2	1.66	0.76
1:A:24:GLN:NE2	1:A:678:THR:OG1	2.15	0.76
1:A:52:LEU:HG	1:A:102:GLY:HA3	1.64	0.76
1:A:357:TYR:HD1	1:A:445:VAL:HG23	1.51	0.76
1:B:172:GLN:O	1:B:174:GLN:NE2	2.17	0.76
1:D:784:LEU:HD11	1:D:798:MET:HE2	1.66	0.76
1:A:100:VAL:O	1:A:106:ASP:HA	1.86	0.76
1:A:893:PRO:HB2	1:A:1306:ASN:HD22	1.51	0.76
1:B:159:TYR:HB3	1:B:170:GLN:HG3	1.68	0.76
1:B:413:GLN:O	1:B:447:ARG:NH2	2.19	0.76
1:C:589:SER:H	1:C:733:VAL:HB	1.51	0.76
1:A:566:LEU:HB2	1:A:583:LEU:HD12	1.67	0.75
1:D:564:VAL:HB	1:D:756:MET:HE3	1.67	0.75
1:D:1251:HIS:HB3	1:D:1291:ILE:HD11	1.68	0.75
1:D:346:LEU:HA	1:D:368:ILE:O	1.87	0.75
1:D:365:VAL:O	1:D:403:GLU:HA	1.87	0.75
1:A:273:GLY:N	1:C:430:TYR:O	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:359:ARG:NH1	1:C:411:PHE:O	2.19	0.75
1:D:271:ARG:H	1:D:275:CYS:HA	1.50	0.75
1:D:652:ARG:NH1	1:D:653:TYR:O	2.20	0.75
1:D:1213:TRP:HE3	1:D:1214:LEU:HD22	1.52	0.75
1:A:583:LEU:O	1:A:737:GLY:HA3	1.87	0.74
1:C:759:VAL:HA	1:C:765:PHE:HB3	1.67	0.74
1:B:1219:ASN:ND2	1:B:1223:GLY:O	2.20	0.74
1:B:386:LEU:HA	1:B:418:VAL:HG23	1.68	0.74
1:B:124:ILE:HD11	1:B:208:ALA:HB1	1.68	0.74
1:D:73:GLN:H	1:D:77:TYR:HE2	1.36	0.74
1:D:159:TYR:HB3	1:D:170:GLN:HG3	1.69	0.74
1:D:566:LEU:HB2	1:D:756:MET:HE2	1.69	0.74
1:C:716:GLU:OE1	1:C:719:ARG:NH2	2.20	0.74
1:D:162:ASP:OD1	1:D:166:SER:N	2.20	0.74
1:D:373:ASN:OD1	1:D:375:ASN:ND2	2.20	0.74
1:D:610:SER:O	1:D:614:VAL:N	2.20	0.74
1:D:1090:ILE:HD12	1:D:1129:TYR:HD2	1.52	0.74
1:C:1065:PHE:HB2	1:C:1085:THR:HG22	1.69	0.74
1:D:496:LEU:HD11	1:D:503:ILE:HG23	1.70	0.74
1:A:38:THR:HA	1:A:83:PHE:O	1.88	0.74
1:A:547:LEU:H	1:A:682:ILE:HD13	1.51	0.74
1:A:1185:ILE:HG22	1:A:1189:MET:HE2	1.68	0.74
1:A:172:GLN:O	1:A:174:GLN:NE2	2.21	0.74
1:D:34:LYS:H	1:D:39:GLN:HE22	1.35	0.74
1:A:210:GLN:NE2	1:A:211:GLY:O	2.21	0.73
1:A:683:ARG:NH1	1:A:686:VAL:O	2.21	0.73
1:C:421:SER:HB2	1:C:438:PHE:CE2	2.23	0.73
1:D:1360:LEU:HD22	1:D:1437:TYR:HE2	1.53	0.73
1:B:575:THR:H	1:B:778:LEU:HD21	1.53	0.73
1:A:270:GLY:H	1:C:430:TYR:HD1	1.35	0.73
1:D:386:LEU:HA	1:D:418:VAL:HG23	1.71	0.73
1:C:509:ARG:NH1	1:C:510:ASP:O	2.21	0.73
1:A:1093:LEU:HD13	1:A:1133:LEU:HD11	1.69	0.73
1:C:140:ARG:NH2	1:C:728:TRP:O	2.21	0.73
1:D:930:ALA:HA	1:D:1304:ARG:O	1.88	0.73
1:A:1327:CYS:HB3	1:A:1331:VAL:HA	1.70	0.73
1:C:304:PRO:O	1:C:306:GLN:NE2	2.21	0.73
1:A:640:CYS:HB3	1:A:687:VAL:HB	1.71	0.73
1:C:129:PRO:O	1:C:213:THR:OG1	2.06	0.73
1:A:1241:ALA:O	1:A:1244:LEU:C	2.32	0.72
1:B:484:MET:HB3	1:B:543:LEU:HD22	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:262:CYS:HB3	1:D:283:CYS:HA	1.71	0.72
1:D:346:LEU:HD12	1:D:369:LEU:HB2	1.71	0.72
1:C:1255:LEU:O	1:C:1262:VAL:N	2.21	0.72
1:D:455:PHE:HB2	1:D:478:ILE:HG22	1.72	0.72
1:D:1173:LEU:HB3	1:D:1431:GLU:HG2	1.70	0.72
1:A:745:VAL:HG22	1:A:747:ASP:H	1.53	0.72
1:C:496:LEU:HB3	1:C:538:ILE:HB	1.71	0.72
1:D:135:CYS:H	1:D:187:LEU:HB3	1.54	0.72
1:D:145:ASN:OD1	1:D:146:THR:N	2.22	0.72
1:C:1373:LEU:HD11	1:C:1405:PHE:HB3	1.71	0.72
1:D:1254:PHE:O	1:D:1256:ARG:NH1	2.22	0.72
1:A:357:TYR:OH	1:A:413:GLN:O	2.06	0.72
1:A:1055:GLN:OE1	1:A:1059:LYS:NZ	2.17	0.72
1:B:140:ARG:NH2	1:B:728:TRP:O	2.22	0.72
1:B:355:GLU:OE1	1:B:446:MET:N	2.22	0.72
1:C:135:CYS:HB3	1:C:187:LEU:HD12	1.71	0.72
1:A:182:GLN:HE21	1:A:730:LEU:HD23	1.54	0.72
1:D:156:THR:O	1:D:172:GLN:NE2	2.21	0.72
1:C:52:LEU:HD12	1:C:102:GLY:HA3	1.70	0.72
1:C:669:LEU:HD11	1:C:674:LEU:HB3	1.70	0.72
1:A:508:GLN:O	1:A:509:ARG:NE	2.22	0.72
1:B:162:ASP:OD1	1:B:166:SER:N	2.20	0.72
1:A:1314:SER:O	1:A:1344:ARG:NH1	2.23	0.71
1:A:591:CYS:CB	1:A:758:CYS:HA	2.20	0.71
1:A:260:LYS:NZ	1:A:262:CYS:SG	2.62	0.71
1:A:121:ILE:O	1:A:143:SER:HA	1.88	0.71
1:A:127:ASP:OD1	1:A:131:TYR:OH	2.09	0.71
1:D:933:PHE:HB3	1:D:1277:ARG:HD2	1.72	0.71
1:D:1071:LEU:HD13	1:D:1074:ARG:HH21	1.53	0.71
1:A:933:PHE:HB2	1:A:1277:ARG:HH22	1.54	0.71
1:B:472:ASN:O	1:B:522:ASN:ND2	2.17	0.71
1:B:992:GLN:NE2	1:B:996:GLU:OE2	2.24	0.71
1:A:478:ILE:HA	1:A:518:SER:HA	1.72	0.71
1:B:780:PHE:HB2	1:B:881:ARG:HH21	1.56	0.71
1:D:26:ALA:HB3	1:D:44:ASN:HB3	1.71	0.71
1:D:895:GLY:HA3	1:D:1306:ASN:HB3	1.71	0.71
1:A:817:GLN:NE2	1:A:818:PRO:O	2.23	0.71
1:A:473:ILE:HD12	1:A:525:LEU:HD12	1.72	0.71
1:B:892:GLN:HE22	1:B:1306:ASN:HD21	1.39	0.71
1:C:664:ASP:OD1	1:C:667:GLN:N	2.22	0.71
1:D:500:ARG:NH2	1:D:530:ASP:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:979:THR:O	1:A:981:GLN:NE2	2.24	0.70
1:A:466:ASN:O	1:A:469:GLN:NE2	2.15	0.70
1:A:898:LYS:NZ	1:A:899:GLU:O	2.23	0.70
1:B:26:ALA:O	1:B:43:VAL:HA	1.91	0.70
1:A:497:ALA:HB3	1:A:505:GLN:HB2	1.72	0.70
1:B:759:VAL:HG12	1:B:765:PHE:HB3	1.74	0.70
1:C:155:TYR:O	1:C:174:GLN:N	2.22	0.70
1:A:1214:LEU:HA	1:A:1217:GLN:HE21	1.57	0.70
1:D:34:LYS:H	1:D:39:GLN:NE2	1.88	0.70
1:A:381:GLN:HE21	1:A:393:ALA:HA	1.56	0.70
1:B:396:THR:HG23	1:B:398:LYS:H	1.56	0.70
1:D:1016:SER:OG	1:D:1381:LYS:NZ	2.24	0.70
1:D:1332:ALA:O	1:D:1363:TYR:OH	2.10	0.70
1:A:648:PHE:H	1:A:654:TYR:HB3	1.55	0.69
1:A:684:LYS:HG3	1:A:686:VAL:H	1.56	0.69
1:A:652:ARG:HB2	1:B:656:PRO:HA	1.74	0.69
1:A:1190:LEU:HD22	1:A:1207:MET:HE1	1.74	0.69
1:D:1121:LEU:HD23	1:D:1185:ILE:HD13	1.72	0.69
1:A:164:SER:HA	1:A:1216:GLN:HE21	1.57	0.69
1:B:379:ASN:HA	1:B:396:THR:HG22	1.72	0.69
1:C:446:MET:HE3	1:C:447:ARG:HG2	1.74	0.69
1:C:1334:THR:HG22	1:C:1406:LYS:HE3	1.74	0.69
1:D:422:TYR:OH	1:D:424:ASN:ND2	2.24	0.69
1:A:272:LYS:HZ2	1:C:234:ILE:HG22	1.55	0.69
1:C:29:ILE:HD13	1:C:41:ALA:HB2	1.73	0.69
1:B:647:ILE:O	1:B:654:TYR:N	2.19	0.69
1:C:472:ASN:HB2	1:C:522:ASN:HB3	1.73	0.69
1:C:950:ASN:ND2	1:C:953:GLN:OE1	2.21	0.69
1:A:411:PHE:HB3	1:A:413:GLN:HE22	1.57	0.69
1:A:666:TYR:OH	1:A:670:ARG:NH1	2.25	0.69
1:A:1241:ALA:O	1:A:1244:LEU:O	2.11	0.69
1:B:752:TRP:HB2	1:B:774:PHE:HB3	1.75	0.69
1:D:145:ASN:HD22	1:D:149:LEU:HD12	1.56	0.69
1:D:684:LYS:NZ	1:D:685:PRO:O	2.26	0.69
1:A:353:LEU:HD23	1:A:363:TYR:HE2	1.57	0.69
1:B:156:THR:O	1:B:172:GLN:NE2	2.23	0.69
1:C:373:ASN:OD1	1:C:375:ASN:ND2	2.24	0.69
1:C:1224:PHE:HE2	1:C:1234:LEU:HG	1.57	0.69
1:D:1300:GLN:HE22	1:D:1302:THR:HB	1.58	0.69
1:A:424:ASN:OD1	1:A:426:HIS:ND1	2.20	0.69
1:A:1007:PRO:O	1:D:632:ASN:ND2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:39:GLN:HE22	1:C:85:VAL:HB	1.56	0.68
1:C:386:LEU:HA	1:C:418:VAL:HG23	1.73	0.68
1:A:813:ILE:HG13	1:A:814:VAL:H	1.57	0.68
1:A:1052:LEU:O	1:A:1055:GLN:NE2	2.22	0.68
1:A:1364:GLN:O	1:A:1408:LEU:N	2.26	0.68
1:B:381:GLN:HE21	1:B:393:ALA:HA	1.58	0.68
1:D:593:VAL:HG22	1:D:756:MET:HB3	1.75	0.68
1:A:969:ILE:HA	1:A:972:VAL:HG22	1.76	0.68
1:C:157:ALA:HB3	1:C:201:GLU:HB3	1.76	0.68
1:D:135:CYS:SG	1:D:136:LYS:N	2.67	0.68
1:D:989:THR:HG22	1:D:993:PHE:HE1	1.56	0.68
1:A:978:ASN:HD21	1:A:1238:ALA:HB1	1.57	0.68
1:A:1170:GLY:H	1:A:1173:LEU:HB3	1.59	0.68
1:D:547:LEU:HB2	1:D:682:ILE:HG22	1.75	0.68
1:D:596:ILE:HD11	1:D:600:LEU:HD22	1.75	0.68
1:A:897:ARG:NH2	1:A:929:SER:O	2.19	0.68
1:A:939:ASP:N	1:A:1272:ARG:HH22	1.92	0.68
1:B:784:LEU:HD22	1:B:887:GLN:HG2	1.76	0.68
1:D:188:ILE:HG23	1:D:191:ALA:H	1.59	0.68
1:B:809:CYS:HB2	1:B:869:SER:HA	1.76	0.68
1:D:48:TYR:CZ	1:D:75:PRO:HA	2.29	0.68
1:A:1026:SER:O	1:A:1029:THR:OG1	2.12	0.67
1:C:1031:LYS:NZ	1:C:1087:TYR:OH	2.21	0.67
1:D:867:GLY:H	1:D:874:SER:HB2	1.59	0.67
1:A:498:MET:HA	1:A:503:ILE:HA	1.76	0.67
1:D:937:VAL:HG12	1:D:1275:VAL:HG12	1.76	0.67
1:A:240:THR:HA	1:A:299:VAL:HG12	1.75	0.67
1:A:957:GLY:O	1:A:1000:ARG:NH2	2.27	0.67
1:A:959:GLY:HA2	1:A:1000:ARG:HH12	1.59	0.67
1:A:971:TYR:HE1	1:A:1235:GLN:HE21	1.41	0.67
1:A:1316:PHE:CE2	1:A:1431:GLU:HG3	2.28	0.67
1:B:796:LEU:O	1:B:847:ILE:N	2.27	0.67
1:D:678:THR:HG22	1:D:680:SER:H	1.59	0.67
1:A:114:VAL:HG11	1:A:627:ASN:HD22	1.60	0.67
1:D:24:GLN:HE22	1:D:679:SER:HB2	1.60	0.67
1:B:45:LEU:HB2	1:B:77:TYR:HB3	1.75	0.67
1:B:819:SER:OG	1:B:821:ASP:OD1	2.13	0.67
1:C:150:PRO:HD2	1:C:761:GLU:HA	1.76	0.67
1:C:1074:ARG:NH1	1:C:1350:THR:O	2.23	0.67
1:C:1375:ASN:O	1:C:1377:GLN:NE2	2.27	0.67
1:B:903:SER:HA	1:B:1300:GLN:OE1	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:135:CYS:SG	1:C:136:LYS:N	2.68	0.67
1:C:729:ARG:HH21	1:C:741:ILE:HG23	1.60	0.67
1:D:40:ARG:HB2	1:D:503:ILE:HB	1.75	0.67
1:D:489:THR:HB	1:D:513:LEU:HB2	1.76	0.67
1:C:34:LYS:NZ	1:C:117:PRO:O	2.28	0.67
1:C:188:ILE:HG23	1:C:191:ALA:H	1.60	0.67
1:D:1352:MET:HA	1:D:1352:MET:HE3	1.75	0.67
1:A:1100:GLY:HA3	1:D:62:ARG:HA	1.77	0.66
1:B:124:ILE:HG13	1:B:141:LEU:HD11	1.76	0.66
1:C:160:LEU:HD11	1:C:196:TYR:HB3	1.76	0.66
1:A:127:ASP:OD1	1:A:128:LYS:N	2.27	0.66
1:A:412:VAL:O	1:A:447:ARG:NH2	2.19	0.66
1:C:399:GLU:OE1	1:C:401:ARG:NE	2.27	0.66
1:C:473:ILE:HG13	1:C:523:ILE:HB	1.76	0.66
1:D:125:GLN:HE22	1:D:142:ILE:HG12	1.58	0.66
1:D:258:THR:O	1:D:321:THR:OG1	2.11	0.66
1:D:860:SER:HA	1:D:884:THR:HG22	1.77	0.66
1:D:1034:GLU:O	1:D:1037:LYS:NZ	2.24	0.66
1:D:1419:ALA:HB3	1:D:1437:TYR:HB3	1.77	0.66
1:A:454:SER:N	1:A:480:SER:OG	2.28	0.66
1:B:262:CYS:HB3	1:B:283:CYS:HA	1.75	0.66
1:D:127:ASP:HB2	1:D:594:LYS:HZ3	1.60	0.66
1:D:381:GLN:HA	1:D:394:VAL:O	1.96	0.66
1:C:1028:TYR:HA	1:C:1031:LYS:HZ3	1.60	0.66
1:C:752:TRP:HZ3	1:C:776:SER:H	1.43	0.66
1:A:1380:SER:OG	1:A:1392:TYR:O	2.14	0.66
1:C:217:TYR:OH	1:C:721:ASN:OD1	2.11	0.66
1:C:1422:TYR:HE1	1:C:1432:ASN:HB2	1.60	0.66
1:A:328:GLY:O	1:A:330:GLN:NE2	2.24	0.66
1:B:1363:TYR:HA	1:B:1410:GLY:H	1.60	0.66
1:C:361:ILE:HD11	1:C:478:ILE:HB	1.78	0.66
1:D:995:ASN:OD1	1:D:996:GLU:N	2.29	0.66
1:A:1101:MET:HG3	1:A:1103:LEU:HB2	1.78	0.66
1:B:632:ASN:OD1	1:B:633:LEU:N	2.29	0.66
1:B:267:SER:HA	1:B:277:LYS:HE2	1.78	0.66
1:D:568:PHE:HA	1:D:581:LEU:HD13	1.78	0.66
1:A:565:SER:O	1:A:583:LEU:HA	1.96	0.66
1:A:1033:PHE:HD2	1:A:1042:VAL:HG21	1.59	0.66
1:A:1356:ASP:HA	1:A:1389:VAL:O	1.96	0.66
1:C:162:ASP:OD1	1:C:166:SER:N	2.21	0.66
1:C:464:GLU:OE2	1:C:557:GLU:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:806:LEU:HD21	1:B:881:ARG:HH12	1.62	0.65
1:B:1419:ALA:HB3	1:B:1437:TYR:HB3	1.78	0.65
1:D:40:ARG:NH1	1:D:82:LYS:HG2	2.11	0.65
1:D:1074:ARG:NH1	1:D:1350:THR:O	2.27	0.65
1:A:500:ARG:HG2	1:A:532:ALA:HB2	1.78	0.65
1:A:1006:LEU:HD22	1:A:1010:ALA:HB3	1.78	0.65
1:C:154:LYS:HZ3	1:C:175:GLU:HG2	1.61	0.65
1:C:900:GLU:HB2	1:C:1303:ILE:HB	1.78	0.65
1:D:383:GLU:OE2	1:D:392:GLY:N	2.29	0.65
1:A:413:GLN:O	1:A:447:ARG:NH2	2.28	0.65
1:A:756:MET:HE1	1:A:758:CYS:SG	2.37	0.65
1:A:904:ASN:ND2	1:A:915:MET:SD	2.69	0.65
1:B:450:SER:HB2	1:B:455:PHE:HE1	1.61	0.65
1:B:938:GLY:HA3	1:B:1272:ARG:HA	1.78	0.65
1:C:271:ARG:HG2	1:C:272:LYS:H	1.62	0.65
1:C:533:PRO:HA	1:C:556:ILE:H	1.60	0.65
1:C:1074:ARG:HH12	1:C:1395:ALA:HB2	1.60	0.65
1:C:1256:ARG:HA	1:C:1261:ASP:HA	1.76	0.65
1:D:56:VAL:N	1:D:68:PHE:O	2.22	0.65
1:D:499:SER:HB2	1:D:532:ALA:H	1.61	0.65
1:A:163:PRO:O	1:A:1216:GLN:NE2	2.29	0.65
1:B:200:ALA:HB3	1:B:208:ALA:HB3	1.78	0.65
1:B:1115:MET:HE1	1:B:1143:LEU:HD22	1.79	0.65
1:C:156:THR:HA	1:C:173:ASN:H	1.61	0.65
1:D:193:PRO:HA	1:D:214:VAL:HG13	1.79	0.65
1:D:610:SER:HG	1:D:612:SER:HG	1.44	0.65
1:D:1355:ILE:HG22	1:D:1423:VAL:HG13	1.77	0.65
1:B:22:LYS:NZ	1:B:24:GLN:OE1	2.30	0.65
1:C:935:THR:OG1	1:C:1277:ARG:NH1	2.29	0.65
1:D:153:GLU:OE2	1:D:204:SER:N	2.27	0.65
1:D:342:GLN:HE21	1:D:431:THR:HA	1.62	0.65
1:D:1174:TYR:HB2	1:D:1346:LEU:HD21	1.79	0.65
1:A:259:ILE:HD13	1:A:320:LEU:HD13	1.78	0.65
1:A:341:SER:OG	1:A:430:TYR:O	2.11	0.65
1:A:1343:TYR:HD2	1:A:1396:VAL:HG21	1.61	0.65
1:B:657:VAL:HG23	1:B:687:VAL:HG11	1.79	0.65
1:C:513:LEU:HD21	1:C:517:LYS:HA	1.77	0.65
1:D:322:VAL:HB	1:D:331:VAL:HB	1.78	0.65
1:D:322:VAL:O	1:D:331:VAL:N	2.29	0.65
1:D:1311:LYS:HD3	1:D:1435:ALA:HA	1.78	0.65
1:A:664:ASP:OD1	1:A:667:GLN:NE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:822:PHE:HE2	1:A:824:VAL:HB	1.61	0.65
1:A:381:GLN:NE2	1:A:383:GLU:OE1	2.31	0.64
1:A:489:THR:HA	1:A:513:LEU:HB2	1.79	0.64
1:A:558:LYS:HE2	1:A:615:TYR:HB2	1.80	0.64
1:A:684:LYS:HZ1	1:A:686:VAL:HG13	1.61	0.64
1:A:1373:LEU:HD11	1:A:1405:PHE:HB3	1.79	0.64
1:B:379:ASN:H	1:B:398:LYS:HZ1	1.45	0.64
1:B:640:CYS:SG	1:B:688:CYS:N	2.70	0.64
1:C:346:LEU:HD13	1:C:369:LEU:HB2	1.78	0.64
1:D:1140:ARG:NH1	1:D:1141:ASN:OD1	2.30	0.64
1:A:1258:GLU:OE1	1:A:1286:ASN:ND2	2.31	0.64
1:A:1381:LYS:HB3	1:A:1392:TYR:HB3	1.78	0.64
1:B:40:ARG:HH21	1:B:502:LYS:HZ1	1.45	0.64
1:C:266:SER:HB2	1:C:277:LYS:HZ2	1.61	0.64
1:C:358:LYS:HZ2	1:C:448:PHE:HD2	1.44	0.64
1:C:515:GLN:HG3	1:C:516:SER:H	1.61	0.64
1:D:26:ALA:O	1:D:43:VAL:HA	1.97	0.64
1:D:1352:MET:HE1	1:D:1394:ASN:HA	1.78	0.64
1:A:1122:TYR:HB2	1:A:1185:ILE:HD11	1.80	0.64
1:B:1032:THR:HA	1:B:1035:LYS:HE3	1.78	0.64
1:C:138:ARG:NH2	1:C:725:THR:OG1	2.31	0.64
1:D:581:LEU:O	1:D:740:THR:HA	1.97	0.64
1:A:248:THR:HB	1:A:750:THR:HG21	1.78	0.64
1:A:370:THR:HA	1:A:377:MET:HE1	1.80	0.64
1:B:1191:LEU:HD21	1:B:1236:ALA:HA	1.78	0.64
1:C:156:THR:OG1	1:C:201:GLU:OE1	2.14	0.64
1:D:190:ASP:OD1	1:D:1003:ARG:NH1	2.31	0.64
1:D:461:SER:HB3	1:D:463:VAL:HG22	1.79	0.64
1:D:1074:ARG:HH12	1:D:1395:ALA:HB2	1.62	0.64
1:D:192:ALA:O	1:D:196:TYR:OH	2.11	0.64
1:A:1239:PHE:O	1:A:1242:GLN:NE2	2.27	0.64
1:B:135:CYS:SG	1:B:136:LYS:N	2.71	0.64
1:C:1255:LEU:HD11	1:C:1287:TYR:HB3	1.79	0.64
1:C:270:GLY:O	1:C:271:ARG:HD3	1.97	0.64
1:B:651:GLY:N	1:B:654:TYR:OH	2.21	0.64
1:B:996:GLU:HB3	1:B:1000:ARG:HH12	1.62	0.64
1:A:332:THR:OG1	1:A:1412:ARG:N	2.28	0.64
1:A:354:LYS:O	1:A:363:TYR:OH	2.16	0.64
1:A:930:ALA:HA	1:A:1304:ARG:O	1.98	0.64
1:B:474:SER:OG	1:B:522:ASN:ND2	2.24	0.64
1:D:952:LEU:HG	1:D:954:MET:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:LEU:HD23	1:A:73:GLN:HG2	1.80	0.64
1:A:272:LYS:HD2	1:C:341:SER:HA	1.80	0.64
1:B:937:VAL:HG12	1:B:1275:VAL:HG12	1.80	0.64
1:B:652:ARG:HD3	1:B:653:TYR:N	2.10	0.63
1:B:1224:PHE:HD2	1:B:1230:THR:HA	1.63	0.63
1:D:97:THR:HA	1:D:109:ASP:O	1.98	0.63
1:A:858:ILE:HG23	1:A:886:ILE:HG12	1.79	0.63
1:A:975:TYR:O	1:A:979:THR:OG1	2.10	0.63
1:B:669:LEU:HD11	1:B:674:LEU:H	1.63	0.63
1:D:130:VAL:HA	1:D:213:THR:HG23	1.79	0.63
1:D:263:ARG:HH12	1:D:313:GLN:H	1.46	0.63
1:A:233:SER:N	1:A:236:ASP:OD2	2.31	0.63
1:A:424:ASN:O	1:A:427:GLN:NE2	2.31	0.63
1:A:499:SER:OG	1:A:532:ALA:N	2.24	0.63
1:B:856:SER:HB2	1:B:886:ILE:HD11	1.79	0.63
1:D:162:ASP:HA	1:D:196:TYR:HD1	1.63	0.63
1:D:453:GLY:O	1:D:480:SER:HB3	1.98	0.63
1:D:789:SER:OG	1:D:1387:ASN:ND2	2.31	0.63
1:D:1363:TYR:HA	1:D:1410:GLY:H	1.61	0.63
1:B:249:TYR:O	1:B:251:GLN:NE2	2.31	0.63
1:C:1122:TYR:O	1:C:1125:SER:OG	2.16	0.63
1:D:380:GLU:O	1:D:395:LEU:HA	1.99	0.63
1:B:1363:TYR:HB3	1:B:1408:LEU:O	1.99	0.63
1:D:813:ILE:N	1:D:862:GLU:OE2	2.30	0.63
1:D:1326:ASN:ND2	1:D:1334:THR:OG1	2.31	0.63
1:B:500:ARG:HE	1:B:532:ALA:HB2	1.62	0.63
1:C:811:LYS:H	1:C:865:HIS:HA	1.62	0.63
1:D:1075:GLN:HE22	1:D:1351:ASN:HB3	1.64	0.63
1:A:342:GLN:HA	1:A:429:TYR:CE1	2.34	0.63
1:B:1006:LEU:HD23	1:B:1008:SER:HB3	1.81	0.63
1:A:147:MET:HG2	1:A:149:LEU:H	1.64	0.63
1:A:495:TYR:HB2	1:A:537:LEU:HD11	1.80	0.63
1:A:992:GLN:HA	1:A:995:ASN:HD22	1.63	0.62
1:A:1251:HIS:HE1	1:A:1253:VAL:HB	1.63	0.62
1:B:489:THR:HG22	1:B:513:LEU:HD23	1.80	0.62
1:D:368:ILE:HG23	1:D:401:ARG:HH21	1.64	0.62
1:D:568:PHE:CZ	1:D:774:PHE:HB2	2.34	0.62
1:A:69:SER:OG	1:A:71:LYS:NZ	2.26	0.62
1:C:1058:GLN:HE21	1:C:1060:LEU:HD12	1.64	0.62
1:D:247:TYR:HB2	1:D:251:GLN:HB2	1.81	0.62
1:A:46:ILE:HG21	1:A:542:ILE:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:323:THR:HG22	1:B:330:GLN:HB3	1.82	0.62
1:B:587:PRO:HG3	1:B:736:GLU:HA	1.82	0.62
1:A:908:VAL:HG13	1:A:1294:THR:HA	1.82	0.62
1:B:1366:ASP:OD1	1:B:1369:SER:N	2.32	0.62
1:C:159:TYR:HB3	1:C:170:GLN:HG3	1.80	0.62
1:D:959:GLY:HA3	1:D:1025:LEU:HD21	1.82	0.62
1:B:796:LEU:N	1:B:847:ILE:O	2.28	0.62
1:D:88:VAL:HG12	1:D:90:THR:H	1.65	0.62
1:B:309:GLN:H	1:B:312:PHE:HE1	1.44	0.62
1:B:500:ARG:NH2	1:B:530:ASP:O	2.31	0.62
1:B:1254:PHE:HA	1:B:1263:GLY:O	1.99	0.62
1:C:486:GLU:OE1	1:C:517:LYS:NZ	2.32	0.62
1:C:968:PRO:HG3	1:C:1231:VAL:HG23	1.82	0.62
1:D:396:THR:HG23	1:D:398:LYS:H	1.64	0.62
1:D:1255:LEU:O	1:D:1262:VAL:N	2.28	0.62
1:A:373:ASN:OD1	1:A:375:ASN:ND2	2.32	0.62
1:B:307:MET:HA	1:B:312:PHE:HZ	1.64	0.62
1:C:153:GLU:N	1:C:176:SER:OG	2.32	0.62
1:D:138:ARG:HB3	1:D:728:TRP:NE1	2.15	0.62
1:D:958:CYS:O	1:D:962:ASN:N	2.28	0.62
1:A:128:LYS:HB2	1:A:131:TYR:HE1	1.65	0.62
1:B:381:GLN:HE22	1:B:383:GLU:HG2	1.65	0.62
1:C:396:THR:HG23	1:C:398:LYS:H	1.64	0.62
1:C:811:LYS:NZ	1:C:870:CYS:SG	2.66	0.62
1:A:24:GLN:NE2	1:A:679:SER:H	1.97	0.62
1:D:124:ILE:HA	1:D:141:LEU:HD13	1.81	0.62
1:D:274:ASN:HB2	1:D:277:LYS:HD3	1.80	0.62
1:D:652:ARG:HH12	1:D:654:TYR:HA	1.64	0.62
1:A:326:GLY:HA3	1:A:801:PHE:HE1	1.65	0.62
1:B:316:LEU:HB3	1:B:337:ILE:HB	1.82	0.62
1:C:26:ALA:O	1:C:43:VAL:HA	2.00	0.62
1:C:26:ALA:HB3	1:C:44:ASN:HB3	1.81	0.62
1:C:937:VAL:HG12	1:C:1275:VAL:HG12	1.82	0.62
1:C:954:MET:HE1	1:C:1426:TYR:HA	1.80	0.62
1:C:958:CYS:O	1:C:962:ASN:N	2.33	0.62
1:D:959:GLY:O	1:D:963:LEU:N	2.27	0.62
1:A:162:ASP:OD1	1:A:166:SER:N	2.32	0.61
1:A:801:PHE:HD1	1:A:842:SER:HB2	1.65	0.61
1:B:665:THR:HB	1:B:682:ILE:HB	1.82	0.61
1:D:665:THR:HB	1:D:682:ILE:HB	1.82	0.61
1:A:234:ILE:HD11	1:A:308:GLY:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:GLN:OE1	1:A:413:GLN:N	2.30	0.61
1:A:919:LEU:HD12	1:A:1285:GLY:HA3	1.82	0.61
1:A:1095:SER:OG	1:A:1096:ASN:N	2.32	0.61
1:B:716:GLU:OE1	1:B:719:ARG:NH2	2.33	0.61
1:A:113:VAL:HG22	1:A:114:VAL:H	1.64	0.61
1:B:1006:LEU:N	1:B:1010:ALA:O	2.33	0.61
1:C:640:CYS:SG	1:C:688:CYS:N	2.73	0.61
1:C:784:LEU:HD21	1:C:859:VAL:HG11	1.82	0.61
1:D:346:LEU:HD21	1:D:367:VAL:HB	1.82	0.61
1:A:270:GLY:C	1:C:430:TYR:HB3	2.26	0.61
1:B:101:SER:HA	1:B:106:ASP:HB3	1.83	0.61
1:A:159:TYR:HA	1:A:169:ALA:O	2.01	0.61
1:A:228:PRO:O	1:A:230:ASN:ND2	2.33	0.61
1:C:56:VAL:HB	1:C:68:PHE:H	1.65	0.61
1:D:139:PHE:HD2	1:D:183:LEU:HB2	1.65	0.61
1:D:509:ARG:NH2	1:D:510:ASP:O	2.31	0.61
1:A:428:CYS:HA	1:A:430:TYR:CZ	2.35	0.61
1:A:831:GLN:NE2	1:A:832:ASP:O	2.21	0.61
1:A:1051:LEU:HD12	1:A:1054:LEU:HD11	1.82	0.61
1:B:593:VAL:HA	1:B:756:MET:HG3	1.81	0.61
1:B:792:ARG:NE	1:B:793:GLU:OE2	2.34	0.61
1:C:324:GLU:OE1	1:C:327:THR:N	2.27	0.61
1:C:1125:SER:HB3	1:C:1185:ILE:HG23	1.83	0.61
1:D:1045:LYS:HA	1:D:1048:GLN:HG3	1.81	0.61
1:A:154:LYS:N	1:A:203:GLU:OE2	2.34	0.61
1:B:247:TYR:HB2	1:B:251:GLN:HB2	1.83	0.61
1:D:100:VAL:HB	1:D:107:ILE:H	1.65	0.61
1:D:614:VAL:O	1:D:617:SER:OG	2.19	0.61
1:D:811:LYS:H	1:D:865:HIS:HA	1.64	0.61
1:B:190:ASP:OD1	1:B:1003:ARG:NH1	2.34	0.61
1:B:494:TYR:HB2	1:B:540:TYR:CZ	2.35	0.61
1:C:781:PHE:HB2	1:C:803:SER:HB3	1.82	0.61
1:C:902:SER:OG	1:C:1301:SER:OG	2.16	0.61
1:D:37:GLU:OE2	1:D:39:GLN:NE2	2.32	0.61
1:A:1209:GLN:N	1:A:1209:GLN:OE1	2.34	0.61
1:B:716:GLU:HB3	1:B:719:ARG:HH12	1.65	0.61
1:A:476:ARG:HB2	1:A:520:LEU:HD13	1.83	0.61
1:A:494:TYR:O	1:A:539:VAL:HA	1.99	0.61
1:A:578:ASN:H	1:A:743:GLU:HA	1.64	0.61
1:B:276:PHE:N	1:D:430:TYR:OH	2.33	0.61
1:B:687:VAL:HG13	1:B:690:MET:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:760:SER:N	1:C:764:GLY:O	2.34	0.61
1:D:368:ILE:HG23	1:D:401:ARG:NH2	2.16	0.61
1:B:482:ASP:N	1:B:486:GLU:OE2	2.33	0.60
1:C:854:ARG:NH2	1:C:889:ILE:O	2.34	0.60
1:C:905:LEU:HG	1:C:1215:ILE:HG21	1.83	0.60
1:A:858:ILE:HG12	1:A:886:ILE:HG23	1.84	0.60
1:C:1173:LEU:HD22	1:C:1431:GLU:HA	1.83	0.60
1:D:357:TYR:CE2	1:D:447:ARG:HB2	2.37	0.60
1:D:379:ASN:HA	1:D:396:THR:HG22	1.83	0.60
1:A:344:ALA:HA	1:A:371:ASP:HA	1.83	0.60
1:B:223:SER:O	1:B:245:ALA:HA	2.01	0.60
1:B:982:LEU:HD21	1:B:987:LEU:HB2	1.82	0.60
1:D:615:TYR:HA	1:D:618:ILE:HD12	1.82	0.60
1:B:759:VAL:HA	1:B:765:PHE:HA	1.82	0.60
1:C:137:VAL:HG23	1:C:187:LEU:HD11	1.83	0.60
1:C:966:MET:HE3	1:C:1000:ARG:HH12	1.65	0.60
1:D:164:SER:HB3	1:D:1005:LYS:HD3	1.82	0.60
1:D:347:ILE:HG13	1:D:348:PHE:H	1.67	0.60
1:D:1212:VAL:O	1:D:1216:GLN:HG2	2.01	0.60
1:A:684:LYS:HG2	1:A:686:VAL:HG22	1.82	0.60
1:A:905:LEU:HD23	1:A:1204:LEU:HB2	1.82	0.60
1:C:190:ASP:OD1	1:C:1003:ARG:NH1	2.34	0.60
1:C:247:TYR:HB2	1:C:251:GLN:HB2	1.83	0.60
1:D:188:ILE:HG13	1:D:190:ASP:H	1.66	0.60
1:A:1187:ALA:HA	1:A:1190:LEU:HD12	1.84	0.60
1:C:270:GLY:HA2	1:C:275:CYS:HA	1.84	0.60
1:C:795:ILE:HD12	1:C:1415:ASN:HD22	1.66	0.60
1:C:1032:THR:HA	1:C:1035:LYS:HE3	1.82	0.60
1:D:221:ARG:HH21	1:D:247:TYR:HE1	1.49	0.60
1:A:457:ASP:OD2	1:A:459:GLN:NE2	2.34	0.60
1:A:634:GLU:OE1	1:A:634:GLU:N	2.35	0.60
1:A:669:LEU:O	1:A:673:GLY:N	2.34	0.60
1:A:1089:ALA:O	1:A:1093:LEU:HG	2.01	0.60
1:B:1343:TYR:HD2	1:B:1398:LEU:HD22	1.66	0.60
1:C:476:ARG:HG3	1:C:520:LEU:HB3	1.84	0.60
1:D:344:ALA:HA	1:D:371:ASP:HA	1.83	0.60
1:D:1053:TYR:OH	1:D:1068:GLU:OE1	2.16	0.60
1:A:1378:GLN:OE1	1:A:1395:ALA:N	2.23	0.60
1:C:147:MET:SD	1:C:500:ARG:NH2	2.74	0.60
1:D:540:TYR:HA	1:D:548:ILE:O	2.02	0.60
1:D:221:ARG:HA	1:D:248:THR:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:HIS:O	1:A:50:GLN:NE2	2.35	0.60
1:A:454:SER:OG	1:A:480:SER:N	2.34	0.60
1:B:373:ASN:OD1	1:B:375:ASN:ND2	2.25	0.60
1:B:648:PHE:HB2	1:B:653:TYR:HD1	1.66	0.60
1:D:232:ILE:HD11	1:D:339:ILE:HG12	1.82	0.60
1:A:495:TYR:HB3	1:A:539:VAL:HG22	1.84	0.59
1:D:914:GLU:OE1	1:D:1256:ARG:NH2	2.35	0.59
1:A:361:ILE:HD12	1:A:478:ILE:HD13	1.83	0.59
1:D:935:THR:OG1	1:D:1277:ARG:NH1	2.35	0.59
1:D:956:TYR:HA	1:D:961:GLN:HB3	1.84	0.59
1:A:656:PRO:O	1:B:652:ARG:NH2	2.34	0.59
1:D:991:VAL:HA	1:D:994:LEU:HD12	1.84	0.59
1:C:424:ASN:HB3	1:C:427:GLN:HE22	1.68	0.59
1:C:1089:ALA:HB2	1:C:1107:ALA:HB1	1.83	0.59
1:C:1207:MET:HA	1:C:1210:ILE:HG22	1.85	0.59
1:D:894:GLU:CD	1:D:895:GLY:H	2.11	0.59
1:A:271:ARG:HE	1:C:432:GLU:HG2	1.67	0.59
1:A:358:LYS:HD2	1:A:448:PHE:HD2	1.67	0.59
1:A:779:PRO:O	1:A:805:TYR:N	2.35	0.59
1:B:893:PRO:HB2	1:B:1306:ASN:HD22	1.67	0.59
1:C:412:VAL:O	1:C:447:ARG:NH1	2.34	0.59
1:A:196:TYR:HB2	1:A:212:PHE:CE2	2.38	0.59
1:A:943:LEU:HD11	1:A:946:SER:HB3	1.83	0.59
1:C:753:GLN:HA	1:C:772:ALA:O	2.03	0.59
1:D:750:THR:H	1:D:776:SER:HG	1.48	0.59
1:A:804:ASN:OD1	1:A:806:LEU:N	2.36	0.59
1:A:971:TYR:O	1:A:974:GLU:HG2	2.02	0.59
1:B:836:CYS:SG	1:B:837:SER:N	2.73	0.59
1:D:913:VAL:O	1:D:1290:SER:HA	2.02	0.59
1:D:1042:VAL:CG1	1:D:1047:GLN:HE22	2.16	0.59
1:C:540:TYR:HD2	1:C:547:LEU:HD11	1.68	0.59
1:A:155:TYR:N	1:A:174:GLN:O	2.36	0.59
1:A:238:ILE:HD12	1:A:301:SER:HA	1.85	0.59
1:A:926:VAL:HG23	1:A:1308:PRO:HD3	1.85	0.59
1:B:952:LEU:HG	1:B:954:MET:H	1.68	0.59
1:B:1099:SER:HA	1:B:1104:LEU:HD23	1.83	0.59
1:D:432:GLU:OE1	1:D:432:GLU:N	2.35	0.59
1:D:998:TYR:O	1:D:1002:LEU:HG	2.02	0.59
1:D:1031:LYS:O	1:D:1035:LYS:HG2	2.02	0.59
1:A:40:ARG:HH11	1:A:81:ASN:HA	1.67	0.59
1:A:611:ALA:HA	1:A:614:VAL:HG22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:681:LYS:HZ1	1:B:685:PRO:HD3	1.68	0.59
1:B:760:SER:N	1:B:764:GLY:O	2.36	0.59
1:B:932:ALA:HB3	1:B:1280:LEU:HB2	1.85	0.59
1:D:541:CYS:SG	1:D:542:ILE:N	2.74	0.59
1:D:866:ILE:HG23	1:D:873:PRO:HA	1.84	0.59
1:D:1024:TRP:HE1	1:D:1084:PHE:HB2	1.66	0.59
1:A:257:VAL:O	1:A:288:GLY:N	2.35	0.58
1:A:262:CYS:HB2	1:A:283:CYS:HA	1.84	0.58
1:A:498:MET:HB2	1:A:503:ILE:HG13	1.85	0.58
1:D:249:TYR:O	1:D:251:GLN:NE2	2.36	0.58
1:D:489:THR:HA	1:D:513:LEU:HD12	1.84	0.58
1:D:749:ILE:HD11	1:D:778:LEU:HG	1.83	0.58
1:D:783:GLU:HG2	1:D:801:PHE:HB2	1.85	0.58
1:A:827:GLN:NE2	1:A:844:SER:O	2.26	0.58
1:B:857:PHE:O	1:B:886:ILE:HA	2.03	0.58
1:D:1421:VAL:HB	1:D:1435:ALA:HB3	1.84	0.58
1:A:1186:THR:HA	1:A:1189:MET:HE3	1.84	0.58
1:A:1363:TYR:HA	1:A:1409:ILE:HA	1.85	0.58
1:D:139:PHE:CD2	1:D:183:LEU:HB2	2.38	0.58
1:D:792:ARG:NE	1:D:793:GLU:OE2	2.33	0.58
1:D:902:SER:OG	1:D:1301:SER:OG	2.15	0.58
1:D:1042:VAL:HG11	1:D:1047:GLN:HE22	1.67	0.58
1:A:831:GLN:NE2	1:A:832:ASP:OD1	2.36	0.58
1:A:933:PHE:HD2	1:A:1277:ARG:HH22	1.50	0.58
1:B:1121:LEU:HD21	1:B:1185:ILE:HG21	1.84	0.58
1:C:456:LEU:HG	1:C:550:ASP:HB2	1.84	0.58
1:C:540:TYR:CD2	1:C:547:LEU:HD11	2.38	0.58
1:D:109:ASP:HB3	1:D:111:LYS:NZ	2.19	0.58
1:B:27:LEU:O	1:B:676:LEU:HD13	2.03	0.58
1:B:153:GLU:OE2	1:B:204:SER:N	2.28	0.58
1:B:225:ILE:HB	1:B:244:SER:HB2	1.85	0.58
1:B:666:TYR:HB2	1:B:683:ARG:HG2	1.85	0.58
1:B:789:SER:OG	1:B:1387:ASN:ND2	2.35	0.58
1:C:458:ILE:C	1:C:476:ARG:HH22	2.10	0.58
1:A:424:ASN:HB3	1:A:427:GLN:HE22	1.68	0.58
1:A:490:THR:OG1	1:A:510:ASP:OD2	2.20	0.58
1:C:518:SER:OG	1:C:519:GLY:N	2.34	0.58
1:C:642:ASP:OD2	1:C:645:THR:OG1	2.21	0.58
1:D:925:ILE:HD11	1:D:930:ALA:HB2	1.85	0.58
1:D:1031:LYS:O	1:D:1034:GLU:HG2	2.02	0.58
1:A:241:LEU:HB2	1:A:297:TYR:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:24:GLN:HE21	1:B:25:TYR:H	1.50	0.58
1:B:263:ARG:HG3	1:B:313:GLN:HB2	1.84	0.58
1:C:58:LEU:HB2	1:C:67:ILE:HD11	1.84	0.58
1:C:156:THR:O	1:C:172:GLN:NE2	2.36	0.58
1:C:249:TYR:O	1:C:251:GLN:NE2	2.36	0.58
1:C:369:LEU:HG	1:C:377:MET:HG3	1.86	0.58
1:A:40:ARG:HD3	1:A:81:ASN:C	2.29	0.58
1:A:380:GLU:H	1:A:396:THR:HG22	1.68	0.58
1:A:466:ASN:OD1	1:A:467:CYS:N	2.37	0.58
1:B:793:GLU:O	1:B:1417:LYS:NZ	2.33	0.58
1:D:261:CYS:H	1:D:284:THR:HG22	1.68	0.58
1:A:664:ASP:N	1:A:667:GLN:HE21	2.02	0.58
1:A:823:GLU:HB3	1:A:848:ILE:HG22	1.85	0.58
1:A:1363:TYR:HA	1:A:1410:GLY:H	1.69	0.58
1:B:601:LEU:HD12	1:B:605:PRO:HA	1.86	0.58
1:D:379:ASN:OD1	1:D:395:LEU:HB3	2.03	0.58
1:A:1421:VAL:HG13	1:A:1437:TYR:CE2	2.38	0.58
1:B:138:ARG:HB3	1:B:728:TRP:CE2	2.39	0.58
1:B:957:GLY:HA3	1:B:1381:LYS:HE3	1.86	0.58
1:C:232:ILE:HG23	1:C:339:ILE:HA	1.86	0.58
1:C:268:TYR:H	1:C:277:LYS:HZ1	1.51	0.58
1:C:625:GLY:N	1:C:628:TYR:OH	2.37	0.58
1:D:640:CYS:SG	1:D:688:CYS:N	2.76	0.58
1:A:1056:THR:HA	1:A:1059:LYS:HE2	1.85	0.57
1:B:1360:LEU:HB3	1:B:1363:TYR:CE2	2.39	0.57
1:C:496:LEU:HD11	1:C:503:ILE:HG23	1.85	0.57
1:C:1167:GLY:HA3	1:C:1346:LEU:HD13	1.85	0.57
1:C:1357:ILE:HG12	1:C:1421:VAL:HG22	1.86	0.57
1:D:1351:ASN:ND2	1:D:1427:TYR:HB2	2.19	0.57
1:A:593:VAL:HG23	1:A:756:MET:HB3	1.87	0.57
1:C:1028:TYR:HA	1:C:1031:LYS:NZ	2.18	0.57
1:D:623:LEU:HD12	1:D:628:TYR:CZ	2.38	0.57
1:A:571:ASP:OD1	1:A:775:THR:N	2.28	0.57
1:A:1076:CYS:O	1:A:1177:ASN:ND2	2.38	0.57
1:A:1081:ASP:O	1:A:1085:THR:OG1	2.15	0.57
1:B:597:ASP:OD1	1:B:598:SER:N	2.37	0.57
1:C:931:SER:OG	1:C:1304:ARG:NE	2.36	0.57
1:D:51:PRO:HA	1:D:72:VAL:O	2.04	0.57
1:A:356:PHE:HA	1:A:446:MET:H	1.69	0.57
1:A:1229:ASP:OD1	1:A:1230:THR:N	2.34	0.57
1:C:314:MET:HA	1:C:339:ILE:HB	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1218:GLN:OE1	1:C:1219:ASN:N	2.38	0.57
1:C:1333:TYR:HD2	1:C:1409:ILE:HG21	1.68	0.57
1:D:729:ARG:NH1	1:D:741:ILE:HG23	2.19	0.57
1:A:562:ASN:HB3	1:A:765:PHE:C	2.29	0.57
1:A:1135:GLN:OE1	1:A:1137:TRP:HB3	2.05	0.57
1:C:547:LEU:HB3	1:C:682:ILE:HD11	1.86	0.57
1:C:865:HIS:CE1	1:C:874:SER:HG	2.21	0.57
1:C:1173:LEU:HD13	1:C:1431:GLU:HG2	1.86	0.57
1:D:346:LEU:HD11	1:D:367:VAL:HB	1.87	0.57
1:D:357:TYR:CZ	1:D:447:ARG:HB2	2.40	0.57
1:D:958:CYS:HB2	1:D:1013:ALA:HB1	1.85	0.57
1:D:1218:GLN:OE1	1:D:1219:ASN:N	2.36	0.57
1:A:128:LYS:HB2	1:A:131:TYR:CE1	2.39	0.57
1:A:265:ALA:HB1	1:A:268:TYR:HE2	1.70	0.57
1:A:571:ASP:HA	1:A:774:PHE:CE1	2.39	0.57
1:A:1361:SER:OG	1:A:1362:GLY:N	2.36	0.57
1:B:611:ALA:HB2	1:B:767:ILE:HD11	1.87	0.57
1:B:813:ILE:N	1:B:862:GLU:OE2	2.35	0.57
1:D:150:PRO:HB2	1:D:761:GLU:OE2	2.04	0.57
1:D:1086:ALA:O	1:D:1090:ILE:HG12	2.04	0.57
1:A:331:VAL:O	1:A:1412:ARG:NH1	2.37	0.57
1:B:198:ILE:HB	1:B:210:GLN:HB3	1.87	0.57
1:D:43:VAL:O	1:D:78:PHE:HA	2.05	0.57
1:D:856:SER:HB2	1:D:886:ILE:HD11	1.85	0.57
1:A:155:TYR:HB2	1:A:174:GLN:HB2	1.87	0.57
1:B:334:GLN:NE2	1:B:335:PHE:O	2.37	0.57
1:B:1369:SER:HA	1:B:1372:GLN:HG2	1.87	0.57
1:C:162:ASP:HA	1:C:196:TYR:HD1	1.70	0.57
1:C:270:GLY:C	1:C:271:ARG:HD3	2.30	0.57
1:C:982:LEU:HD11	1:C:987:LEU:HB2	1.87	0.57
1:A:41:ALA:O	1:A:80:CYS:HB2	2.05	0.57
1:A:1355:ILE:HD13	1:A:1423:VAL:HB	1.87	0.57
1:B:632:ASN:HB2	1:B:634:GLU:CD	2.30	0.57
1:B:1257:SER:HB3	1:B:1287:TYR:CE1	2.40	0.57
1:D:1024:TRP:O	1:D:1028:TYR:HD1	1.87	0.57
1:D:1125:SER:HB3	1:D:1185:ILE:HG23	1.86	0.57
1:D:1256:ARG:HA	1:D:1261:ASP:HA	1.87	0.57
1:A:1203:ASP:O	1:A:1207:MET:HB2	2.03	0.57
1:C:139:PHE:HB2	1:C:183:LEU:HB2	1.86	0.57
1:D:658:SER:OG	1:D:690:MET:SD	2.58	0.57
1:D:1356:ASP:OD2	1:D:1388:HIS:ND1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1203:ASP:O	1:A:1207:MET:CB	2.53	0.56
1:B:509:ARG:HH21	1:B:521:PHE:HB2	1.69	0.56
1:C:35:SER:HB2	1:C:87:THR:HA	1.87	0.56
1:C:68:PHE:CZ	1:C:81:ASN:HB2	2.40	0.56
1:C:806:LEU:HD21	1:C:881:ARG:CZ	2.34	0.56
1:D:138:ARG:NH2	1:D:725:THR:OG1	2.37	0.56
1:D:364:LEU:HB3	1:D:366:LYS:HZ3	1.70	0.56
1:A:1190:LEU:HD11	1:A:1214:LEU:CD1	2.35	0.56
1:A:1309:VAL:HG12	1:A:1434:PHE:CE2	2.40	0.56
1:C:55:SER:OG	1:C:99:SER:HB3	2.05	0.56
1:C:136:LYS:HG2	1:C:186:PRO:HA	1.86	0.56
1:D:158:VAL:HA	1:D:199:THR:O	2.05	0.56
1:D:536:GLU:OE1	1:D:538:ILE:HG13	2.05	0.56
1:A:89:ILE:HG13	1:A:90:THR:HG23	1.85	0.56
1:B:98:LEU:HB2	1:B:109:ASP:HB2	1.88	0.56
1:B:575:THR:OG1	1:B:746:PRO:O	2.21	0.56
1:C:138:ARG:HB3	1:C:728:TRP:CE2	2.40	0.56
1:C:581:LEU:HB3	1:C:741:ILE:HB	1.86	0.56
1:C:969:ILE:HA	1:C:972:VAL:HG12	1.87	0.56
1:D:779:PRO:HB2	1:D:881:ARG:HH21	1.70	0.56
1:D:780:PHE:HB2	1:D:881:ARG:NH2	2.20	0.56
1:D:917:ILE:HG22	1:D:1287:TYR:H	1.70	0.56
1:D:1218:GLN:NE2	1:D:1222:GLY:O	2.28	0.56
1:A:1421:VAL:HG13	1:A:1437:TYR:HE2	1.70	0.56
1:B:59:GLU:OE2	1:B:97:THR:HG23	2.06	0.56
1:B:154:LYS:HD3	1:B:155:TYR:H	1.70	0.56
1:B:962:ASN:OD1	1:B:965:ARG:NH2	2.38	0.56
1:D:358:LYS:HE3	1:D:455:PHE:HB3	1.88	0.56
1:A:124:ILE:HA	1:A:140:ARG:O	2.05	0.56
1:A:557:GLU:HG3	1:A:559:CYS:HB3	1.86	0.56
1:B:247:TYR:CD2	1:B:253:VAL:HG22	2.41	0.56
1:B:458:ILE:HD12	1:B:552:ILE:HG12	1.86	0.56
1:B:458:ILE:HG12	1:B:475:VAL:HG22	1.88	0.56
1:B:939:ASP:HB2	1:B:1272:ARG:HG2	1.88	0.56
1:C:446:MET:HE2	1:C:662:GLU:HG2	1.88	0.56
1:C:796:LEU:HA	1:C:1413:VAL:HG23	1.87	0.56
1:C:962:ASN:OD1	1:C:1000:ARG:NE	2.33	0.56
1:C:991:VAL:HG13	1:C:1040:ILE:HG22	1.87	0.56
1:D:348:PHE:HE2	1:D:443:HIS:HB2	1.69	0.56
1:C:59:GLU:OE1	1:C:97:THR:HG23	2.06	0.56
1:C:386:LEU:HG	1:C:416:PHE:CE2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:478:ILE:CD1	1:C:518:SER:HB2	2.36	0.56
1:C:783:GLU:HG2	1:C:801:PHE:HB2	1.86	0.56
1:D:162:ASP:HA	1:D:196:TYR:CD1	2.40	0.56
1:D:1031:LYS:HE3	1:D:1091:ALA:HA	1.87	0.56
1:A:264:GLU:HG3	1:A:313:GLN:NE2	2.20	0.56
1:B:751:LYS:HB3	1:B:753:GLN:HE22	1.69	0.56
1:B:1356:ASP:OD2	1:B:1388:HIS:ND1	2.39	0.56
1:C:219:LEU:HG	1:C:719:ARG:HA	1.88	0.56
1:A:684:LYS:NZ	1:A:686:VAL:HG13	2.20	0.56
1:B:935:THR:HB	1:B:1300:GLN:HB2	1.88	0.56
1:C:478:ILE:HD12	1:C:518:SER:HB2	1.87	0.56
1:D:561:GLN:OE1	1:D:763:GLU:HB3	2.06	0.56
1:D:1399:LYS:HE2	1:D:1401:ILE:HD11	1.86	0.56
1:A:428:CYS:SG	1:C:275:CYS:HB2	2.46	0.56
1:A:449:TYR:CE2	1:A:685:PRO:HD2	2.41	0.56
1:A:500:ARG:NE	1:A:530:ASP:O	2.38	0.56
1:A:1037:LYS:NZ	1:A:1042:VAL:H	2.02	0.56
1:C:125:GLN:OE1	1:C:140:ARG:HD2	2.06	0.56
1:D:40:ARG:HH12	1:D:82:LYS:HG2	1.69	0.56
1:D:55:SER:O	1:D:98:LEU:HD12	2.06	0.56
1:A:1140:ARG:NH2	1:A:1197:SER:H	2.04	0.56
1:A:1254:PHE:HA	1:A:1263:GLY:O	2.05	0.56
1:B:34:LYS:H	1:B:39:GLN:NE2	2.04	0.56
1:B:98:LEU:O	1:B:108:LYS:HA	2.06	0.56
1:C:48:TYR:CZ	1:C:75:PRO:HA	2.40	0.56
1:C:528:THR:H	1:C:531:LEU:HD12	1.70	0.56
1:C:865:HIS:NE2	1:C:874:SER:OG	2.25	0.56
1:A:129:PRO:HG2	1:A:604:ASN:HD21	1.71	0.55
1:A:325:GLU:H	1:A:840:ARG:HH22	1.53	0.55
1:A:1101:MET:SD	1:A:1103:LEU:HD13	2.46	0.55
1:B:358:LYS:HD2	1:B:455:PHE:CE1	2.41	0.55
1:B:1121:LEU:HA	1:B:1124:LYS:HB2	1.88	0.55
1:C:346:LEU:HD12	1:C:368:ILE:C	2.31	0.55
1:D:58:LEU:HB3	1:D:65:ILE:HD13	1.88	0.55
1:D:271:ARG:HH21	1:D:275:CYS:HB3	1.71	0.55
1:D:323:THR:HG22	1:D:330:GLN:HB3	1.88	0.55
1:D:359:ARG:NE	1:D:410:SER:H	2.03	0.55
1:D:452:THR:HG22	1:D:546:GLU:CD	2.31	0.55
1:A:380:GLU:HB3	1:A:422:TYR:CE1	2.42	0.55
1:A:1256:ARG:NH1	1:A:1261:ASP:O	2.39	0.55
1:A:1268:SER:O	1:A:1272:ARG:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:VAL:O	1:A:184:GLU:HA	2.05	0.55
1:A:533:PRO:HA	1:A:556:ILE:HB	1.89	0.55
1:B:48:TYR:CZ	1:B:75:PRO:HA	2.41	0.55
1:C:495:TYR:CE1	1:C:537:LEU:HD11	2.42	0.55
1:C:933:PHE:CE1	1:C:1279:GLN:HG2	2.41	0.55
1:D:542:ILE:HD13	1:D:547:LEU:HD22	1.89	0.55
1:D:1347:ARG:NE	1:D:1431:GLU:OE1	2.37	0.55
1:A:1128:VAL:O	1:A:1132:THR:HG23	2.06	0.55
1:B:156:THR:OG1	1:B:201:GLU:OE1	2.25	0.55
1:B:996:GLU:HB3	1:B:1000:ARG:NH1	2.21	0.55
1:B:1259:TYR:OH	1:B:1287:TYR:OH	2.20	0.55
1:C:23:VAL:HG22	1:C:48:TYR:HB3	1.88	0.55
1:C:649:CYS:SG	1:C:650:LYS:N	2.80	0.55
1:D:466:ASN:OD1	1:D:467:CYS:N	2.39	0.55
1:A:357:TYR:CD1	1:A:445:VAL:HG23	2.38	0.55
1:A:1124:LYS:O	1:A:1128:VAL:HG23	2.06	0.55
1:C:484:MET:HE2	1:C:543:LEU:HD23	1.89	0.55
1:D:215:ASP:OD1	1:D:216:GLU:N	2.40	0.55
1:D:382:VAL:HG12	1:D:422:TYR:HD1	1.70	0.55
1:D:1051:LEU:HG	1:D:1055:GLN:HE22	1.72	0.55
1:A:510:ASP:OD1	1:A:511:VAL:N	2.38	0.55
1:C:1066:LYS:NZ	1:C:1067:ALA:O	2.35	0.55
1:C:1124:LYS:HG3	1:C:1147:LEU:HD11	1.89	0.55
1:C:1137:TRP:O	1:C:1141:ASN:ND2	2.38	0.55
1:D:993:PHE:HA	1:D:996:GLU:OE2	2.06	0.55
1:A:329:ILE:HG13	1:A:1414:LEU:H	1.72	0.55
1:A:681:LYS:HD2	1:A:683:ARG:O	2.07	0.55
1:B:385:GLU:N	1:B:385:GLU:OE1	2.40	0.55
1:B:624:PHE:HZ	1:B:698:ARG:HH12	1.54	0.55
1:C:147:MET:HA	1:C:500:ARG:HH22	1.72	0.55
1:C:1297:CYS:SG	1:C:1298:LEU:N	2.80	0.55
1:D:457:ASP:OD1	1:D:476:ARG:HB3	2.06	0.55
1:D:597:ASP:OD1	1:D:598:SER:N	2.40	0.55
1:D:969:ILE:HG23	1:D:970:PRO:HD3	1.88	0.55
1:D:1380:SER:O	1:D:1381:LYS:HD3	2.06	0.55
1:B:646:VAL:HA	1:B:655:LEU:HG	1.88	0.55
1:C:359:ARG:HH21	1:C:410:SER:HA	1.71	0.55
1:C:545:LEU:O	1:C:680:SER:HB2	2.06	0.55
1:C:1170:GLY:O	1:C:1175:TYR:N	2.39	0.55
1:D:598:SER:O	1:D:602:LEU:HG	2.06	0.55
1:A:527:VAL:HG23	1:A:531:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:896:ILE:HG23	1:C:898:LYS:HE3	1.89	0.55
1:D:57:VAL:HA	1:D:65:ILE:O	2.07	0.55
1:A:643:PRO:HA	1:A:657:VAL:HG11	1.87	0.55
1:C:356:PHE:HA	1:C:446:MET:O	2.06	0.55
1:D:67:ILE:HD12	1:D:67:ILE:H	1.72	0.55
1:D:1215:ILE:HD11	1:D:1298:LEU:HD13	1.86	0.55
1:D:1366:ASP:OD1	1:D:1369:SER:N	2.29	0.55
1:A:590:LEU:HA	1:A:732:SER:HA	1.89	0.54
1:A:1111:LEU:O	1:A:1115:MET:HG2	2.07	0.54
1:A:261:CYS:HA	1:A:317:GLY:O	2.07	0.54
1:A:272:LYS:N	1:C:430:TYR:HB2	2.22	0.54
1:A:827:GLN:HE22	1:A:844:SER:C	2.12	0.54
1:A:1203:ASP:OD1	1:A:1204:LEU:N	2.40	0.54
1:B:446:MET:SD	1:B:447:ARG:N	2.80	0.54
1:B:897:ARG:NH2	1:B:929:SER:OG	2.40	0.54
1:B:969:ILE:HA	1:B:972:VAL:HG12	1.88	0.54
1:C:265:ALA:HB1	1:C:311:GLY:HA2	1.89	0.54
1:C:537:LEU:HB3	1:C:552:ILE:HG22	1.89	0.54
1:D:226:VAL:HG22	1:D:228:PRO:HD3	1.88	0.54
1:D:1405:PHE:C	1:D:1406:LYS:HD3	2.32	0.54
1:A:785:SER:OG	1:A:799:LYS:HB3	2.06	0.54
1:B:196:TYR:O	1:B:212:PHE:N	2.40	0.54
1:B:449:TYR:HB3	1:B:664:ASP:OD1	2.07	0.54
1:B:892:GLN:NE2	1:B:1306:ASN:HD21	2.03	0.54
1:B:1326:ASN:HD21	1:B:1334:THR:HB	1.72	0.54
1:C:558:LYS:HZ2	1:C:615:TYR:HD2	1.54	0.54
1:C:1004:TYR:HE1	1:C:1015:TRP:HD1	1.56	0.54
1:C:1099:SER:HA	1:C:1104:LEU:HD23	1.88	0.54
1:C:1363:TYR:HA	1:C:1410:GLY:N	2.21	0.54
1:D:342:GLN:NE2	1:D:431:THR:HA	2.23	0.54
1:A:290:LEU:HB2	1:A:295:ALA:H	1.73	0.54
1:A:786:LEU:HB3	1:A:798:MET:HE1	1.89	0.54
1:A:1221:TYR:HE2	1:A:1225:ARG:HH12	1.54	0.54
1:B:1031:LYS:NZ	1:B:1094:GLU:HG3	2.21	0.54
1:C:262:CYS:HB3	1:C:283:CYS:HA	1.89	0.54
1:C:382:VAL:HG12	1:C:422:TYR:HD1	1.72	0.54
1:C:1170:GLY:HA2	1:C:1174:TYR:HB3	1.87	0.54
1:D:597:ASP:OD1	1:D:599:SER:N	2.30	0.54
1:A:263:ARG:NE	1:A:315:SER:O	2.41	0.54
1:B:349:ASP:OD1	1:B:349:ASP:N	2.38	0.54
1:C:658:SER:O	1:C:690:MET:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1071:LEU:HD21	1:A:1074:ARG:HA	1.90	0.54
1:B:665:THR:HA	1:B:668:ASN:OD1	2.07	0.54
1:C:348:PHE:HB3	1:C:353:LEU:HD22	1.89	0.54
1:C:351:ASP:OD1	1:C:352:ALA:N	2.38	0.54
1:C:500:ARG:HG3	1:C:501:ALA:H	1.72	0.54
1:D:494:TYR:HB2	1:D:540:TYR:CZ	2.42	0.54
1:D:500:ARG:HE	1:D:532:ALA:HB2	1.73	0.54
1:D:958:CYS:H	1:D:961:GLN:HB2	1.72	0.54
1:A:653:TYR:CB	1:B:657:VAL:HG12	2.38	0.54
1:A:745:VAL:O	1:A:748:THR:HG23	2.07	0.54
1:A:939:ASP:O	1:A:941:LEU:N	2.33	0.54
1:A:1016:SER:O	1:A:1019:SER:OG	2.19	0.54
1:B:811:LYS:H	1:B:865:HIS:HA	1.72	0.54
1:C:654:TYR:HE1	1:D:656:PRO:HG3	1.72	0.54
1:C:756:MET:HE1	1:C:758:CYS:HB2	1.89	0.54
1:D:263:ARG:HH22	1:D:314:MET:N	2.06	0.54
1:A:274:ASN:H	1:C:430:TYR:N	2.05	0.54
1:B:232:ILE:O	1:B:340:THR:N	2.34	0.54
1:B:357:TYR:CZ	1:B:447:ARG:HB2	2.42	0.54
1:D:904:ASN:OD1	1:D:1216:GLN:NE2	2.30	0.54
1:A:119:ASN:O	1:A:145:ASN:ND2	2.41	0.54
1:A:322:VAL:O	1:A:330:GLN:HG3	2.08	0.54
1:A:361:ILE:HG21	1:A:455:PHE:HZ	1.73	0.54
1:A:1419:ALA:HB3	1:A:1437:TYR:CE1	2.43	0.54
1:B:45:LEU:O	1:B:77:TYR:N	2.38	0.54
1:B:792:ARG:HH11	1:B:852:LEU:HG	1.72	0.54
1:B:1009:GLY:HA2	1:B:1049:GLN:HE21	1.73	0.54
1:C:1086:ALA:O	1:C:1090:ILE:HG12	2.07	0.54
1:D:171:TRP:HB3	1:D:174:GLN:NE2	2.23	0.54
1:D:807:GLU:CD	1:D:807:GLU:H	2.16	0.54
1:A:1055:GLN:HG2	1:D:95:PHE:HZ	1.73	0.54
1:B:1065:PHE:HB2	1:B:1085:THR:HG22	1.90	0.54
1:B:1255:LEU:O	1:B:1262:VAL:N	2.30	0.54
1:C:459:GLN:N	1:C:476:ARG:HH12	2.05	0.54
1:C:963:LEU:HD13	1:C:966:MET:HB2	1.90	0.54
1:C:1332:ALA:HB3	1:C:1335:ILE:HD11	1.89	0.54
1:C:1355:ILE:HG22	1:C:1423:VAL:HG13	1.89	0.54
1:A:272:LYS:C	1:C:430:TYR:H	2.17	0.53
1:A:326:GLY:O	1:A:799:LYS:NZ	2.26	0.53
1:A:1137:TRP:CD1	1:A:1137:TRP:H	2.26	0.53
1:B:366:LYS:HA	1:B:402:ALA:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1090:ILE:HD12	1:B:1129:TYR:HD2	1.73	0.53
1:B:1138:GLU:HG2	1:B:1139:ILE:H	1.73	0.53
1:B:1378:GLN:HG3	1:B:1403:LEU:HD11	1.88	0.53
1:C:119:ASN:OD1	1:C:120:THR:N	2.34	0.53
1:C:611:ALA:HB2	1:C:767:ILE:HG21	1.90	0.53
1:C:1191:LEU:O	1:C:1195:LYS:HG2	2.08	0.53
1:D:30:PRO:HD3	1:D:503:ILE:HD11	1.89	0.53
1:D:139:PHE:HB2	1:D:183:LEU:H	1.73	0.53
1:D:865:HIS:HD1	1:D:865:HIS:H	1.54	0.53
1:D:923:GLU:HG3	1:D:924:ASN:H	1.73	0.53
1:D:1357:ILE:HD12	1:D:1420:SER:O	2.08	0.53
1:A:320:LEU:HB2	1:A:333:HIS:HB3	1.91	0.53
1:A:324:GLU:HB2	1:A:327:THR:O	2.08	0.53
1:A:1367:TYR:HA	1:A:1370:LEU:HD12	1.90	0.53
1:B:51:PRO:HA	1:B:72:VAL:O	2.08	0.53
1:B:346:LEU:HA	1:B:368:ILE:O	2.07	0.53
1:B:417:THR:HA	1:B:444:PHE:HA	1.89	0.53
1:B:688:CYS:HA	1:B:691:GLU:OE2	2.06	0.53
1:B:1086:ALA:HA	1:B:1111:LEU:HD21	1.90	0.53
1:C:664:ASP:CG	1:C:666:TYR:HB3	2.33	0.53
1:C:1130:VAL:O	1:C:1134:VAL:HG22	2.07	0.53
1:D:1363:TYR:HA	1:D:1410:GLY:N	2.23	0.53
1:A:27:LEU:HA	1:A:43:VAL:HG22	1.89	0.53
1:A:256:SER:N	1:A:323:THR:OG1	2.26	0.53
1:A:430:TYR:OH	1:C:271:ARG:O	2.22	0.53
1:D:495:TYR:CZ	1:D:537:LEU:HD11	2.43	0.53
1:D:948:LEU:O	1:D:965:ARG:HG2	2.08	0.53
1:D:1363:TYR:CD1	1:D:1409:ILE:HA	2.43	0.53
1:A:379:ASN:HA	1:A:396:THR:HG22	1.89	0.53
1:A:807:GLU:HA	1:A:837:SER:HB2	1.89	0.53
1:B:568:PHE:HD1	1:B:581:LEU:HD11	1.73	0.53
1:B:681:LYS:NZ	1:B:685:PRO:HD3	2.23	0.53
1:D:172:GLN:O	1:D:174:GLN:NE2	2.42	0.53
1:D:302:LEU:HA	1:D:305:PHE:HD2	1.73	0.53
1:D:664:ASP:OD1	1:D:667:GLN:N	2.36	0.53
1:A:108:LYS:HZ3	1:A:110:ARG:HB2	1.73	0.53
1:A:226:VAL:HG12	1:A:243:VAL:HG13	1.91	0.53
1:A:379:ASN:HB3	1:A:395:LEU:HD12	1.91	0.53
1:A:1190:LEU:HD23	1:A:1210:ILE:HD12	1.90	0.53
1:A:1378:GLN:HE22	1:A:1395:ALA:HB3	1.72	0.53
1:A:1430:GLY:O	1:A:1432:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:144:LEU:HD21	1:D:148:LEU:HA	1.89	0.53
1:D:264:GLU:OE2	1:D:267:SER:N	2.42	0.53
1:D:309:GLN:H	1:D:312:PHE:HE2	1.56	0.53
1:D:1269:GLU:CD	1:D:1272:ARG:HE	2.17	0.53
1:D:1378:GLN:HG3	1:D:1403:LEU:HD11	1.89	0.53
1:A:135:CYS:O	1:A:187:LEU:HG	2.09	0.53
1:A:610:SER:OG	1:A:612:SER:OG	2.24	0.53
1:C:1121:LEU:HD23	1:C:1185:ILE:HD13	1.90	0.53
1:D:27:LEU:O	1:D:676:LEU:HD13	2.08	0.53
1:A:272:LYS:NZ	1:C:234:ILE:HG22	2.22	0.53
1:A:381:GLN:NE2	1:A:393:ALA:HA	2.23	0.53
1:A:653:TYR:HB3	1:B:657:VAL:HG12	1.91	0.53
1:B:24:GLN:NE2	1:B:25:TYR:H	2.06	0.53
1:B:100:VAL:HG12	1:B:107:ILE:H	1.73	0.53
1:B:351:ASP:OD1	1:B:352:ALA:N	2.37	0.53
1:B:903:SER:HB2	1:B:1216:GLN:HA	1.89	0.53
1:B:963:LEU:HD11	1:B:1029:THR:HG22	1.91	0.53
1:D:29:ILE:O	1:D:674:LEU:HG	2.09	0.53
1:D:40:ARG:HG3	1:D:503:ILE:O	2.09	0.53
1:D:716:GLU:HB2	1:D:719:ARG:HH12	1.73	0.53
1:D:1092:LEU:HB2	1:D:1104:LEU:HD13	1.90	0.53
1:A:327:THR:HG23	1:A:801:PHE:CZ	2.44	0.53
1:A:961:GLN:NE2	1:A:962:ASN:OD1	2.42	0.53
1:A:1360:LEU:HD23	1:A:1361:SER:HB3	1.91	0.53
1:B:55:SER:OG	1:B:99:SER:HB2	2.09	0.53
1:B:147:MET:HE3	1:B:148:LEU:HD23	1.91	0.53
1:C:159:TYR:OH	1:C:167:ARG:NH2	2.42	0.53
1:C:1201:HIS:HA	1:C:1204:LEU:HG	1.91	0.53
1:D:145:ASN:ND2	1:D:149:LEU:HD12	2.23	0.53
1:A:1049:GLN:HA	1:A:1052:LEU:HD12	1.90	0.53
1:B:618:ILE:HG22	1:B:621:LEU:HD11	1.90	0.53
1:B:794:GLU:HG3	1:B:1415:ASN:HB3	1.90	0.53
1:B:905:LEU:HD21	1:B:1215:ILE:HD13	1.90	0.53
1:B:914:GLU:OE1	1:B:1256:ARG:NH1	2.42	0.53
1:C:379:ASN:HA	1:C:396:THR:HG22	1.89	0.53
1:C:795:ILE:HG13	1:C:848:ILE:HD13	1.90	0.53
1:C:936:PHE:CE1	1:C:1299:VAL:HG22	2.44	0.53
1:D:419:VAL:HA	1:D:442:GLN:HA	1.91	0.53
1:D:729:ARG:HH11	1:D:741:ILE:HG23	1.72	0.53
1:D:1130:VAL:O	1:D:1134:VAL:HG22	2.09	0.53
1:A:876:GLN:HB3	1:A:881:ARG:NH1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1128:VAL:HG21	1:C:1147:LEU:HD12	1.91	0.53
1:A:188:ILE:HG23	1:A:191:ALA:HB2	1.91	0.52
1:A:867:GLY:HA2	1:A:873:PRO:HA	1.91	0.52
1:A:1037:LYS:HE2	1:A:1042:VAL:HG12	1.89	0.52
1:A:1371:ARG:O	1:A:1374:GLU:HG3	2.09	0.52
1:B:533:PRO:HA	1:B:556:ILE:HB	1.91	0.52
1:B:594:LYS:HZ3	1:B:596:ILE:HB	1.73	0.52
1:B:915:MET:SD	1:B:1289:ILE:HG13	2.49	0.52
1:C:365:VAL:O	1:C:403:GLU:HA	2.08	0.52
1:C:626:TYR:OH	1:C:674:LEU:O	2.24	0.52
1:A:273:GLY:H	1:C:430:TYR:C	2.10	0.52
1:A:1151:VAL:HG21	1:A:1158:LEU:HD23	1.91	0.52
1:B:193:PRO:HB3	1:B:215:ASP:HA	1.91	0.52
1:B:729:ARG:NH2	1:B:741:ILE:HG23	2.24	0.52
1:B:991:VAL:HA	1:B:994:LEU:HD12	1.90	0.52
1:C:1176:PRO:HB3	1:C:1178:TYR:CE1	2.45	0.52
1:D:495:TYR:CZ	1:D:523:ILE:HG12	2.45	0.52
1:D:795:ILE:HG12	1:D:1415:ASN:HD22	1.74	0.52
1:A:133:PRO:HD3	1:A:216:GLU:OE1	2.09	0.52
1:A:538:ILE:HB	1:A:551:THR:HB	1.91	0.52
1:A:568:PHE:HE1	1:A:571:ASP:HB2	1.75	0.52
1:A:897:ARG:HE	1:A:1304:ARG:HG3	1.75	0.52
1:B:852:LEU:HA	1:B:891:VAL:HG13	1.91	0.52
1:B:1218:GLN:HA	1:B:1224:PHE:HD1	1.74	0.52
1:C:32:LEU:HD13	1:C:623:LEU:HD11	1.90	0.52
1:C:288:GLY:HA3	1:C:296:PHE:CE1	2.45	0.52
1:C:938:GLY:HA3	1:C:1272:ARG:HA	1.90	0.52
1:D:989:THR:O	1:D:993:PHE:HD1	1.92	0.52
1:D:1136:ASN:HB2	1:D:1140:ARG:HD2	1.89	0.52
1:A:256:SER:OG	1:A:288:GLY:O	2.22	0.52
1:B:264:GLU:CD	1:B:265:ALA:H	2.18	0.52
1:B:500:ARG:NE	1:B:532:ALA:HB2	2.23	0.52
1:C:100:VAL:HB	1:C:107:ILE:HB	1.91	0.52
1:C:123:LEU:HD21	1:C:609:LEU:HA	1.92	0.52
1:D:496:LEU:O	1:D:537:LEU:HD12	2.09	0.52
1:D:668:ASN:OD1	1:D:669:LEU:N	2.42	0.52
1:D:793:GLU:O	1:D:1417:LYS:NZ	2.38	0.52
1:A:28:THR:HA	1:A:674:LEU:HD21	1.91	0.52
1:A:45:LEU:O	1:A:76:HIS:C	2.53	0.52
1:A:684:LYS:NZ	1:A:685:PRO:HG2	2.23	0.52
1:A:832:ASP:OD1	1:A:832:ASP:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1181:ALA:O	1:A:1184:GLU:HG2	2.10	0.52
1:C:984:ASP:N	1:C:984:ASP:OD1	2.43	0.52
1:C:1347:ARG:NH2	1:C:1431:GLU:OE1	2.42	0.52
1:A:498:MET:HG2	1:A:502:LYS:C	2.34	0.52
1:A:684:LYS:HZ3	1:A:685:PRO:HG2	1.74	0.52
1:B:359:ARG:NH2	1:B:410:SER:HA	2.25	0.52
1:C:970:PRO:HB3	1:C:1039:TYR:HE2	1.75	0.52
1:C:1126:TYR:HE1	1:C:1188:TYR:CZ	2.28	0.52
1:D:123:LEU:HB2	1:D:142:ILE:CG1	2.39	0.52
1:D:370:THR:OG1	1:D:375:ASN:N	2.42	0.52
1:D:749:ILE:HG23	1:D:777:PHE:HA	1.90	0.52
1:D:1132:THR:HG21	1:D:1192:SER:HA	1.91	0.52
1:A:1425:ASP:OD1	1:A:1425:ASP:N	2.42	0.52
1:B:384:VAL:HG23	1:B:420:VAL:HG22	1.90	0.52
1:B:454:SER:HB3	1:B:548:ILE:HD13	1.92	0.52
1:C:1219:ASN:ND2	1:C:1223:GLY:O	2.43	0.52
1:A:134:GLY:HA2	1:A:187:LEU:C	2.35	0.52
1:A:1186:THR:O	1:A:1190:LEU:HG	2.10	0.52
1:B:25:TYR:CZ	1:B:678:THR:HA	2.45	0.52
1:B:962:ASN:HA	1:B:965:ARG:HH21	1.75	0.52
1:B:1065:PHE:HZ	1:B:1106:ASP:HB3	1.74	0.52
1:C:806:LEU:HD11	1:C:881:ARG:HH22	1.75	0.52
1:C:1074:ARG:HD2	1:C:1351:ASN:HA	1.92	0.52
1:D:971:TYR:HA	1:D:974:GLU:OE1	2.10	0.52
1:A:266:SER:OG	1:A:267:SER:N	2.43	0.52
1:A:398:LYS:NZ	1:A:399:GLU:OE2	2.33	0.52
1:A:538:ILE:HD11	1:A:549:ALA:HB1	1.90	0.52
1:A:600:LEU:HA	1:A:603:ILE:HG22	1.91	0.52
1:A:1231:VAL:O	1:A:1235:GLN:HG3	2.09	0.52
1:B:1379:VAL:HG12	1:B:1393:LEU:HD21	1.92	0.52
1:C:25:TYR:CE2	1:C:678:THR:HA	2.45	0.52
1:C:323:THR:HG22	1:C:330:GLN:HB3	1.92	0.52
1:C:366:LYS:HG3	1:C:403:GLU:HB3	1.92	0.52
1:C:952:LEU:HG	1:C:954:MET:H	1.74	0.52
1:D:364:LEU:HD12	1:D:366:LYS:HZ1	1.75	0.52
1:D:1099:SER:HA	1:D:1104:LEU:HD23	1.91	0.52
1:A:239:LEU:HB3	1:A:300:VAL:HB	1.92	0.52
1:A:957:GLY:N	1:A:962:ASN:HD21	2.08	0.52
1:B:652:ARG:CD	1:B:653:TYR:H	2.16	0.52
1:B:1381:LYS:HG3	1:B:1392:TYR:CD1	2.45	0.52
1:C:572:LEU:HB3	1:C:777:PHE:HE1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:148:LEU:HG	1:D:764:GLY:HA3	1.92	0.52
1:D:270:GLY:HA2	1:D:274:ASN:O	2.09	0.52
1:A:161:GLU:OE2	1:A:167:ARG:NH1	2.43	0.51
1:A:355:GLU:O	1:A:446:MET:N	2.43	0.51
1:A:361:ILE:HG13	1:A:455:PHE:CE1	2.45	0.51
1:A:430:TYR:CE2	1:C:274:ASN:HA	2.45	0.51
1:A:877:SER:OG	1:A:878:GLN:N	2.42	0.51
1:B:307:MET:HA	1:B:312:PHE:CZ	2.44	0.51
1:C:234:ILE:HD11	1:C:307:MET:HA	1.91	0.51
1:C:344:ALA:HA	1:C:370:THR:O	2.10	0.51
1:C:1186:THR:HB	1:C:1214:LEU:HD21	1.92	0.51
1:D:797:VAL:HG12	1:D:846:ASN:OD1	2.10	0.51
1:A:234:ILE:HD11	1:A:308:GLY:N	2.24	0.51
1:A:1025:LEU:O	1:A:1029:THR:HG23	2.10	0.51
1:B:856:SER:HA	1:B:887:GLN:O	2.10	0.51
1:B:1373:LEU:HG	1:B:1379:VAL:HG21	1.93	0.51
1:D:894:GLU:O	1:D:926:VAL:HG21	2.10	0.51
1:D:1213:TRP:CE3	1:D:1214:LEU:HD22	2.41	0.51
1:A:368:ILE:HG12	1:A:401:ARG:NH2	2.20	0.51
1:A:592:GLY:O	1:A:756:MET:HB2	2.11	0.51
1:A:933:PHE:HD2	1:A:1277:ARG:NH2	2.08	0.51
1:A:1423:VAL:O	1:A:1432:ASN:HB2	2.10	0.51
1:B:802:VAL:HG12	1:B:841:SER:HB2	1.93	0.51
1:B:821:ASP:OD1	1:B:821:ASP:N	2.43	0.51
1:C:193:PRO:HA	1:C:214:VAL:HG13	1.93	0.51
1:C:572:LEU:HA	1:C:775:THR:O	2.10	0.51
1:C:825:ILE:HD11	1:C:848:ILE:HB	1.92	0.51
1:C:1224:PHE:HD2	1:C:1230:THR:HA	1.75	0.51
1:D:100:VAL:O	1:D:100:VAL:HG12	2.09	0.51
1:D:232:ILE:O	1:D:340:THR:N	2.30	0.51
1:A:792:ARG:HA	1:A:849:ALA:HB3	1.92	0.51
1:A:959:GLY:HA2	1:A:1000:ARG:NH1	2.24	0.51
1:A:1150:LYS:HB2	1:A:1160:TRP:HE1	1.75	0.51
1:A:1219:ASN:HD22	1:A:1224:PHE:HA	1.76	0.51
1:B:1218:GLN:HE22	1:B:1222:GLY:HA2	1.74	0.51
1:D:541:CYS:HB3	1:D:548:ILE:HD11	1.90	0.51
1:D:1200:THR:OG1	1:D:1202:ASP:OD2	2.29	0.51
1:A:259:ILE:HD12	1:A:319:ALA:O	2.11	0.51
1:C:39:GLN:NE2	1:C:85:VAL:HB	2.24	0.51
1:C:640:CYS:SG	1:C:641:GLU:N	2.83	0.51
1:D:28:THR:OG1	1:D:42:CYS:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:937:VAL:HG22	1:D:1298:LEU:HB3	1.92	0.51
1:D:999:TYR:HA	1:D:1002:LEU:HD12	1.92	0.51
1:D:1332:ALA:HB3	1:D:1335:ILE:HD11	1.92	0.51
1:A:247:TYR:CZ	1:A:253:VAL:HG13	2.46	0.51
1:A:272:LYS:H	1:C:430:TYR:C	2.13	0.51
1:A:273:GLY:N	1:C:430:TYR:H	2.08	0.51
1:A:568:PHE:CE2	1:A:772:ALA:HB1	2.46	0.51
1:A:722:PHE:O	1:A:745:VAL:HG21	2.11	0.51
1:A:1250:HIS:O	1:A:1294:THR:N	2.25	0.51
1:A:1374:GLU:HA	1:A:1379:VAL:HG11	1.93	0.51
1:B:370:THR:OG1	1:B:375:ASN:N	2.43	0.51
1:C:575:THR:OG1	1:C:747:ASP:O	2.28	0.51
1:D:815:THR:OG1	1:D:860:SER:O	2.25	0.51
1:D:1318:VAL:HG13	1:D:1435:ALA:HB2	1.92	0.51
1:A:501:ALA:N	1:A:621:LEU:O	2.44	0.51
1:A:983:THR:O	1:A:987:LEU:HG	2.11	0.51
1:B:568:PHE:HA	1:B:581:LEU:HD13	1.92	0.51
1:B:597:ASP:OD1	1:B:599:SER:N	2.30	0.51
1:B:1129:TYR:OH	1:B:1195:LYS:HE3	2.10	0.51
1:D:110:ARG:C	1:D:111:LYS:HD3	2.36	0.51
1:D:1309:VAL:HG12	1:D:1311:LYS:HG2	1.92	0.51
1:A:396:THR:HG23	1:A:398:LYS:H	1.76	0.51
1:A:933:PHE:HB2	1:A:1277:ARG:NH2	2.25	0.51
1:A:1107:ALA:O	1:A:1111:LEU:HG	2.10	0.51
1:B:1173:LEU:HD22	1:B:1431:GLU:HA	1.92	0.51
1:D:68:PHE:CZ	1:D:81:ASN:HB2	2.46	0.51
1:D:904:ASN:O	1:D:1298:LEU:HD12	2.11	0.51
1:B:684:LYS:HD3	1:B:685:PRO:HD2	1.92	0.51
1:C:913:VAL:O	1:C:1290:SER:HA	2.11	0.51
1:D:1005:LYS:HA	1:D:1011:TYR:CE1	2.46	0.51
1:D:1138:GLU:OE1	1:D:1138:GLU:N	2.44	0.51
1:A:39:GLN:NE2	1:A:40:ARG:O	2.44	0.51
1:A:459:GLN:OE1	1:A:459:GLN:N	2.44	0.51
1:A:504:VAL:HG13	1:A:505:GLN:HG3	1.93	0.51
1:C:232:ILE:HD13	1:C:239:LEU:HD12	1.92	0.51
1:D:371:ASP:OD1	1:D:375:ASN:HB2	2.11	0.51
1:D:969:ILE:HA	1:D:972:VAL:HG12	1.93	0.51
1:D:1357:ILE:HD13	1:D:1421:VAL:HG22	1.93	0.51
1:A:1056:THR:O	1:A:1059:LYS:HG2	2.11	0.50
1:A:1309:VAL:HG22	1:A:1310:PRO:HD3	1.93	0.50
1:C:188:ILE:HG13	1:C:190:ASP:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:459:GLN:H	1:C:476:ARG:HH12	1.58	0.50
1:C:684:LYS:NZ	1:C:686:VAL:HG22	2.26	0.50
1:C:836:CYS:SG	1:C:837:SER:N	2.82	0.50
1:C:1366:ASP:OD1	1:C:1369:SER:N	2.37	0.50
1:D:172:GLN:N	1:D:174:GLN:HE22	2.09	0.50
1:D:483:GLY:CA	1:D:543:LEU:HD13	2.41	0.50
1:D:665:THR:HA	1:D:668:ASN:ND2	2.25	0.50
1:A:134:GLY:H	1:A:187:LEU:HB2	1.76	0.50
1:B:136:LYS:O	1:B:138:ARG:NE	2.44	0.50
1:B:792:ARG:HD2	1:B:852:LEU:HD21	1.92	0.50
1:B:1338:THR:HA	1:B:1403:LEU:O	2.12	0.50
1:C:867:GLY:H	1:C:874:SER:HB2	1.75	0.50
1:C:1081:ASP:O	1:C:1085:THR:HG23	2.10	0.50
1:C:1253:VAL:HG23	1:C:1291:ILE:HG13	1.93	0.50
1:D:159:TYR:HA	1:D:169:ALA:O	2.11	0.50
1:D:198:ILE:HD13	1:D:210:GLN:HB3	1.93	0.50
1:D:627:ASN:HA	1:D:631:PHE:O	2.11	0.50
1:A:984:ASP:OD1	1:A:985:GLU:N	2.44	0.50
1:A:1257:SER:N	1:A:1261:ASP:HB2	2.26	0.50
1:B:162:ASP:OD1	1:B:165:GLY:N	2.44	0.50
1:B:197:THR:HG23	1:B:209:ARG:HH21	1.75	0.50
1:B:1176:PRO:HG2	1:B:1430:GLY:HA3	1.92	0.50
1:C:264:GLU:HB3	1:C:313:GLN:HE22	1.76	0.50
1:D:34:LYS:HB3	1:D:37:GLU:OE2	2.11	0.50
1:D:239:LEU:HB3	1:D:300:VAL:HB	1.93	0.50
1:D:453:GLY:O	1:D:480:SER:CB	2.59	0.50
1:D:465:LEU:HB3	1:D:471:HIS:CE1	2.46	0.50
1:D:1347:ARG:NH1	1:D:1350:THR:HA	2.27	0.50
1:A:24:GLN:CD	1:A:25:TYR:H	2.19	0.50
1:A:332:THR:HA	1:A:1412:ARG:CZ	2.42	0.50
1:A:584:SER:HA	1:A:736:GLU:O	2.11	0.50
1:B:1065:PHE:H	1:B:1085:THR:CG2	2.24	0.50
1:C:665:THR:HB	1:C:682:ILE:HG23	1.94	0.50
1:D:39:GLN:HB2	1:D:83:PHE:CE2	2.46	0.50
1:D:367:VAL:HG23	1:D:402:ALA:HB3	1.93	0.50
1:D:934:VAL:HA	1:D:1300:GLN:O	2.12	0.50
1:D:935:THR:HB	1:D:1300:GLN:HB3	1.92	0.50
1:A:1322:SER:HB2	1:A:1440:PRO:HG3	1.94	0.50
1:B:119:ASN:ND2	1:B:206:GLU:OE2	2.44	0.50
1:B:729:ARG:HH21	1:B:741:ILE:HG23	1.77	0.50
1:C:140:ARG:HB2	1:C:728:TRP:CZ2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:366:LYS:HA	1:C:402:ALA:O	2.11	0.50
1:C:544:ASP:OD1	1:C:544:ASP:N	2.44	0.50
1:C:627:ASN:OD1	1:C:632:ASN:ND2	2.38	0.50
1:C:916:PRO:HA	1:C:1288:SER:HA	1.93	0.50
1:D:38:THR:HA	1:D:83:PHE:O	2.11	0.50
1:D:162:ASP:OD1	1:D:162:ASP:N	2.44	0.50
1:D:382:VAL:HG12	1:D:422:TYR:CD1	2.46	0.50
1:D:535:ALA:H	1:D:556:ILE:CD1	2.25	0.50
1:A:878:GLN:C	1:A:881:ARG:HH21	2.20	0.50
1:A:1108:LEU:HD13	1:A:1111:LEU:HD12	1.94	0.50
1:A:1402:GLN:OE1	1:A:1402:GLN:N	2.45	0.50
1:B:34:LYS:NZ	1:B:619:PRO:O	2.29	0.50
1:B:198:ILE:HD11	1:B:212:PHE:CE1	2.47	0.50
1:B:749:ILE:HG23	1:B:776:SER:O	2.12	0.50
1:C:27:LEU:HD13	1:C:43:VAL:HG12	1.94	0.50
1:C:314:MET:O	1:C:339:ILE:N	2.33	0.50
1:D:343:LEU:O	1:D:372:ALA:N	2.42	0.50
1:A:124:ILE:HG13	1:A:141:LEU:HD13	1.93	0.50
1:A:568:PHE:CD1	1:A:774:PHE:HD1	2.30	0.50
1:B:216:GLU:HG3	1:B:218:ILE:HG23	1.92	0.50
1:B:364:LEU:HB3	1:B:366:LYS:NZ	2.27	0.50
1:B:1065:PHE:CZ	1:B:1106:ASP:HB3	2.46	0.50
1:C:360:GLY:H	1:C:408:THR:C	2.20	0.50
1:C:1029:THR:O	1:C:1032:THR:OG1	2.25	0.50
1:D:537:LEU:HB3	1:D:552:ILE:HG22	1.92	0.50
1:D:589:SER:O	1:D:733:VAL:N	2.41	0.50
1:D:1127:THR:HA	1:D:1130:VAL:HG12	1.94	0.50
1:D:1352:MET:CE	1:D:1394:ASN:HA	2.41	0.50
1:D:1365:ALA:HA	1:D:1407:VAL:HA	1.93	0.50
1:A:122:CYS:HA	1:A:142:ILE:O	2.12	0.50
1:A:140:ARG:HG2	1:A:182:GLN:HG2	1.94	0.50
1:A:200:ALA:O	1:A:207:SER:HA	2.11	0.50
1:A:922:PRO:HG2	1:A:925:ILE:HD11	1.94	0.50
1:B:492:THR:HB	1:B:508:GLN:HE21	1.77	0.50
1:B:496:LEU:HD21	1:B:503:ILE:HG23	1.94	0.50
1:B:572:LEU:HD22	1:B:777:PHE:CD1	2.46	0.50
1:C:268:TYR:HB2	1:C:274:ASN:HB2	1.94	0.50
1:C:793:GLU:O	1:C:1417:LYS:NZ	2.33	0.50
1:D:163:PRO:HD2	1:D:196:TYR:CE1	2.47	0.50
1:D:1347:ARG:HH22	1:D:1351:ASN:H	1.60	0.50
1:A:684:LYS:HD2	1:A:685:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1337:ILE:O	1:B:1404:SER:HA	2.12	0.50
1:C:195:SER:HA	1:C:212:PHE:O	2.12	0.50
1:C:271:ARG:HG2	1:C:272:LYS:N	2.27	0.50
1:C:598:SER:HB3	1:C:753:GLN:NE2	2.26	0.50
1:D:29:ILE:O	1:D:675:VAL:HG22	2.12	0.50
1:D:1212:VAL:HA	1:D:1215:ILE:HG22	1.94	0.50
1:D:1357:ILE:HG22	1:D:1389:VAL:HG12	1.92	0.50
1:A:265:ALA:HB1	1:A:268:TYR:CE2	2.47	0.49
1:A:916:PRO:HA	1:A:1288:SER:HA	1.94	0.49
1:A:1069:GLY:O	1:A:1074:ARG:NH2	2.45	0.49
1:C:654:TYR:HA	1:D:655:LEU:O	2.11	0.49
1:D:381:GLN:NE2	1:D:393:ALA:HA	2.15	0.49
1:D:626:TYR:CD2	1:D:670:ARG:HG3	2.47	0.49
1:D:1034:GLU:HA	1:D:1037:LYS:HD3	1.92	0.49
1:A:232:ILE:O	1:A:339:ILE:HA	2.11	0.49
1:A:1160:TRP:HB2	1:A:1189:MET:HE1	1.93	0.49
1:A:1282:GLU:HG3	1:A:1287:TYR:OH	2.12	0.49
1:B:862:GLU:OE2	1:B:864:THR:HG22	2.12	0.49
1:C:159:TYR:HB3	1:C:170:GLN:HA	1.94	0.49
1:C:199:THR:HG23	1:C:209:ARG:HH22	1.75	0.49
1:C:1075:GLN:O	1:C:1162:ARG:NH2	2.45	0.49
1:D:368:ILE:HA	1:D:400:GLY:O	2.12	0.49
1:D:626:TYR:CE2	1:D:670:ARG:HG3	2.46	0.49
1:D:1342:SER:OG	1:D:1344:ARG:NE	2.45	0.49
1:A:29:ILE:O	1:A:674:LEU:HG	2.12	0.49
1:A:919:LEU:HB2	1:A:1285:GLY:HA3	1.93	0.49
1:A:962:ASN:HD22	1:A:1000:ARG:NH1	2.10	0.49
1:A:1043:ASP:OD1	1:A:1045:LYS:N	2.42	0.49
1:B:196:TYR:HB2	1:B:212:PHE:CD2	2.46	0.49
1:B:258:THR:HB	1:B:287:THR:HG23	1.92	0.49
1:B:865:HIS:NE2	1:B:878:GLN:HB3	2.27	0.49
1:B:1397:PRO:HD2	1:B:1401:ILE:HD11	1.94	0.49
1:B:1439:GLN:HG2	1:B:1441:CYS:H	1.77	0.49
1:C:162:ASP:HA	1:C:196:TYR:CD1	2.47	0.49
1:D:354:LYS:O	1:D:363:TYR:OH	2.24	0.49
1:D:1025:LEU:O	1:D:1029:THR:HG23	2.12	0.49
1:D:1101:MET:HE1	1:D:1103:LEU:HB2	1.94	0.49
1:D:1191:LEU:HD11	1:D:1235:GLN:HG3	1.94	0.49
1:A:156:THR:HB	1:A:201:GLU:O	2.12	0.49
1:A:564:VAL:HG23	1:A:583:LEU:HD21	1.95	0.49
1:A:790:LEU:N	1:A:892:GLN:HE22	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1138:GLU:O	1:A:1142:THR:OG1	2.30	0.49
1:A:1147:LEU:HD11	1:A:1189:MET:SD	2.52	0.49
1:A:1159:HIS:NE2	1:A:1161:GLU:OE2	2.33	0.49
1:A:1384:GLU:N	1:A:1384:GLU:OE1	2.45	0.49
1:B:61:GLN:NE2	1:B:94:ASP:OD1	2.38	0.49
1:C:654:TYR:CG	1:D:654:TYR:HB3	2.47	0.49
1:C:983:THR:HB	1:C:986:LEU:HB2	1.95	0.49
1:D:984:ASP:OD1	1:D:985:GLU:N	2.44	0.49
1:D:1152:VAL:HG21	1:D:1161:GLU:HG3	1.94	0.49
1:D:1157:THR:HG22	1:D:1212:VAL:HG13	1.94	0.49
1:A:1324:SER:C	1:A:1325:LYS:HD2	2.37	0.49
1:B:275:CYS:N	1:D:430:TYR:OH	2.45	0.49
1:B:865:HIS:H	1:B:865:HIS:HD1	1.60	0.49
1:B:897:ARG:HH21	1:B:1306:ASN:CG	2.20	0.49
1:B:1067:ALA:HB2	1:B:1084:PHE:CG	2.47	0.49
1:C:496:LEU:O	1:C:537:LEU:HD12	2.12	0.49
1:C:786:LEU:HD11	1:C:857:PHE:CD2	2.47	0.49
1:D:548:ILE:O	1:D:548:ILE:HG13	2.12	0.49
1:A:1206:TYR:HA	1:A:1209:GLN:HE22	1.78	0.49
1:B:607:GLU:OE2	1:B:607:GLU:N	2.45	0.49
1:D:135:CYS:N	1:D:187:LEU:HB3	2.24	0.49
1:D:896:ILE:HG12	1:D:1307:ILE:O	2.12	0.49
1:A:591:CYS:HB2	1:A:757:PHE:O	2.13	0.49
1:B:158:VAL:HG23	1:B:171:TRP:HB2	1.95	0.49
1:C:359:ARG:HG2	1:C:409:SER:HA	1.94	0.49
1:C:591:CYS:HA	1:C:758:CYS:HA	1.94	0.49
1:D:200:ALA:HB3	1:D:208:ALA:HB3	1.95	0.49
1:D:1055:GLN:HA	1:D:1103:LEU:HD11	1.94	0.49
1:D:1162:ARG:NH1	1:D:1181:ALA:O	2.46	0.49
1:D:1355:ILE:HG12	1:D:1391:LEU:HB2	1.94	0.49
1:A:342:GLN:HA	1:A:429:TYR:HE1	1.76	0.49
1:A:648:PHE:HB3	1:A:654:TYR:HA	1.94	0.49
1:A:862:GLU:N	1:A:862:GLU:OE1	2.46	0.49
1:B:552:ILE:HG22	1:B:553:SER:H	1.77	0.49
1:D:91:ASN:N	1:D:117:PRO:HD3	2.27	0.49
1:D:574:PRO:HD2	1:D:577:SER:HB2	1.94	0.49
1:A:355:GLU:HA	1:A:445:VAL:HG12	1.94	0.49
1:A:987:LEU:O	1:A:991:VAL:HG23	2.13	0.49
1:A:1316:PHE:HE2	1:A:1431:GLU:HG3	1.75	0.49
1:C:52:LEU:O	1:C:71:LYS:HD3	2.13	0.49
1:D:91:ASN:HA	1:D:115:ILE:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:196:TYR:HE2	1:D:214:VAL:HG11	1.77	0.49
1:D:552:ILE:HG13	1:D:553:SER:H	1.77	0.49
1:D:1256:ARG:HH12	1:D:1290:SER:N	2.11	0.49
1:A:54:LEU:HD11	1:A:98:LEU:HD12	1.94	0.49
1:A:273:GLY:HA3	1:C:429:TYR:CE2	2.48	0.49
1:A:353:LEU:HD11	1:A:365:VAL:HG23	1.95	0.49
1:A:1065:PHE:HD2	1:A:1085:THR:OG1	1.95	0.49
1:A:1126:TYR:O	1:A:1130:VAL:HG23	2.13	0.49
1:A:1309:VAL:HG22	1:A:1310:PRO:CD	2.41	0.49
1:A:1333:TYR:HD1	1:A:1409:ILE:HD13	1.78	0.49
1:C:91:ASN:HA	1:C:115:ILE:O	2.13	0.49
1:C:794:GLU:HA	1:C:1415:ASN:ND2	2.28	0.49
1:C:1073:MET:HE3	1:C:1080:ARG:HA	1.94	0.49
1:C:1090:ILE:HD12	1:C:1129:TYR:CD2	2.47	0.49
1:D:949:GLN:O	1:D:956:TYR:OH	2.29	0.49
1:D:1356:ASP:HA	1:D:1389:VAL:O	2.13	0.49
1:A:109:ASP:OD2	1:A:109:ASP:N	2.45	0.48
1:A:643:PRO:HA	1:A:657:VAL:HG21	1.94	0.48
1:A:940:VAL:HB	1:A:1240:TYR:HE2	1.78	0.48
1:A:1121:LEU:HD12	1:A:1122:TYR:N	2.28	0.48
1:B:669:LEU:C	1:B:671:ARG:H	2.21	0.48
1:B:1360:LEU:HB3	1:B:1363:TYR:HE2	1.76	0.48
1:B:1422:TYR:HE1	1:B:1432:ASN:HB2	1.78	0.48
1:C:368:ILE:HA	1:C:400:GLY:O	2.13	0.48
1:C:893:PRO:HB2	1:C:1306:ASN:HD22	1.78	0.48
1:C:923:GLU:HG3	1:C:924:ASN:CG	2.38	0.48
1:D:25:TYR:CE2	1:D:678:THR:HA	2.48	0.48
1:A:34:LYS:HD2	1:A:37:GLU:HB2	1.95	0.48
1:B:379:ASN:N	1:B:398:LYS:HZ1	2.08	0.48
1:B:453:GLY:O	1:B:480:SER:OG	2.31	0.48
1:B:1297:CYS:SG	1:B:1298:LEU:N	2.86	0.48
1:C:198:ILE:HD12	1:C:210:GLN:HB3	1.95	0.48
1:C:567:SER:O	1:C:581:LEU:HD12	2.14	0.48
1:D:1363:TYR:CE1	1:D:1409:ILE:HG13	2.48	0.48
1:A:44:ASN:HA	1:A:78:PHE:HA	1.94	0.48
1:A:159:TYR:CZ	1:A:199:THR:HB	2.48	0.48
1:A:230:ASN:HA	1:A:337:ILE:HD12	1.94	0.48
1:A:230:ASN:HA	1:A:337:ILE:HG23	1.94	0.48
1:B:119:ASN:OD1	1:B:120:THR:N	2.39	0.48
1:B:234:ILE:HG23	1:B:307:MET:HB3	1.95	0.48
1:B:1005:LYS:HG2	1:B:1006:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1066:LYS:NZ	1:B:1067:ALA:O	2.42	0.48
1:B:1128:VAL:HB	1:B:1189:MET:HE1	1.95	0.48
1:C:495:TYR:CE1	1:C:523:ILE:HG21	2.47	0.48
1:C:708:SER:O	1:C:710:LEU:N	2.45	0.48
1:D:305:PHE:HB3	1:D:307:MET:HE3	1.95	0.48
1:D:306:GLN:O	1:D:309:GLN:HG2	2.13	0.48
1:D:399:GLU:O	1:D:401:ARG:NH1	2.46	0.48
1:D:575:THR:HB	1:D:749:ILE:HD11	1.95	0.48
1:D:726:PHE:CE2	1:D:727:LEU:HD23	2.47	0.48
1:D:819:SER:HB3	1:D:822:PHE:CE1	2.48	0.48
1:B:188:ILE:HG23	1:B:190:ASP:H	1.78	0.48
1:B:268:TYR:HD2	1:B:277:LYS:HD2	1.78	0.48
1:B:354:LYS:HZ2	1:B:355:GLU:N	2.11	0.48
1:B:568:PHE:CD1	1:B:581:LEU:HD11	2.49	0.48
1:C:1246:LYS:HZ2	1:C:1247:SER:N	2.11	0.48
1:C:1358:GLN:HB2	1:C:1388:HIS:CE1	2.47	0.48
1:D:190:ASP:HB2	1:D:1000:ARG:CZ	2.43	0.48
1:D:263:ARG:HH21	1:D:315:SER:H	1.61	0.48
1:A:266:SER:HB3	1:A:268:TYR:CE1	2.49	0.48
1:A:476:ARG:HG2	1:A:519:GLY:O	2.13	0.48
1:A:547:LEU:HB2	1:A:682:ILE:HG12	1.96	0.48
1:A:1108:LEU:HA	1:A:1111:LEU:HD12	1.95	0.48
1:B:552:ILE:HG22	1:B:553:SER:N	2.29	0.48
1:B:568:PHE:HE2	1:B:773:ASN:C	2.22	0.48
1:B:568:PHE:CE2	1:B:774:PHE:HB2	2.48	0.48
1:B:1254:PHE:CE2	1:B:1290:SER:HB3	2.49	0.48
1:B:1364:GLN:HB3	1:B:1408:LEU:HD11	1.95	0.48
1:C:464:GLU:OE1	1:C:557:GLU:HB3	2.14	0.48
1:C:1327:CYS:HA	1:C:1332:ALA:HB2	1.96	0.48
1:D:901:THR:HB	1:D:1300:GLN:HE21	1.78	0.48
1:A:259:ILE:HG23	1:A:286:ILE:HG13	1.96	0.48
1:A:564:VAL:HA	1:A:584:SER:O	2.14	0.48
1:A:1255:LEU:HD21	1:A:1278:LEU:HD23	1.96	0.48
1:B:67:ILE:H	1:B:67:ILE:HD12	1.78	0.48
1:C:229:PRO:HG2	1:C:239:LEU:HD11	1.95	0.48
1:D:537:LEU:HB3	1:D:552:ILE:CG2	2.43	0.48
1:D:1045:LYS:O	1:D:1048:GLN:HG3	2.13	0.48
1:A:61:GLN:NE2	1:A:93:PRO:HB2	2.29	0.48
1:A:419:VAL:HG23	1:A:442:GLN:HG3	1.95	0.48
1:A:955:PRO:HA	1:A:965:ARG:CZ	2.43	0.48
1:B:34:LYS:O	1:B:85:VAL:HG11	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:THR:HA	1:B:109:ASP:O	2.14	0.48
1:B:1255:LEU:HD11	1:B:1287:TYR:HB3	1.95	0.48
1:C:355:GLU:OE2	1:C:446:MET:N	2.47	0.48
1:D:1201:HIS:ND1	1:D:1204:LEU:HD12	2.28	0.48
1:A:353:LEU:HD21	1:A:365:VAL:HG23	1.94	0.48
1:A:359:ARG:NH2	1:A:412:VAL:HG23	2.29	0.48
1:A:477:TYR:O	1:A:519:GLY:N	2.45	0.48
1:A:530:ASP:OD1	1:A:530:ASP:N	2.42	0.48
1:A:993:PHE:HA	1:A:996:GLU:CD	2.38	0.48
1:A:1420:SER:HA	1:A:1436:SER:HA	1.94	0.48
1:B:133:PRO:HG3	1:B:191:ALA:HB3	1.96	0.48
1:B:140:ARG:HB2	1:B:728:TRP:CH2	2.48	0.48
1:B:623:LEU:HD12	1:B:628:TYR:CE2	2.48	0.48
1:B:813:ILE:HG13	1:B:814:VAL:H	1.78	0.48
1:B:1138:GLU:OE1	1:B:1138:GLU:N	2.47	0.48
1:B:1358:GLN:OE1	1:B:1387:ASN:HB3	2.14	0.48
1:C:130:VAL:H	1:C:600:LEU:HD23	1.79	0.48
1:C:359:ARG:NH2	1:C:410:SER:HA	2.29	0.48
1:C:862:GLU:OE2	1:C:864:THR:HG22	2.12	0.48
1:D:147:MET:O	1:D:149:LEU:N	2.46	0.48
1:D:1255:LEU:HD13	1:D:1289:ILE:HG22	1.95	0.48
1:D:1297:CYS:SG	1:D:1298:LEU:N	2.86	0.48
1:A:329:ILE:HG13	1:A:1413:VAL:HA	1.95	0.48
1:A:412:VAL:N	1:A:413:GLN:OE1	2.46	0.48
1:A:558:LYS:HG2	1:A:612:SER:HA	1.95	0.48
1:A:614:VAL:O	1:A:618:ILE:HG13	2.14	0.48
1:A:664:ASP:OD2	1:A:666:TYR:HB3	2.13	0.48
1:A:784:LEU:HD23	1:A:784:LEU:H	1.79	0.48
1:A:796:LEU:HD23	1:A:847:ILE:O	2.14	0.48
1:A:1282:GLU:OE1	1:A:1283:VAL:N	2.47	0.48
1:B:162:ASP:HA	1:B:196:TYR:HD1	1.77	0.48
1:B:471:HIS:O	1:B:525:LEU:N	2.46	0.48
1:B:963:LEU:HA	1:B:966:MET:HE2	1.96	0.48
1:B:1132:THR:HG21	1:B:1192:SER:HA	1.96	0.48
1:B:1173:LEU:HB2	1:B:1345:GLY:HA2	1.96	0.48
1:B:1262:VAL:HG21	1:B:1287:TYR:CE1	2.38	0.48
1:C:380:GLU:H	1:C:396:THR:HG22	1.79	0.48
1:D:797:VAL:HG11	1:D:1412:ARG:NH2	2.28	0.48
1:D:858:ILE:HD11	1:D:884:THR:HB	1.96	0.48
1:D:1232:VAL:HA	1:D:1235:GLN:HG2	1.96	0.48
1:D:1254:PHE:HA	1:D:1263:GLY:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:GLN:HG2	1:A:416:PHE:HB2	1.95	0.48
1:A:1192:SER:OG	1:A:1193:ILE:HD12	2.14	0.48
1:A:1273:LEU:HG	1:A:1274:VAL:HG23	1.95	0.48
1:A:1277:ARG:HA	1:A:1277:ARG:NE	2.29	0.48
1:C:358:LYS:HD3	1:C:455:PHE:CD1	2.49	0.48
1:C:809:CYS:HA	1:C:836:CYS:HA	1.96	0.48
1:C:862:GLU:HG2	1:C:864:THR:H	1.79	0.48
1:C:954:MET:HE2	1:C:1426:TYR:CD2	2.49	0.48
1:C:1029:THR:HB	1:C:1033:PHE:CZ	2.48	0.48
1:C:1122:TYR:HD1	1:C:1185:ILE:HD11	1.79	0.48
1:D:235:LEU:HD23	1:D:235:LEU:H	1.79	0.48
1:D:307:MET:HA	1:D:312:PHE:HZ	1.78	0.48
1:D:652:ARG:NH1	1:D:654:TYR:CD1	2.82	0.48
1:D:993:PHE:HA	1:D:996:GLU:CD	2.39	0.48
1:A:491:ALA:HB2	1:A:513:LEU:HD11	1.96	0.47
1:A:901:THR:OG1	1:A:1301:SER:O	2.28	0.47
1:A:955:PRO:HD2	1:A:996:GLU:OE2	2.14	0.47
1:A:1353:VAL:HG13	1:A:1393:LEU:HB2	1.95	0.47
1:B:459:GLN:HE21	1:B:473:ILE:HD12	1.79	0.47
1:B:496:LEU:O	1:B:537:LEU:HD12	2.14	0.47
1:C:194:GLY:H	1:C:214:VAL:HG13	1.79	0.47
1:C:726:PHE:CE2	1:C:727:LEU:HD23	2.49	0.47
1:C:997:GLY:O	1:C:1001:GLN:HB2	2.14	0.47
1:A:218:ILE:HD12	1:A:788:TYR:HA	1.95	0.47
1:A:382:VAL:HG22	1:A:422:TYR:HB2	1.95	0.47
1:A:660:SER:OG	1:A:661:THR:N	2.45	0.47
1:B:130:VAL:HA	1:B:213:THR:OG1	2.14	0.47
1:B:1086:ALA:O	1:B:1090:ILE:HG12	2.13	0.47
1:B:1097:TYR:HB3	1:B:1101:MET:HE1	1.95	0.47
1:B:1130:VAL:O	1:B:1134:VAL:HG22	2.14	0.47
1:B:1232:VAL:HA	1:B:1235:GLN:CD	2.39	0.47
1:C:58:LEU:HB3	1:C:65:ILE:HD12	1.96	0.47
1:C:1350:THR:HG21	1:C:1396:VAL:H	1.78	0.47
1:D:161:GLU:HA	1:D:166:SER:O	2.14	0.47
1:D:378:ALA:O	1:D:380:GLU:HG2	2.14	0.47
1:D:532:ALA:O	1:D:556:ILE:HD13	2.14	0.47
1:D:542:ILE:HD12	1:D:546:GLU:O	2.14	0.47
1:D:797:VAL:HG11	1:D:1412:ARG:HH22	1.78	0.47
1:A:226:VAL:HG23	1:A:228:PRO:HD3	1.96	0.47
1:A:267:SER:HB2	1:A:277:LYS:HE2	1.96	0.47
1:A:937:VAL:HG23	1:A:938:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1137:TRP:CG	1:A:1197:SER:HG	2.32	0.47
1:A:1336:THR:HG23	1:A:1405:PHE:C	2.38	0.47
1:B:56:VAL:HG22	1:B:98:LEU:HD13	1.96	0.47
1:B:381:GLN:NE2	1:B:393:ALA:HA	2.25	0.47
1:B:748:THR:HG22	1:B:750:THR:HG23	1.96	0.47
1:C:359:ARG:HH12	1:C:412:VAL:HG22	1.78	0.47
1:C:565:SER:HB3	1:C:584:SER:OG	2.14	0.47
1:C:594:LYS:HD3	1:C:596:ILE:HB	1.96	0.47
1:C:962:ASN:HA	1:C:965:ARG:NH2	2.28	0.47
1:D:124:ILE:HG22	1:D:126:MET:HG2	1.95	0.47
1:D:246:ILE:HG22	1:D:247:TYR:O	2.13	0.47
1:D:358:LYS:HE3	1:D:455:PHE:CB	2.44	0.47
1:D:1087:TYR:HB2	1:D:1126:TYR:HE2	1.79	0.47
1:A:129:PRO:HD2	1:A:600:LEU:HD22	1.95	0.47
1:A:144:LEU:CD2	1:A:151:ILE:H	2.26	0.47
1:A:221:ARG:HD3	1:A:331:VAL:HG12	1.96	0.47
1:A:309:GLN:N	1:A:312:PHE:HE2	2.12	0.47
1:A:940:VAL:H	1:A:1215:ILE:CD1	2.26	0.47
1:A:1146:GLU:OE1	1:A:1146:GLU:N	2.34	0.47
1:A:1252:ASN:OD1	1:A:1253:VAL:N	2.47	0.47
1:B:802:VAL:O	1:B:840:ARG:HA	2.14	0.47
1:B:1030:PHE:HB2	1:B:1050:THR:HG21	1.96	0.47
1:C:1246:LYS:HZ2	1:C:1247:SER:H	1.62	0.47
1:C:1326:ASN:ND2	1:C:1334:THR:O	2.46	0.47
1:D:52:LEU:HD13	1:D:103:GLY:N	2.30	0.47
1:D:56:VAL:HB	1:D:68:PHE:HB2	1.96	0.47
1:D:495:TYR:HD1	1:D:539:VAL:HG12	1.80	0.47
1:D:732:SER:OG	1:D:733:VAL:N	2.46	0.47
1:D:1045:LYS:HA	1:D:1048:GLN:CG	2.45	0.47
1:D:1162:ARG:CZ	1:D:1181:ALA:HB1	2.44	0.47
1:A:127:ASP:OD2	1:A:138:ARG:NH2	2.48	0.47
1:A:465:LEU:HD22	1:A:471:HIS:ND1	2.28	0.47
1:A:934:VAL:HG22	1:A:1280:LEU:HD21	1.95	0.47
1:B:35:SER:HB2	1:B:87:THR:HA	1.96	0.47
1:B:362:PRO:O	1:B:476:ARG:NH2	2.42	0.47
1:C:56:VAL:HG22	1:C:98:LEU:CD1	2.45	0.47
1:C:648:PHE:HB2	1:C:653:TYR:CD1	2.48	0.47
1:C:866:ILE:HA	1:C:874:SER:HB2	1.97	0.47
1:C:1357:ILE:HG12	1:C:1421:VAL:HG13	1.97	0.47
1:D:55:SER:OG	1:D:99:SER:HB3	2.15	0.47
1:D:302:LEU:HA	1:D:305:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:382:VAL:HB	1:D:421:SER:O	2.15	0.47
1:A:822:PHE:HB2	1:A:848:ILE:O	2.14	0.47
1:A:978:ASN:ND2	1:A:1238:ALA:HB1	2.28	0.47
1:A:1123:PHE:O	1:A:1127:THR:HG23	2.15	0.47
1:A:1144:LEU:HA	1:A:1147:LEU:HB3	1.97	0.47
1:A:1227:THR:O	1:A:1231:VAL:HG23	2.14	0.47
1:C:1204:LEU:HA	1:C:1207:MET:HG3	1.96	0.47
1:D:125:GLN:O	1:D:126:MET:HE2	2.14	0.47
1:D:572:LEU:HB3	1:D:777:PHE:CE1	2.49	0.47
1:D:627:ASN:ND2	1:D:632:ASN:HA	2.30	0.47
1:D:824:VAL:HA	1:D:847:ILE:HD13	1.96	0.47
1:D:1154:GLU:HB2	1:D:1157:THR:OG1	2.15	0.47
1:A:97:THR:HB	1:A:108:LYS:HE2	1.95	0.47
1:A:123:LEU:O	1:A:141:LEU:HD12	2.13	0.47
1:A:268:TYR:HE2	1:A:311:GLY:HA2	1.79	0.47
1:A:366:LYS:HE3	1:A:403:GLU:HG3	1.96	0.47
1:A:562:ASN:HA	1:A:763:GLU:OE2	2.14	0.47
1:A:684:LYS:CG	1:A:686:VAL:HG22	2.44	0.47
1:A:750:THR:HG22	1:A:751:LYS:N	2.20	0.47
1:A:854:ARG:HH21	1:A:889:ILE:C	2.23	0.47
1:A:861:ALA:O	1:A:882:LYS:HA	2.14	0.47
1:A:937:VAL:HG12	1:A:1275:VAL:HG13	1.96	0.47
1:A:991:VAL:O	1:A:994:LEU:HG	2.15	0.47
1:A:1169:GLU:HB2	1:A:1173:LEU:O	2.15	0.47
1:A:1268:SER:H	1:A:1271:ASN:HB2	1.80	0.47
1:B:357:TYR:OH	1:B:413:GLN:O	2.25	0.47
1:B:595:VAL:HG23	1:B:727:LEU:HD11	1.97	0.47
1:B:1129:TYR:CE2	1:B:1133:LEU:HD11	2.50	0.47
1:B:1177:ASN:OD1	1:B:1178:TYR:N	2.47	0.47
1:C:268:TYR:N	1:C:277:LYS:HZ1	2.13	0.47
1:C:303:LEU:HA	1:C:307:MET:HE1	1.96	0.47
1:C:385:GLU:OE1	1:C:385:GLU:N	2.48	0.47
1:C:427:GLN:CD	1:C:427:GLN:H	2.23	0.47
1:C:471:HIS:O	1:C:524:GLY:HA2	2.14	0.47
1:C:570:ASP:OD1	1:C:571:ASP:N	2.47	0.47
1:C:572:LEU:HB3	1:C:777:PHE:CE1	2.49	0.47
1:C:813:ILE:HG22	1:C:862:GLU:CD	2.39	0.47
1:C:956:TYR:HA	1:C:961:GLN:HB3	1.95	0.47
1:C:1071:LEU:HD22	1:C:1352:MET:HE1	1.95	0.47
1:C:1071:LEU:HD23	1:C:1074:ARG:HH21	1.80	0.47
1:C:1173:LEU:HD11	1:C:1316:PHE:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:128:LYS:H	1:D:594:LYS:NZ	2.12	0.47
1:D:239:LEU:HB2	1:D:302:LEU:HD21	1.97	0.47
1:D:484:MET:N	1:D:543:LEU:HD22	2.30	0.47
1:D:778:LEU:HB2	1:D:781:PHE:CE1	2.50	0.47
1:D:782:VAL:HA	1:D:801:PHE:O	2.14	0.47
1:D:1364:GLN:O	1:D:1408:LEU:N	2.44	0.47
1:A:598:SER:O	1:A:601:LEU:HB3	2.15	0.47
1:A:1162:ARG:NH1	1:A:1164:ASP:HA	2.30	0.47
1:A:1386:ASP:O	1:A:1388:HIS:ND1	2.44	0.47
1:B:27:LEU:O	1:B:27:LEU:HD12	2.14	0.47
1:B:124:ILE:HG13	1:B:141:LEU:CD1	2.43	0.47
1:B:1031:LYS:HA	1:B:1034:GLU:OE1	2.14	0.47
1:C:180:VAL:HG21	1:C:730:LEU:HD21	1.96	0.47
1:C:346:LEU:HA	1:C:368:ILE:O	2.15	0.47
1:D:288:GLY:HA3	1:D:296:PHE:CE1	2.50	0.47
1:D:364:LEU:HB3	1:D:366:LYS:NZ	2.29	0.47
1:D:669:LEU:C	1:D:671:ARG:H	2.21	0.47
1:A:255:GLY:HA3	1:A:323:THR:O	2.15	0.47
1:A:538:ILE:HG13	1:A:550:ASP:O	2.15	0.47
1:A:1321:ASP:N	1:A:1321:ASP:OD1	2.47	0.47
1:C:217:TYR:HA	1:C:718:LEU:HD11	1.97	0.47
1:C:914:GLU:HA	1:C:1289:ILE:O	2.15	0.47
1:C:917:ILE:HD12	1:C:919:LEU:HD23	1.97	0.47
1:C:1004:TYR:CE1	1:C:1015:TRP:HD1	2.33	0.47
1:D:56:VAL:HB	1:D:68:PHE:H	1.79	0.47
1:D:348:PHE:CE1	1:D:367:VAL:HG12	2.49	0.47
1:D:427:GLN:OE1	1:D:427:GLN:N	2.34	0.47
1:D:1422:TYR:HE1	1:D:1432:ASN:HB2	1.80	0.47
1:A:263:ARG:NH1	1:A:314:MET:H	2.13	0.47
1:A:332:THR:HA	1:A:1412:ARG:NH1	2.30	0.47
1:A:542:ILE:HD11	1:A:544:ASP:O	2.15	0.47
1:B:25:TYR:HA	1:B:45:LEU:HD13	1.96	0.47
1:B:1074:ARG:HH12	1:B:1395:ALA:HB2	1.80	0.47
1:C:652:ARG:HB2	1:C:654:TYR:CE1	2.50	0.47
1:D:290:LEU:HB2	1:D:295:ALA:H	1.80	0.47
1:D:348:PHE:HE1	1:D:367:VAL:HG12	1.80	0.47
1:D:681:LYS:CE	1:D:685:PRO:HD3	2.44	0.47
1:D:782:VAL:HG12	1:D:883:ASP:OD2	2.15	0.47
1:A:1354:ILE:HD12	1:A:1424:TYR:CE2	2.50	0.46
1:B:495:TYR:CE1	1:B:537:LEU:HD11	2.50	0.46
1:B:1218:GLN:OE1	1:B:1219:ASN:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:VAL:CG2	1:C:68:PHE:HB2	2.45	0.46
1:C:684:LYS:HG2	1:C:685:PRO:HD2	1.97	0.46
1:C:1218:GLN:NE2	1:C:1222:GLY:O	2.40	0.46
1:C:1347:ARG:NH1	1:C:1349:GLU:O	2.48	0.46
1:D:161:GLU:HB2	1:D:197:THR:OG1	2.16	0.46
1:D:550:ASP:OD1	1:D:551:THR:N	2.46	0.46
1:D:956:TYR:O	1:D:1392:TYR:OH	2.20	0.46
1:D:1065:PHE:O	1:D:1081:ASP:HB2	2.15	0.46
1:D:1317:TYR:HB2	1:D:1344:ARG:HD3	1.97	0.46
1:A:120:THR:HB	1:A:144:LEU:C	2.40	0.46
1:A:359:ARG:NH2	1:A:447:ARG:HD3	2.30	0.46
1:A:440:THR:HG22	1:A:442:GLN:OE1	2.15	0.46
1:A:499:SER:HG	1:A:532:ALA:H	1.57	0.46
1:A:568:PHE:HE2	1:A:772:ALA:HB1	1.80	0.46
1:A:748:THR:HA	1:A:752:TRP:HZ2	1.80	0.46
1:A:1101:MET:O	1:A:1104:LEU:N	2.46	0.46
1:A:1181:ALA:O	1:A:1185:ILE:HG12	2.16	0.46
1:B:371:ASP:HB2	1:B:377:MET:SD	2.55	0.46
1:C:25:TYR:O	1:C:678:THR:OG1	2.23	0.46
1:C:343:LEU:N	1:C:429:TYR:HE1	2.13	0.46
1:C:542:ILE:HD12	1:C:546:GLU:C	2.40	0.46
1:C:783:GLU:CG	1:C:801:PHE:HB2	2.46	0.46
1:C:801:PHE:HB3	1:C:840:ARG:HD2	1.96	0.46
1:C:1034:GLU:HA	1:C:1037:LYS:HD2	1.97	0.46
1:D:257:VAL:HG22	1:D:322:VAL:HG13	1.96	0.46
1:D:263:ARG:HH21	1:D:315:SER:N	2.13	0.46
1:D:791:THR:HG21	1:D:1417:LYS:HD2	1.97	0.46
1:D:812:ILE:CD1	1:D:863:THR:H	2.28	0.46
1:D:919:LEU:HD11	1:D:1284:SER:HA	1.96	0.46
1:A:161:GLU:OE2	1:A:167:ARG:HG3	2.15	0.46
1:A:1071:LEU:HG	1:A:1073:MET:H	1.80	0.46
1:C:130:VAL:HA	1:C:213:THR:OG1	2.15	0.46
1:C:1356:ASP:OD2	1:C:1388:HIS:ND1	2.48	0.46
1:D:161:GLU:OE2	1:D:167:ARG:HG2	2.16	0.46
1:A:414:GLU:HG3	1:A:415:ASN:CG	2.41	0.46
1:A:417:THR:HA	1:A:443:HIS:O	2.15	0.46
1:A:430:TYR:OH	1:C:275:CYS:SG	2.73	0.46
1:A:1169:GLU:HA	1:A:1173:LEU:HD23	1.97	0.46
1:A:1256:ARG:HA	1:A:1261:ASP:O	2.16	0.46
1:A:1337:ILE:O	1:A:1404:SER:HA	2.16	0.46
1:B:358:LYS:HD2	1:B:455:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:537:LEU:O	1:B:551:THR:HA	2.15	0.46
1:B:795:ILE:H	1:B:1415:ASN:HB3	1.80	0.46
1:B:1232:VAL:O	1:B:1235:GLN:HG2	2.15	0.46
1:C:27:LEU:O	1:C:676:LEU:HD13	2.14	0.46
1:C:370:THR:HA	1:C:377:MET:HG2	1.97	0.46
1:D:54:LEU:CD1	1:D:68:PHE:HB3	2.46	0.46
1:D:216:GLU:CD	1:D:216:GLU:H	2.23	0.46
1:D:226:VAL:HG23	1:D:241:LEU:HD21	1.98	0.46
1:D:1254:PHE:CE2	1:D:1290:SER:HB3	2.51	0.46
1:A:345:THR:O	1:A:369:LEU:HD12	2.16	0.46
1:A:939:ASP:O	1:A:1272:ARG:NH2	2.49	0.46
1:A:1169:GLU:HA	1:A:1173:LEU:HB3	1.97	0.46
1:A:1277:ARG:HA	1:A:1277:ARG:HE	1.81	0.46
1:B:360:GLY:HA2	1:B:409:SER:HB2	1.97	0.46
1:B:496:LEU:HD11	1:B:503:ILE:HG23	1.97	0.46
1:B:647:ILE:N	1:B:654:TYR:O	2.31	0.46
1:B:1115:MET:HA	1:B:1115:MET:HE2	1.96	0.46
1:B:1182:GLU:HG3	1:B:1213:TRP:HH2	1.80	0.46
1:C:39:GLN:OE1	1:C:39:GLN:N	2.48	0.46
1:C:358:LYS:CE	1:C:448:PHE:HB3	2.29	0.46
1:C:419:VAL:HA	1:C:442:GLN:HA	1.96	0.46
1:C:862:GLU:OE1	1:C:862:GLU:N	2.48	0.46
1:D:23:VAL:HG12	1:D:48:TYR:HB3	1.98	0.46
1:D:263:ARG:NH2	1:D:315:SER:O	2.45	0.46
1:D:348:PHE:CE2	1:D:443:HIS:HB2	2.49	0.46
1:D:669:LEU:HD12	1:D:669:LEU:HA	1.79	0.46
1:A:132:LYS:HA	1:A:216:GLU:OE1	2.15	0.46
1:A:347:ILE:HG13	1:A:368:ILE:HB	1.97	0.46
1:A:648:PHE:CE1	1:B:652:ARG:HB3	2.51	0.46
1:A:1347:ARG:NE	1:A:1348:ASN:OD1	2.34	0.46
1:B:100:VAL:HG12	1:B:107:ILE:HG22	1.98	0.46
1:B:509:ARG:NH2	1:B:521:PHE:HB2	2.30	0.46
1:B:786:LEU:HD12	1:B:887:GLN:HG3	1.97	0.46
1:B:1023:SER:HB3	1:B:1068:GLU:H	1.81	0.46
1:B:1081:ASP:O	1:B:1085:THR:HG23	2.16	0.46
1:C:664:ASP:OD2	1:C:666:TYR:HB3	2.16	0.46
1:C:1248:ASN:HB2	1:C:1250:HIS:NE2	2.31	0.46
1:D:345:THR:O	1:D:369:LEU:HD12	2.16	0.46
1:D:412:VAL:O	1:D:412:VAL:HG12	2.15	0.46
1:D:822:PHE:HE2	1:D:824:VAL:HB	1.80	0.46
1:D:981:GLN:NE2	1:D:1273:LEU:HD21	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:GLU:HB3	1:A:203:GLU:OE2	2.15	0.46
1:A:268:TYR:CE2	1:A:311:GLY:HA2	2.51	0.46
1:A:1002:LEU:HB3	1:A:1005:LYS:HZ1	1.81	0.46
1:B:1115:MET:SD	1:B:1143:LEU:HD13	2.55	0.46
1:C:93:PRO:HD3	1:C:631:PHE:CZ	2.51	0.46
1:C:903:SER:O	1:C:1216:GLN:HA	2.16	0.46
1:D:150:PRO:HG2	1:D:761:GLU:HA	1.96	0.46
1:D:315:SER:HA	1:D:337:ILE:O	2.15	0.46
1:D:903:SER:O	1:D:1216:GLN:HA	2.16	0.46
1:A:39:GLN:HB3	1:A:83:PHE:CE2	2.51	0.46
1:A:60:HIS:ND1	1:A:65:ILE:HB	2.31	0.46
1:A:582:ASN:HA	1:A:739:ASN:HA	1.98	0.46
1:A:964:ALA:HA	1:A:1028:TYR:OH	2.15	0.46
1:B:32:LEU:HD13	1:B:628:TYR:HB3	1.98	0.46
1:B:160:LEU:O	1:B:167:ARG:HA	2.16	0.46
1:B:490:THR:OG1	1:B:512:HIS:ND1	2.49	0.46
1:C:153:GLU:OE2	1:C:204:SER:N	2.49	0.46
1:D:1101:MET:SD	1:D:1103:LEU:N	2.88	0.46
1:D:1162:ARG:HD3	1:D:1182:GLU:HA	1.98	0.46
1:A:133:PRO:HB2	1:A:189:SER:HA	1.98	0.46
1:A:136:LYS:O	1:A:138:ARG:HG3	2.15	0.46
1:A:809:CYS:HA	1:A:836:CYS:HA	1.97	0.46
1:A:1187:ALA:O	1:A:1190:LEU:HB2	2.16	0.46
1:B:536:GLU:N	1:B:536:GLU:OE2	2.49	0.46
1:B:624:PHE:O	1:B:671:ARG:NH2	2.48	0.46
1:B:814:VAL:HG11	1:B:845:TRP:HH2	1.81	0.46
1:B:961:GLN:HG2	1:B:1426:TYR:CZ	2.51	0.46
1:B:1138:GLU:HG2	1:B:1139:ILE:N	2.30	0.46
1:C:413:GLN:O	1:C:447:ARG:NH1	2.49	0.46
1:C:457:ASP:OD1	1:C:476:ARG:HB2	2.16	0.46
1:C:1055:GLN:HA	1:C:1103:LEU:HD21	1.98	0.46
1:C:1323:VAL:HG23	1:C:1336:THR:HB	1.97	0.46
1:D:609:LEU:O	1:D:609:LEU:HD23	2.16	0.46
1:D:1121:LEU:HA	1:D:1124:LYS:HB2	1.97	0.46
1:D:1258:GLU:CD	1:D:1286:ASN:HD21	2.22	0.46
1:D:1356:ASP:CG	1:D:1388:HIS:HD1	2.24	0.46
1:A:144:LEU:HD22	1:A:151:ILE:H	1.80	0.46
1:A:356:PHE:O	1:A:358:LYS:NZ	2.44	0.46
1:A:1421:VAL:C	1:A:1422:TYR:HD2	2.24	0.46
1:B:128:LYS:HB2	1:B:128:LYS:HE2	1.79	0.46
1:C:1140:ARG:HH22	1:C:1196:GLY:HA2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1419:ALA:HB3	1:C:1437:TYR:HB3	1.98	0.46
1:D:59:GLU:O	1:D:94:ASP:HB3	2.16	0.46
1:D:126:MET:HE1	1:D:139:PHE:HA	1.98	0.46
1:A:33:LEU:N	1:A:114:VAL:O	2.48	0.45
1:A:38:THR:HB	1:A:84:MET:CE	2.46	0.45
1:A:144:LEU:HD22	1:A:151:ILE:HG22	1.98	0.45
1:A:652:ARG:HB2	1:B:656:PRO:CA	2.45	0.45
1:A:996:GLU:O	1:A:1000:ARG:HB2	2.17	0.45
1:A:1379:VAL:HA	1:A:1393:LEU:HD13	1.98	0.45
1:B:345:THR:O	1:B:369:LEU:HA	2.15	0.45
1:C:419:VAL:HG23	1:C:441:ALA:C	2.41	0.45
1:C:660:SER:OG	1:C:692:ALA:HA	2.15	0.45
1:C:813:ILE:N	1:C:862:GLU:OE2	2.48	0.45
1:D:55:SER:O	1:D:98:LEU:HA	2.16	0.45
1:D:343:LEU:HD12	1:D:344:ALA:HB2	1.98	0.45
1:D:1367:TYR:HB3	1:D:1368:PRO:HD3	1.99	0.45
1:A:1279:GLN:C	1:A:1280:LEU:HD23	2.41	0.45
1:A:1366:ASP:O	1:A:1369:SER:OG	2.22	0.45
1:B:24:GLN:HB3	1:B:46:ILE:HG23	1.97	0.45
1:B:90:THR:C	1:B:117:PRO:HD3	2.40	0.45
1:B:148:LEU:HG	1:B:764:GLY:HA3	1.97	0.45
1:B:1065:PHE:HB3	1:B:1084:PHE:HE2	1.81	0.45
1:C:100:VAL:HG12	1:C:100:VAL:O	2.16	0.45
1:C:473:ILE:O	1:C:523:ILE:N	2.32	0.45
1:C:812:ILE:CD1	1:C:863:THR:H	2.28	0.45
1:C:1067:ALA:HB2	1:C:1084:PHE:HB2	1.98	0.45
1:C:1093:LEU:HB3	1:C:1133:LEU:HD22	1.97	0.45
1:C:1357:ILE:HG23	1:C:1421:VAL:HG22	1.98	0.45
1:D:923:GLU:HG3	1:D:924:ASN:N	2.30	0.45
1:D:955:PRO:HG3	1:D:1390:PHE:CD2	2.51	0.45
1:A:322:VAL:O	1:A:322:VAL:HG13	2.16	0.45
1:A:752:TRP:O	1:A:773:ASN:HA	2.15	0.45
1:A:801:PHE:CD1	1:A:842:SER:HB2	2.47	0.45
1:B:162:ASP:HA	1:B:196:TYR:CD1	2.51	0.45
1:B:330:GLN:HE22	1:B:332:THR:HG23	1.81	0.45
1:B:852:LEU:HD22	1:B:893:PRO:HD3	1.98	0.45
1:C:769:LYS:HD2	1:C:770:TYR:CE2	2.50	0.45
1:C:968:PRO:HA	1:C:971:TYR:HD2	1.81	0.45
1:C:982:LEU:HD21	1:C:987:LEU:HD22	1.98	0.45
1:D:223:SER:O	1:D:245:ALA:HA	2.16	0.45
1:D:1376:SER:HB3	1:D:1378:GLN:HE22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:VAL:HG11	1:A:115:ILE:HG13	1.99	0.45
1:A:264:GLU:HG3	1:A:313:GLN:HE22	1.80	0.45
1:A:452:THR:O	1:A:480:SER:OG	2.21	0.45
1:A:670:ARG:HB3	1:A:671:ARG:HH12	1.81	0.45
1:A:1357:ILE:HA	1:A:1421:VAL:HG12	1.98	0.45
1:B:363:TYR:HB3	1:B:406:ILE:CG1	2.47	0.45
1:B:447:ARG:HG2	1:B:448:PHE:O	2.16	0.45
1:B:1128:VAL:HG22	1:B:1143:LEU:HG	1.99	0.45
1:B:1343:TYR:O	1:B:1398:LEU:HD13	2.16	0.45
1:C:558:LYS:HE3	1:C:612:SER:HA	1.98	0.45
1:C:653:TYR:O	1:D:656:PRO:HA	2.17	0.45
1:C:1048:GLN:O	1:C:1052:LEU:HG	2.16	0.45
1:D:28:THR:HA	1:D:674:LEU:HD21	1.98	0.45
1:D:381:GLN:NE2	1:D:382:VAL:O	2.49	0.45
1:D:595:VAL:HG22	1:D:754:GLY:HA3	1.98	0.45
1:D:992:GLN:O	1:D:993:PHE:C	2.60	0.45
1:D:1012:ASP:HB3	1:D:1021:GLY:HA2	1.98	0.45
1:A:1354:ILE:HG12	1:A:1392:TYR:HD1	1.82	0.45
1:B:147:MET:O	1:B:149:LEU:N	2.48	0.45
1:B:749:ILE:HD12	1:B:777:PHE:HA	1.99	0.45
1:B:969:ILE:HG23	1:B:970:PRO:HD3	1.98	0.45
1:B:1173:LEU:HD13	1:B:1431:GLU:HG2	1.98	0.45
1:B:1179:SER:O	1:B:1182:GLU:HG2	2.16	0.45
1:B:1379:VAL:HA	1:B:1393:LEU:HD23	1.98	0.45
1:C:160:LEU:HB3	1:C:168:ILE:HB	1.97	0.45
1:C:238:ILE:HD13	1:C:301:SER:HA	1.99	0.45
1:C:416:PHE:CE2	1:C:418:VAL:HB	2.51	0.45
1:C:500:ARG:HB2	1:C:621:LEU:HA	1.99	0.45
1:C:669:LEU:C	1:C:671:ARG:H	2.25	0.45
1:C:799:LYS:HE3	1:C:844:SER:HB3	1.97	0.45
1:C:854:ARG:NH2	1:C:888:THR:HG23	2.32	0.45
1:C:989:THR:HG22	1:C:993:PHE:CE2	2.51	0.45
1:D:93:PRO:N	1:D:114:VAL:HG23	2.32	0.45
1:D:127:ASP:HB3	1:D:728:TRP:CH2	2.51	0.45
1:D:446:MET:HG3	1:D:447:ARG:N	2.32	0.45
1:D:1012:ASP:HB3	1:D:1021:GLY:C	2.42	0.45
1:A:147:MET:C	1:A:149:LEU:H	2.25	0.45
1:A:164:SER:O	1:A:1216:GLN:HG2	2.16	0.45
1:A:263:ARG:HG2	1:A:264:GLU:O	2.16	0.45
1:A:266:SER:HB3	1:A:268:TYR:CD1	2.52	0.45
1:A:577:SER:HA	1:A:744:THR:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:946:SER:HA	1:A:949:GLN:HE22	1.80	0.45
1:B:514:ASN:OD1	1:B:515:GLN:NE2	2.50	0.45
1:B:1182:GLU:HG3	1:B:1213:TRP:CH2	2.51	0.45
1:C:541:CYS:O	1:C:547:LEU:HD12	2.17	0.45
1:C:597:ASP:OD1	1:C:598:SER:N	2.49	0.45
1:C:759:VAL:HG12	1:C:765:PHE:CD1	2.51	0.45
1:C:802:VAL:HG12	1:C:841:SER:HB2	1.99	0.45
1:C:821:ASP:N	1:C:821:ASP:OD1	2.48	0.45
1:C:936:PHE:HE1	1:C:1299:VAL:HG22	1.81	0.45
1:D:648:PHE:HB2	1:D:653:TYR:CD1	2.52	0.45
1:D:751:LYS:HZ3	1:D:775:THR:HG1	1.60	0.45
1:D:970:PRO:O	1:D:974:GLU:OE1	2.35	0.45
1:D:1249:ALA:HB3	1:D:1272:ARG:HH12	1.82	0.45
1:A:369:LEU:O	1:A:400:GLY:HA3	2.16	0.45
1:A:476:ARG:HA	1:A:520:LEU:HA	1.98	0.45
1:A:653:TYR:CG	1:B:657:VAL:HG12	2.51	0.45
1:A:856:SER:CB	1:A:888:THR:HG22	2.47	0.45
1:B:799:LYS:HD2	1:B:799:LYS:HA	1.74	0.45
1:B:835:ILE:HG13	1:B:839:GLY:HA3	1.99	0.45
1:C:270:GLY:O	1:C:273:GLY:N	2.46	0.45
1:C:345:THR:O	1:C:369:LEU:HD12	2.17	0.45
1:C:358:LYS:HE2	1:C:358:LYS:HA	1.98	0.45
1:C:855:ILE:HB	1:C:889:ILE:HG23	1.99	0.45
1:D:24:GLN:HG3	1:D:25:TYR:H	1.82	0.45
1:D:160:LEU:O	1:D:167:ARG:HA	2.17	0.45
1:D:798:MET:HG3	1:D:845:TRP:H	1.82	0.45
1:D:1012:ASP:HB3	1:D:1021:GLY:CA	2.47	0.45
1:D:1355:ILE:CG1	1:D:1391:LEU:HB2	2.46	0.45
1:A:385:GLU:OE1	1:A:385:GLU:N	2.49	0.45
1:A:992:GLN:HA	1:A:995:ASN:ND2	2.32	0.45
1:B:93:PRO:HD3	1:B:631:PHE:CZ	2.51	0.45
1:B:139:PHE:HB2	1:B:183:LEU:HB2	1.98	0.45
1:B:361:ILE:O	1:B:408:THR:OG1	2.28	0.45
1:B:542:ILE:HD12	1:B:546:GLU:C	2.42	0.45
1:B:1194:ALA:HB2	1:B:1207:MET:HE1	1.99	0.45
1:C:1289:ILE:HD12	1:C:1291:ILE:HD11	1.98	0.45
1:C:1360:LEU:HD11	1:C:1417:LYS:O	2.17	0.45
1:D:271:ARG:N	1:D:275:CYS:HA	2.26	0.45
1:D:318:VAL:HG21	1:D:337:ILE:HG12	1.99	0.45
1:D:502:LYS:NZ	1:D:504:VAL:HB	2.31	0.45
1:D:556:ILE:HG22	1:D:557:GLU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:623:LEU:HD12	1:D:628:TYR:CE2	2.52	0.45
1:D:1035:LYS:O	1:D:1038:LYS:NZ	2.33	0.45
1:A:424:ASN:HB3	1:A:427:GLN:NE2	2.32	0.45
1:A:1253:VAL:HG23	1:A:1291:ILE:HG13	1.99	0.45
1:A:1368:PRO:HA	1:A:1371:ARG:NE	2.32	0.45
1:B:127:ASP:HA	1:B:594:LYS:HE3	1.99	0.45
1:B:493:PHE:HD2	1:B:541:CYS:HB2	1.82	0.45
1:B:916:PRO:HA	1:B:1288:SER:HA	1.99	0.45
1:C:22:LYS:O	1:C:47:GLY:HA3	2.17	0.45
1:C:498:MET:HG2	1:C:502:LYS:O	2.17	0.45
1:C:509:ARG:HG2	1:C:521:PHE:CE2	2.52	0.45
1:C:669:LEU:HA	1:C:669:LEU:HD12	1.71	0.45
1:C:915:MET:O	1:C:1289:ILE:HG12	2.17	0.45
1:C:1246:LYS:HD2	1:C:1246:LYS:HA	1.79	0.45
1:D:268:TYR:HB3	1:D:277:LYS:HZ3	1.82	0.45
1:D:355:GLU:OE1	1:D:355:GLU:N	2.34	0.45
1:D:500:ARG:NE	1:D:532:ALA:HB2	2.32	0.45
1:D:530:ASP:OD1	1:D:530:ASP:N	2.49	0.45
1:D:948:LEU:O	1:D:951:LEU:HG	2.17	0.45
1:D:1203:ASP:O	1:D:1207:MET:HG2	2.17	0.45
1:A:560:PHE:CE2	1:A:766:GLY:HA2	2.51	0.45
1:A:841:SER:OG	1:A:842:SER:N	2.49	0.45
1:A:1037:LYS:HZ1	1:A:1042:VAL:H	1.63	0.45
1:A:1147:LEU:HD11	1:A:1189:MET:HG2	1.99	0.45
1:A:1179:SER:O	1:A:1182:GLU:HG2	2.17	0.45
1:A:1239:PHE:HA	1:A:1242:GLN:HG3	1.99	0.45
1:A:1318:VAL:HG21	1:A:1435:ALA:HB2	1.99	0.45
1:A:1352:MET:HE2	1:A:1392:TYR:CZ	2.52	0.45
1:A:1355:ILE:CG2	1:A:1391:LEU:HB2	2.47	0.45
1:B:797:VAL:HG12	1:B:846:ASN:OD1	2.17	0.45
1:C:967:ALA:HB3	1:C:968:PRO:HD3	1.97	0.45
1:C:1232:VAL:HA	1:C:1235:GLN:HG2	1.98	0.45
1:D:263:ARG:NH2	1:D:315:SER:H	2.15	0.45
1:D:533:PRO:HG3	1:D:615:TYR:CD2	2.51	0.45
1:D:590:LEU:HD23	1:D:732:SER:HB2	1.99	0.45
1:A:648:PHE:H	1:A:654:TYR:CB	2.27	0.44
1:A:931:SER:O	1:A:1303:ILE:HD12	2.17	0.44
1:A:1122:TYR:O	1:A:1125:SER:OG	2.22	0.44
1:B:140:ARG:HB2	1:B:728:TRP:HH2	1.82	0.44
1:B:371:ASP:OD2	1:B:372:ALA:N	2.50	0.44
1:C:254:PRO:HG3	1:C:291:GLY:HA2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:792:ARG:H	1:C:792:ARG:HD3	1.82	0.44
1:C:818:PRO:HB3	1:C:824:VAL:HG11	1.98	0.44
1:C:830:LYS:HA	1:C:830:LYS:HD3	1.74	0.44
1:C:978:ASN:C	1:C:978:ASN:HD22	2.25	0.44
1:C:1248:ASN:OD1	1:C:1249:ALA:N	2.49	0.44
1:D:221:ARG:HG3	1:D:222:PHE:CD1	2.52	0.44
1:D:1138:GLU:HG2	1:D:1139:ILE:N	2.32	0.44
1:A:61:GLN:OE1	1:A:93:PRO:HG2	2.16	0.44
1:A:143:SER:O	1:A:144:LEU:HD23	2.18	0.44
1:A:274:ASN:OD1	1:C:429:TYR:HD2	1.99	0.44
1:A:501:ALA:HB2	1:A:622:SER:HA	1.99	0.44
1:A:780:PHE:HA	1:A:803:SER:O	2.18	0.44
1:A:797:VAL:HG22	1:A:846:ASN:OD1	2.17	0.44
1:B:648:PHE:HB2	1:B:653:TYR:CD1	2.49	0.44
1:B:781:PHE:HB2	1:B:803:SER:HB3	1.99	0.44
1:B:985:GLU:HG2	1:B:986:LEU:N	2.32	0.44
1:C:25:TYR:CZ	1:C:678:THR:HA	2.52	0.44
1:C:346:LEU:HB2	1:C:369:LEU:HD13	1.98	0.44
1:C:378:ALA:O	1:C:380:GLU:HG2	2.17	0.44
1:C:397:ASP:OD2	1:C:401:ARG:HB2	2.17	0.44
1:C:481:LEU:O	1:C:482:ASP:HB2	2.17	0.44
1:C:1219:ASN:OD1	1:C:1225:ARG:NH1	2.50	0.44
1:C:1358:GLN:HE21	1:C:1387:ASN:HB3	1.82	0.44
1:D:73:GLN:O	1:D:77:TYR:OH	2.28	0.44
1:D:145:ASN:HB3	1:D:149:LEU:HB2	1.98	0.44
1:D:222:PHE:HE1	1:D:247:TYR:CD1	2.35	0.44
1:D:456:LEU:HD11	1:D:548:ILE:HD12	1.99	0.44
1:D:640:CYS:SG	1:D:641:GLU:N	2.90	0.44
1:D:752:TRP:HB2	1:D:774:PHE:HB3	1.99	0.44
1:D:796:LEU:O	1:D:846:ASN:HA	2.18	0.44
1:D:799:LYS:HE3	1:D:842:SER:O	2.18	0.44
1:D:1024:TRP:CZ3	1:D:1073:MET:HB2	2.52	0.44
1:D:1414:LEU:HD12	1:D:1415:ASN:HB2	1.98	0.44
1:A:346:LEU:HD21	1:A:421:SER:HA	2.00	0.44
1:A:848:ILE:HG12	1:A:849:ALA:H	1.83	0.44
1:A:1183:VAL:O	1:A:1186:THR:OG1	2.29	0.44
1:B:342:GLN:NE2	1:B:430:TYR:O	2.50	0.44
1:B:354:LYS:HA	1:B:354:LYS:HD2	1.71	0.44
1:C:379:ASN:OD1	1:C:395:LEU:HB2	2.17	0.44
1:C:1257:SER:HB3	1:C:1287:TYR:CE1	2.52	0.44
1:D:802:VAL:O	1:D:840:ARG:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:348:PHE:CE2	1:A:443:HIS:HB2	2.52	0.44
1:A:620:TYR:CD2	1:A:623:LEU:HD21	2.52	0.44
1:B:380:GLU:C	1:B:395:LEU:HD23	2.42	0.44
1:B:624:PHE:N	1:B:628:TYR:OH	2.47	0.44
1:B:698:ARG:HD2	1:B:698:ARG:HA	1.81	0.44
1:B:859:VAL:HG12	1:B:885:VAL:H	1.82	0.44
1:C:39:GLN:O	1:C:82:LYS:HA	2.18	0.44
1:C:797:VAL:HG21	1:C:1412:ARG:NH1	2.32	0.44
1:C:1097:TYR:HB3	1:C:1101:MET:HE1	1.99	0.44
1:D:188:ILE:HD13	1:D:996:GLU:HB2	1.99	0.44
1:D:659:SER:OG	1:D:662:GLU:HB3	2.17	0.44
1:D:902:SER:O	1:D:1300:GLN:HA	2.17	0.44
1:D:1190:LEU:HD23	1:D:1236:ALA:HB1	1.98	0.44
1:A:157:ALA:HB3	1:A:201:GLU:CD	2.42	0.44
1:A:932:ALA:HB2	1:A:1303:ILE:HD13	1.98	0.44
1:A:933:PHE:O	1:A:1302:THR:OG1	2.32	0.44
1:A:1119:SER:OG	1:A:1124:LYS:NZ	2.33	0.44
1:A:1322:SER:CB	1:A:1440:PRO:HG3	2.48	0.44
1:B:593:VAL:HG23	1:B:756:MET:SD	2.58	0.44
1:B:609:LEU:O	1:B:609:LEU:HD23	2.17	0.44
1:B:1355:ILE:O	1:B:1390:PHE:HA	2.17	0.44
1:C:495:TYR:HB3	1:C:507:GLY:C	2.42	0.44
1:D:109:ASP:HB3	1:D:111:LYS:HZ3	1.81	0.44
1:D:268:TYR:N	1:D:277:LYS:HZ2	2.15	0.44
1:A:131:TYR:CE2	1:A:137:VAL:HA	2.53	0.44
1:A:377:MET:N	1:A:377:MET:SD	2.91	0.44
1:A:494:TYR:CD1	1:A:508:GLN:HB3	2.52	0.44
1:A:1234:LEU:HD13	1:A:1237:LEU:HD22	1.98	0.44
1:B:219:LEU:HD21	1:B:718:LEU:HD22	1.98	0.44
1:B:572:LEU:HB3	1:B:777:PHE:HE1	1.83	0.44
1:C:268:TYR:HD2	1:C:274:ASN:OD1	2.01	0.44
1:C:1201:HIS:ND1	1:C:1204:LEU:HD12	2.32	0.44
1:D:27:LEU:HD23	1:D:43:VAL:HG23	1.99	0.44
1:D:68:PHE:CE2	1:D:81:ASN:HB2	2.53	0.44
1:D:263:ARG:HH22	1:D:313:GLN:H	1.66	0.44
1:D:552:ILE:HG23	1:D:554:LEU:HG	1.99	0.44
1:D:859:VAL:HG22	1:D:860:SER:H	1.81	0.44
1:D:1005:LYS:HA	1:D:1011:TYR:CD1	2.52	0.44
1:D:1075:GLN:HE21	1:D:1347:ARG:NH1	2.14	0.44
1:A:59:GLU:OE1	1:A:59:GLU:N	2.51	0.44
1:A:269:TYR:CE1	1:A:277:LYS:HG3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:296:PHE:CZ	1:A:298:GLY:HA3	2.53	0.44
1:A:1385:GLN:O	1:A:1388:HIS:N	2.50	0.44
1:B:1131:PHE:CD2	1:B:1139:ILE:HD12	2.53	0.44
1:B:1339:VAL:O	1:B:1402:GLN:HA	2.18	0.44
1:B:1355:ILE:HG13	1:B:1423:VAL:HG22	1.99	0.44
1:D:158:VAL:HG23	1:D:171:TRP:HB2	1.98	0.44
1:D:894:GLU:OE1	1:D:895:GLY:N	2.51	0.44
1:A:268:TYR:OH	1:A:312:PHE:N	2.45	0.44
1:A:598:SER:CB	1:A:753:GLN:HE21	2.30	0.44
1:B:36:GLY:N	1:B:85:VAL:HG13	2.33	0.44
1:C:88:VAL:HG12	1:C:90:THR:H	1.82	0.44
1:C:574:PRO:HD2	1:C:577:SER:HB2	1.99	0.44
1:C:802:VAL:O	1:C:840:ARG:HA	2.17	0.44
1:C:917:ILE:HD11	1:C:1287:TYR:HD2	1.83	0.44
1:D:499:SER:OG	1:D:500:ARG:N	2.51	0.44
1:D:874:SER:OG	1:D:877:SER:HB2	2.18	0.44
1:D:1074:ARG:NH1	1:D:1395:ALA:HB2	2.32	0.44
1:D:1087:TYR:HB2	1:D:1126:TYR:CE2	2.53	0.44
1:A:528:THR:C	1:A:530:ASP:H	2.25	0.44
1:A:653:TYR:CD2	1:A:654:TYR:N	2.86	0.44
1:A:864:THR:O	1:A:876:GLN:NE2	2.50	0.44
1:A:1154:GLU:OE2	1:A:1159:HIS:ND1	2.51	0.44
1:B:257:VAL:HG22	1:B:322:VAL:HG22	2.00	0.44
1:B:271:ARG:N	1:B:275:CYS:HA	2.33	0.44
1:B:456:LEU:HD22	1:B:548:ILE:HB	1.99	0.44
1:B:470:VAL:HA	1:B:526:ASN:HA	2.00	0.44
1:B:694:PHE:HB3	1:B:697:PRO:HG3	1.98	0.44
1:B:1154:GLU:HB2	1:B:1157:THR:OG1	2.18	0.44
1:C:56:VAL:N	1:C:68:PHE:O	2.43	0.44
1:C:140:ARG:HA	1:C:181:VAL:O	2.18	0.44
1:C:653:TYR:HB2	1:D:657:VAL:O	2.17	0.44
1:C:1257:SER:HB3	1:C:1287:TYR:CD1	2.53	0.44
1:C:1367:TYR:HB3	1:C:1368:PRO:HD3	2.00	0.44
1:D:263:ARG:HH22	1:D:313:GLN:C	2.26	0.44
1:D:303:LEU:N	1:D:304:PRO:HD2	2.33	0.44
1:D:495:TYR:CE1	1:D:523:ILE:HG12	2.53	0.44
1:D:931:SER:OG	1:D:1304:ARG:NE	2.49	0.44
1:A:55:SER:O	1:A:98:LEU:HA	2.18	0.43
1:A:151:ILE:HG23	1:A:153:GLU:OE2	2.18	0.43
1:A:167:ARG:HD2	1:A:1273:LEU:HD12	1.99	0.43
1:A:414:GLU:HA	1:A:447:ARG:HH22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:ILE:HG23	1:A:654:TYR:CD2	2.53	0.43
1:A:940:VAL:HG13	1:A:941:LEU:HD22	2.00	0.43
1:A:1037:LYS:HA	1:A:1040:ILE:O	2.18	0.43
1:B:530:ASP:OD1	1:B:530:ASP:N	2.49	0.43
1:B:798:MET:HG2	1:B:845:TRP:H	1.83	0.43
1:B:830:LYS:HD3	1:B:830:LYS:HA	1.65	0.43
1:B:943:LEU:HB3	1:B:944:PRO:HD3	1.99	0.43
1:C:57:VAL:HB	1:C:97:THR:OG1	2.18	0.43
1:C:659:SER:HB3	1:C:662:GLU:OE2	2.18	0.43
1:C:1255:LEU:HG	1:C:1262:VAL:HB	2.00	0.43
1:C:1356:ASP:HA	1:C:1389:VAL:O	2.18	0.43
1:D:222:PHE:HE1	1:D:247:TYR:CE1	2.36	0.43
1:D:263:ARG:HH12	1:D:312:PHE:HA	1.83	0.43
1:D:290:LEU:HD12	1:D:294:GLY:HA2	1.99	0.43
1:D:1014:PHE:HB3	1:D:1381:LYS:HE2	2.00	0.43
1:A:303:LEU:N	1:A:304:PRO:HD2	2.32	0.43
1:A:989:THR:HA	1:A:992:GLN:HE21	1.83	0.43
1:A:1195:LYS:HD3	1:A:1195:LYS:HA	1.83	0.43
1:A:1340:SER:HB2	1:A:1400:THR:HG23	2.00	0.43
1:B:154:LYS:HZ3	1:B:174:GLN:C	2.26	0.43
1:B:368:ILE:HA	1:B:400:GLY:O	2.18	0.43
1:B:589:SER:H	1:B:733:VAL:HB	1.82	0.43
1:B:813:ILE:HG22	1:B:862:GLU:CD	2.43	0.43
1:B:934:VAL:HA	1:B:1300:GLN:O	2.17	0.43
1:B:1351:ASN:ND2	1:B:1427:TYR:HB2	2.34	0.43
1:B:1372:GLN:HA	1:B:1375:ASN:OD1	2.18	0.43
1:C:257:VAL:HG23	1:C:322:VAL:HG12	2.00	0.43
1:C:346:LEU:HD11	1:C:367:VAL:HG23	1.99	0.43
1:C:788:TYR:HB3	1:C:1387:ASN:HD21	1.82	0.43
1:C:970:PRO:HB3	1:C:1039:TYR:CE2	2.52	0.43
1:D:359:ARG:CZ	1:D:410:SER:H	2.31	0.43
1:D:1046:ILE:O	1:D:1049:GLN:HG2	2.17	0.43
1:D:1121:LEU:HA	1:D:1124:LYS:HD2	1.99	0.43
1:A:23:VAL:HG12	1:A:47:GLY:C	2.43	0.43
1:A:25:TYR:CD2	1:A:679:SER:HB3	2.53	0.43
1:A:137:VAL:HG13	1:A:139:PHE:HE1	1.84	0.43
1:A:271:ARG:HE	1:C:432:GLU:HA	1.84	0.43
1:A:962:ASN:HA	1:A:965:ARG:HG2	1.99	0.43
1:A:998:TYR:CE1	1:A:1042:VAL:HG23	2.53	0.43
1:A:1043:ASP:OD1	1:A:1044:GLY:N	2.51	0.43
1:B:148:LEU:C	1:B:149:LEU:HD12	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:540:TYR:CD2	1:B:547:LEU:HD11	2.52	0.43
1:B:783:GLU:HG2	1:B:801:PHE:HB2	1.99	0.43
1:B:790:LEU:O	1:B:891:VAL:HA	2.18	0.43
1:B:1425:ASP:HB2	1:B:1428:GLU:O	2.19	0.43
1:C:763:GLU:OE1	1:C:763:GLU:N	2.51	0.43
1:C:1101:MET:HE3	1:C:1101:MET:HB3	1.93	0.43
1:C:1333:TYR:CD2	1:C:1409:ILE:HG21	2.51	0.43
1:D:452:THR:N	1:D:546:GLU:OE2	2.24	0.43
1:D:719:ARG:HG3	1:D:720:LYS:NZ	2.33	0.43
1:D:941:LEU:HD12	1:D:975:TYR:CD2	2.54	0.43
1:D:948:LEU:HD11	1:D:969:ILE:HB	2.00	0.43
1:D:1347:ARG:NH2	1:D:1425:ASP:OD2	2.51	0.43
1:A:217:TYR:HA	1:A:788:TYR:HE2	1.84	0.43
1:A:408:THR:HA	1:A:411:PHE:CE2	2.54	0.43
1:A:750:THR:CG2	1:A:751:LYS:H	2.23	0.43
1:A:1060:LEU:HD11	1:A:1066:LYS:HB2	2.00	0.43
1:A:1066:LYS:HD2	1:A:1081:ASP:CG	2.44	0.43
1:A:1208:ALA:O	1:A:1212:VAL:HG23	2.18	0.43
1:B:30:PRO:HD3	1:B:503:ILE:HD12	2.01	0.43
1:B:56:VAL:HB	1:B:68:PHE:H	1.82	0.43
1:B:99:SER:OG	1:B:108:LYS:HG3	2.18	0.43
1:B:377:MET:SD	1:B:377:MET:N	2.91	0.43
1:B:479:LEU:O	1:B:517:LYS:HD2	2.19	0.43
1:B:624:PHE:HZ	1:B:698:ARG:NH1	2.15	0.43
1:B:794:GLU:C	1:B:848:ILE:HD12	2.44	0.43
1:B:796:LEU:HA	1:B:1413:VAL:HG23	2.00	0.43
1:C:960:GLU:HG2	1:C:1025:LEU:HD13	1.98	0.43
1:D:198:ILE:HD11	1:D:212:PHE:CZ	2.53	0.43
1:D:647:ILE:O	1:D:654:TYR:N	2.47	0.43
1:D:798:MET:HE1	1:D:800:ALA:HB2	2.01	0.43
1:D:861:ALA:O	1:D:882:LYS:HD2	2.18	0.43
1:D:1010:ALA:HB2	1:D:1053:TYR:CZ	2.54	0.43
1:D:1255:LEU:HD12	1:D:1288:SER:O	2.18	0.43
1:A:357:TYR:O	1:A:358:LYS:HD3	2.18	0.43
1:A:1327:CYS:C	1:A:1329:ASN:H	2.26	0.43
1:B:59:GLU:OE2	1:B:110:ARG:NH1	2.52	0.43
1:B:123:LEU:HD21	1:B:609:LEU:HA	1.99	0.43
1:B:565:SER:HB3	1:B:584:SER:OG	2.18	0.43
1:B:1307:ILE:HG23	1:B:1310:PRO:HD3	2.00	0.43
1:C:678:THR:HG22	1:C:680:SER:H	1.83	0.43
1:C:954:MET:HE3	1:C:1424:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1004:TYR:HE1	1:C:1015:TRP:CD1	2.35	0.43
1:D:188:ILE:HG23	1:D:191:ALA:N	2.31	0.43
1:D:263:ARG:NH1	1:D:313:GLN:H	2.14	0.43
1:D:470:VAL:HA	1:D:525:LEU:O	2.19	0.43
1:D:528:THR:H	1:D:531:LEU:HD13	1.82	0.43
1:D:1307:ILE:HG23	1:D:1310:PRO:HD3	2.00	0.43
1:A:98:LEU:O	1:A:108:LYS:HD2	2.18	0.43
1:A:306:GLN:NE2	1:A:309:GLN:OE1	2.42	0.43
1:A:401:ARG:CZ	1:A:401:ARG:HA	2.49	0.43
1:A:747:ASP:O	1:A:749:ILE:N	2.51	0.43
1:B:423:GLU:OE1	1:D:272:LYS:NZ	2.43	0.43
1:B:457:ASP:O	1:B:475:VAL:HG13	2.18	0.43
1:C:162:ASP:OD1	1:C:162:ASP:N	2.51	0.43
1:C:358:LYS:HB3	1:C:455:PHE:CD2	2.54	0.43
1:C:752:TRP:HZ3	1:C:776:SER:N	2.13	0.43
1:C:823:GLU:HB3	1:C:848:ILE:CG2	2.49	0.43
1:D:125:GLN:HB2	1:D:140:ARG:O	2.17	0.43
1:D:786:LEU:HD12	1:D:887:GLN:HB3	2.01	0.43
1:D:1024:TRP:HZ3	1:D:1073:MET:HB2	1.84	0.43
1:D:1282:GLU:O	1:D:1287:TYR:OH	2.23	0.43
1:A:459:GLN:OE1	1:A:475:VAL:HA	2.18	0.43
1:A:537:LEU:O	1:A:551:THR:HA	2.19	0.43
1:A:621:LEU:O	1:A:622:SER:OG	2.34	0.43
1:A:1181:ALA:HA	1:A:1184:GLU:HG2	1.99	0.43
1:A:1190:LEU:HD22	1:A:1207:MET:CE	2.48	0.43
1:A:1335:ILE:O	1:A:1406:LYS:HD3	2.18	0.43
1:B:56:VAL:CG2	1:B:68:PHE:HB2	2.49	0.43
1:B:232:ILE:HG23	1:B:339:ILE:HA	2.00	0.43
1:B:358:LYS:NZ	1:B:448:PHE:O	2.51	0.43
1:B:492:THR:HG22	1:B:510:ASP:HB3	2.01	0.43
1:B:1341:VAL:O	1:B:1400:THR:HA	2.18	0.43
1:C:266:SER:HB3	1:C:268:TYR:CE1	2.54	0.43
1:C:385:GLU:HG2	1:C:419:VAL:HG13	2.01	0.43
1:C:652:ARG:HD2	1:C:654:TYR:OH	2.17	0.43
1:D:101:SER:HA	1:D:106:ASP:HB3	2.00	0.43
1:D:357:TYR:CD1	1:D:445:VAL:HG23	2.54	0.43
1:D:373:ASN:OD1	1:D:373:ASN:N	2.51	0.43
1:D:972:VAL:HG22	1:D:976:LEU:HD23	2.01	0.43
1:D:1226:SER:HB3	1:D:1229:ASP:OD2	2.17	0.43
1:A:44:ASN:C	1:A:45:LEU:HD22	2.44	0.43
1:A:895:GLY:HA2	1:A:1434:PHE:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1251:HIS:CE1	1:A:1253:VAL:HB	2.47	0.43
1:B:137:VAL:C	1:B:138:ARG:HD3	2.43	0.43
1:B:221:ARG:HA	1:B:248:THR:CG2	2.49	0.43
1:B:544:ASP:OD1	1:B:544:ASP:N	2.51	0.43
1:B:589:SER:HB2	1:B:733:VAL:HG21	2.01	0.43
1:B:627:ASN:HA	1:B:631:PHE:O	2.18	0.43
1:B:931:SER:OG	1:B:1304:ARG:HB3	2.18	0.43
1:C:27:LEU:HD11	1:C:98:LEU:HD11	2.01	0.43
1:C:29:ILE:C	1:C:674:LEU:HD12	2.44	0.43
1:C:160:LEU:HD12	1:C:197:THR:O	2.18	0.43
1:C:537:LEU:HB3	1:C:552:ILE:CG2	2.49	0.43
1:C:541:CYS:C	1:C:547:LEU:HD12	2.44	0.43
1:C:794:GLU:H	1:C:849:ALA:HB3	1.84	0.43
1:C:880:THR:HG23	1:C:882:LYS:HE2	2.00	0.43
1:C:1250:HIS:O	1:C:1294:THR:N	2.33	0.43
1:C:1321:ASP:OD1	1:C:1338:THR:HG23	2.19	0.43
1:D:172:GLN:H	1:D:174:GLN:HE22	1.66	0.43
1:D:282:ILE:HG23	1:D:282:ILE:O	2.19	0.43
1:D:659:SER:OG	1:D:662:GLU:OE1	2.34	0.43
1:D:780:PHE:CZ	1:D:802:VAL:HG23	2.54	0.43
1:A:353:LEU:HD23	1:A:363:TYR:CE2	2.47	0.43
1:A:355:GLU:OE1	1:A:355:GLU:N	2.50	0.43
1:A:748:THR:HA	1:A:752:TRP:CZ2	2.53	0.43
1:A:939:ASP:C	1:A:941:LEU:H	2.22	0.43
1:A:1157:THR:O	1:A:1158:LEU:HD12	2.19	0.43
1:B:323:THR:HG22	1:B:330:GLN:CB	2.48	0.43
1:B:716:GLU:HA	1:B:719:ARG:HH22	1.83	0.43
1:B:1385:GLN:HE21	1:B:1390:PHE:HE1	1.64	0.43
1:C:131:TYR:HB2	1:C:214:VAL:HA	2.01	0.43
1:C:512:HIS:ND1	1:C:514:ASN:OD1	2.52	0.43
1:C:778:LEU:HB2	1:C:781:PHE:HE1	1.84	0.43
1:D:93:PRO:HA	1:D:114:VAL:HA	2.01	0.43
1:D:316:LEU:O	1:D:336:PHE:HA	2.19	0.43
1:D:555:ASP:C	1:D:556:ILE:HD12	2.44	0.43
1:D:598:SER:O	1:D:601:LEU:HB2	2.18	0.43
1:D:1023:SER:HB2	1:D:1068:GLU:HB3	2.01	0.43
1:A:32:LEU:HD11	1:A:627:ASN:HB2	2.00	0.43
1:A:385:GLU:HG3	1:A:390:THR:HB	2.00	0.43
1:A:615:TYR:HA	1:A:618:ILE:HD12	2.01	0.43
1:A:978:ASN:OD1	1:A:979:THR:N	2.52	0.43
1:B:110:ARG:O	1:B:111:LYS:HE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:HIS:N	1:B:525:LEU:O	2.43	0.43
1:B:862:GLU:OE1	1:B:862:GLU:N	2.52	0.43
1:B:949:GLN:HA	1:B:965:ARG:HG2	2.00	0.43
1:C:1009:GLY:HA2	1:C:1049:GLN:HG3	2.01	0.43
1:C:1101:MET:HG2	1:C:1104:LEU:H	1.84	0.43
1:D:89:ILE:HG13	1:D:90:THR:OG1	2.18	0.43
1:D:536:GLU:HG3	1:D:672:VAL:HG22	2.00	0.43
1:D:587:PRO:HG3	1:D:736:GLU:HA	2.01	0.43
1:D:1165:LYS:HD3	1:D:1168:GLN:OE1	2.19	0.43
1:D:1425:ASP:HB2	1:D:1428:GLU:O	2.19	0.43
1:A:219:LEU:HA	1:A:220:PRO:HD3	1.79	0.42
1:A:263:ARG:NH1	1:A:312:PHE:HB3	2.34	0.42
1:A:813:ILE:HG13	1:A:814:VAL:N	2.28	0.42
1:A:1115:MET:HE1	1:A:1127:THR:HG21	2.01	0.42
1:B:125:GLN:HB3	1:B:140:ARG:HB3	2.01	0.42
1:B:798:MET:SD	1:B:845:TRP:HB2	2.59	0.42
1:B:810:ILE:HB	1:B:865:HIS:HB2	2.00	0.42
1:B:1225:ARG:HD3	1:B:1225:ARG:HA	1.81	0.42
1:B:1356:ASP:HA	1:B:1389:VAL:O	2.19	0.42
1:C:124:ILE:HG13	1:C:210:GLN:HB2	2.00	0.42
1:C:755:SER:OG	1:C:756:MET:N	2.52	0.42
1:D:25:TYR:HB3	1:D:45:LEU:HD13	2.01	0.42
1:D:128:LYS:H	1:D:594:LYS:HZ1	1.67	0.42
1:D:544:ASP:N	1:D:544:ASP:OD1	2.51	0.42
1:D:1350:THR:HG21	1:D:1396:VAL:H	1.84	0.42
1:A:247:TYR:CD2	1:A:253:VAL:HG22	2.53	0.42
1:A:810:ILE:HD11	1:A:875:ASP:HB2	2.01	0.42
1:A:1383:GLU:HB3	1:A:1390:PHE:HB2	2.02	0.42
1:B:264:GLU:O	1:B:313:GLN:HG2	2.18	0.42
1:B:412:VAL:O	1:B:412:VAL:HG12	2.19	0.42
1:B:567:SER:OG	1:B:582:ASN:O	2.25	0.42
1:B:794:GLU:HA	1:B:1415:ASN:ND2	2.34	0.42
1:B:934:VAL:HG23	1:B:1280:LEU:HD11	2.01	0.42
1:C:40:ARG:HE	1:C:503:ILE:HG22	1.83	0.42
1:C:196:TYR:HE2	1:C:214:VAL:HG11	1.83	0.42
1:C:502:LYS:O	1:C:504:VAL:HG13	2.19	0.42
1:C:930:ALA:HA	1:C:1304:ARG:O	2.19	0.42
1:C:969:ILE:HG13	1:C:970:PRO:HD3	2.00	0.42
1:C:1044:GLY:O	1:C:1048:GLN:HG2	2.19	0.42
1:D:93:PRO:HA	1:D:113:VAL:O	2.19	0.42
1:D:380:GLU:C	1:D:395:LEU:HD23	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:991:VAL:HG22	1:D:1040:ILE:HD13	2.01	0.42
1:A:42:CYS:HB2	1:A:79:LYS:O	2.19	0.42
1:A:59:GLU:HA	1:A:65:ILE:O	2.19	0.42
1:A:128:LYS:HD2	1:A:725:THR:HG22	2.02	0.42
1:A:185:PHE:CD2	1:A:187:LEU:HD23	2.55	0.42
1:A:1130:VAL:O	1:A:1133:LEU:HG	2.19	0.42
1:A:1179:SER:OG	1:A:1180:PRO:HD3	2.19	0.42
1:A:1186:THR:HA	1:A:1189:MET:CE	2.50	0.42
1:A:1218:GLN:HA	1:A:1224:PHE:HZ	1.84	0.42
1:B:813:ILE:HG22	1:B:862:GLU:OE2	2.18	0.42
1:B:1248:ASN:OD1	1:B:1249:ALA:N	2.44	0.42
1:C:155:TYR:CE2	1:C:202:GLY:HA3	2.54	0.42
1:C:1137:TRP:C	1:C:1141:ASN:HD22	2.27	0.42
1:D:575:THR:H	1:D:778:LEU:HD21	1.84	0.42
1:D:751:LYS:HB3	1:D:753:GLN:HE22	1.84	0.42
1:D:808:GLU:HB2	1:D:867:GLY:O	2.20	0.42
1:D:943:LEU:HB3	1:D:944:PRO:HD3	2.00	0.42
1:D:1418:SER:OG	1:D:1437:TYR:O	2.24	0.42
1:A:131:TYR:HE2	1:A:137:VAL:HA	1.83	0.42
1:A:147:MET:HG2	1:A:149:LEU:N	2.34	0.42
1:A:228:PRO:HB2	1:A:230:ASN:OD1	2.19	0.42
1:A:263:ARG:CG	1:A:313:GLN:HE21	2.33	0.42
1:A:398:LYS:HE3	1:A:398:LYS:HB3	1.81	0.42
1:A:1368:PRO:O	1:A:1371:ARG:HD3	2.18	0.42
1:B:74:PRO:HB3	1:B:75:PRO:HD2	2.00	0.42
1:B:121:ILE:O	1:B:143:SER:HA	2.19	0.42
1:B:344:ALA:HA	1:B:370:THR:O	2.19	0.42
1:B:359:ARG:CZ	1:B:410:SER:HA	2.49	0.42
1:B:540:TYR:HA	1:B:548:ILE:O	2.19	0.42
1:B:1355:ILE:CG2	1:B:1391:LEU:HB2	2.50	0.42
1:C:217:TYR:HD1	1:C:718:LEU:HD11	1.83	0.42
1:C:240:THR:HB	1:C:299:VAL:HG12	2.01	0.42
1:C:424:ASN:HB3	1:C:427:GLN:NE2	2.33	0.42
1:C:1132:THR:HG21	1:C:1192:SER:HA	2.00	0.42
1:C:1343:TYR:C	1:C:1344:ARG:HD2	2.44	0.42
1:D:262:CYS:HB3	1:D:282:ILE:O	2.20	0.42
1:D:264:GLU:OE2	1:D:266:SER:N	2.52	0.42
1:D:369:LEU:HG	1:D:377:MET:HG3	2.01	0.42
1:D:455:PHE:O	1:D:477:TYR:HA	2.19	0.42
1:D:785:SER:O	1:D:786:LEU:HD23	2.20	0.42
1:D:1358:GLN:HB2	1:D:1388:HIS:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:TYR:CG	1:A:253:VAL:HG22	2.54	0.42
1:A:963:LEU:HA	1:A:966:MET:HG3	2.02	0.42
1:B:753:GLN:HA	1:B:772:ALA:O	2.19	0.42
1:C:495:TYR:CZ	1:C:537:LEU:HD11	2.54	0.42
1:C:604:ASN:OD1	1:C:606:TYR:HB3	2.18	0.42
1:D:33:LEU:O	1:D:115:ILE:HD12	2.19	0.42
1:D:188:ILE:CG2	1:D:191:ALA:H	2.30	0.42
1:D:357:TYR:CE1	1:D:416:PHE:HD2	2.37	0.42
1:A:297:TYR:HB3	1:A:298:GLY:H	1.65	0.42
1:A:571:ASP:OD1	1:A:572:LEU:N	2.50	0.42
1:A:878:GLN:HG3	1:A:879:SER:N	2.27	0.42
1:A:988:GLN:NE2	1:A:989:THR:HG23	2.34	0.42
1:A:1158:LEU:O	1:A:1210:ILE:HG22	2.20	0.42
1:A:1336:THR:OG1	1:A:1406:LYS:HE2	2.20	0.42
1:B:1357:ILE:HG13	1:B:1421:VAL:HG13	2.00	0.42
1:B:1384:GLU:OE1	1:B:1384:GLU:N	2.52	0.42
1:C:500:ARG:HG3	1:C:501:ALA:N	2.34	0.42
1:C:560:PHE:O	1:C:561:GLN:HG3	2.20	0.42
1:C:650:LYS:HD2	1:C:651:GLY:N	2.34	0.42
1:C:817:GLN:NE2	1:C:858:ILE:O	2.53	0.42
1:D:138:ARG:HB3	1:D:728:TRP:CE2	2.55	0.42
1:D:780:PHE:CZ	1:D:782:VAL:HB	2.55	0.42
1:D:822:PHE:CE2	1:D:824:VAL:HB	2.55	0.42
1:D:1015:TRP:CG	1:D:1016:SER:N	2.88	0.42
1:A:131:TYR:HE2	1:A:137:VAL:HG23	1.85	0.42
1:A:233:SER:OG	1:A:236:ASP:OD1	2.34	0.42
1:A:649:CYS:SG	1:A:650:LYS:HB3	2.60	0.42
1:A:1364:GLN:O	1:A:1408:LEU:HG	2.20	0.42
1:A:1380:SER:HB3	1:A:1394:ASN:ND2	2.34	0.42
1:B:29:ILE:HD13	1:B:41:ALA:HB2	2.02	0.42
1:B:321:THR:HA	1:B:331:VAL:O	2.19	0.42
1:B:626:TYR:CD2	1:B:670:ARG:HG3	2.55	0.42
1:B:901:THR:HG21	1:B:1219:ASN:HA	2.01	0.42
1:B:939:ASP:N	1:B:1272:ARG:O	2.53	0.42
1:B:989:THR:HG22	1:B:993:PHE:CE2	2.55	0.42
1:B:990:ALA:O	1:B:994:LEU:HG	2.19	0.42
1:B:1360:LEU:HD11	1:B:1417:LYS:O	2.19	0.42
1:C:366:LYS:HE2	1:C:366:LYS:HB2	1.89	0.42
1:C:383:GLU:HB2	1:C:421:SER:OG	2.20	0.42
1:D:54:LEU:HG	1:D:70:GLU:O	2.20	0.42
1:D:398:LYS:HE2	1:D:398:LYS:HB2	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:729:ARG:CZ	1:D:741:ILE:HD12	2.50	0.42
1:D:790:LEU:HG	1:D:889:ILE:HD11	2.01	0.42
1:A:193:PRO:HB3	1:A:215:ASP:CG	2.44	0.42
1:A:241:LEU:HD11	1:A:300:VAL:HG23	2.02	0.42
1:A:361:ILE:HG23	1:A:478:ILE:CD1	2.49	0.42
1:A:648:PHE:CZ	1:B:652:ARG:HB3	2.55	0.42
1:A:950:ASN:OD1	1:A:950:ASN:N	2.48	0.42
1:A:963:LEU:HG	1:A:1028:TYR:HE2	1.84	0.42
1:A:1048:GLN:O	1:A:1052:LEU:HG	2.20	0.42
1:C:74:PRO:HB3	1:C:75:PRO:HD2	2.01	0.42
1:C:92:ALA:O	1:C:114:VAL:HA	2.20	0.42
1:C:218:ILE:H	1:C:718:LEU:HD21	1.85	0.42
1:C:993:PHE:HA	1:C:996:GLU:CD	2.45	0.42
1:D:217:TYR:CE1	1:D:219:LEU:HD11	2.55	0.42
1:D:451:GLU:HG3	1:D:546:GLU:OE2	2.20	0.42
1:D:492:THR:HG22	1:D:510:ASP:CG	2.45	0.42
1:D:650:LYS:HD2	1:D:650:LYS:C	2.45	0.42
1:D:860:SER:HB3	1:D:882:LYS:NZ	2.35	0.42
1:D:976:LEU:HD13	1:D:981:GLN:HB3	2.01	0.42
1:D:1379:VAL:HG12	1:D:1393:LEU:HD11	2.02	0.42
1:A:42:CYS:SG	1:A:78:PHE:HE1	2.43	0.42
1:A:54:LEU:HB3	1:A:71:LYS:O	2.20	0.42
1:A:117:PRO:C	1:A:118:LEU:HD22	2.45	0.42
1:A:254:PRO:HB2	1:A:325:GLU:OE2	2.20	0.42
1:A:468:GLY:N	1:A:527:VAL:HG13	2.35	0.42
1:A:620:TYR:HD2	1:A:623:LEU:HD21	1.85	0.42
1:A:648:PHE:O	1:A:654:TYR:HA	2.20	0.42
1:A:1120:THR:O	1:A:1124:LYS:HG3	2.19	0.42
1:B:963:LEU:HD23	1:B:966:MET:HE2	2.01	0.42
1:B:1249:ALA:HB3	1:B:1272:ARG:HH22	1.84	0.42
1:C:552:ILE:HG23	1:C:554:LEU:HG	2.02	0.42
1:D:153:GLU:N	1:D:176:SER:OG	2.46	0.42
1:D:484:MET:N	1:D:484:MET:SD	2.93	0.42
1:D:565:SER:HB3	1:D:584:SER:OG	2.20	0.42
1:D:792:ARG:NH1	1:D:852:LEU:HG	2.35	0.42
1:D:864:THR:HG23	1:D:864:THR:O	2.19	0.42
1:A:119:ASN:ND2	1:A:204:SER:OG	2.53	0.42
1:A:275:CYS:SG	1:A:276:PHE:N	2.92	0.42
1:A:351:ASP:OD2	1:A:462:SER:HB3	2.19	0.42
1:A:1257:SER:HA	1:A:1287:TYR:HA	2.02	0.42
1:B:864:THR:HG23	1:B:864:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1005:LYS:HB2	1:B:1011:TYR:CZ	2.55	0.42
1:B:1078:GLN:HA	1:B:1080:ARG:NH2	2.35	0.42
1:C:40:ARG:HB2	1:C:502:LYS:NZ	2.35	0.42
1:C:303:LEU:N	1:C:304:PRO:HD2	2.34	0.42
1:C:575:THR:O	1:C:745:VAL:HG13	2.20	0.42
1:C:748:THR:HG22	1:C:750:THR:HG23	2.02	0.42
1:C:933:PHE:HB2	1:C:1302:THR:OG1	2.19	0.42
1:D:651:GLY:H	1:D:654:TYR:HH	1.56	0.42
1:D:753:GLN:HA	1:D:772:ALA:O	2.20	0.42
1:D:1003:ARG:HE	1:D:1015:TRP:NE1	2.18	0.42
1:D:1162:ARG:NE	1:D:1181:ALA:HB1	2.35	0.42
1:A:811:LYS:HA	1:A:833:GLN:O	2.19	0.41
1:B:124:ILE:HA	1:B:141:LEU:HD13	2.02	0.41
1:B:154:LYS:HZ1	1:B:175:GLU:HB2	1.85	0.41
1:B:495:TYR:HD1	1:B:539:VAL:HG22	1.85	0.41
1:B:1030:PHE:HE1	1:B:1047:GLN:HA	1.84	0.41
1:C:162:ASP:OD2	1:C:164:SER:OG	2.38	0.41
1:C:221:ARG:HG3	1:C:222:PHE:HD1	1.85	0.41
1:C:762:LYS:HB3	1:C:763:GLU:OE1	2.20	0.41
1:C:1158:LEU:HG	1:C:1209:GLN:HB3	2.02	0.41
1:D:385:GLU:HG3	1:D:390:THR:HG22	2.02	0.41
1:D:1010:ALA:HB2	1:D:1053:TYR:CE1	2.55	0.41
1:A:34:LYS:HB3	1:A:37:GLU:HB2	2.02	0.41
1:A:310:SER:HB3	1:C:310:SER:HB2	2.02	0.41
1:A:477:TYR:CZ	1:A:519:GLY:HA3	2.55	0.41
1:A:545:LEU:HB3	1:A:546:GLU:OE2	2.20	0.41
1:A:796:LEU:HB2	1:A:1417:LYS:HE3	2.02	0.41
1:B:343:LEU:O	1:B:372:ALA:N	2.49	0.41
1:B:346:LEU:HB3	1:B:369:LEU:HD11	2.02	0.41
1:B:598:SER:H	1:B:751:LYS:HB2	1.85	0.41
1:B:669:LEU:HD12	1:B:669:LEU:HA	1.74	0.41
1:B:733:VAL:HG13	1:B:737:GLY:CA	2.50	0.41
1:C:125:GLN:HB3	1:C:140:ARG:HB3	2.02	0.41
1:C:696:VAL:O	1:C:696:VAL:HG13	2.19	0.41
1:C:786:LEU:HD23	1:C:786:LEU:HA	1.91	0.41
1:C:1094:GLU:OE2	1:C:1133:LEU:HD11	2.20	0.41
1:C:1369:SER:O	1:C:1373:LEU:HG	2.20	0.41
1:D:44:ASN:OD1	1:D:78:PHE:HB3	2.20	0.41
1:D:263:ARG:HH21	1:D:315:SER:C	2.26	0.41
1:D:684:LYS:HG3	1:D:685:PRO:O	2.19	0.41
1:D:698:ARG:HD2	1:D:698:ARG:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1025:LEU:HA	1:D:1025:LEU:HD12	1.77	0.41
1:A:384:VAL:HG12	1:A:392:GLY:HA3	2.02	0.41
1:A:542:ILE:HD12	1:A:546:GLU:O	2.21	0.41
1:A:638:PRO:O	1:A:687:VAL:HG11	2.20	0.41
1:A:667:GLN:O	1:A:671:ARG:HG2	2.20	0.41
1:A:812:ILE:HD13	1:A:863:THR:HA	2.01	0.41
1:A:904:ASN:O	1:A:1299:VAL:HG22	2.21	0.41
1:B:84:MET:N	1:B:84:MET:SD	2.93	0.41
1:B:380:GLU:O	1:B:395:LEU:HA	2.20	0.41
1:B:1046:ILE:O	1:B:1049:GLN:HG2	2.20	0.41
1:B:1351:ASN:OD1	1:B:1425:ASP:HB3	2.20	0.41
1:C:1002:LEU:HA	1:C:1011:TYR:OH	2.19	0.41
1:C:1269:GLU:CD	1:C:1269:GLU:H	2.28	0.41
1:D:57:VAL:HB	1:D:97:THR:OG1	2.20	0.41
1:D:92:ALA:C	1:D:114:VAL:HG23	2.44	0.41
1:D:383:GLU:OE1	1:D:393:ALA:N	2.51	0.41
1:D:781:PHE:HB2	1:D:803:SER:OG	2.20	0.41
1:D:908:VAL:HG11	1:D:1291:ILE:HG23	2.01	0.41
1:D:975:TYR:CE1	1:D:979:THR:HG21	2.55	0.41
1:D:1115:MET:SD	1:D:1143:LEU:HD13	2.60	0.41
1:D:1316:PHE:HE2	1:D:1353:VAL:HG21	1.86	0.41
1:A:335:PHE:HE2	1:A:337:ILE:HD11	1.86	0.41
1:A:592:GLY:HA2	1:A:730:LEU:HA	2.02	0.41
1:A:965:ARG:O	1:A:968:PRO:HD2	2.20	0.41
1:A:1138:GLU:OE2	1:A:1139:ILE:HG12	2.21	0.41
1:B:583:LEU:HD23	1:B:739:ASN:O	2.21	0.41
1:C:29:ILE:O	1:C:674:LEU:HD12	2.19	0.41
1:C:57:VAL:HA	1:C:65:ILE:O	2.20	0.41
1:C:864:THR:O	1:C:864:THR:HG23	2.20	0.41
1:C:1309:VAL:HG12	1:C:1311:LYS:HG2	2.03	0.41
1:C:1356:ASP:CG	1:C:1388:HIS:HD1	2.27	0.41
1:D:897:ARG:NH2	1:D:1306:ASN:OD1	2.54	0.41
1:A:594:LYS:HD3	1:A:728:TRP:HZ3	1.85	0.41
1:A:628:TYR:HA	1:A:632:ASN:HB2	2.02	0.41
1:A:813:ILE:HD13	1:A:832:ASP:HB3	2.02	0.41
1:A:1327:CYS:O	1:A:1329:ASN:ND2	2.53	0.41
1:B:196:TYR:H	1:B:212:PHE:HB2	1.84	0.41
1:B:271:ARG:H	1:B:275:CYS:HA	1.85	0.41
1:B:575:THR:C	1:B:745:VAL:HG13	2.45	0.41
1:B:858:ILE:HA	1:B:885:VAL:O	2.20	0.41
1:B:1332:ALA:HB3	1:B:1335:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:419:VAL:HB	1:C:442:GLN:HB3	2.03	0.41
1:C:819:SER:HB3	1:C:822:PHE:CE1	2.55	0.41
1:C:860:SER:HA	1:C:884:THR:HG22	2.02	0.41
1:D:1033:PHE:O	1:D:1037:LYS:HB3	2.21	0.41
1:A:122:CYS:SG	1:A:208:ALA:HB2	2.60	0.41
1:A:856:SER:HB2	1:A:888:THR:HG22	2.01	0.41
1:A:1228:GLN:O	1:A:1232:VAL:HG22	2.20	0.41
1:A:1383:GLU:OE2	1:A:1385:GLN:HB2	2.19	0.41
1:B:30:PRO:HB2	1:B:33:LEU:HD23	2.01	0.41
1:B:302:LEU:O	1:B:307:MET:HE1	2.21	0.41
1:B:344:ALA:HA	1:B:371:ASP:HA	2.02	0.41
1:B:623:LEU:HD12	1:B:628:TYR:CZ	2.55	0.41
1:B:1059:LYS:HB3	1:B:1066:LYS:HB3	2.02	0.41
1:C:33:LEU:O	1:C:115:ILE:HD12	2.20	0.41
1:C:141:LEU:HB2	1:C:181:VAL:HB	2.02	0.41
1:C:696:VAL:HG22	1:C:698:ARG:HG2	2.01	0.41
1:C:815:THR:OG1	1:C:860:SER:HB2	2.20	0.41
1:D:58:LEU:HD12	1:D:95:PHE:O	2.20	0.41
1:D:78:PHE:CG	1:D:494:TYR:HE2	2.38	0.41
1:D:153:GLU:HA	1:D:203:GLU:OE2	2.21	0.41
1:D:535:ALA:H	1:D:556:ILE:HD13	1.85	0.41
1:D:552:ILE:HG13	1:D:553:SER:N	2.35	0.41
1:D:795:ILE:H	1:D:1415:ASN:HB3	1.86	0.41
1:D:1307:ILE:HA	1:D:1308:PRO:HD3	1.88	0.41
1:A:264:GLU:OE1	1:A:265:ALA:N	2.53	0.41
1:A:653:TYR:HD1	1:B:656:PRO:C	2.29	0.41
1:A:792:ARG:HB3	1:A:894:GLU:OE2	2.21	0.41
1:A:954:MET:O	1:A:965:ARG:NH2	2.54	0.41
1:A:1002:LEU:HA	1:A:1011:TYR:OH	2.21	0.41
1:A:1087:TYR:O	1:A:1090:ILE:HG22	2.21	0.41
1:B:148:LEU:HG	1:B:148:LEU:O	2.21	0.41
1:B:681:LYS:NZ	1:B:683:ARG:O	2.37	0.41
1:B:972:VAL:O	1:B:976:LEU:HG	2.20	0.41
1:C:143:SER:C	1:C:144:LEU:HD22	2.45	0.41
1:C:180:VAL:HG11	1:C:590:LEU:HD22	2.02	0.41
1:C:321:THR:HG22	1:C:332:THR:HG23	2.02	0.41
1:C:509:ARG:NH1	1:C:510:ASP:OD1	2.54	0.41
1:C:615:TYR:HA	1:C:618:ILE:HD12	2.01	0.41
1:C:662:GLU:OE1	1:C:684:LYS:HE2	2.20	0.41
1:C:1225:ARG:HD3	1:C:1225:ARG:HA	1.72	0.41
1:D:648:PHE:HA	1:D:654:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:794:GLU:H	1:D:849:ALA:HB3	1.85	0.41
1:D:882:LYS:HD2	1:D:882:LYS:HA	1.92	0.41
1:D:1165:LYS:HA	1:D:1168:GLN:HG3	2.02	0.41
1:D:1300:GLN:NE2	1:D:1302:THR:HB	2.32	0.41
1:A:897:ARG:HE	1:A:1304:ARG:CG	2.34	0.41
1:A:966:MET:HA	1:A:969:ILE:HD13	2.02	0.41
1:A:1254:PHE:CZ	1:A:1256:ARG:HD3	2.56	0.41
1:B:314:MET:HA	1:B:339:ILE:HB	2.03	0.41
1:B:867:GLY:H	1:B:874:SER:HB2	1.86	0.41
1:B:969:ILE:CG2	1:B:970:PRO:HD3	2.51	0.41
1:B:1347:ARG:NH1	1:B:1349:GLU:O	2.54	0.41
1:C:70:GLU:OE1	1:C:70:GLU:N	2.54	0.41
1:C:140:ARG:HH21	1:C:182:GLN:CD	2.28	0.41
1:C:215:ASP:OD1	1:C:215:ASP:N	2.52	0.41
1:C:268:TYR:H	1:C:277:LYS:NZ	2.15	0.41
1:C:455:PHE:HB2	1:C:478:ILE:HG22	2.02	0.41
1:C:835:ILE:HD11	1:C:840:ARG:N	2.35	0.41
1:D:94:ASP:O	1:D:112:ALA:HA	2.21	0.41
1:D:1092:LEU:HB3	1:D:1104:LEU:HD22	2.03	0.41
1:D:1289:ILE:HD13	1:D:1299:VAL:HG11	2.03	0.41
1:A:57:VAL:HA	1:A:67:ILE:O	2.21	0.41
1:A:119:ASN:CG	1:A:120:THR:H	2.29	0.41
1:A:125:GLN:OE1	1:A:140:ARG:HD2	2.20	0.41
1:A:380:GLU:C	1:A:395:LEU:HD13	2.46	0.41
1:A:734:ASP:C	1:A:736:GLU:H	2.28	0.41
1:A:827:GLN:H	1:A:843:TYR:HH	1.64	0.41
1:A:907:CYS:HA	1:A:1296:CYS:HA	2.03	0.41
1:A:937:VAL:CG2	1:A:1298:LEU:HB3	2.51	0.41
1:A:1064:CYS:HB3	1:A:1110:CYS:HB2	1.81	0.41
1:A:1141:ASN:OD1	1:A:1142:THR:N	2.54	0.41
1:A:1190:LEU:O	1:A:1194:ALA:N	2.54	0.41
1:A:1204:LEU:HD12	1:A:1205:THR:N	2.36	0.41
1:A:1232:VAL:O	1:A:1235:GLN:HB2	2.21	0.41
1:A:1357:ILE:HB	1:A:1389:VAL:HB	2.02	0.41
1:B:150:PRO:HD2	1:B:761:GLU:OE2	2.21	0.41
1:B:162:ASP:OD2	1:B:164:SER:HB3	2.21	0.41
1:B:254:PRO:HB2	1:B:325:GLU:OE1	2.21	0.41
1:B:260:LYS:HD2	1:B:285:ASN:HA	2.03	0.41
1:B:378:ALA:O	1:B:380:GLU:HG2	2.21	0.41
1:B:541:CYS:O	1:B:547:LEU:HD12	2.21	0.41
1:B:751:LYS:HB3	1:B:753:GLN:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:811:LYS:NZ	1:B:870:CYS:SG	2.71	0.41
1:B:865:HIS:CE1	1:B:878:GLN:HB3	2.56	0.41
1:B:897:ARG:NH2	1:B:929:SER:HG	2.19	0.41
1:B:1074:ARG:CZ	1:B:1351:ASN:HA	2.51	0.41
1:B:1131:PHE:HA	1:B:1134:VAL:HG22	2.03	0.41
1:C:234:ILE:HG13	1:C:307:MET:HB3	2.03	0.41
1:C:792:ARG:NH1	1:C:1417:LYS:HE2	2.35	0.41
1:C:1231:VAL:HG13	1:C:1232:VAL:N	2.36	0.41
1:D:149:LEU:HA	1:D:150:PRO:HD3	1.92	0.41
1:D:217:TYR:HD1	1:D:718:LEU:HD23	1.85	0.41
1:D:464:GLU:HA	1:D:555:ASP:OD1	2.21	0.41
1:D:528:THR:O	1:D:531:LEU:HB2	2.20	0.41
1:D:760:SER:N	1:D:764:GLY:O	2.53	0.41
1:D:792:ARG:O	1:D:1417:LYS:NZ	2.38	0.41
1:D:793:GLU:N	1:D:849:ALA:HB3	2.35	0.41
1:D:992:GLN:O	1:D:995:ASN:N	2.54	0.41
1:A:491:ALA:O	1:A:510:ASP:HA	2.21	0.41
1:A:811:LYS:HA	1:A:834:CYS:HA	2.03	0.41
1:A:944:PRO:HA	1:A:947:ASN:HD21	1.86	0.41
1:A:963:LEU:HG	1:A:1028:TYR:CE2	2.56	0.41
1:A:963:LEU:HD12	1:A:966:MET:SD	2.61	0.41
1:B:777:PHE:C	1:B:778:LEU:HD22	2.46	0.41
1:B:809:CYS:HA	1:B:836:CYS:HA	2.03	0.41
1:B:933:PHE:O	1:B:1301:SER:HA	2.20	0.41
1:B:1173:LEU:HD11	1:B:1316:PHE:N	2.36	0.41
1:B:1255:LEU:HD13	1:B:1289:ILE:HG22	2.03	0.41
1:C:623:LEU:HD12	1:C:628:TYR:CE2	2.56	0.41
1:C:734:ASP:OD1	1:C:734:ASP:N	2.46	0.41
1:D:1375:ASN:OD1	1:D:1376:SER:N	2.54	0.41
1:A:385:GLU:CD	1:A:390:THR:HB	2.46	0.40
1:A:962:ASN:O	1:A:965:ARG:HG2	2.21	0.40
1:A:976:LEU:HG	1:A:981:GLN:O	2.21	0.40
1:A:1264:GLN:C	1:A:1265:LEU:HD22	2.46	0.40
1:A:1368:PRO:HA	1:A:1371:ARG:CD	2.50	0.40
1:B:157:ALA:HB3	1:B:201:GLU:HB3	2.03	0.40
1:B:196:TYR:HB2	1:B:212:PHE:HD2	1.85	0.40
1:B:779:PRO:HB2	1:B:881:ARG:CZ	2.51	0.40
1:B:866:ILE:HA	1:B:874:SER:HB2	2.03	0.40
1:B:1409:ILE:HD13	1:B:1412:ARG:NH1	2.37	0.40
1:C:261:CYS:SG	1:C:318:VAL:HG13	2.61	0.40
1:C:619:PRO:HB2	1:C:620:TYR:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1104:LEU:O	1:C:1108:LEU:HD23	2.21	0.40
1:D:936:PHE:HE1	1:D:1299:VAL:HG13	1.86	0.40
1:D:981:GLN:HE21	1:D:1273:LEU:HD21	1.83	0.40
1:D:1343:TYR:C	1:D:1344:ARG:HD2	2.46	0.40
1:A:35:SER:OG	1:A:87:THR:HA	2.22	0.40
1:A:137:VAL:HG22	1:A:139:PHE:CD1	2.57	0.40
1:A:138:ARG:HH12	1:A:728:TRP:HB3	1.85	0.40
1:A:182:GLN:O	1:A:183:LEU:HD22	2.22	0.40
1:A:361:ILE:HG21	1:A:455:PHE:CZ	2.53	0.40
1:B:28:THR:OG1	1:B:42:CYS:HB2	2.20	0.40
1:B:425:PRO:HA	1:D:272:LYS:HE2	2.03	0.40
1:B:513:LEU:HD21	1:B:516:SER:O	2.20	0.40
1:B:865:HIS:CE1	1:B:874:SER:HG	2.33	0.40
1:C:530:ASP:OD1	1:C:531:LEU:N	2.54	0.40
1:C:638:PRO:HD3	1:C:683:ARG:CZ	2.52	0.40
1:C:652:ARG:HB2	1:C:654:TYR:CZ	2.56	0.40
1:C:865:HIS:CD2	1:C:874:SER:HG	2.28	0.40
1:D:1318:VAL:HG23	1:D:1341:VAL:HG22	2.02	0.40
1:D:1353:VAL:HG13	1:D:1393:LEU:HB2	2.03	0.40
1:A:291:GLY:H	1:A:294:GLY:HA2	1.87	0.40
1:A:325:GLU:HB2	1:A:840:ARG:HH12	1.86	0.40
1:A:778:LEU:HD12	1:A:779:PRO:HD2	2.02	0.40
1:A:784:LEU:HB2	1:A:798:MET:CE	2.52	0.40
1:A:939:ASP:O	1:A:940:VAL:HG12	2.21	0.40
1:A:1279:GLN:O	1:A:1280:LEU:HD23	2.21	0.40
1:A:1282:GLU:OE1	1:A:1284:SER:N	2.54	0.40
1:A:1363:TYR:HB2	1:A:1408:LEU:O	2.21	0.40
1:B:70:GLU:OE1	1:B:70:GLU:N	2.54	0.40
1:B:360:GLY:H	1:B:409:SER:HA	1.86	0.40
1:B:389:LYS:O	1:B:391:ILE:HG23	2.21	0.40
1:B:784:LEU:HD23	1:B:785:SER:N	2.36	0.40
1:B:1011:TYR:O	1:B:1022:SER:HB3	2.21	0.40
1:C:155:TYR:CE1	1:C:200:ALA:HB1	2.56	0.40
1:C:399:GLU:CD	1:C:401:ARG:HE	2.28	0.40
1:C:528:THR:HB	1:C:530:ASP:OD1	2.20	0.40
1:C:795:ILE:HB	1:C:1414:LEU:CD1	2.51	0.40
1:C:919:LEU:HD21	1:C:1285:GLY:O	2.22	0.40
1:D:148:LEU:O	1:D:149:LEU:HD23	2.22	0.40
1:D:153:GLU:OE2	1:D:203:GLU:N	2.55	0.40
1:D:465:LEU:HD13	1:D:471:HIS:CG	2.57	0.40
1:D:664:ASP:N	1:D:667:GLN:OE1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:758:CYS:O	1:D:765:PHE:HA	2.21	0.40
1:D:917:ILE:HG21	1:D:1287:TYR:HD2	1.85	0.40
1:A:42:CYS:SG	1:A:78:PHE:CE1	3.15	0.40
1:A:235:LEU:HD12	1:A:235:LEU:HA	1.89	0.40
1:A:261:CYS:SG	1:A:318:VAL:HG13	2.62	0.40
1:A:359:ARG:HH22	1:A:412:VAL:HG23	1.86	0.40
1:A:598:SER:HB2	1:A:753:GLN:HE21	1.85	0.40
1:A:649:CYS:HA	1:A:650:LYS:HA	1.66	0.40
1:A:734:ASP:O	1:A:736:GLU:N	2.54	0.40
1:A:1065:PHE:HB3	1:A:1085:THR:HG23	2.03	0.40
1:A:1138:GLU:HA	1:A:1141:ASN:ND2	2.37	0.40
1:A:1312:GLU:H	1:A:1312:GLU:CD	2.28	0.40
1:B:153:GLU:CD	1:B:203:GLU:HG2	2.46	0.40
1:B:309:GLN:HE21	1:D:278:GLY:HA2	1.86	0.40
1:B:430:TYR:HD1	1:D:274:ASN:OD1	2.05	0.40
1:B:812:ILE:HD12	1:B:862:GLU:OE2	2.22	0.40
1:B:1316:PHE:CD1	1:B:1343:TYR:HA	2.56	0.40
1:C:239:LEU:O	1:C:300:VAL:HG22	2.21	0.40
1:C:641:GLU:HB2	1:C:687:VAL:HA	2.04	0.40
1:D:159:TYR:OH	1:D:167:ARG:NH2	2.54	0.40
1:D:345:THR:C	1:D:369:LEU:HD12	2.47	0.40
1:D:452:THR:HG22	1:D:546:GLU:OE1	2.20	0.40
1:D:762:LYS:HG3	1:D:763:GLU:HG3	2.04	0.40
1:D:819:SER:HB3	1:D:822:PHE:HE1	1.86	0.40
1:D:1061:ASP:N	1:D:1064:CYS:O	2.55	0.40
1:D:1307:ILE:HD13	1:D:1310:PRO:HG3	2.03	0.40
1:D:1339:VAL:O	1:D:1402:GLN:HA	2.22	0.40
1:A:359:ARG:HH22	1:A:447:ARG:HD3	1.86	0.40
1:A:413:GLN:CG	1:A:416:PHE:HB2	2.51	0.40
1:A:786:LEU:HD23	1:A:786:LEU:H	1.86	0.40
1:A:1342:SER:OG	1:A:1400:THR:HA	2.21	0.40
1:A:1402:GLN:O	1:A:1403:LEU:HD22	2.21	0.40
1:B:40:ARG:HD3	1:B:81:ASN:C	2.46	0.40
1:B:136:LYS:NZ	1:B:186:PRO:HG3	2.36	0.40
1:B:234:ILE:H	1:B:234:ILE:HD12	1.86	0.40
1:B:257:VAL:HG13	1:B:322:VAL:HG22	2.04	0.40
1:B:678:THR:HG22	1:B:680:SER:H	1.85	0.40
1:B:831:GLN:OE1	1:B:832:ASP:N	2.55	0.40
1:B:905:LEU:HG	1:B:1215:ILE:HG21	2.03	0.40
1:C:99:SER:HA	1:C:107:ILE:O	2.21	0.40
1:C:561:GLN:OE1	1:C:763:GLU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:597:ASP:HA	1:C:751:LYS:O	2.21	0.40
1:C:792:ARG:NE	1:C:894:GLU:H	2.20	0.40
1:D:347:ILE:HD12	1:D:347:ILE:HA	1.98	0.40
1:D:813:ILE:HG22	1:D:862:GLU:OE2	2.21	0.40
1:D:969:ILE:CG2	1:D:970:PRO:HD3	2.51	0.40
1:D:1050:THR:O	1:D:1054:LEU:HG	2.21	0.40
1:D:1173:LEU:HD22	1:D:1431:GLU:HA	2.03	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	1392/1441 (97%)	1152 (83%)	235 (17%)	5 (0%)	30	67
1	B	1418/1441 (98%)	1257 (89%)	158 (11%)	3 (0%)	43	77
1	C	1418/1441 (98%)	1246 (88%)	170 (12%)	2 (0%)	48	83
1	D	1418/1441 (98%)	1239 (87%)	177 (12%)	2 (0%)	48	83
All	All	5646/5764 (98%)	4894 (87%)	740 (13%)	12 (0%)	44	77

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	220	PRO
1	A	1119	SER
1	B	74	PRO
1	C	74	PRO
1	D	74	PRO
1	A	1064	CYS
1	A	940	VAL
1	B	709	SER

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Mol	Chain	Res	Type
1	A	63	VAL
1	B	866	ILE
1	C	866	ILE
1	D	866	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1220/1259 (97%)	1220 (100%)	0	100	100
1	B	1244/1259 (99%)	1244 (100%)	0	100	100
1	C	1244/1259 (99%)	1244 (100%)	0	100	100
1	D	1244/1259 (99%)	1244 (100%)	0	100	100
All	All	4952/5036 (98%)	4952 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (70) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	24	GLN
1	A	50	GLN
1	A	119	ASN
1	A	230	ASN
1	A	313	GLN
1	A	381	GLN
1	A	471	HIS
1	A	627	ASN
1	A	632	ASN
1	A	667	GLN
1	A	773	ASN
1	A	892	GLN
1	A	961	GLN
1	A	988	GLN

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Mol	Chain	Res	Type
1	A	992	GLN
1	A	995	ASN
1	A	1049	GLN
1	A	1216	GLN
1	A	1217	GLN
1	A	1235	GLN
1	A	1251	HIS
1	B	76	HIS
1	B	170	GLN
1	B	381	GLN
1	B	443	HIS
1	B	471	HIS
1	B	508	GLN
1	B	515	GLN
1	B	738	GLN
1	B	773	ASN
1	B	817	GLN
1	B	887	GLN
1	B	892	GLN
1	B	904	ASN
1	B	1047	GLN
1	B	1075	GLN
1	B	1271	ASN
1	B	1387	ASN
1	B	1394	ASN
1	C	172	GLN
1	C	313	GLN
1	C	442	GLN
1	C	471	HIS
1	C	753	GLN
1	C	949	GLN
1	C	1058	GLN
1	C	1358	GLN
1	C	1415	ASN
1	D	61	GLN
1	D	73	GLN
1	D	125	GLN
1	D	172	GLN
1	D	174	GLN
1	D	313	GLN
1	D	375	ASN
1	D	381	GLN

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Mol	Chain	Res	Type
1	D	424	ASN
1	D	578	ASN
1	D	627	ASN
1	D	714	HIS
1	D	753	GLN
1	D	878	GLN
1	D	950	ASN
1	D	953	GLN
1	D	1047	GLN
1	D	1075	GLN
1	D	1135	GLN
1	D	1300	GLN
1	D	1387	ASN
1	D	1415	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

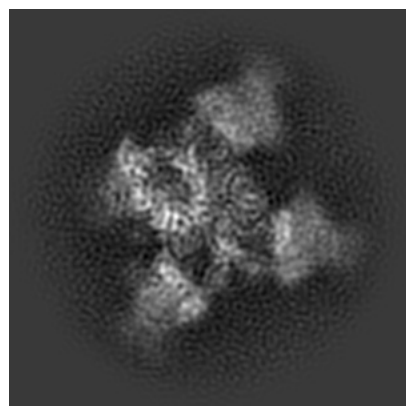
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-24849. These allow visual inspection of the internal detail of the map and identification of artifacts.

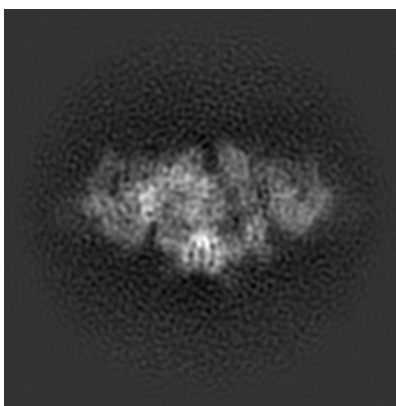
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

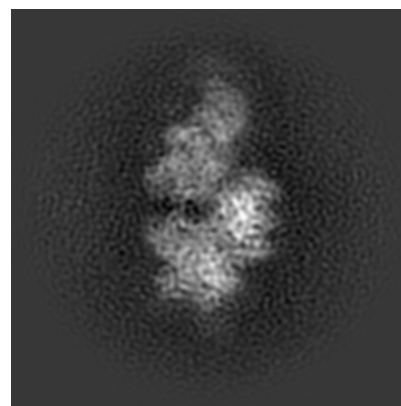
6.1.1 Primary map



X

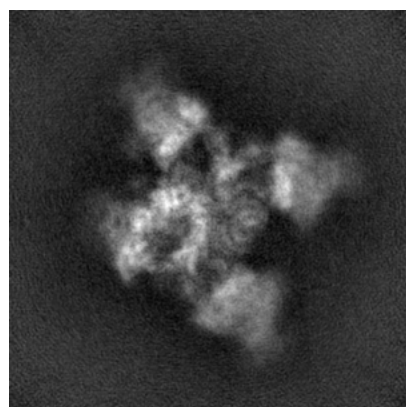


Y

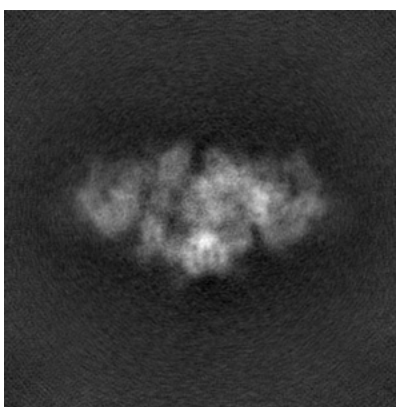


Z

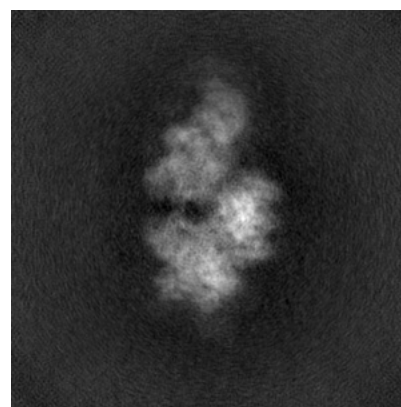
6.1.2 Raw map



X



Y

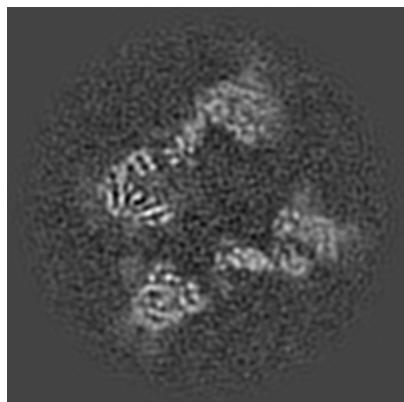


Z

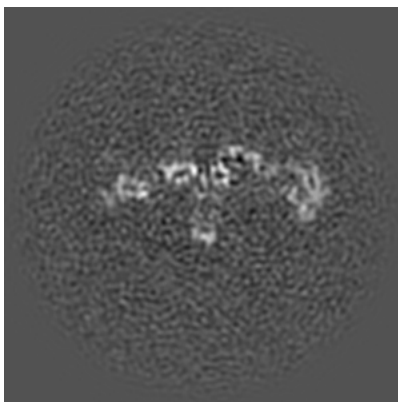
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

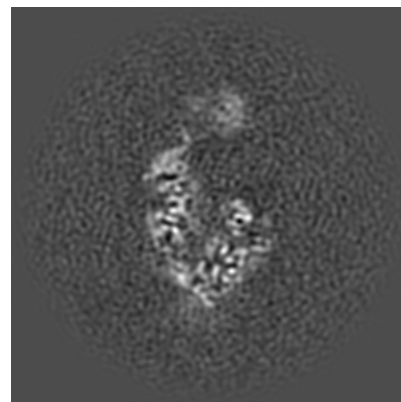
6.2.1 Primary map



X Index: 128

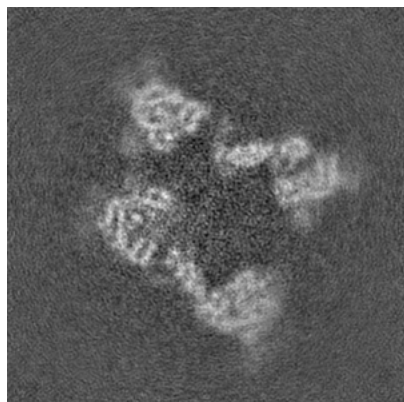


Y Index: 128

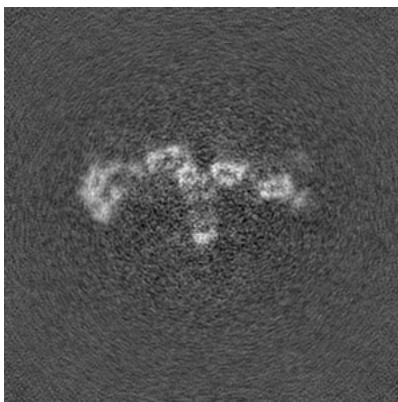


Z Index: 128

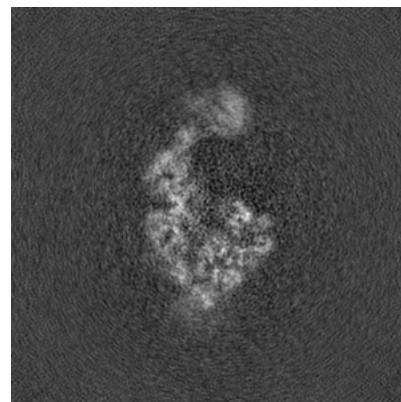
6.2.2 Raw map



X Index: 128



Y Index: 128

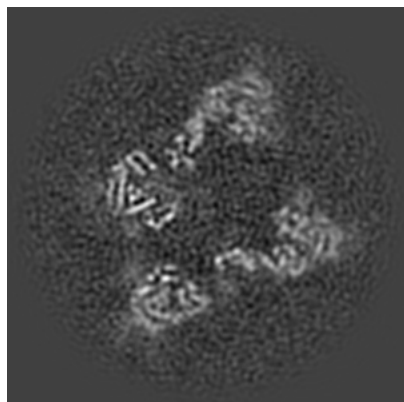


Z Index: 128

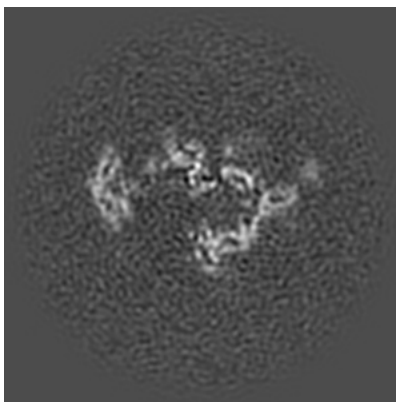
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

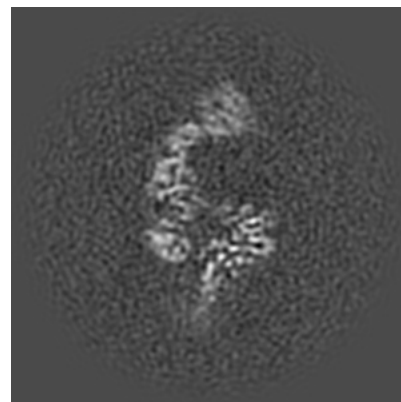
6.3.1 Primary map



X Index: 130

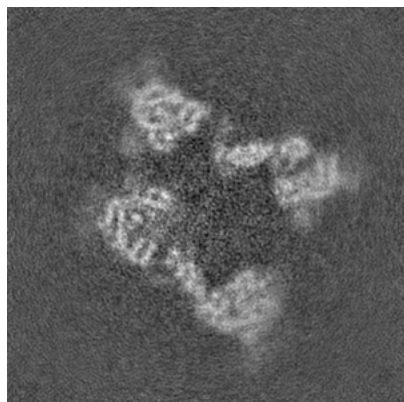


Y Index: 118

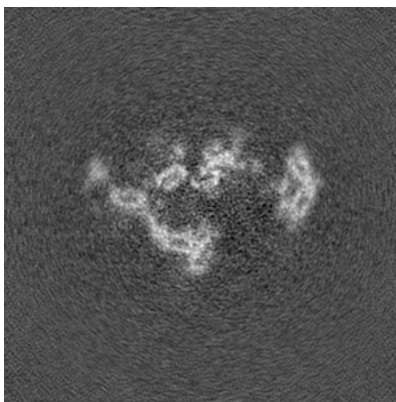


Z Index: 123

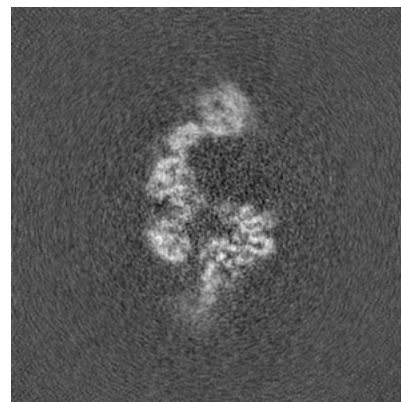
6.3.2 Raw map



X Index: 128



Y Index: 119

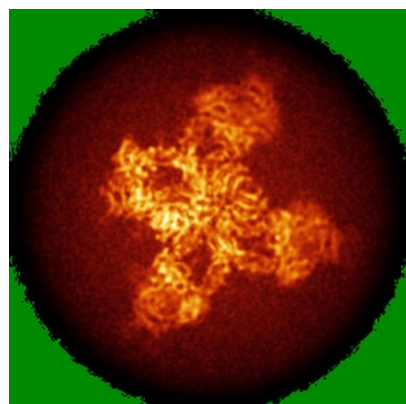


Z Index: 132

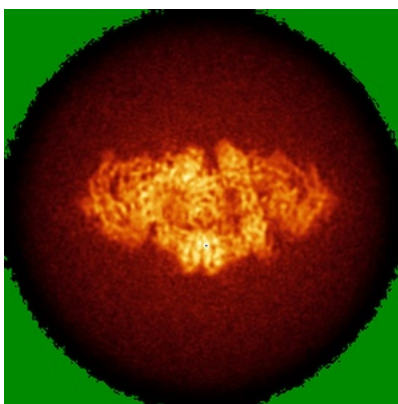
The images above show the largest variance slices of the map in three orthogonal directions.

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

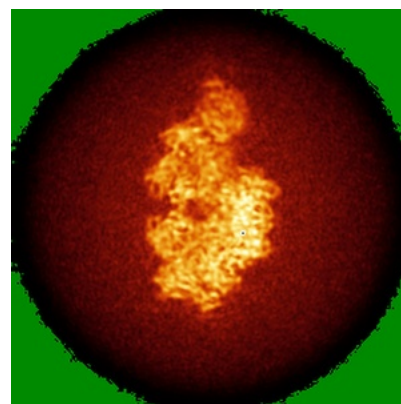
6.4.1 Primary map



X

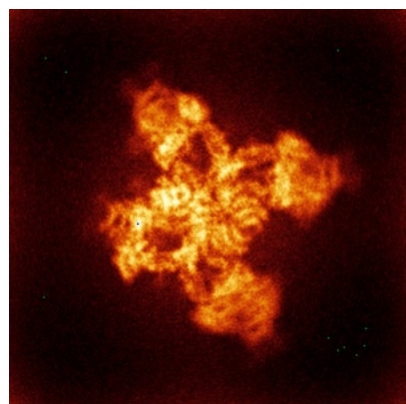


Y

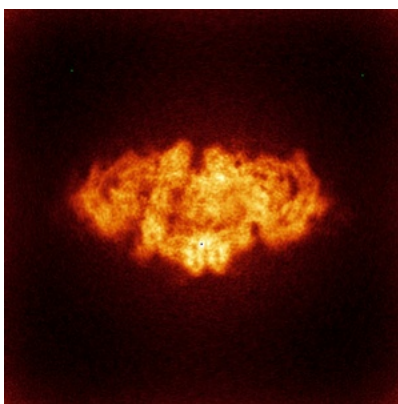


Z

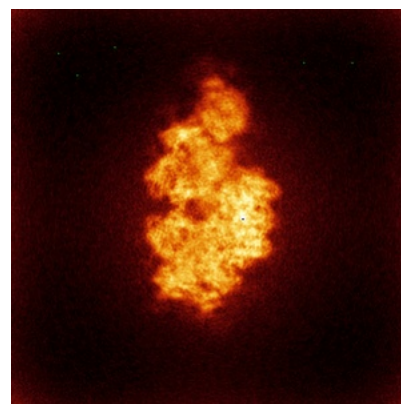
6.4.2 Raw map



X



Y



Z

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

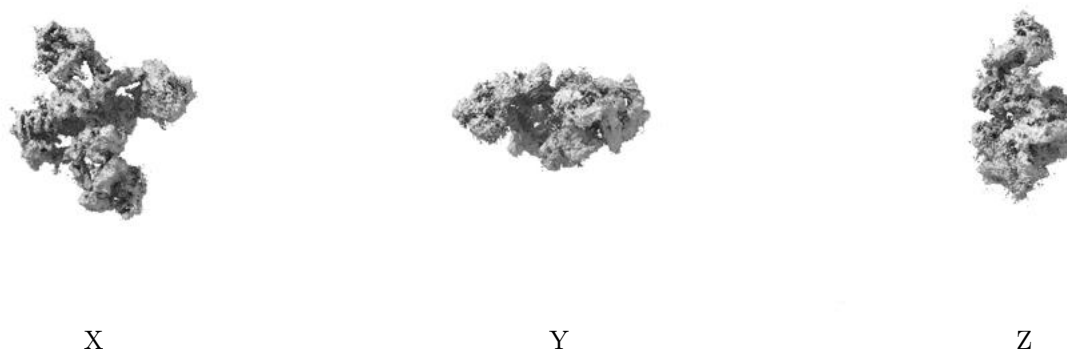
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 4.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

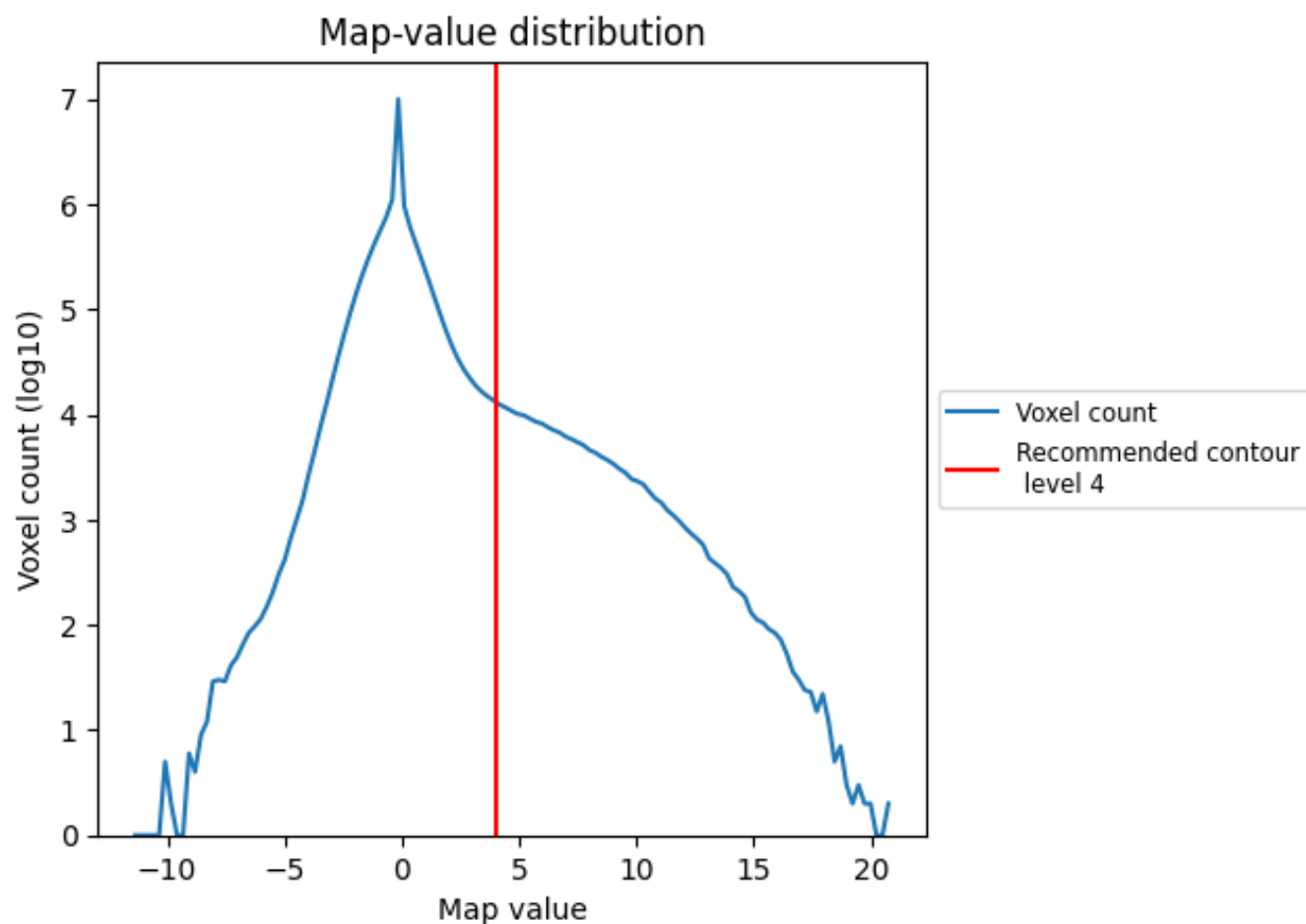
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

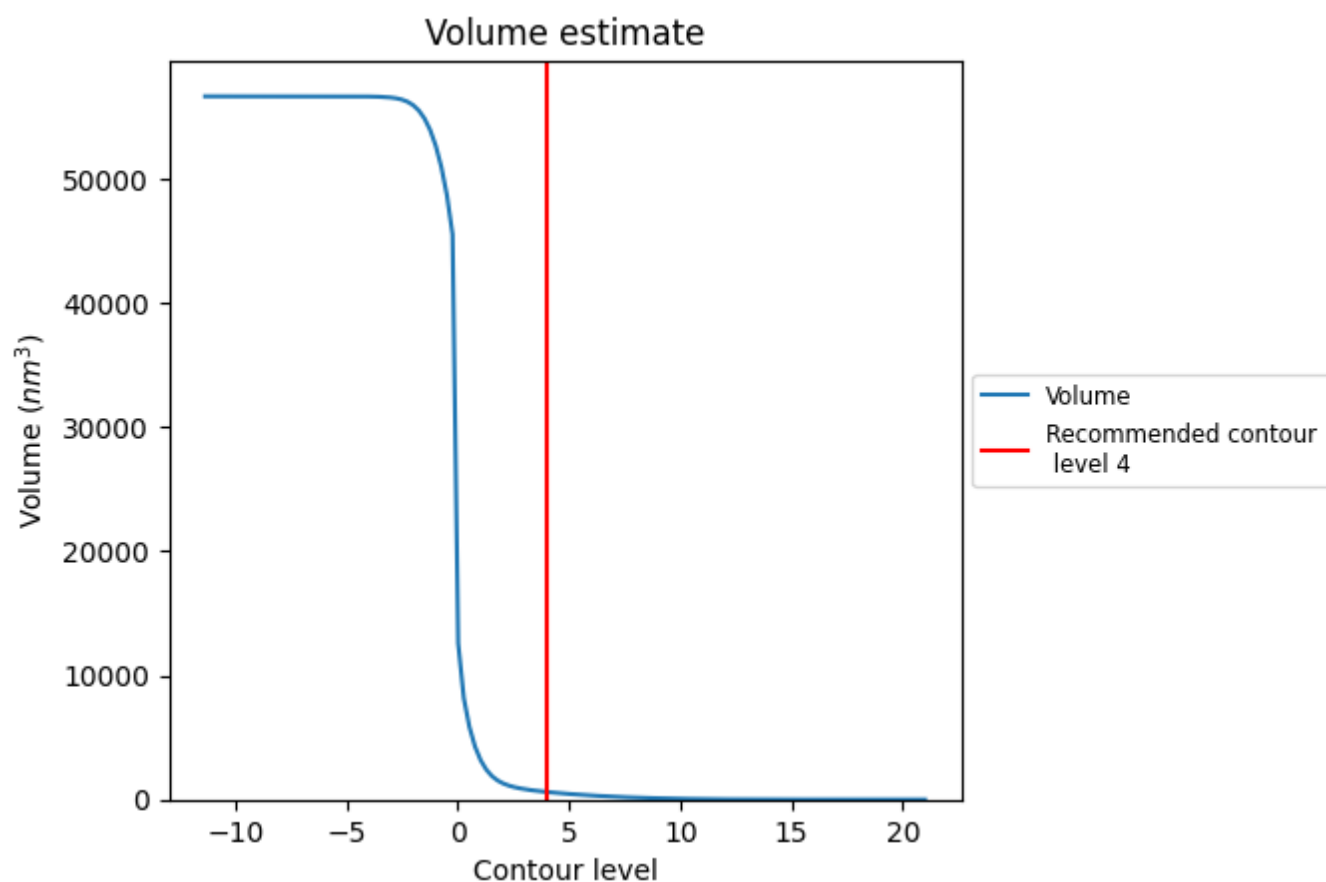
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

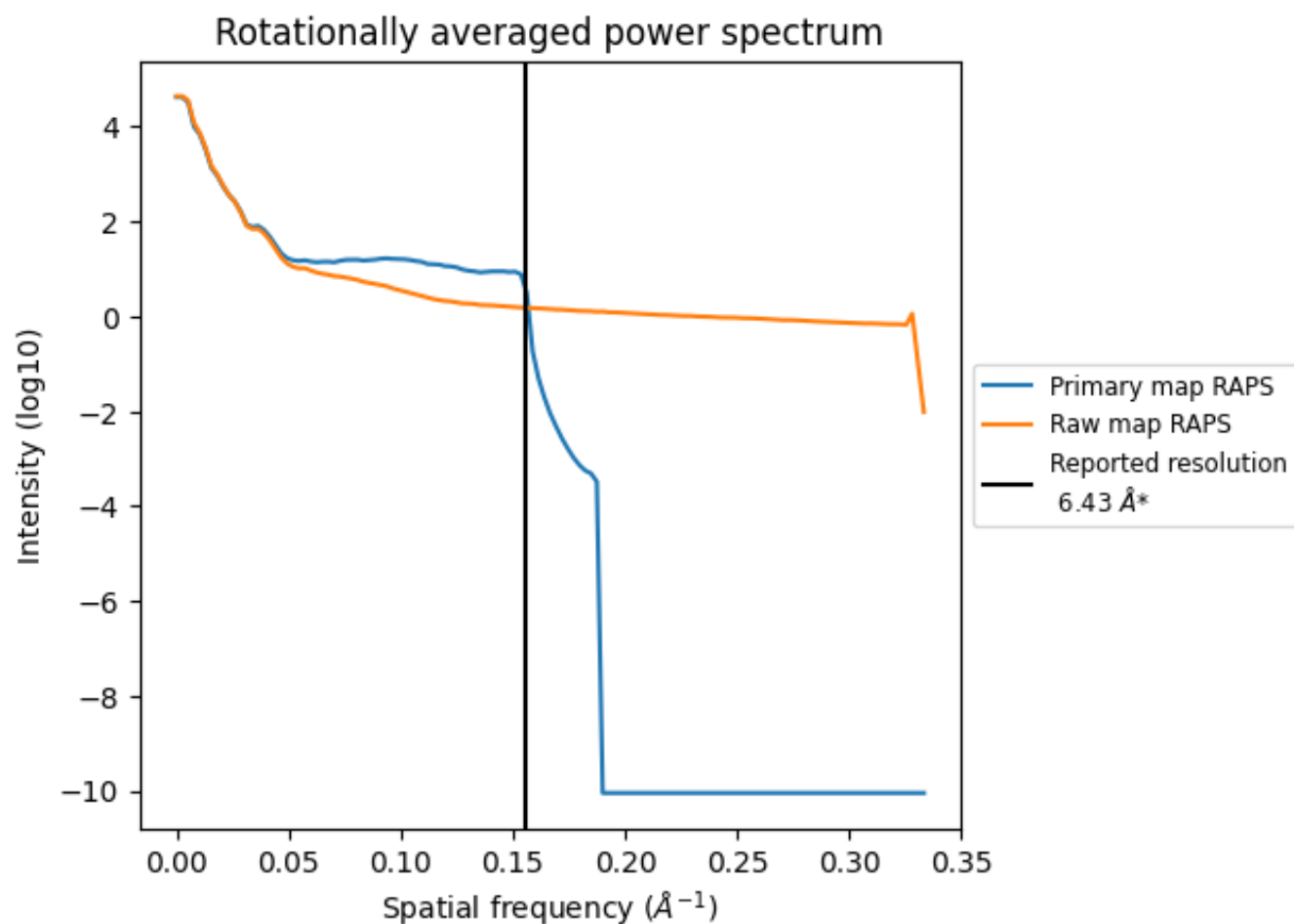
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 608 nm³; this corresponds to an approximate mass of 550 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

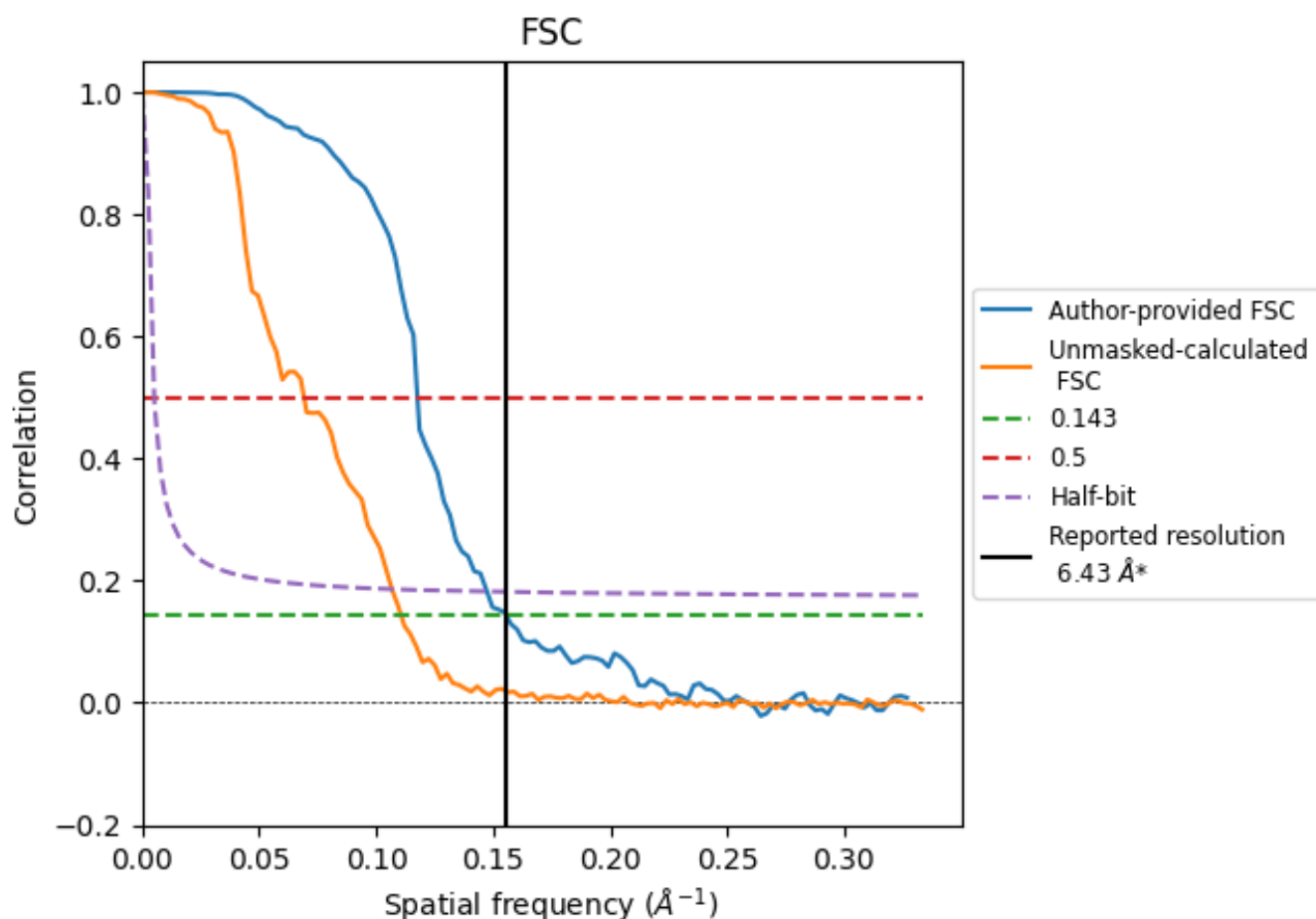


*Reported resolution corresponds to spatial frequency of 0.156 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.156 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

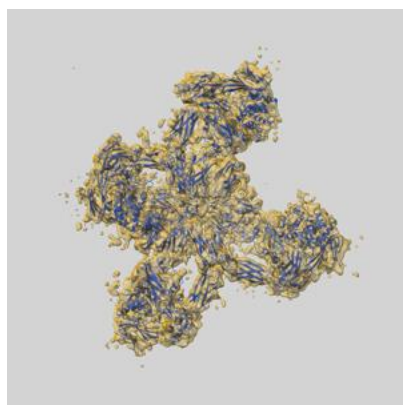
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.43	-	-
Author-provided FSC curve	6.43	8.50	6.78
Unmasked-calculated*	9.04	14.45	9.37

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 9.04 differs from the reported value 6.43 by more than 10 %

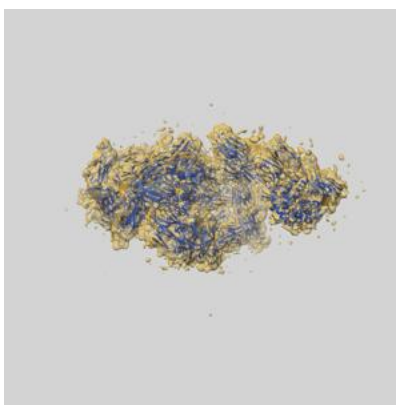
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-24849 and PDB model 7S64. Per-residue inclusion information can be found in section [3](#) on page [4](#).

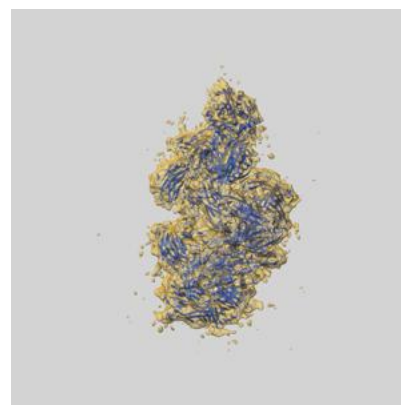
9.1 Map-model overlay [i](#)



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 4.0 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](#)



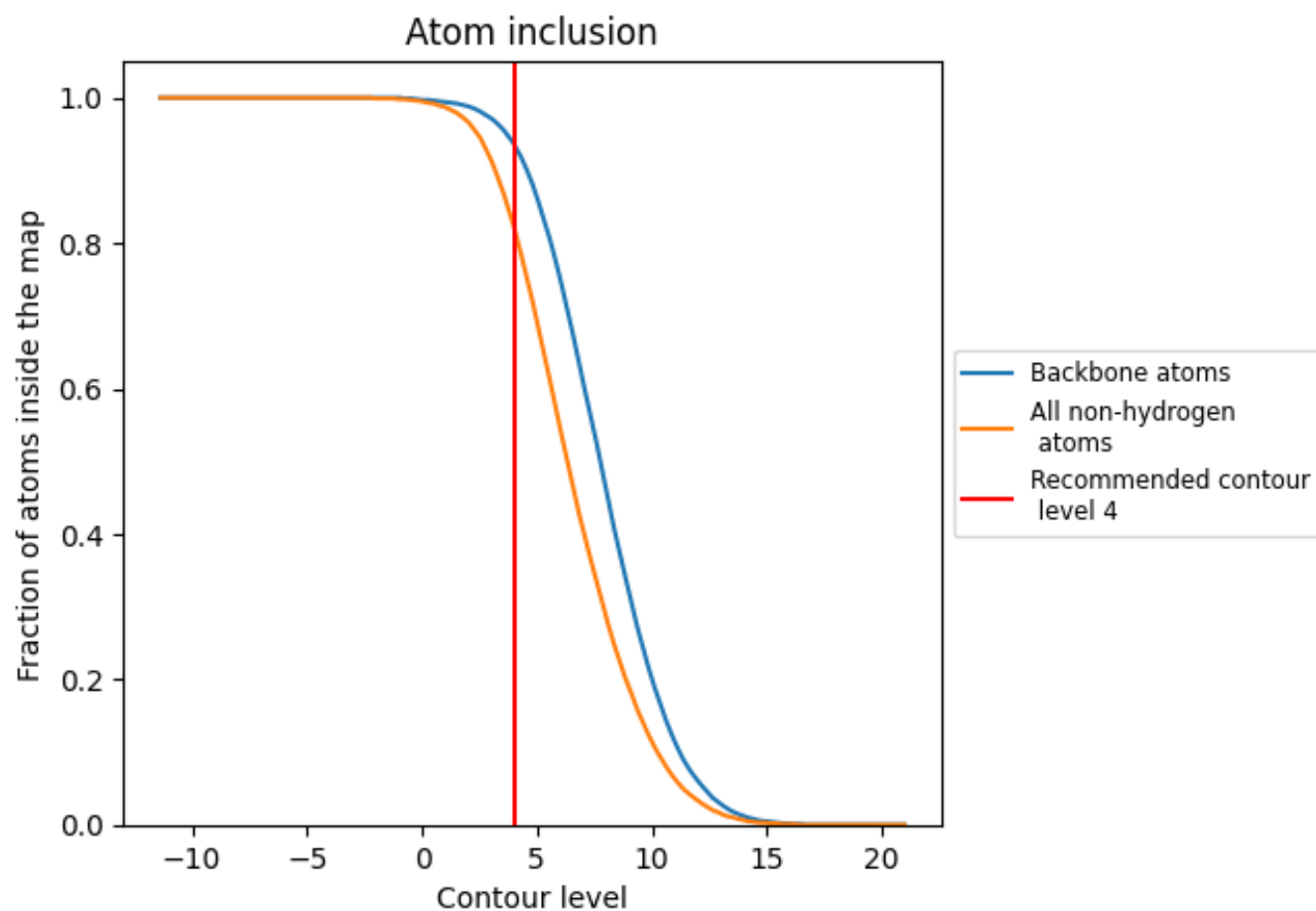
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (4).

9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 82% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8230	0.2090
A	0.8380	0.2310
B	0.8260	0.1990
C	0.7980	0.1950
D	0.8290	0.2120

