



Full wwPDB EM Validation Report ⓘ

Jun 11, 2024 – 07:03 PM JST

PDB ID : 7VCI
EMDB ID : EMD-31891
Title : Structure of *Xenopus laevis* NPC nuclear ring asymmetric unit
Authors : Tai, L.; Zhu, Y.; Sun, F.
Deposited on : 2021-09-03
Resolution : 8.10 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:

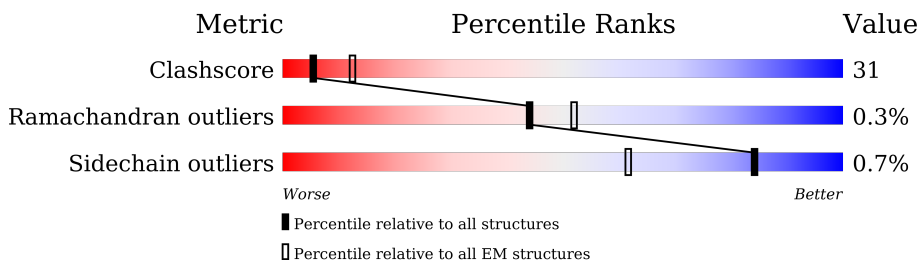
EMDB validation analysis : 0.0.1.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

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 8.10 Å.

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





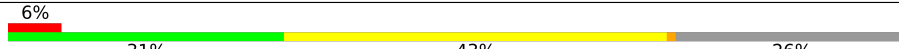
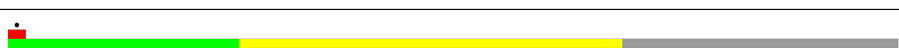
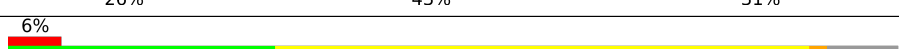
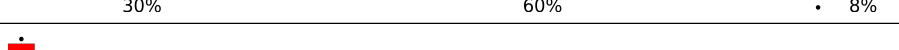
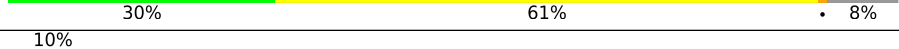
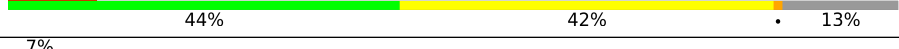
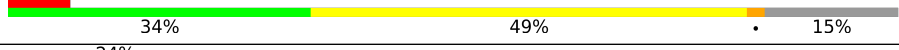




Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	653	
1	J	653	
2	B	375	
2	K	375	
3	C	360	
3	L	360	
4	D	1439	
4	M	1439	

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Mol	Chain	Length	Quality of chain
5	E	326	 55% 45%
5	N	326	 7% 55% 45%
6	F	924	 6% 31% 43% 26%
6	O	924	 26% 43% 31%
7	G	320	 6% 30% 60% 8%
7	P	320	 30% 61% 8%
8	H	916	 10% 44% 42% 13%
8	Q	916	 7% 34% 49% 15%
9	I	1140	 24% 58% 35% 6%
9	R	1140	 69% 51% 44% 5%
10	S	2011	 8% 52% 48%
11	T	2408	 12% 28% 14% 58%
12	U	820	 48% 51%

2 Entry composition [i](#)

There are 12 unique types of molecules in this entry. The entry contains 124700 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 Nuclear pore complex protein Nup85.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	653	Total	C	N	O	S	0	0
			5268	3341	904	984	39		
1	J	653	Total	C	N	O	S	0	0
			5268	3341	904	984	39		

- Molecule 2 is a protein called MGC154553 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	375	Total	C	N	O	S	0	0
			2927	1813	524	571	19		
2	K	375	Total	C	N	O	S	0	0
			2927	1813	524	571	19		

- Molecule 3 is a protein called Nucleoporin SEH1-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	333	Total	C	N	O	S	0	0
			2607	1632	466	491	18		
3	L	325	Total	C	N	O	S	0	0
			2546	1592	455	482	17		

- Molecule 4 is a protein called Nup160.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	1394	Total	C	N	O	S	0	0
			11118	7052	1912	2086	68		
4	M	1394	Total	C	N	O	S	0	0
			11118	7052	1912	2086	68		

- Molecule 5 is a protein called MGC83926 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	326	Total	C	N	O	S	0	0
			2573	1640	443	473	17		
5	N	326	Total	C	N	O	S	0	0
			2573	1640	443	473	17		

- Molecule 6 is a protein called Nuclear pore complex protein Nup96.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	687	Total	C	N	O	S	0	0
			5560	3525	979	1024	32		
6	O	637	Total	C	N	O	S	0	0
			5168	3282	911	946	29		

- Molecule 7 is a protein called GATOR complex protein SEC13.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	294	Total	C	N	O	S	0	0
			2300	1454	394	440	12		
7	P	294	Total	C	N	O	S	0	0
			2300	1454	394	440	12		

- Molecule 8 is a protein called Nuclear pore complex protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	798	Total	C	N	O	S	0	0
			6494	4126	1096	1240	32		
8	Q	780	Total	C	N	O	S	0	0
			6351	4034	1076	1210	31		

- Molecule 9 is a protein called outer Nup133.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	1076	Total	C	N	O	S	0	0
			8482	5362	1409	1661	50		
9	R	1082	Total	C	N	O	S	0	0
			8536	5397	1420	1669	50		

- Molecule 10 is a protein called MGC83295 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	S	2011	Total	C	N	O	S	0	0
			15974	10112	2785	2978	99		

- Molecule 11 is a protein called Protein ELYS.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	T	1013	8041	5095	1388	1518	40	0	0

- Molecule 12 is a protein called Nuclear pore complex protein Nup93.

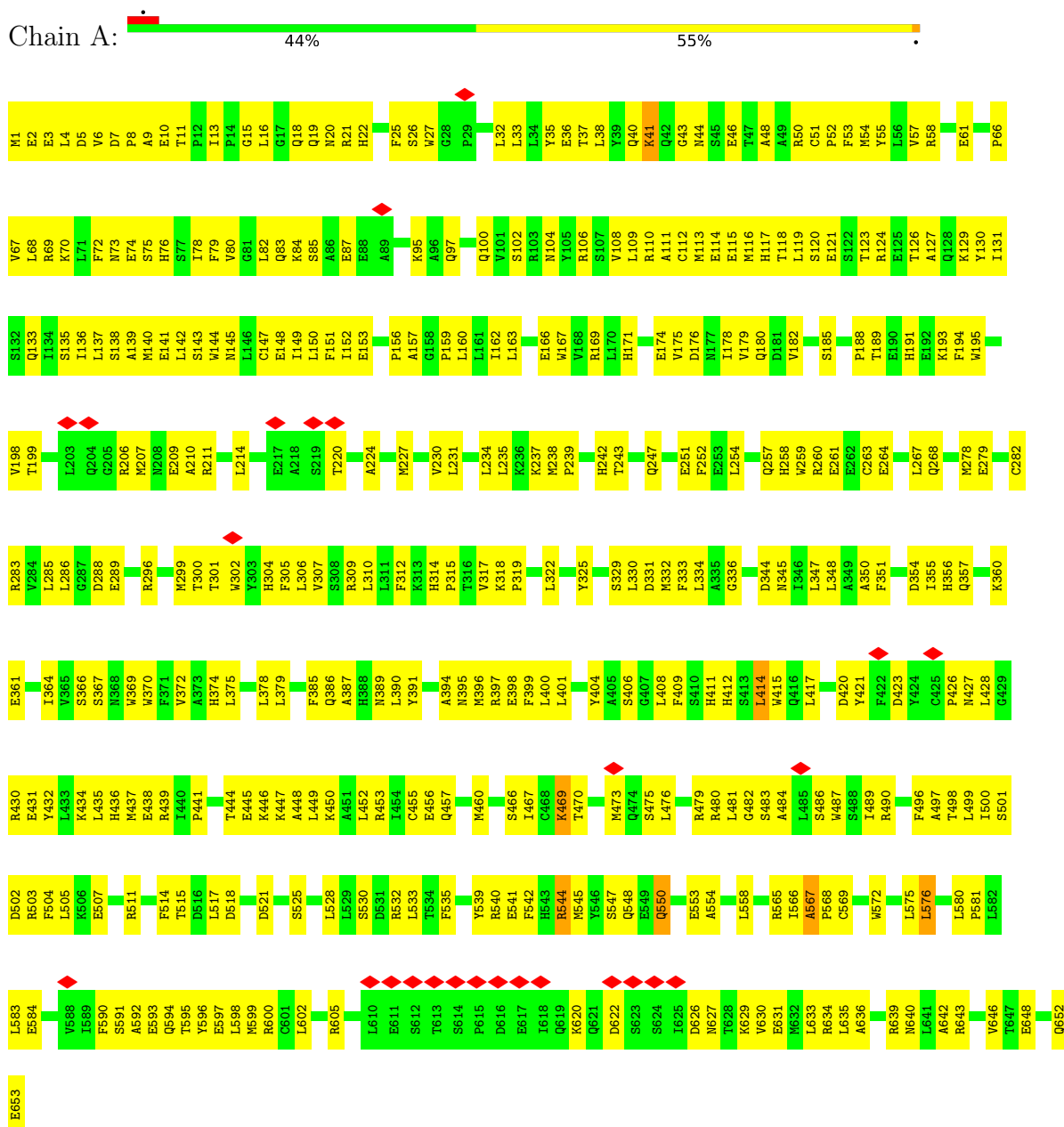
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	U	820	6569	4132	1146	1259	32	0	0

3 Residue-property plots

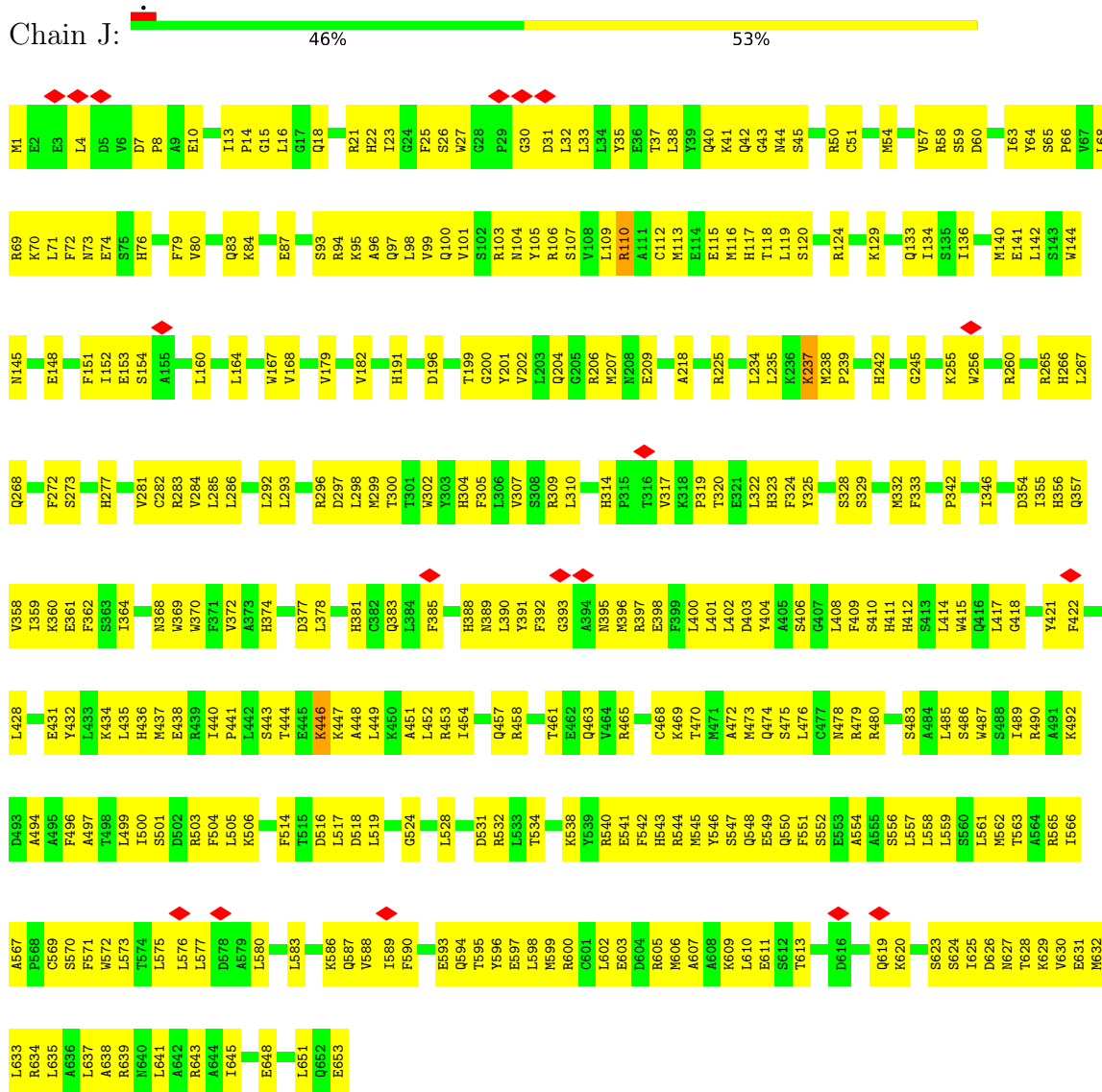
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Nuclear pore complex protein Nup85

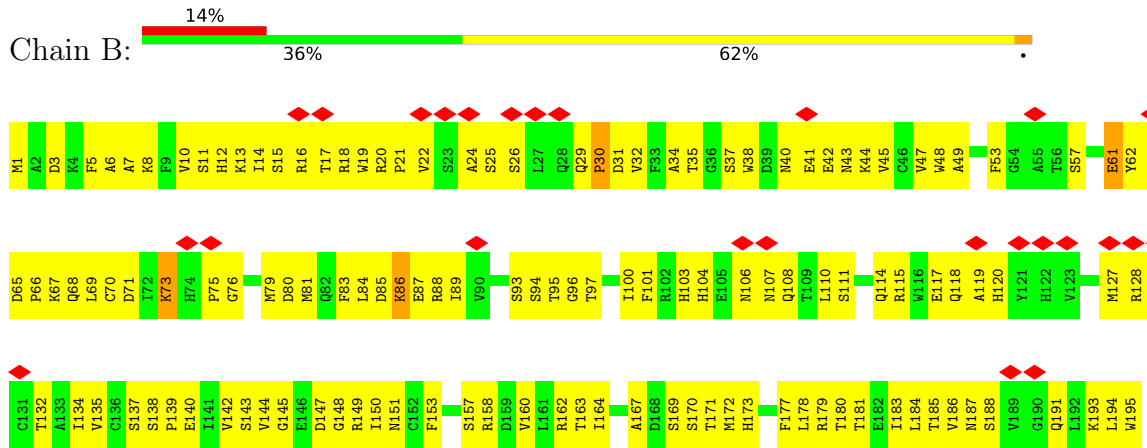
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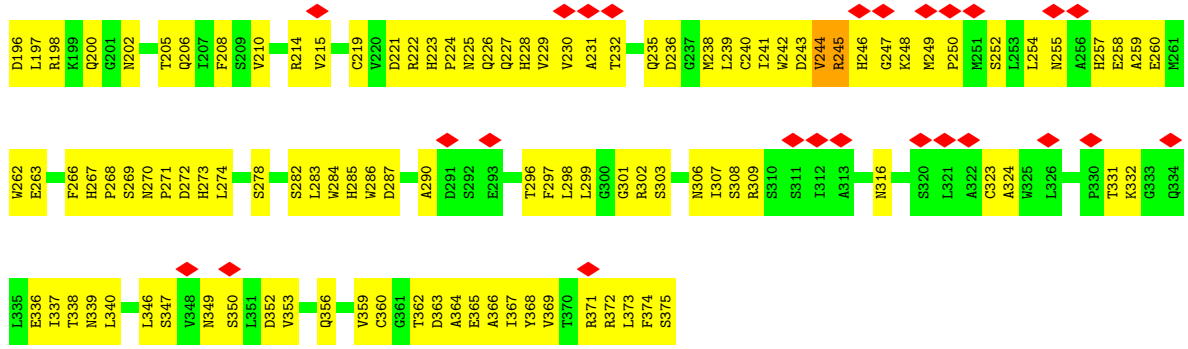


• Molecule 1: Nuclear pore complex protein Nup85

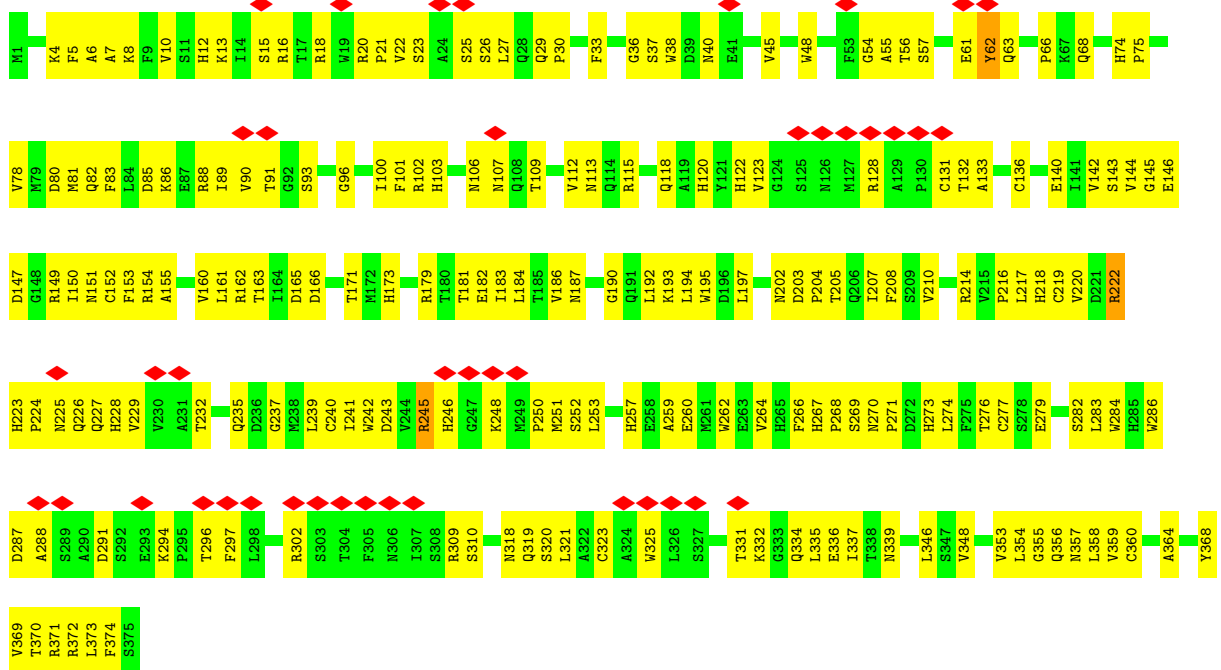


• Molecule 2: MGC154553 protein

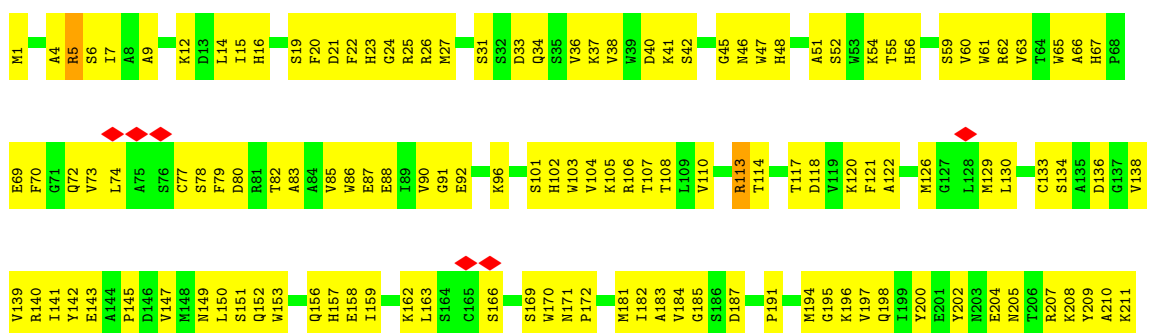


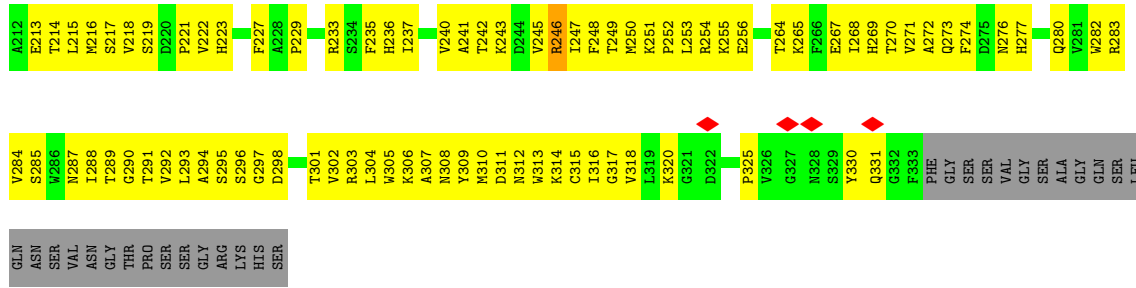


• Molecule 2: MGC154553 protein

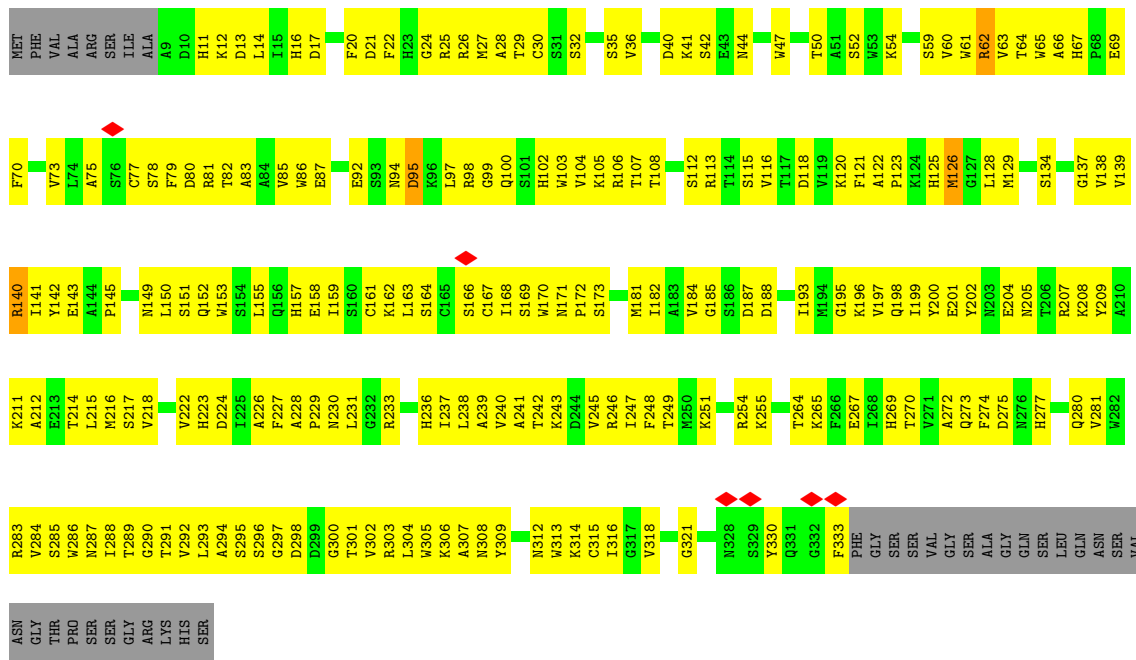


• Molecule 3: Nucleoporin SEH1-A

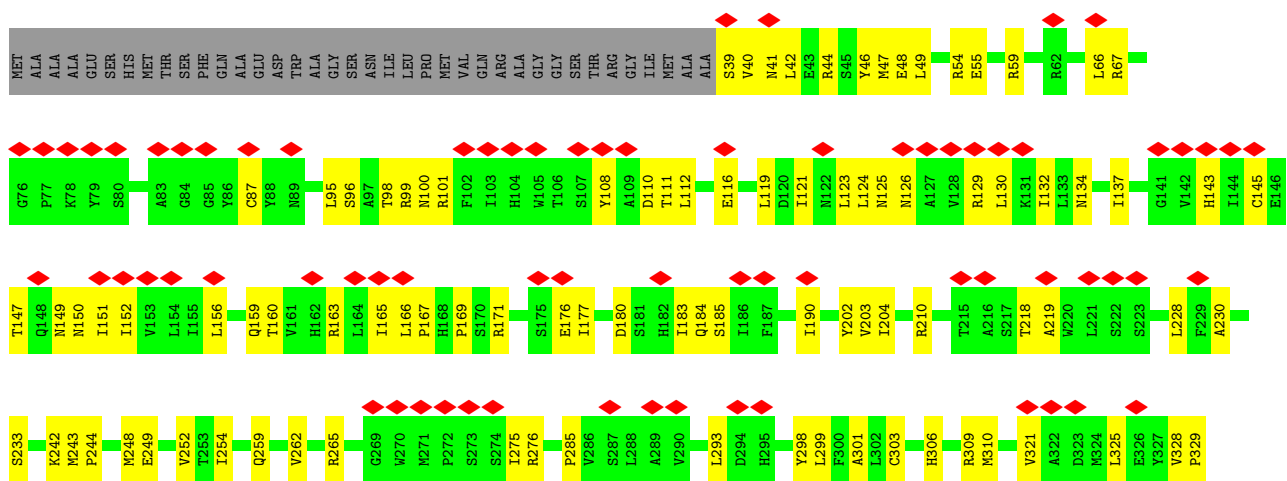


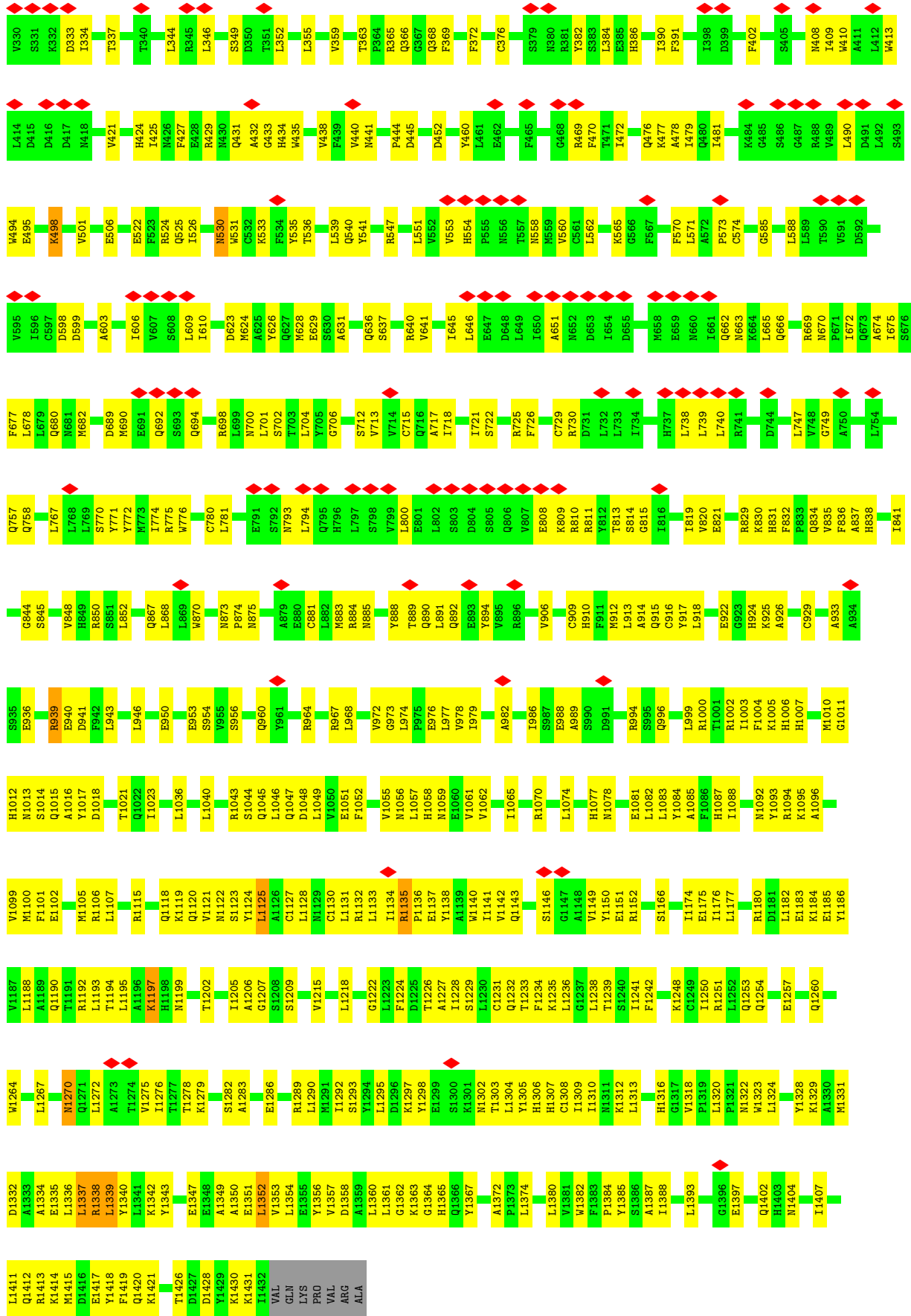


• Molecule 3: Nucleoporin SEH1-A



• Molecule 4: Nup160

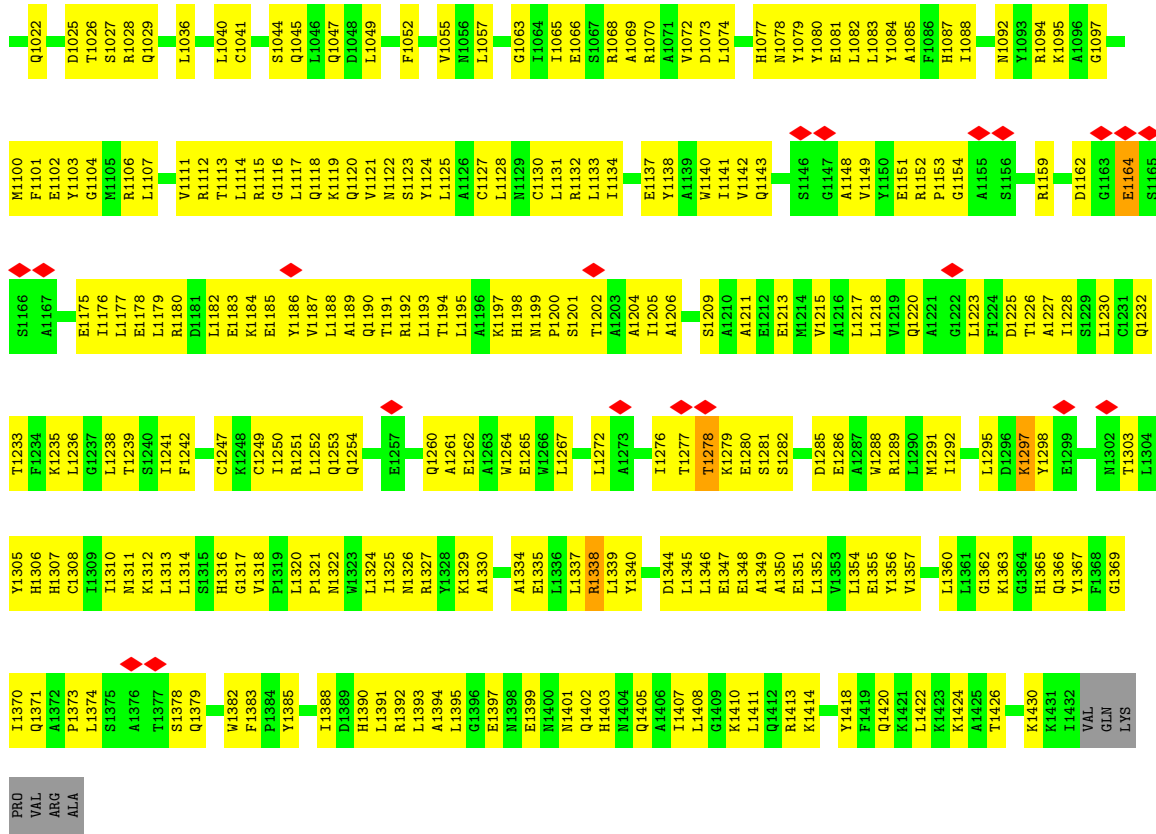




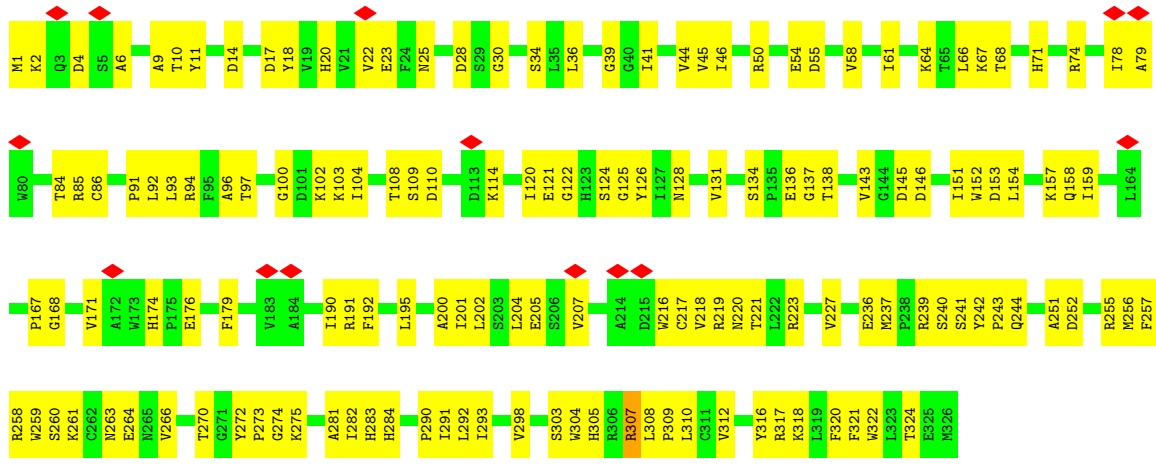
• Molecule 4: Nup160



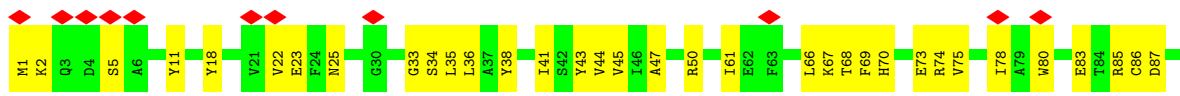
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V73	I74	G75	K78	Y79	S80	D81	C82	A83	G84	G85	A86	G87	Y88	M89	S93	L94	L95	S96	A97	T98	R99	M100	R101	H104	I107	S106	S107	T111	L112	E113	L114	V115	E116	L117	S118	L119	D120	I121	M122	L123	N125	L124	M126	K131	M134	C135	S136	R137	L138	D139	A211	N213	S214	T215	A216	S217	G140	V142
H143	I144	C145	M149	V153	I155	L156	T157	M158	V240	Q159	Y86	V161	H162	R163	L164	I165	H168	R171	R174	R99	S175	E176	I177	I178	S179	D180	S181	H182	I183	Q184	S185	E186	I186	F187	M194	D197	P198	M199	N200	P205	A206	L207	P208	G209	R210	L293	A211	N213	S214	T215	A216	S217	G140	V142				
A219	W220	E226	A227	L228	F229	A230	L231	P232	I238	L239	V240	I241	M243	P244	P245	D247	M248	T253	L254	A255	E256	L257	K258	Q259	S260	Q264	R265	L266	L267	T268	G269	F272	S273	P281	A282	V286	S287	L288	A289	V290	L293	L299	Q304	D305	A316	H306	R309											
M310	W311	S312	Y313	K314	D315	Q316	L319	M320	V321	M324	L325	V328	P329	V330	S331	K332	D333	R335	Q336	T337	A338	G339	T340	G341	H342	K343	L344	R345	I346	A347	Y348	L352	F353	L354	L355	Y356	G358	Y360	L361	H362	T363	P364	R365	Q366	Q367	Q368	F369	C370	V371	F372	Q373	L374						
W375	C376	Y382	S383	F465	K384	E385	H386	T387	S388	T392	M393	Q394	E395	T396	L397	I398	D399	F400	W410	L412	W413	L414	D415	D416	D417	M418	Q419	T420	K423	H424	I425	M426	P427	W435	M436	M441	P444	D445	D446	D447	L448	A449	I450	I526	N527	I528	E529	M530	E455	H614	M615	I616	A617	D618	Y619	I620	T621	
Y460	L464	F465	A466	R469	F470	I471	I472	A473	A474	L475	Q476	K477	I479	Q480	I481	L482	R483	K484	W489	L490	S493	L497	K498	V501	V505	E506	K507	E508	I509	V514	D515	Y516	S519	Q520	E521	E522	F523	R524	Q525	I526	N527	I528	E529	M530	E455	H614	M615	I616	A617	D618	Y619	I620	T621					
C538	L539	Q540	Y541	Q542	E543	T544	L545	S546	R547	A550	L551	V552	V553	H554	P555	M559	V560	C561	R564	A572	P573	C574	H579	L580	Y581	G585	E586	H587	L588	V591	D592	I596	C597	D598	D601	S604	I610	Q611	C612	L613	H614	M615	I616	A617	D618	Y619	I620	T621										
E622	M628	C633	H634	P635	L636	S637	P638	E639	R640	V641	A642	E643	Q644	I645	L646	L649	I650	A651	M652	D653	I654	D655	L657	M658	E659	N660	I661	Q662	M663	K664	L665	Q666	D667	I668	R669	M670	I672	Q673	L679	M682	E685	T686	M687	M688	S693	Q694	H695	M696	M700									
L701	S702	T703	L704	Y705	L794	H795	H796	L797	E801	L802	S803	D804	S805	Q806	V807	R808	K809	R810	T813	S814	G815	I816	Q817	T818	I819	L822	E825	D826	R829	K830	H831	F832	V835	F836	L839	F840	S843	G844	S845	S846	Q847	V848	H849	R850	S851	L852	N853	I858	H859	R860								
L790	E791	S792	M793	L869	W870	P871	S872	N873	P874	K875	E880	R884	N885	C886	Q887	Y888	T889	Q890	L891	Q892	E893	Y894	V895	R896	L899	Q903	V904	N905	V906	G907	S908	C909	H910	F911	M912	L913	A914	Q915	C916	Y917	L918	V919	S943	G844	S845	S846	Q847	V848	H849	R850	S851	L852	N853	I858	H859	R860		
S863	Q867	L868	R869	W870	P871	S872	N873	P874	K875	E880	R884	N885	C886	Q887	Y888	T889	Q890	L891	Q892	E893	Y894	V895	R896	L899	Q903	V904	N905	V906	G907	S908	C909	H910	F911	M912	L913	A914	Q915	C916	Y917	L918	V919	S943	G844	S845	S846	Q847	V848	H849	R850	S851	L852	N853	I858	H859	R860			
A934	V937	E938	R939	E940	D941	F942	L943	E944	K945	L946	R946	E951	G952	E953	P957	R958	L959	Q960	Y961	Y962	N963	R964	R967	L968	L969	E970	L974	P975	E976	L977	W978	I979	Q980	D991	L913	A914	Q915	C916	Y917	L918	V919	S943	G844	S845	S846	Q847	V848	H849	R850	S851	L852	N853	I858	H859	R860			

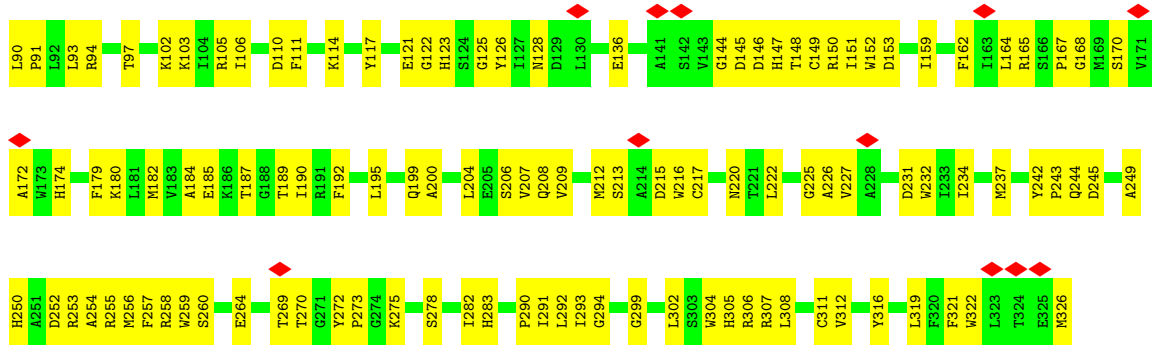


• Molecule 5: MGC83926 protein

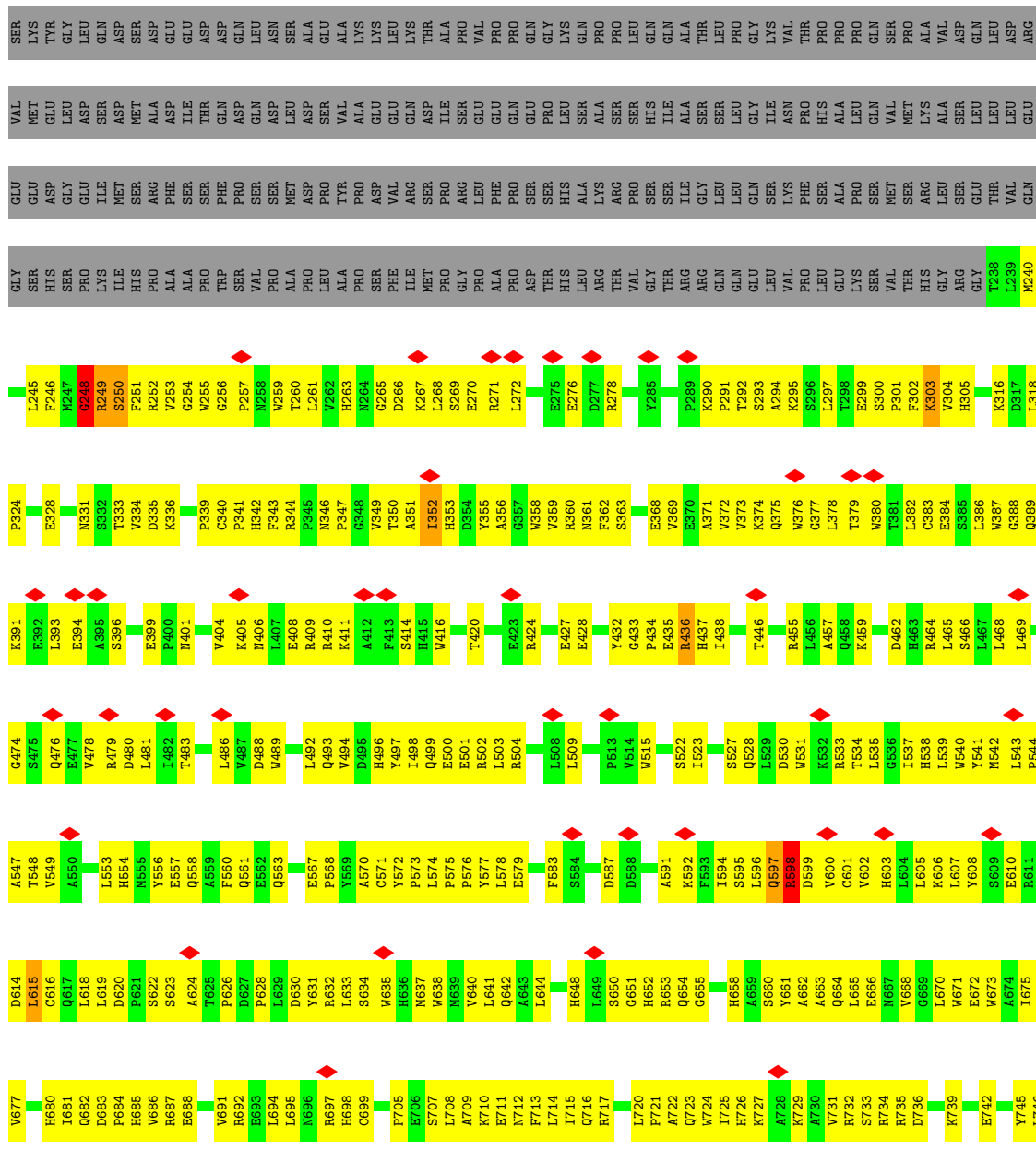


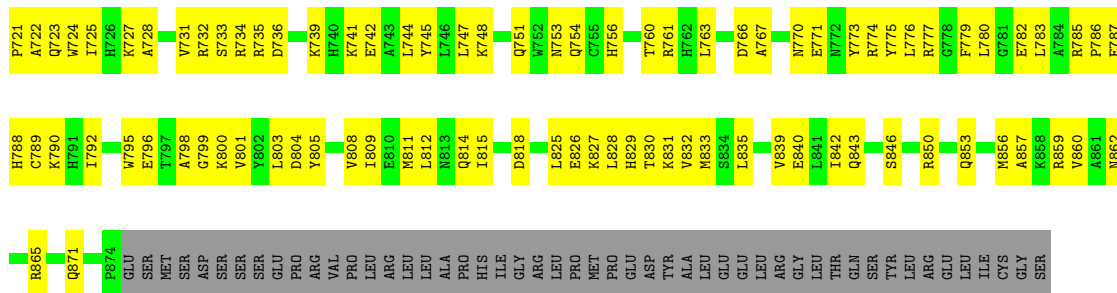
• Molecule 5: MGC83926 protein



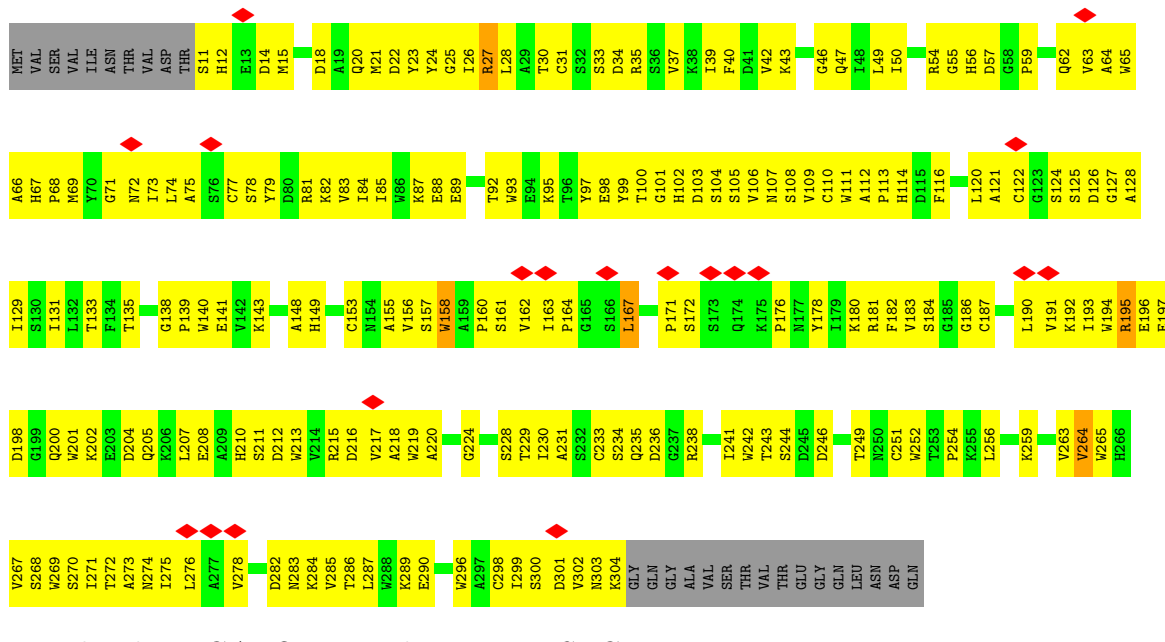


• Molecule 6: Nuclear pore complex protein Nup96

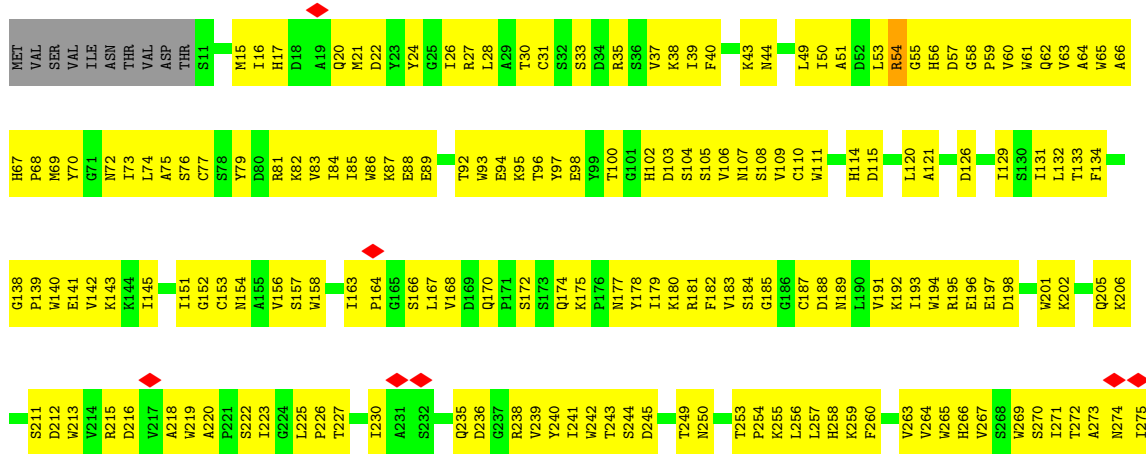




● Molecule 7: GATOR complex protein SEC13

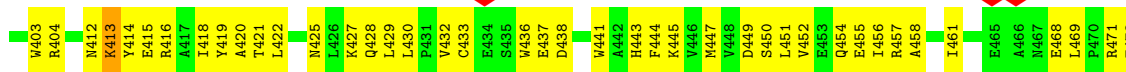
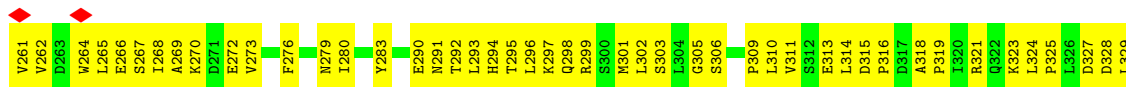
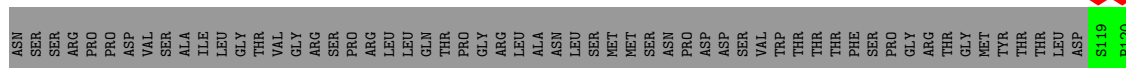
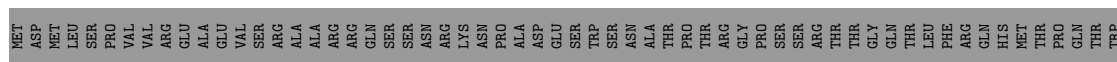


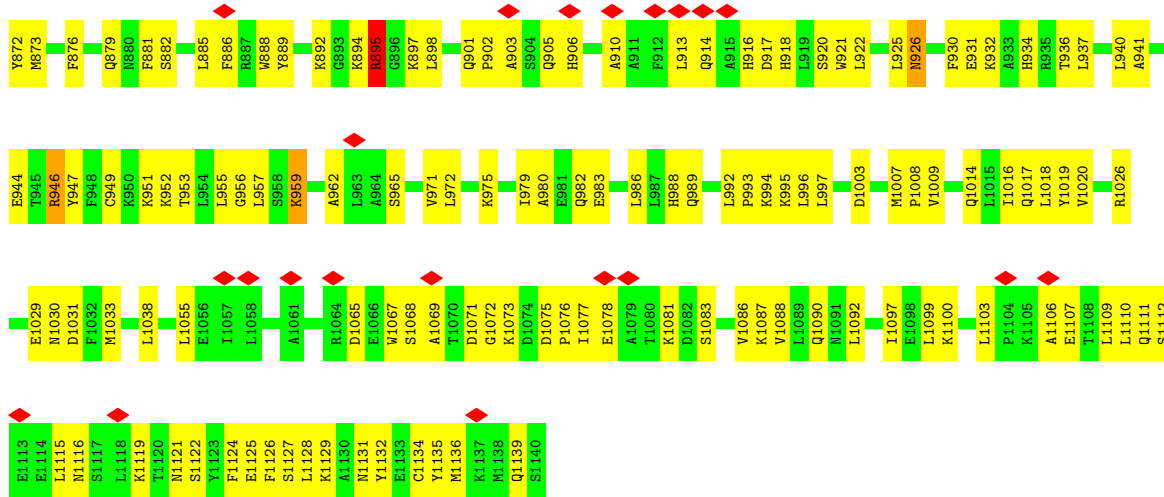
● Molecule 7: GATOR complex protein SEC13





● Molecule 8: Nuclear pore complex protein

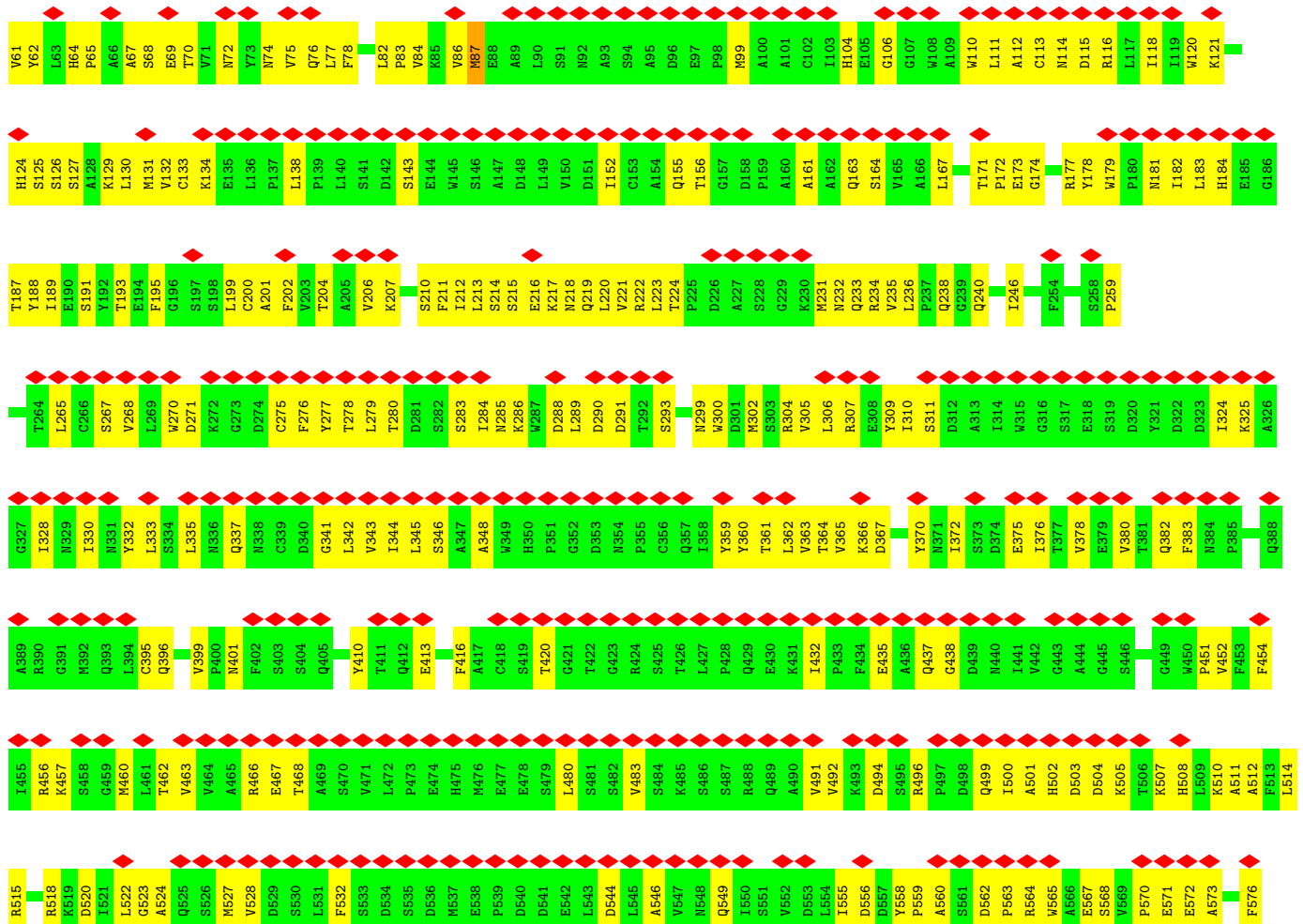


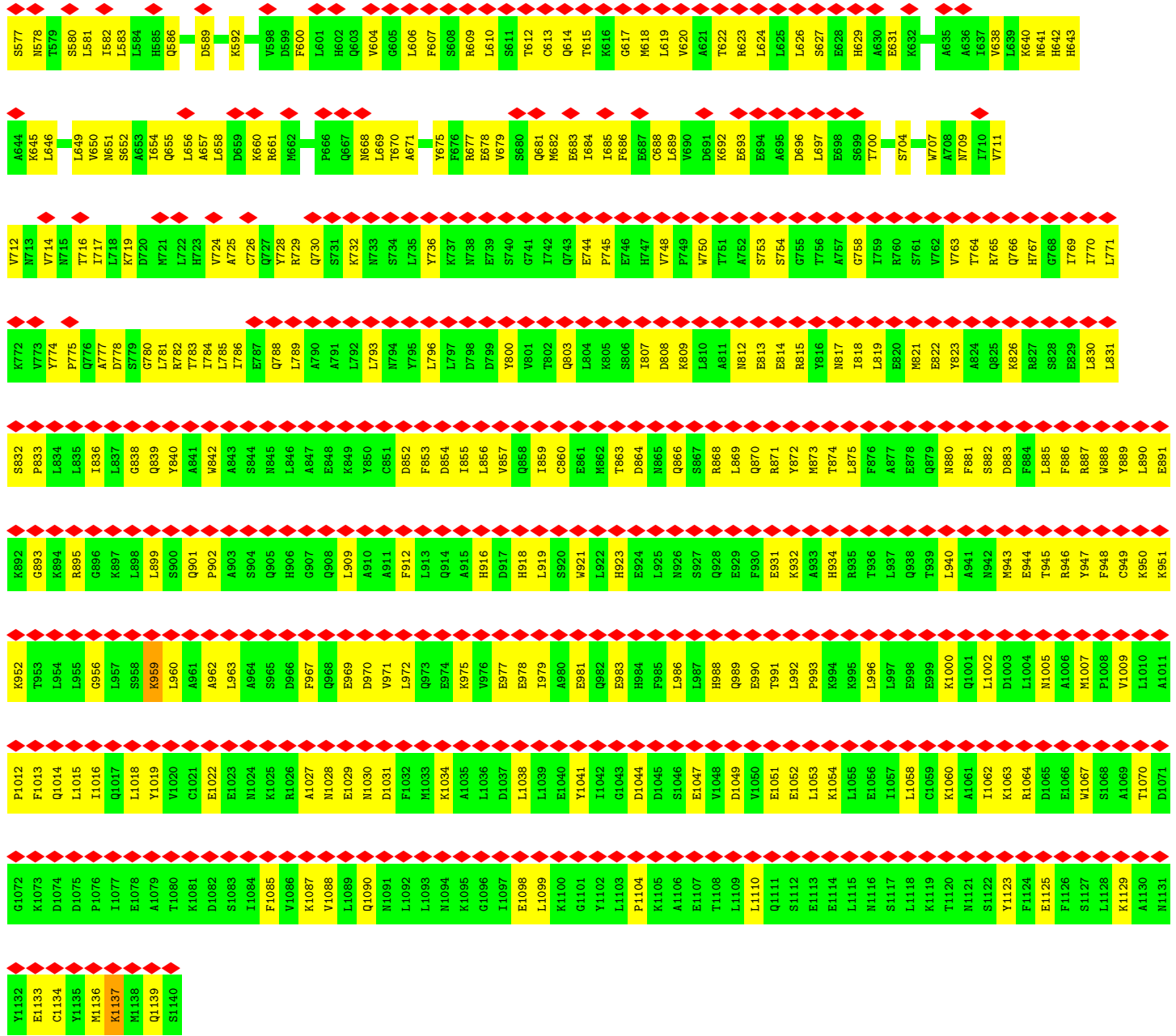


• Molecule 9: outer Nup133

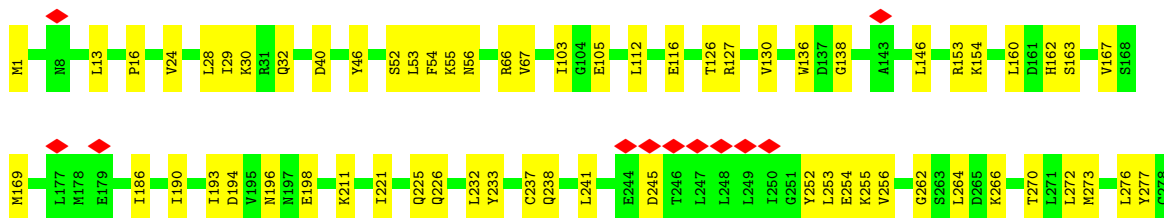


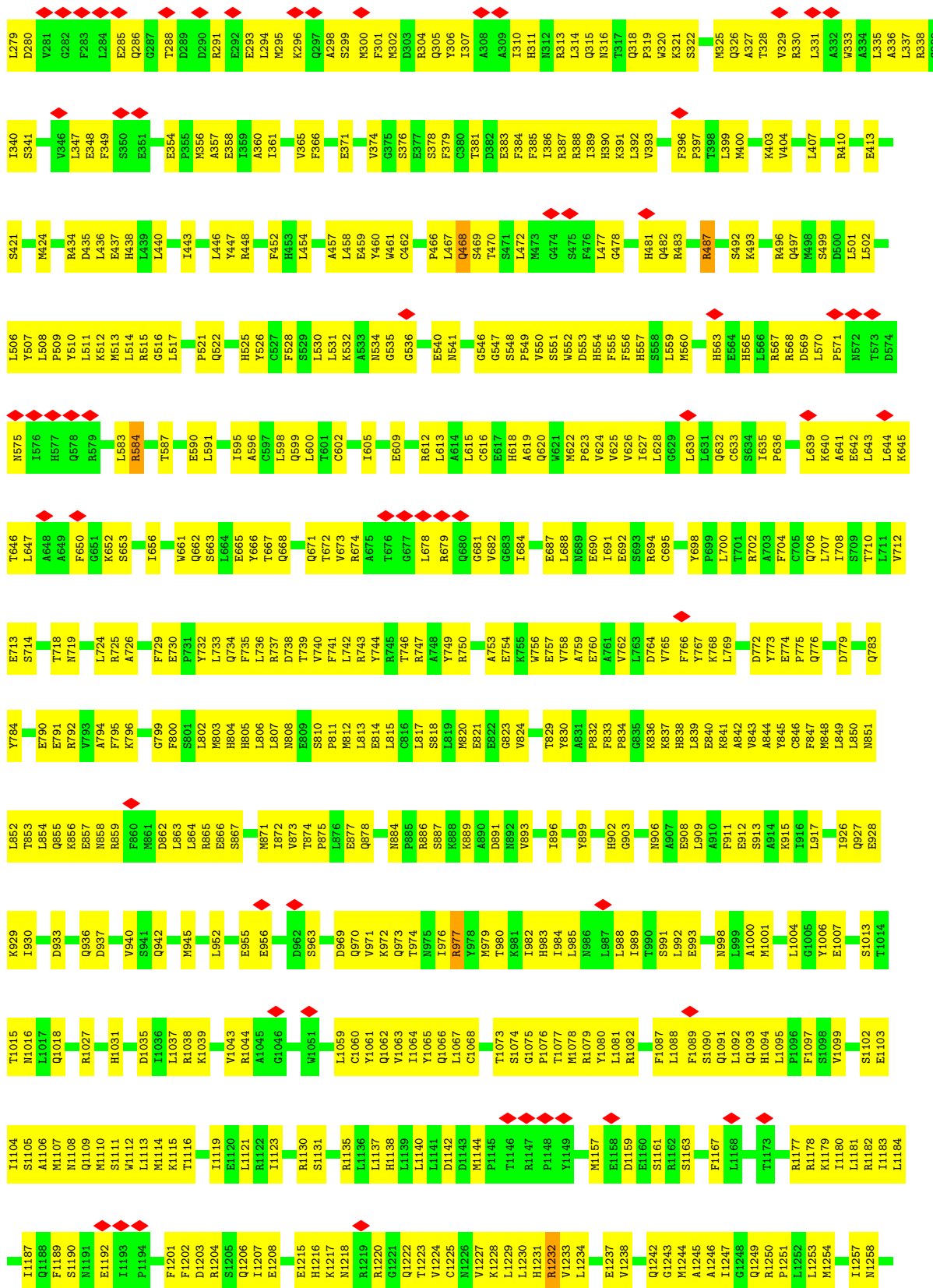
MET	PHE	PRO	ARG	PRO	ARG	ALA	GLN	GLY	MET	GLY	GLY	ALA	SER	ARG	ARG	PRO	PRO	PHE	ASN	SER	ARG	LEU	THR	GLY	GLY	LYS	LEU	GLY	PRO	GLY	VAL	THR	ALA	SER	SER	SER	PRO	SER	ALA	LEU	TYR	SER	PRO	VAL	GLY	ARG	ALA	SER	GLY	ALA	SER	GLY	VAL	SER	R60
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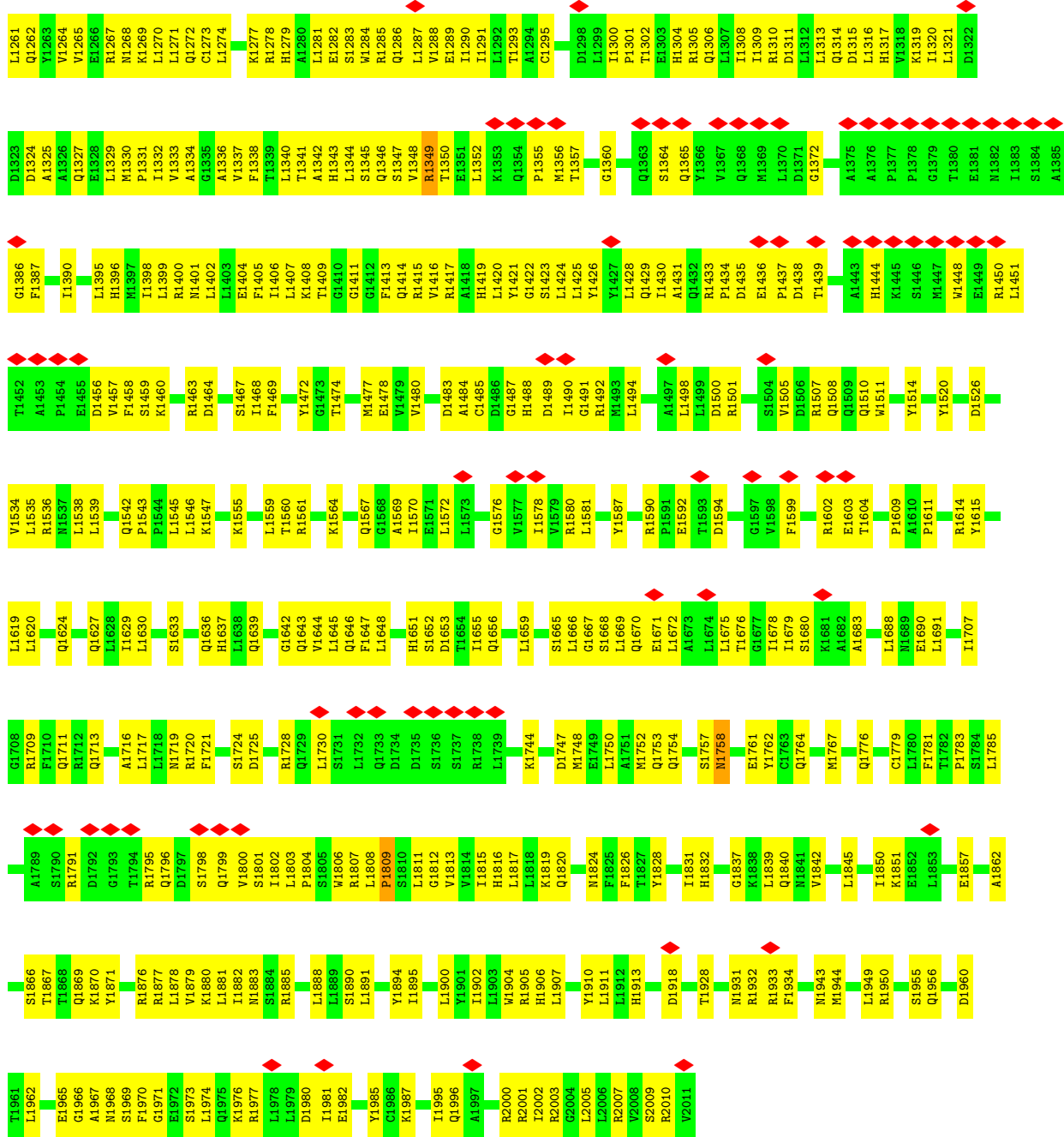




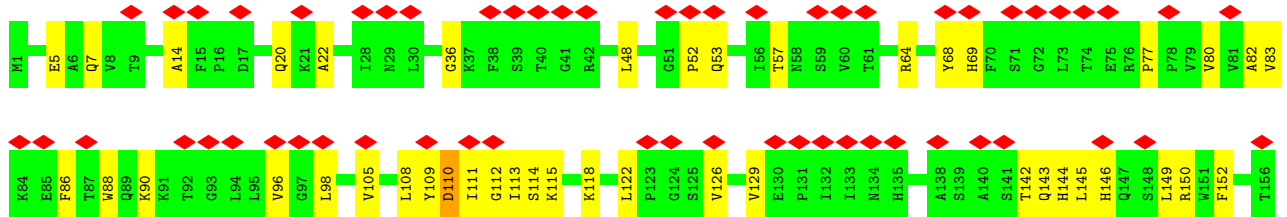
• Molecule 10: MGC83295 protein



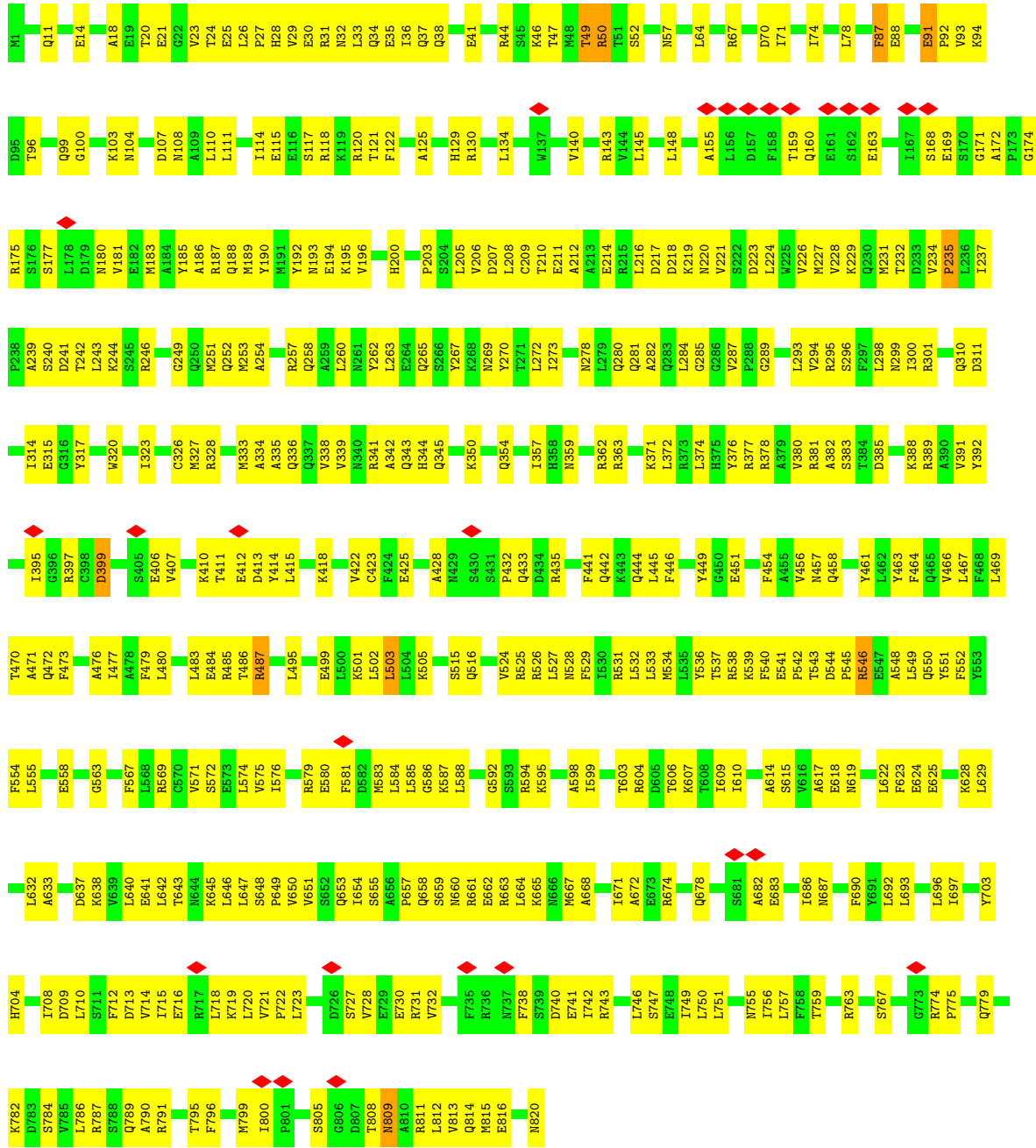




• Molecule 11: Protein ELYS



AL57	G238	L322	G398	G484	L547	Q620	F691	V776	V863	H954	LEU
V158	T239	E323	T239	L485	A548	Q621	V692	F777	P866	H955	SER
T160	S240	E323	S240	I486	A549	Q625	N693	I781	V867	H956	THR
D161	F244	L331	F244	H487	A550	V628	V694	V784	A868	Q957	THR
H164	S245	S334	S245	F488	V551	N628	I697	F785	H877	N960	LYS
V165	L246	S339	L246	T491	E552	L629	V700	V788	H878	Y961	GLN
E174	N248	S339	N248	G492	S553	L630	Y701	K788	V879	Y962	ALA
V175	M249	L340	M249	F493	S554	L633	S702	V789	V880	Q966	ALA
D180	L252	L341	L252	Q494	G557	L634	S703	D790	L881	Q967	PRO
E181	R253	Q343	R253	K495	L558	C635	D703	L882	L882	C979	PRO
L182	R254	Q344	R254	E496	L559	C636	Q704	S791	N884	D980	ARG
L183	D255	Q345	D255	T497	L560	F637	K705	V792	R885	R981	THR
A184	V256	N345	V256	L498	V563	A638	K707	V793	S886	R982	LYS
S185	R264	N346	R264	H499	K564	Q639	L708	V802	L887	L983	THR
D186	V267	T347	V267	F500	R565	A640	K715	P803	L888	R984	ASN
L187	V267	K348	V267	S501	R566	R641	W716	R808	V891	E985	THR
E188	C268	L349	C268	K502	V567	E642	D717	R809	W891	R986	PHE
V189	A269	L350	A269	K503	E570	V643	T718	L809	Q894	R990	LEU
M190	V270	G351	V270	S504	E571	V644	S719	R808	H897	I993	VAL
S191	A271	C352	A271	S505	P572	Q646	S720	L809	H897	I993	VAL
V192	F272	Q353	F272	S507	R573	Q647	W722	R810	S898	I993	VAL
L193	Q273	Q354	Q273	L508	R574	Q648	I723	R811	S899	I993	VAL
P194	E274	L355	E274	N509	A575	V649	I727	R806	R900	Q996	THR
T195	D278	E356	D278	N512	A576	D650	I734	L807	N901	Y997	THR
K196	P279	K357	P279	P513	N577	K654	I738	R808	N902	G998	THR
I197	Y284	F358	Y284	G515	L578	K655	W738	H818	M913	I1000	THR
A203	A287	R359	A287	G516	R579	Q655	D742	H818	C914	L1001	THR
A204	V288	R361	A287	H516	F580	S656	N743	H832	Q915	P1002	ALA
R206	Q289	E362	Q289	R518	L582	V657	W748	Q822	Q916	R1003	ALA
E207	S290	E363	S290	C519	E583	V658	V749	N824	E916	L1004	THR
R209	S291	E365	S291	W584	W585	R659	P750	S824	M917	M1005	THR
H210	S292	E366	S292	A521	W586	L661	A751	S832	I920	Q1006	THR
L211	S293	E367	S293	A522	K588	L664	W752	S833	V924	R1007	THR
A216	G294	G367	G294	G523	K589	V664	A755	S834	L924	E1011	THR
A217	G295	E368	G295	L524	V590	A665	L756	S834	K925	R1012	THR
P218	Q296	E369	Q296	L525	V592	S666	L757	S835	L926	A1013	THR
V223	V297	E370	V297	A526	Q594	S666	D758	S835	F928	LYS	PRO
S224	L301	E371	L301	K528	E595	R673	L761	S836	E931	PRO	PRO
C225	L307	E372	L307	F529	F596	L677	L762	S837	V945	PRO	PRO
L226	D308	E373	D308	T530	D597	L678	E763	S839	Q946	PRO	PRO
S227	R309	E374	R309	D531	R598	D679	W764	Q840	N947	PRO	PRO
Y228	K310	E375	Y228	Q533	F610	D682	A765	Q841	Q946	PRO	PRO
I229	C311	E376	I229	A534	I611	D682	W766	H842	Q946	PRO	PRO
S230	L312	E377	S230	S535	D612	D682	D766	Q843	E949	PRO	PRO
R231	A313	E378	R231	S536	P613	D682	S769	Q843	Q946	PRO	PRO
T232	S314	E379	T232	S536	H614	D682	A772	Q843	Q946	PRO	PRO
Q234	G315	E380	Q234	S538	H614	D682	I773	Q843	Q946	PRO	PRO
L235	I317	E381	L235	S538	L616	D682	I773	Q843	Q946	PRO	PRO
A236	M318	E382	A236	E401	L616	D682	I773	Q843	Q946	PRO	PRO
V237	L397	E383	V237	E541	L619	D682	I775	Q843	Q946	PRO	PRO
		E384		E542	L619	D682	I775	Q843	Q946	PRO	PRO
		E385		L543	L619	D682	I775	Q843	Q946	PRO	PRO
		E386		I546	L619	D682	I775	Q843	Q946	PRO	PRO



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	417490	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	6000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	3.301	Depositor
Minimum map value	-2.133	Depositor
Average map value	0.008	Depositor
Map value standard deviation	0.092	Depositor
Recommended contour level	0.4	Depositor
Map size (Å)	716.8, 716.8, 716.8	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.24, 2.24, 2.24	Depositor

5 Model quality i

5.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.37	1/5377 (0.0%)	0.65	2/7265 (0.0%)
1	J	0.31	0/5377	0.56	0/7265
2	B	0.33	0/2996	0.63	0/4074
2	K	0.28	0/2996	0.55	0/4074
3	C	0.35	0/2674	0.60	0/3628
3	L	0.31	0/2612	0.56	0/3545
4	D	0.29	0/11349	0.54	4/15414 (0.0%)
4	M	0.32	1/11349 (0.0%)	0.56	3/15414 (0.0%)
5	E	0.29	0/2643	0.53	0/3587
5	N	0.28	0/2643	0.53	0/3587
6	F	0.35	0/5699	0.60	1/7730 (0.0%)
6	O	0.35	0/5299	0.60	1/7189 (0.0%)
7	G	0.41	0/2367	0.63	1/3231 (0.0%)
7	P	0.39	0/2367	0.61	0/3231
8	H	0.32	0/6628	0.55	1/8968 (0.0%)
8	Q	0.35	0/6483	0.57	1/8772 (0.0%)
9	I	1.19	6/8647 (0.1%)	0.53	5/11720 (0.0%)
9	R	0.32	1/8703 (0.0%)	0.55	4/11797 (0.0%)
10	S	0.30	0/16272	0.54	0/22021
11	T	0.30	1/8213 (0.0%)	0.52	3/11150 (0.0%)
12	U	0.31	0/6685	0.58	1/9025 (0.0%)
All	All	0.44	10/127379 (0.0%)	0.56	27/172687 (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
2	B	0	1
6	F	0	4
7	G	0	2
8	H	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	Q	0	1
9	I	0	2
11	T	0	1
12	U	0	1
All	All	0	13

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	576	PHE	CD2-CE2	51.58	2.42	1.39
9	I	576	PHE	CD1-CE1	51.20	2.41	1.39
9	I	576	PHE	CE1-CZ	48.40	2.29	1.37
9	I	576	PHE	CE2-CZ	46.94	2.26	1.37
9	I	576	PHE	CG-CD1	30.21	1.84	1.38
9	I	576	PHE	CG-CD2	29.71	1.83	1.38
11	T	642	GLU	CA-C	13.03	1.86	1.52
4	M	786	PRO	CG-CD	-12.14	1.10	1.50
9	R	902	PRO	CG-CD	-12.02	1.10	1.50
1	A	550	GLN	CA-CB	-5.67	1.41	1.53

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	R	902	PRO	N-CD-CG	-15.00	80.70	103.20
4	M	786	PRO	N-CD-CG	-13.51	82.93	103.20
11	T	642	GLU	O-C-N	-10.30	106.22	122.70
9	R	902	PRO	CA-N-CD	-9.27	98.52	111.50
11	T	642	GLU	N-CA-CB	-9.26	93.93	110.60
4	M	786	PRO	CA-N-CD	-9.10	98.76	111.50
11	T	642	GLU	CB-CA-C	8.52	127.43	110.40
9	R	902	PRO	CA-CB-CG	-8.48	87.89	104.00
1	A	414	LEU	CA-CB-CG	7.94	133.56	115.30
4	M	786	PRO	CA-CB-CG	-7.48	89.80	104.00
9	R	87	MET	CB-CG-SD	-7.31	90.47	112.40
8	Q	544	LEU	CA-CB-CG	7.06	131.53	115.30
12	U	235	PRO	CA-N-CD	-7.05	101.63	111.50
9	I	576	PHE	CD1-CG-CD2	6.87	127.23	118.30
9	I	576	PHE	CB-CG-CD2	-6.65	116.15	120.80
9	I	576	PHE	CB-CG-CD1	-6.27	116.41	120.80
4	D	1352	LEU	CB-CG-CD1	-5.80	101.13	111.00
9	I	99	MET	CB-CG-SD	-5.73	95.20	112.40
8	H	903	LEU	CA-CB-CG	5.59	128.16	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	167	LEU	CA-CB-CG	5.53	128.01	115.30
4	D	1125	LEU	CA-CB-CG	5.29	127.47	115.30
4	D	1337	LEU	CA-CB-CG	5.29	127.46	115.30
6	F	248	GLY	N-CA-C	-5.25	99.99	113.10
4	D	1339	LEU	CA-CB-CG	5.15	127.15	115.30
1	A	576	LEU	CA-CB-CG	-5.10	103.58	115.30
9	I	895	ARG	CB-CG-CD	-5.10	98.34	111.60
6	O	259	TRP	CA-CB-CG	-5.04	104.12	113.70

There are no chirality outliers.

All (13) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	244	VAL	Peptide
6	F	248	GLY	Peptide
6	F	250	SER	Peptide
6	F	409	ARG	Sidechain
6	F	598	ARG	Sidechain
7	G	158	TRP	Peptide
7	G	264	VAL	Peptide
8	H	355	ARG	Sidechain
9	I	466	ARG	Sidechain
9	I	895	ARG	Sidechain
8	Q	355	ARG	Sidechain
11	T	110	ASP	Peptide
12	U	49	THR	Peptide

5.2 Too-close contacts [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5268	0	5226	435	0
1	J	5268	0	5226	391	0
2	B	2927	0	2800	271	0
2	K	2927	0	2800	213	0
3	C	2607	0	2513	279	0
3	L	2546	0	2444	207	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	11118	0	11035	511	0
4	M	11118	0	11035	655	0
5	E	2573	0	2503	139	0
5	N	2573	0	2503	133	0
6	F	5560	0	5469	558	0
6	O	5168	0	5080	442	0
7	G	2300	0	2180	235	0
7	P	2300	0	2180	265	0
8	H	6494	0	6413	422	0
8	Q	6351	0	6268	543	0
9	I	8482	0	8354	384	0
9	R	8536	0	8407	439	0
10	S	15974	0	16156	891	0
11	T	8041	0	7961	301	0
12	U	6569	0	6537	409	0
All	All	124700	0	123090	7598	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 31.

All (7598) 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)
9:I:576:PHE:CD1	9:I:576:PHE:CG	1.84	1.65
9:I:576:PHE:CG	9:I:576:PHE:CD2	1.83	1.64
6:F:612:GLN:HA	12:U:183:MET:CG	1.11	1.58
8:Q:869:ALA:CB	8:Q:895:LEU:CD2	1.84	1.54
6:F:612:GLN:CA	12:U:183:MET:HG2	1.41	1.50
6:F:576:PRO:CD	6:F:624:ALA:HA	1.38	1.49
6:F:607:LEU:HD13	6:F:615:LEU:CD2	1.44	1.43
8:Q:852:LEU:CD2	8:Q:868:LEU:HD11	1.46	1.43
8:H:232:PHE:CA	8:H:251:ARG:HB2	1.47	1.41
11:T:642:GLU:CA	11:T:642:GLU:C	1.86	1.41
6:F:376:TRP:O	6:F:633:LEU:CD1	1.69	1.38
8:Q:869:ALA:CB	8:Q:895:LEU:HD21	0.88	1.35
6:F:328:GLU:OE2	6:F:355:TYR:CE2	1.81	1.34
9:I:576:PHE:CE2	11:T:642:GLU:HA	1.62	1.33
6:F:383:CYS:CB	6:F:637:MET:SD	2.14	1.32
6:F:382:LEU:HD13	6:F:601:CYS:SG	1.71	1.29
6:F:353:HIS:CE1	6:F:389:GLN:O	1.86	1.29
6:F:600:VAL:CG2	6:F:623:SER:OG	1.80	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:614:ASP:OD2	6:F:616:CYS:SG	1.90	1.27
8:Q:869:ALA:HB3	8:Q:895:LEU:CD2	1.52	1.26
6:F:382:LEU:CD1	6:F:601:CYS:SG	2.22	1.26
6:F:576:PRO:HD2	6:F:624:ALA:CA	1.65	1.25
6:F:612:GLN:HB3	12:U:183:MET:O	1.31	1.25
8:Q:863:LYS:O	8:Q:867:ARG:HD3	1.26	1.25
9:I:576:PHE:CD2	11:T:642:GLU:HA	1.74	1.23
9:I:576:PHE:CE2	9:I:576:PHE:CZ	2.26	1.22
9:I:576:PHE:CE1	11:T:642:GLU:O	1.92	1.21
9:I:576:PHE:CZ	9:I:576:PHE:CE1	2.29	1.21
8:H:436:TRP:HD1	8:H:495:VAL:CG1	1.53	1.20
9:I:576:PHE:CE2	11:T:643:VAL:N	2.09	1.20
8:H:232:PHE:H	8:H:251:ARG:CA	1.51	1.20
6:F:328:GLU:CG	6:F:355:TYR:OH	1.92	1.17
6:F:383:CYS:SG	6:F:637:MET:HE3	1.84	1.16
6:F:612:GLN:HA	12:U:183:MET:HG3	1.20	1.15
6:F:353:HIS:NE2	6:F:389:GLN:O	1.79	1.15
6:F:383:CYS:SG	6:F:637:MET:HE2	1.88	1.14
8:Q:869:ALA:HB2	8:Q:895:LEU:HD21	1.26	1.13
6:F:376:TRP:O	6:F:633:LEU:HD13	1.31	1.13
6:F:576:PRO:CD	6:F:624:ALA:CA	2.23	1.12
6:F:328:GLU:OE2	6:F:355:TYR:CZ	2.02	1.12
6:F:380:TRP:CD1	6:F:633:LEU:HD12	1.82	1.12
9:I:576:PHE:CZ	11:T:642:GLU:C	2.24	1.11
9:I:576:PHE:CE2	11:T:642:GLU:CA	2.33	1.11
6:F:612:GLN:CA	12:U:183:MET:CG	2.07	1.11
6:F:383:CYS:SG	6:F:637:MET:SD	1.20	1.10
9:I:576:PHE:CD2	11:T:643:VAL:N	2.19	1.10
6:F:600:VAL:HG23	6:F:623:SER:OG	1.49	1.09
6:F:607:LEU:HD13	6:F:615:LEU:HD21	1.09	1.09
9:I:576:PHE:CE1	11:T:642:GLU:C	2.26	1.09
8:H:436:TRP:CD1	8:H:495:VAL:CG1	2.34	1.09
9:I:576:PHE:CD1	9:I:576:PHE:CE1	2.41	1.09
8:Q:817:GLY:O	8:Q:879:LEU:HG	1.53	1.09
8:H:232:PHE:HA	8:H:251:ARG:CB	1.83	1.08
9:I:576:PHE:CD2	9:I:576:PHE:CE2	2.42	1.08
9:I:576:PHE:CD1	11:T:642:GLU:O	2.06	1.08
6:F:600:VAL:HG21	6:F:623:SER:OG	1.54	1.07
8:H:232:PHE:H	8:H:251:ARG:HA	1.08	1.07
9:I:576:PHE:CD1	11:T:642:GLU:C	2.26	1.07
6:F:386:LEU:O	6:F:608:TYR:CE1	2.07	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:852:LEU:CD2	8:Q:868:LEU:CD1	2.32	1.07
8:Q:863:LYS:O	8:Q:867:ARG:CD	2.03	1.07
6:F:576:PRO:HD3	6:F:624:ALA:HA	1.31	1.06
9:I:576:PHE:CD2	11:T:642:GLU:C	2.29	1.06
6:F:607:LEU:CD1	6:F:615:LEU:HD21	1.86	1.06
8:H:436:TRP:CD1	8:H:495:VAL:HG13	1.92	1.05
3:C:240:VAL:HG12	3:C:246:ARG:HH21	1.21	1.04
6:F:380:TRP:N	6:F:633:LEU:HD11	1.69	1.04
6:F:383:CYS:SG	6:F:637:MET:CE	1.13	1.03
6:F:607:LEU:CD1	6:F:615:LEU:CD2	2.36	1.03
9:I:576:PHE:CE2	11:T:642:GLU:C	2.30	1.03
1:A:26:SER:O	1:A:33:LEU:HB2	1.58	1.03
8:H:232:PHE:H	8:H:251:ARG:CB	1.71	1.03
9:I:576:PHE:CG	11:T:642:GLU:C	2.32	1.03
6:F:328:GLU:OE2	6:F:355:TYR:OH	1.77	1.02
6:F:613:TYR:O	12:U:183:MET:CE	2.08	1.02
8:Q:869:ALA:HB1	8:Q:895:LEU:HD21	1.03	1.02
8:Q:134:GLN:HE21	12:U:163:GLU:HB2	1.23	1.01
9:I:576:PHE:CD2	11:T:642:GLU:CA	2.42	1.01
12:U:171:GLY:H	12:U:542:PRO:HD2	1.22	1.01
8:H:209:VAL:HB	8:H:264:TRP:HZ2	1.24	1.00
9:I:576:PHE:CZ	11:T:642:GLU:N	2.30	1.00
8:H:436:TRP:CZ3	8:H:504:HIS:CD2	2.51	0.99
9:I:576:PHE:CG	11:T:642:GLU:HB3	1.96	0.99
2:B:114:GLN:HE21	2:B:158:ARG:HA	1.28	0.98
8:Q:852:LEU:HD23	8:Q:868:LEU:CD1	1.92	0.98
9:I:576:PHE:CZ	11:T:642:GLU:CA	2.46	0.98
6:O:602:VAL:HG12	6:O:606:LYS:HZ2	1.26	0.98
6:O:592:LYS:HA	6:O:596:LEU:HD12	1.46	0.97
8:Q:359:ARG:HH22	12:U:32:ASN:H	1.03	0.97
2:B:185:THR:HG1	2:B:195:TRP:HH2	1.07	0.97
6:F:380:TRP:CG	6:F:633:LEU:HD12	1.99	0.97
6:F:380:TRP:CZ2	6:F:633:LEU:HA	1.99	0.97
8:H:436:TRP:CZ3	8:H:504:HIS:HD2	1.82	0.97
6:F:382:LEU:HD12	6:F:601:CYS:SG	2.02	0.97
6:F:328:GLU:HG2	6:F:355:TYR:OH	1.61	0.96
8:H:232:PHE:N	8:H:251:ARG:HB2	1.78	0.96
6:F:592:LYS:HA	6:F:596:LEU:HD12	1.46	0.96
5:E:145:ASP:HA	5:E:167:PRO:HB3	1.48	0.96
6:F:333:THR:HG23	6:F:346:ASN:HB2	1.46	0.96
8:Q:355:ARG:NH2	8:Q:359:ARG:HE	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:232:PHE:CA	8:H:251:ARG:CB	2.41	0.95
8:H:355:ARG:NH2	8:H:359:ARG:HE	1.65	0.95
6:F:380:TRP:H	6:F:633:LEU:HD11	1.28	0.95
6:F:573:PRO:HB2	6:F:599:ASP:HB2	1.49	0.94
12:U:814:GLN:NE2	12:U:815:MET:SD	2.40	0.94
6:F:328:GLU:OE2	6:F:355:TYR:HE2	1.30	0.94
8:H:232:PHE:N	8:H:251:ARG:CB	2.29	0.94
6:F:575:PRO:HG3	6:F:597:GLN:CD	1.87	0.94
2:K:23:SER:HB2	2:K:354:LEU:HG	1.48	0.94
8:Q:852:LEU:HD23	8:Q:868:LEU:HD11	0.95	0.94
8:Q:874:SER:N	8:Q:879:LEU:O	2.00	0.94
6:F:383:CYS:SG	6:F:637:MET:HE1	1.19	0.94
6:F:387:TRP:HB3	6:F:644:LEU:CD1	1.98	0.94
6:F:613:TYR:O	12:U:183:MET:HE1	1.66	0.93
6:F:576:PRO:HD2	6:F:624:ALA:HA	0.93	0.93
8:H:232:PHE:N	8:H:251:ARG:HA	1.84	0.93
9:I:576:PHE:CE1	11:T:642:GLU:CA	2.52	0.93
8:H:232:PHE:N	8:H:251:ARG:CA	2.33	0.92
1:J:74:GLU:HG2	2:K:245:ARG:HH22	1.32	0.92
8:Q:869:ALA:HB3	8:Q:895:LEU:HD21	0.93	0.92
8:H:436:TRP:HD1	8:H:495:VAL:HG11	1.34	0.92
7:P:20:GLN:HB3	7:P:65:TRP:HE1	1.35	0.91
10:S:1413:PHE:H	10:S:1417:ARG:HH21	1.16	0.91
6:F:575:PRO:HG3	6:F:597:GLN:OE1	1.70	0.91
8:Q:810:ASN:O	8:Q:814:PHE:HB2	1.69	0.91
12:U:763:ARG:HG3	12:U:774:ARG:HH22	1.35	0.91
2:B:346:LEU:H	2:B:364:ALA:HB2	1.34	0.91
8:H:436:TRP:CE3	8:H:504:HIS:HD2	1.88	0.90
3:L:287:ASN:HB2	3:L:292:VAL:HG12	1.53	0.90
6:F:328:GLU:CD	6:F:355:TYR:OH	2.09	0.90
4:M:539:LEU:HD21	9:R:131:MET:H	1.35	0.90
8:Q:754:TRP:HE1	8:Q:801:THR:HG1	1.17	0.90
6:O:602:VAL:HA	6:O:605:LEU:HD12	1.53	0.90
9:R:745:PRO:HB3	9:R:807:ILE:HA	1.51	0.90
3:C:243:LYS:HA	3:C:280:GLN:HA	1.53	0.90
1:J:490:ARG:NH1	2:K:25:SER:OG	2.04	0.89
9:I:643:HIS:HA	9:I:650:VAL:HG21	1.54	0.89
1:A:75:SER:HB2	1:A:374:HIS:HE1	1.38	0.89
8:H:232:PHE:HA	8:H:251:ARG:HB2	0.91	0.89
6:F:802:TYR:HA	6:F:805:TYR:HD2	1.33	0.89
7:G:18:ASP:HB3	7:G:20:GLN:HE22	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:252:PRO:HB2	3:C:255:LYS:HD2	1.53	0.89
6:F:379:THR:OG1	6:F:633:LEU:CD2	2.21	0.89
1:J:99:VAL:HB	1:J:103:ARG:HH12	1.37	0.89
4:D:892:GLN:NE2	4:D:916:CYS:SG	2.46	0.88
6:F:434:PRO:O	6:F:437:HIS:ND1	2.07	0.88
10:S:1457:VAL:HA	10:S:1460:LYS:HG2	1.54	0.88
10:S:322:SER:HB2	10:S:325:MET:HG2	1.54	0.88
6:F:576:PRO:HG2	6:F:624:ALA:O	1.73	0.88
3:L:306:LYS:HG2	3:L:316:ILE:HD13	1.55	0.88
3:L:293:LEU:HB3	3:L:305:TRP:HB2	1.56	0.87
9:R:883:ASP:HB3	9:R:887:ARG:HH12	1.37	0.87
6:F:602:VAL:HA	6:F:605:LEU:HD12	1.57	0.87
2:B:225:ASN:HB3	2:B:271:PRO:HB2	1.55	0.87
4:D:1074:LEU:HD11	4:D:1106:ARG:HH21	1.40	0.87
4:M:813:THR:OG1	4:M:817:GLN:NE2	2.07	0.87
8:Q:841:ARG:O	8:Q:845:LEU:HD23	1.72	0.87
10:S:314:LEU:HD21	10:S:330:ARG:HG2	1.57	0.87
11:T:642:GLU:C	11:T:642:GLU:HA	1.92	0.87
8:H:434:GLU:O	8:H:494:ARG:HB3	1.75	0.87
6:O:434:PRO:O	6:O:437:HIS:ND1	2.07	0.87
6:F:553:LEU:CD1	6:F:605:LEU:HB3	2.05	0.87
8:Q:359:ARG:NH2	12:U:32:ASN:H	1.72	0.87
7:P:179:ILE:HG22	7:P:195:ARG:HH12	1.40	0.86
6:F:612:GLN:C	12:U:183:MET:HG2	1.95	0.86
4:M:1337:LEU:HA	4:M:1340:TYR:HD2	1.41	0.86
2:B:226:GLN:HE21	2:B:229:VAL:HB	1.39	0.86
8:Q:874:SER:HB2	8:Q:879:LEU:HB3	1.57	0.86
1:J:58:ARG:HE	1:J:60:ASP:HB2	1.40	0.86
9:R:767:HIS:HD2	9:R:789:LEU:HD21	1.38	0.86
6:F:530:ASP:HB2	6:F:533:ARG:HG3	1.58	0.86
7:G:195:ARG:HH12	7:G:202:LYS:HE2	1.38	0.86
9:I:576:PHE:CD1	11:T:642:GLU:CB	2.59	0.86
9:I:576:PHE:CD1	11:T:642:GLU:HB3	2.11	0.86
6:O:530:ASP:HB2	6:O:533:ARG:HG3	1.58	0.86
9:R:143:SER:H	9:R:172:PRO:HG2	1.40	0.86
9:I:831:LEU:HB3	5:N:1:MET:HB2	1.57	0.85
2:K:16:ARG:HE	2:K:36:GLY:HA3	1.42	0.85
4:D:888:TYR:O	4:D:892:GLN:NE2	2.09	0.85
6:O:257:PRO:O	6:O:308:LYS:NZ	2.09	0.85
1:J:79:PHE:O	1:J:83:GLN:NE2	2.09	0.85
3:C:295:SER:O	3:C:302:VAL:HA	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:SER:HA	1:A:489:ILE:HD12	1.59	0.84
8:Q:852:LEU:HD21	8:Q:868:LEU:HD11	1.57	0.84
8:Q:869:ALA:HB3	8:Q:895:LEU:HD22	1.59	0.84
4:M:880:GLU:HG2	4:M:884:ARG:HE	1.43	0.84
12:U:579:ARG:NH1	12:U:625:GLU:OE1	2.09	0.84
9:I:472:LEU:O	9:I:474:GLU:N	2.08	0.84
12:U:483:LEU:HD22	12:U:486:THR:HG23	1.58	0.84
6:F:248:GLY:O	6:F:249:ARG:NH1	2.10	0.84
3:L:241:ALA:HB2	3:L:284:VAL:HG13	1.57	0.84
4:M:1340:TYR:HA	4:M:1345:LEU:HB2	1.57	0.84
8:Q:341:LEU:HD11	8:Q:353:ALA:HA	1.59	0.84
7:G:89:GLU:O	7:G:92:THR:N	2.09	0.84
9:R:778:ASP:HB2	9:R:781:LEU:HD13	1.59	0.84
1:J:490:ARG:HD3	2:K:25:SER:HA	1.59	0.84
8:H:764:LYS:HD3	8:H:766:THR:H	1.40	0.84
2:K:186:VAL:HG13	2:K:220:VAL:HB	1.58	0.84
4:M:840:PHE:HB3	4:M:846:SER:HA	1.57	0.83
4:M:1338:ARG:NH1	4:M:1339:LEU:HD23	1.91	0.83
8:H:319:PRO:O	8:H:323:LYS:N	2.12	0.83
6:F:379:THR:OG1	6:F:633:LEU:HD22	1.78	0.83
2:K:241:ILE:HB	2:K:252:SER:HB2	1.58	0.83
3:L:287:ASN:HB3	3:L:291:THR:H	1.43	0.83
8:Q:319:PRO:O	8:Q:323:LYS:N	2.12	0.83
7:G:35:ARG:HB3	7:G:54:ARG:HH12	1.44	0.83
4:D:1411:LEU:HA	4:D:1414:LYS:HD2	1.60	0.83
6:F:333:THR:CG2	6:F:346:ASN:HB2	2.08	0.83
9:I:1122:SER:HB2	9:R:573:ALA:HA	1.59	0.83
9:I:1075:ASP:HB3	9:I:1078:GLU:HG2	1.59	0.83
7:P:67:HIS:CD2	7:P:114:HIS:HB3	2.14	0.83
6:F:553:LEU:HD11	6:F:605:LEU:HB2	1.59	0.83
7:P:87:LYS:HE3	7:P:96:THR:HB	1.60	0.83
6:F:380:TRP:CH2	6:F:633:LEU:HA	2.14	0.83
8:H:605:ASP:HB3	8:H:608:GLN:HG2	1.58	0.83
4:D:891:LEU:HD21	4:D:912:MET:HG2	1.61	0.83
6:F:612:GLN:HB2	12:U:187:ARG:HG3	1.58	0.83
9:I:576:PHE:CG	11:T:642:GLU:CA	2.62	0.83
3:C:287:ASN:ND2	3:C:289:THR:OG1	2.11	0.83
8:H:436:TRP:CB	8:H:495:VAL:HG13	2.09	0.83
9:I:576:PHE:CD1	11:T:642:GLU:CA	2.61	0.82
4:M:1185:GLU:HA	4:M:1188:LEU:HD12	1.60	0.82
2:B:197:LEU:HB3	2:B:198:ARG:HH21	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:376:TRP:O	6:F:633:LEU:HD11	1.77	0.82
4:M:342:HIS:CD2	4:M:361:LEU:HA	2.15	0.82
8:Q:180:LEU:HB2	8:Q:201:LEU:HD13	1.61	0.82
10:S:1044:ARG:HD3	10:S:1094:HIS:HA	1.61	0.82
4:D:1328:TYR:HA	4:D:1331:MET:HE2	1.61	0.82
6:F:259:TRP:HE1	6:F:666:GLU:HG3	1.42	0.82
6:F:383:CYS:CB	6:F:637:MET:CE	2.51	0.82
8:Q:888:MET:SD	8:Q:889:ARG:NH1	2.53	0.82
6:F:350:THR:HA	6:F:353:HIS:HB2	1.61	0.82
7:P:211:SER:H	7:P:238:ARG:HH21	1.24	0.82
1:A:4:LEU:HB2	3:C:308:ASN:HA	1.59	0.82
2:B:284:TRP:HA	2:B:338:THR:O	1.78	0.82
6:F:596:LEU:O	6:F:597:GLN:O	1.97	0.82
8:H:436:TRP:CE3	8:H:504:HIS:CD2	2.67	0.81
4:M:1292:ILE:HG23	4:M:1327:ARG:HH12	1.44	0.81
8:Q:146:MET:HE1	8:Q:539:ARG:HH22	1.45	0.81
12:U:406:GLU:HG3	12:U:414:TYR:HB2	1.62	0.81
6:F:553:LEU:CD1	6:F:605:LEU:CB	2.58	0.81
8:H:209:VAL:HB	8:H:264:TRP:CZ2	2.12	0.81
8:H:355:ARG:NH2	8:H:358:LYS:HG3	1.94	0.81
4:M:1141:ILE:O	4:M:1177:LEU:N	2.13	0.81
10:S:531:LEU:HD11	10:S:551:SER:HA	1.61	0.81
6:F:673:TRP:HA	6:F:676:PHE:CE2	2.14	0.81
9:I:723:HIS:O	9:I:727:GLN:NE2	2.13	0.81
4:D:1128:LEU:O	4:D:1132:ARG:NH1	2.13	0.81
6:O:446:THR:HA	6:O:537:ILE:HD11	1.63	0.81
9:R:178:TYR:HB3	9:R:189:ILE:HB	1.62	0.81
2:B:143:SER:HB2	2:B:151:ASN:HB2	1.61	0.81
4:M:464:LEU:HD21	4:M:535:TYR:HA	1.63	0.81
12:U:614:ALA:HB2	12:U:629:LEU:HD23	1.62	0.81
1:J:576:LEU:HD22	1:J:609:LYS:HE3	1.63	0.81
12:U:339:VAL:HG22	12:U:350:LYS:HG2	1.63	0.81
3:L:85:VAL:O	3:L:106:ARG:N	2.12	0.81
6:O:311:LEU:HD21	6:O:627:ASP:HB3	1.63	0.81
6:O:356:ALA:HB1	6:O:360:ARG:HH12	1.45	0.81
6:O:515:TRP:O	6:O:522:SER:HA	1.81	0.81
10:S:756:TRP:HE1	10:S:839:LEU:HB2	1.46	0.81
10:S:1428:LEU:HB3	10:S:1501:ARG:HH21	1.44	0.81
1:J:411:HIS:HB2	1:J:414:LEU:HB2	1.63	0.81
10:S:1202:PHE:HB3	10:S:1207:ILE:HD11	1.62	0.81
8:Q:355:ARG:NH2	8:Q:358:LYS:HG3	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:185:TYR:HB3	12:U:189:MET:HE1	1.64	0.80
3:C:62:ARG:NH1	3:C:77:CYS:SG	2.54	0.80
6:F:446:THR:HA	6:F:537:ILE:HD11	1.63	0.80
6:O:734:ARG:HG2	6:O:735:ARG:HH21	1.45	0.80
1:A:438:GLU:OE1	3:C:67:HIS:NE2	2.14	0.80
10:S:1097:PHE:HD2	10:S:1109:GLN:HB3	1.45	0.80
1:A:10:GLU:OE1	3:C:320:LYS:NZ	2.15	0.80
6:F:576:PRO:HD2	6:F:624:ALA:C	2.01	0.80
6:F:612:GLN:HG2	12:U:186:ALA:HB3	1.60	0.80
9:R:115:ASP:OD1	9:R:116:ARG:NH1	2.13	0.80
1:A:450:LYS:NZ	2:B:268:PRO:O	2.14	0.80
1:A:567:ALA:O	1:A:605:ARG:NH2	2.15	0.80
8:H:436:TRP:CG	8:H:495:VAL:HG13	2.16	0.80
9:I:576:PHE:CG	11:T:642:GLU:CB	2.65	0.80
1:J:106:ARG:NH2	1:J:148:GLU:OE1	2.14	0.80
6:O:271:ARG:HH22	6:O:305:HIS:H	1.30	0.80
10:S:926:ILE:HD12	10:S:929:LYS:HD3	1.63	0.80
6:O:695:LEU:HD13	6:O:728:ALA:HB2	1.64	0.80
10:S:784:TYR:HB3	10:S:791:GLU:HB3	1.63	0.80
6:F:387:TRP:HB3	6:F:644:LEU:HD13	1.63	0.79
1:J:503:ARG:HA	1:J:506:LYS:HZ3	1.48	0.79
10:S:1144:MET:HB2	10:S:1167:PHE:HB2	1.62	0.79
8:Q:868:LEU:HD23	8:Q:868:LEU:O	1.83	0.79
8:Q:603:ILE:O	8:Q:609:ARG:NH1	2.15	0.79
1:A:22:HIS:HB2	1:A:41:LYS:HA	1.64	0.79
4:D:1074:LEU:HD21	4:D:1106:ARG:HE	1.45	0.79
6:F:515:TRP:O	6:F:522:SER:HA	1.81	0.79
9:I:1081:LYS:O	9:I:1087:LYS:NZ	2.16	0.79
3:L:106:ARG:NH2	3:L:149:ASN:OD1	2.16	0.79
6:O:693:GLU:HA	6:O:696:ASN:HD22	1.47	0.79
8:Q:869:ALA:HB1	8:Q:895:LEU:CD2	1.81	0.79
3:L:247:ILE:HB	3:L:272:ALA:HB3	1.63	0.79
7:P:88:GLU:HB2	7:P:93:TRP:CE2	2.16	0.79
5:E:104:ILE:HB	5:E:120:ILE:HB	1.65	0.79
8:Q:359:ARG:HH22	12:U:32:ASN:N	1.80	0.79
10:S:493:LYS:HG3	10:S:497:GLN:HE22	1.48	0.79
12:U:104:ASN:O	12:U:108:ASN:ND2	2.16	0.79
4:M:449:ALA:HB3	4:M:456:PRO:HA	1.64	0.79
6:O:328:GLU:OE2	6:O:636:HIS:ND1	2.14	0.79
2:B:43:ASN:ND2	2:B:76:GLY:O	2.16	0.79
6:F:356:ALA:HB1	6:F:360:ARG:HH12	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:12:HIS:ND1	7:G:14:ASP:O	2.14	0.79
6:O:796:GLU:HA	6:O:800:LYS:HG2	1.62	0.79
12:U:357:ILE:HA	12:U:362:ARG:HH22	1.47	0.79
4:D:689:ASP:HB2	4:D:874:PRO:HB2	1.63	0.79
8:H:355:ARG:HH21	8:H:359:ARG:HE	1.30	0.79
1:A:58:ARG:HB2	1:A:61:GLU:HG3	1.65	0.78
6:F:563:GLN:HE22	6:F:568:PRO:HA	1.48	0.78
9:I:1067:TRP:HZ3	9:I:1127:SER:HB2	1.47	0.78
1:J:631:GLU:HG3	1:J:634:ARG:HH21	1.46	0.78
9:R:559:PRO:HD2	9:R:677:ARG:HE	1.48	0.78
6:F:379:THR:OG1	6:F:633:LEU:CD1	2.31	0.78
11:T:68:TYR:OH	11:T:115:LYS:NZ	2.15	0.78
8:Q:416:ARG:HH22	8:Q:432:VAL:HB	1.49	0.78
8:Q:852:LEU:HD21	8:Q:868:LEU:CD1	2.11	0.78
4:D:1087:HIS:HA	4:D:1092:ASN:HD21	1.46	0.78
10:S:255:LYS:HA	10:S:321:LYS:HZ3	1.46	0.78
3:C:12:LYS:NZ	3:C:33:ASP:OD1	2.15	0.78
6:F:793:GLN:OE1	8:Q:492:LYS:NZ	2.16	0.78
3:L:25:ARG:HB3	3:L:26:ARG:HH21	1.49	0.78
8:Q:875:GLU:HB3	8:Q:880:TYR:CD2	2.19	0.78
9:R:344:ILE:HB	9:R:363:VAL:HB	1.64	0.78
12:U:763:ARG:NH1	12:U:767:SER:OG	2.16	0.78
6:F:613:TYR:O	12:U:183:MET:HE3	1.82	0.78
8:H:628:LYS:HE3	8:H:675:GLN:HE21	1.48	0.78
8:Q:283:TYR:O	8:Q:336:ARG:NH1	2.17	0.78
7:G:233:CYS:HB2	7:G:264:VAL:HG12	1.64	0.78
9:I:946:ARG:HB2	9:I:1008:PRO:HB3	1.64	0.78
4:M:1195:LEU:HA	4:M:1198:HIS:CE1	2.19	0.78
6:F:607:LEU:HD22	6:F:618:LEU:HD11	1.64	0.78
7:G:77:CYS:HB2	7:G:106:VAL:HG23	1.66	0.78
4:M:1102:GLU:OE2	4:M:1106:ARG:NH1	2.17	0.78
4:D:1070:ARG:HD2	4:D:1149:VAL:HG11	1.66	0.78
6:O:839:VAL:HG12	6:O:853:GLN:HE22	1.48	0.78
2:B:222:ARG:HD2	2:B:227:GLN:HB2	1.65	0.77
8:Q:690:PHE:HD1	8:Q:695:LYS:HE2	1.47	0.77
6:F:686:VAL:HG23	7:G:167:LEU:HD22	1.65	0.77
1:A:479:ARG:NH2	3:C:90:VAL:O	2.17	0.77
5:E:153:ASP:HB3	5:E:159:ILE:HD11	1.66	0.77
6:O:563:GLN:HE22	6:O:568:PRO:HA	1.48	0.77
9:R:500:ILE:H	9:R:503:ASP:HB3	1.49	0.77
1:A:19:GLN:NE2	3:C:4:ALA:O	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3:ASP:OD2	2:B:372:ARG:N	2.15	0.77
8:H:266:GLU:OE2	8:H:441:TRP:NE1	2.17	0.77
9:I:761:SER:OG	9:I:765:ARG:NH1	2.17	0.77
8:Q:147:TYR:HE1	8:Q:539:ARG:HG3	1.49	0.77
12:U:207:ASP:OD1	12:U:208:LEU:N	2.17	0.77
2:B:179:ARG:NH1	2:B:180:THR:OG1	2.17	0.77
7:G:197:GLU:O	7:G:202:LYS:NZ	2.16	0.77
9:I:642:HIS:HA	9:I:645:LYS:HG2	1.67	0.77
1:J:432:TYR:O	1:J:436:HIS:ND1	2.16	0.77
6:O:328:GLU:OE2	6:O:355:TYR:OH	2.03	0.77
4:D:1135:ARG:HD3	4:D:1137:GLU:H	1.49	0.77
8:H:283:TYR:O	8:H:336:ARG:NH1	2.17	0.77
8:Q:355:ARG:HH21	8:Q:359:ARG:HE	1.30	0.77
12:U:499:GLU:O	12:U:501:LYS:NZ	2.17	0.77
12:U:730:GLU:OE1	12:U:731:ARG:NH1	2.18	0.77
3:C:145:PRO:HD2	3:C:152:GLN:HE21	1.50	0.77
8:H:736:ARG:HG2	8:H:822:ASP:HA	1.66	0.77
8:Q:266:GLU:OE2	8:Q:441:TRP:NE1	2.17	0.77
10:S:991:SER:O	10:S:998:ASN:ND2	2.17	0.77
5:E:28:ASP:OD1	5:E:85:ARG:NH2	2.18	0.77
6:F:910:ARG:O	6:F:913:THR:OG1	2.03	0.77
3:L:305:TRP:HA	3:L:314:LYS:O	1.85	0.77
6:F:353:HIS:HE1	6:F:389:GLN:O	1.66	0.76
8:Q:808:ILE:O	8:Q:812:LEU:HB2	1.85	0.76
12:U:125:ALA:O	12:U:129:HIS:ND1	2.16	0.76
6:F:607:LEU:HD13	6:F:615:LEU:HD22	1.60	0.76
7:G:133:THR:O	7:G:140:TRP:HA	1.84	0.76
7:G:183:VAL:HG12	7:G:193:ILE:HD12	1.67	0.76
1:J:501:SER:HA	1:J:504:PHE:HD2	1.50	0.76
2:K:268:PRO:HG2	2:K:355:GLY:H	1.51	0.76
4:M:205:PRO:HG2	4:M:254:ILE:HD12	1.65	0.76
4:D:1231:CYS:SG	4:D:1232:GLN:NE2	2.58	0.76
6:F:607:LEU:HD13	6:F:615:LEU:HD23	1.64	0.76
1:J:634:ARG:HH12	4:M:1132:ARG:HG3	1.49	0.76
5:N:170:SER:HB2	5:N:184:ALA:HB3	1.67	0.76
2:B:8:LYS:HE2	2:B:65:ASP:HA	1.66	0.76
2:B:179:ARG:NH2	2:B:181:THR:OG1	2.19	0.76
2:B:239:LEU:HD23	2:B:254:LEU:HD12	1.68	0.76
6:F:387:TRP:CB	6:F:644:LEU:CD1	2.64	0.76
3:L:67:HIS:HB2	3:L:70:PHE:HD2	1.50	0.76
3:L:281:VAL:HA	3:L:297:GLY:HA2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:820:MET:O	10:S:899:TYR:OH	2.02	0.76
8:H:331:ARG:NH1	8:H:332:GLU:OE2	2.18	0.76
4:M:1225:ASP:HA	4:M:1228:ILE:HD12	1.67	0.76
6:O:263:HIS:O	6:O:271:ARG:NH2	2.19	0.76
6:O:385:SER:O	6:O:409:ARG:NH1	2.18	0.76
6:O:681:ILE:O	6:O:687:ARG:NH1	2.18	0.76
8:Q:331:ARG:NH1	8:Q:332:GLU:OE2	2.18	0.76
2:B:11:SER:HA	2:B:365:GLU:HG3	1.67	0.76
2:B:21:PRO:HD3	2:B:83:PHE:HD2	1.51	0.76
1:J:22:HIS:ND1	1:J:37:THR:OG1	2.19	0.76
6:F:324:PRO:HB3	6:F:355:TYR:HE1	1.51	0.76
7:P:180:LYS:O	7:P:195:ARG:NH1	2.18	0.76
2:B:96:GLY:O	2:B:128:ARG:NH2	2.18	0.76
6:F:399:GLU:HB2	6:F:404:VAL:HG11	1.68	0.76
4:D:800:LEU:HD21	4:D:968:LEU:HD21	1.68	0.75
8:H:416:ARG:HH22	8:H:432:VAL:HB	1.48	0.75
8:H:534:LEU:HB2	8:H:537:LEU:HD13	1.68	0.75
4:M:914:ALA:HB2	4:M:929:CYS:HB2	1.66	0.75
6:O:288:LEU:HD12	6:O:298:THR:HG22	1.67	0.75
6:O:399:GLU:HB2	6:O:404:VAL:HG11	1.69	0.75
6:O:438:ILE:HG21	6:O:501:GLU:HG2	1.68	0.75
11:T:22:ALA:HB1	11:T:53:GLN:HG2	1.67	0.75
11:T:837:MET:H	11:T:840:GLN:HE21	1.34	0.75
8:H:244:ILE:O	8:H:248:LEU:HG	1.87	0.75
9:R:193:THR:HA	9:R:233:GLN:HG2	1.66	0.75
12:U:284:LEU:HD22	12:U:287:VAL:HB	1.69	0.75
9:I:746:GLU:H	9:I:807:ILE:HA	1.50	0.75
4:M:525:GLN:OE1	9:R:61:VAL:HA	1.87	0.75
11:T:861:LEU:HD22	11:T:866:PRO:HG3	1.68	0.75
6:F:331:ASN:OD1	6:F:347:PRO:HA	1.87	0.75
6:F:342:HIS:NE2	6:F:682:GLN:OE1	2.19	0.75
6:F:387:TRP:HB3	6:F:644:LEU:HD11	1.67	0.75
6:F:795:TRP:CZ3	6:F:799:GLY:HA3	2.22	0.75
6:F:886:VAL:O	6:F:889:ARG:NH1	2.20	0.75
3:L:304:LEU:O	3:L:316:ILE:N	2.19	0.75
5:N:256:MET:H	5:N:270:THR:HG22	1.52	0.75
10:S:1750:LEU:O	10:S:1754:GLN:NE2	2.19	0.75
4:M:1092:ASN:HB3	4:M:1095:LYS:HB2	1.69	0.75
9:R:612:THR:HG21	9:R:744:GLU:HG3	1.67	0.75
3:C:306:LYS:HB2	3:C:316:ILE:HD13	1.68	0.75
4:D:1083:LEU:O	4:D:1087:HIS:ND1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:604:THR:O	8:H:609:ARG:NH2	2.20	0.75
8:H:896:ARG:HG2	9:I:922:LEU:HD22	1.67	0.75
6:O:734:ARG:NH2	7:P:68:PRO:O	2.18	0.75
7:P:84:ILE:HA	7:P:95:LYS:NZ	2.02	0.75
4:D:996:GLN:HB3	4:D:1000:ARG:HH12	1.50	0.75
6:F:594:ILE:HG13	6:F:595:SER:H	1.52	0.75
7:G:81:ARG:HB3	7:G:102:HIS:HB2	1.69	0.75
4:M:355:LEU:HB3	4:M:374:LEU:HD12	1.68	0.75
8:Q:244:ILE:O	8:Q:248:LEU:HG	1.87	0.75
9:R:582:ILE:HG22	9:R:586:GLN:HE22	1.52	0.75
10:S:1342:ALA:O	10:S:1346:GLN:NE2	2.18	0.75
5:E:219:ARG:HB2	5:E:264:GLU:HB3	1.68	0.75
1:J:453:ARG:O	1:J:457:GLN:NE2	2.19	0.75
3:L:120:LYS:NZ	3:L:121:PHE:O	2.19	0.75
3:L:138:VAL:O	3:L:140:ARG:NH1	2.20	0.75
4:M:452:ASP:OD2	4:M:525:GLN:NE2	2.19	0.75
6:O:515:TRP:HB3	6:O:523:ILE:HB	1.68	0.75
6:O:607:LEU:O	6:O:611:ARG:NH1	2.19	0.75
8:Q:404:ARG:NH1	8:Q:468:GLU:O	2.20	0.75
4:M:1385:TYR:HA	4:M:1388:ILE:HD12	1.68	0.74
8:Q:867:ARG:O	8:Q:871:ILE:HG22	1.87	0.74
2:B:41:GLU:H	2:B:44:LYS:HZ1	1.34	0.74
2:B:49:ALA:O	2:B:66:PRO:HA	1.87	0.74
6:F:438:ILE:HG21	6:F:501:GLU:HG2	1.68	0.74
3:L:26:ARG:NH2	3:L:41:LYS:O	2.19	0.74
4:M:154:LEU:HD13	4:M:229:PHE:HE1	1.50	0.74
8:Q:365:ARG:NH1	8:Q:415:GLU:OE2	2.20	0.74
10:S:1372:GLY:HA3	10:S:1457:VAL:H	1.52	0.74
4:D:1141:ILE:O	4:D:1176:ILE:HA	1.87	0.74
6:O:594:ILE:HG13	6:O:595:SER:H	1.52	0.74
10:S:462:CYS:HG	10:S:496:ARG:HH22	1.35	0.74
10:S:1505:VAL:O	10:S:1507:ARG:NH1	2.20	0.74
2:B:73:LYS:HE3	6:O:281:ASP:HA	1.69	0.74
6:F:634:SER:HB3	6:F:638:TRP:CZ3	2.23	0.74
8:H:903:LEU:O	9:I:895:ARG:NH1	2.19	0.74
2:K:86:LYS:O	2:K:103:HIS:NE2	2.19	0.74
5:N:128:ASN:H	5:N:144:GLY:HA2	1.53	0.74
8:Q:809:TYR:O	8:Q:813:LEU:N	2.21	0.74
11:T:505:GLY:HA2	11:T:508:LEU:HB2	1.68	0.74
1:A:498:THR:HG22	1:A:532:ARG:H	1.52	0.74
3:C:247:ILE:HB	3:C:272:ALA:HB3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:753:ASN:OD1	6:F:757:LYS:NZ	2.17	0.74
8:H:404:ARG:NH1	8:H:468:GLU:O	2.20	0.74
8:H:820:MET:O	8:H:841:ARG:NH1	2.20	0.74
6:O:560:PHE:O	6:O:592:LYS:NZ	2.20	0.74
2:B:13:LYS:O	2:B:40:ASN:ND2	2.21	0.74
1:J:104:ASN:ND2	2:K:323:CYS:SG	2.60	0.74
1:A:567:ALA:HB3	1:A:572:TRP:HE1	1.51	0.74
6:F:265:GLY:HA2	7:G:304:LYS:HA	1.69	0.74
6:F:560:PHE:O	6:F:592:LYS:NZ	2.20	0.74
8:H:763:GLN:HE21	8:H:790:PHE:HA	1.50	0.74
6:O:331:ASN:O	6:O:346:ASN:N	2.20	0.74
8:Q:801:THR:HG22	8:Q:805:LYS:HE3	1.69	0.74
1:A:444:THR:HG21	1:A:447:LYS:HE2	1.70	0.74
2:B:274:LEU:HB2	2:B:286:TRP:HB3	1.70	0.74
4:D:1137:GLU:O	6:F:850:ARG:NH1	2.20	0.74
6:F:600:VAL:HG23	6:F:623:SER:CB	2.17	0.74
8:H:167:GLU:OE1	8:H:168:GLN:NE2	2.21	0.74
9:I:576:PHE:CE1	11:T:642:GLU:N	2.55	0.74
6:O:410:ARG:NE	6:O:549:VAL:HG22	2.02	0.74
10:S:929:LYS:H	10:S:929:LYS:HD2	1.52	0.74
8:H:591:LEU:O	8:H:595:GLN:NE2	2.20	0.74
6:O:842:ILE:HG22	6:O:843:GLN:H	1.50	0.74
7:P:72:ASN:HB2	7:P:88:GLU:HB3	1.70	0.74
8:Q:690:PHE:CD1	8:Q:695:LYS:HE2	2.23	0.74
11:T:836:VAL:HB	11:T:840:GLN:NE2	2.02	0.74
1:J:73:ASN:HA	1:J:76:HIS:CE1	2.23	0.74
9:R:808:ASP:OD1	9:R:815:ARG:NH2	2.19	0.74
1:A:41:LYS:NZ	1:A:44:ASN:OD1	2.20	0.73
1:A:445:GLU:O	2:B:25:SER:OG	2.06	0.73
3:C:56:HIS:ND1	3:C:80:ASP:OD2	2.17	0.73
3:C:304:LEU:O	3:C:316:ILE:N	2.21	0.73
6:F:380:TRP:CG	6:F:633:LEU:CD1	2.71	0.73
8:H:365:ARG:NH1	8:H:415:GLU:OE2	2.20	0.73
10:S:730:GLU:O	10:S:734:GLN:NE2	2.21	0.73
1:A:310:LEU:HD11	1:A:317:VAL:HG12	1.70	0.73
3:C:86:TRP:HA	3:C:104:VAL:O	1.88	0.73
4:M:1395:LEU:HB3	4:M:1408:LEU:HD21	1.70	0.73
2:B:135:VAL:HB	2:B:142:VAL:HB	1.69	0.73
6:F:634:SER:HB3	6:F:638:TRP:HZ3	1.53	0.73
8:H:436:TRP:HB3	8:H:498:GLU:CD	2.08	0.73
10:S:1062:GLN:O	10:S:1066:GLN:NE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1478:GLU:OE1	10:S:1520:TYR:OH	2.06	0.73
7:G:195:ARG:CZ	7:G:202:LYS:HB2	2.17	0.73
8:H:736:ARG:HH12	8:H:816:ASP:HB2	1.52	0.73
9:I:876:PHE:HB3	9:I:879:GLN:HB2	1.70	0.73
1:J:97:GLN:HA	2:K:320:SER:HB3	1.69	0.73
1:J:299:MET:CE	1:J:305:PHE:HB2	2.18	0.73
7:P:77:CYS:HB2	7:P:106:VAL:HG13	1.71	0.73
7:P:235:GLN:HB2	7:P:263:VAL:HG22	1.71	0.73
8:Q:533:LEU:HA	8:Q:537:LEU:HD22	1.69	0.73
2:B:84:LEU:HD11	2:B:139:PRO:HA	1.70	0.73
4:D:1340:TYR:HE2	4:D:1352:LEU:HD11	1.52	0.73
7:G:85:ILE:HB	7:G:97:TYR:O	1.88	0.73
8:Q:134:GLN:NE2	12:U:163:GLU:HB2	2.01	0.73
2:B:150:ILE:HB	2:B:164:ILE:HB	1.69	0.73
6:F:410:ARG:NE	6:F:549:VAL:HG22	2.02	0.73
6:F:553:LEU:HD11	6:F:605:LEU:CB	2.18	0.73
9:I:467:GLU:OE1	9:I:474:GLU:OE2	2.06	0.73
4:M:1337:LEU:HA	4:M:1340:TYR:CD2	2.23	0.73
7:P:62:GLN:HE22	7:P:64:ALA:HB2	1.53	0.73
1:A:514:PHE:HZ	1:A:539:TYR:HD2	1.36	0.73
7:G:267:VAL:HG12	7:G:278:VAL:HG22	1.70	0.73
4:M:1250:ILE:HD13	4:M:1316:HIS:HD1	1.52	0.73
10:S:1131:SER:HB3	10:S:1135:ARG:HH12	1.54	0.73
12:U:46:LYS:O	12:U:49:THR:OG1	2.05	0.73
8:H:634:THR:O	8:H:637:LYS:NZ	2.20	0.73
6:O:701:VAL:H	6:O:732:ARG:HE	1.36	0.73
1:A:631:GLU:HG3	1:A:634:ARG:NH1	2.04	0.73
3:C:287:ASN:HB3	3:C:292:VAL:HB	1.71	0.73
4:D:66:LEU:HD23	4:D:132:ILE:HG12	1.69	0.73
9:I:167:LEU:HB2	9:I:179:TRP:HB2	1.71	0.73
1:J:486:SER:HB3	1:J:490:ARG:HH12	1.51	0.73
6:O:568:PRO:O	6:O:587:ASP:N	2.22	0.73
6:O:692:ARG:O	6:O:696:ASN:ND2	2.22	0.73
8:Q:265:LEU:HA	8:Q:268:ILE:HD12	1.71	0.73
10:S:511:LEU:HB3	10:S:515:ARG:HH22	1.52	0.73
10:S:884:ASN:ND2	10:S:889:LYS:O	2.21	0.73
10:S:1104:ILE:HG22	10:S:1108:ASN:HD21	1.53	0.73
4:D:725:ARG:NH2	4:D:729:CYS:SG	2.62	0.73
6:F:572:TYR:OH	6:F:598:ARG:NH1	2.16	0.73
8:H:131:VAL:HG13	10:S:1507:ARG:HG2	1.70	0.73
9:I:632:LYS:HE2	9:I:679:VAL:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:841:ARG:O	8:Q:845:LEU:CD2	2.35	0.73
6:F:335:ASP:O	6:F:342:HIS:N	2.22	0.72
6:F:515:TRP:HB3	6:F:523:ILE:HB	1.69	0.72
2:K:74:HIS:HD2	2:K:78:VAL:HG22	1.52	0.72
8:Q:452:VAL:O	8:Q:456:ILE:HG12	1.89	0.72
10:S:1477:MET:HA	10:S:1480:VAL:HG22	1.70	0.72
3:C:55:THR:HG23	3:C:86:TRP:HE1	1.52	0.72
6:F:575:PRO:CG	6:F:597:GLN:CD	2.57	0.72
9:I:544:ASP:HB3	9:I:622:THR:HG21	1.71	0.72
1:J:93:SER:O	1:J:97:GLN:NE2	2.22	0.72
1:J:369:TRP:NE1	1:J:403:ASP:OD2	2.22	0.72
4:M:281:PRO:O	4:M:304:GLN:NE2	2.21	0.72
3:C:242:THR:OG1	3:C:246:ARG:NH1	2.23	0.72
8:H:265:LEU:HA	8:H:268:ILE:HD12	1.71	0.72
7:P:83:VAL:HG12	7:P:85:ILE:HD11	1.70	0.72
9:R:437:GLN:OE1	9:R:456:ARG:NH1	2.22	0.72
10:S:1142:ASP:O	10:S:1179:LYS:NZ	2.18	0.72
12:U:425:GLU:OE1	12:U:435:ARG:NH1	2.21	0.72
3:C:85:VAL:O	3:C:105:LYS:HA	1.88	0.72
3:C:307:ALA:HA	3:C:312:ASN:O	1.89	0.72
5:E:104:ILE:O	5:E:120:ILE:N	2.17	0.72
9:I:74:ASN:ND2	9:I:466:ARG:CG	2.53	0.72
1:J:235:LEU:HA	1:J:238:MET:HE3	1.70	0.72
10:S:554:HIS:HA	10:S:557:HIS:CD2	2.25	0.72
10:S:1349:ARG:NH2	10:S:1429:GLN:O	2.22	0.72
6:F:568:PRO:O	6:F:587:ASP:N	2.22	0.72
8:H:210:THR:OG1	8:H:507:GLN:NE2	2.20	0.72
12:U:311:ASP:HB2	12:U:320:TRP:HE1	1.54	0.72
1:A:51:CYS:SG	3:C:5:ARG:NE	2.62	0.72
1:A:55:TYR:HE1	3:C:4:ALA:HA	1.55	0.72
7:G:192:LYS:HD3	7:G:193:ILE:N	2.05	0.72
8:H:164:GLU:OE2	8:H:168:GLN:NE2	2.23	0.72
8:H:856:LEU:HD12	8:H:861:GLN:HB2	1.69	0.72
1:A:55:TYR:CE1	3:C:4:ALA:HA	2.24	0.72
1:A:113:MET:O	1:A:117:HIS:ND1	2.22	0.72
3:C:34:GLN:HG3	3:C:54:LYS:HD2	1.71	0.72
5:N:232:TRP:HD1	5:N:249:ALA:HA	1.54	0.72
7:P:109:VAL:HB	7:P:120:LEU:HD21	1.71	0.72
7:P:192:LYS:HG2	7:P:206:LYS:HA	1.70	0.72
4:D:1131:LEU:HD13	4:D:1134:ILE:HD12	1.70	0.72
4:M:781:LEU:HA	4:M:818:THR:HA	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:603:ILE:HG22	8:Q:609:ARG:HG2	1.70	0.72
10:S:1928:THR:HB	10:S:1933:ARG:HH22	1.54	0.72
6:F:293:SER:OG	6:F:295:LYS:NZ	2.22	0.72
4:M:75:GLY:O	4:M:213:ASN:ND2	2.23	0.72
6:O:567:GLU:HB3	6:O:587:ASP:HA	1.70	0.72
6:F:613:TYR:HA	12:U:187:ARG:CZ	2.20	0.72
3:L:140:ARG:HG3	3:L:158:GLU:HG2	1.72	0.72
3:L:168:ILE:HG22	3:L:184:VAL:HG12	1.70	0.72
10:S:1114:MET:HB2	10:S:1287:LEU:HD22	1.72	0.72
1:A:486:SER:HG	1:A:487:TRP:HD1	1.36	0.71
2:B:100:ILE:HD13	2:B:114:GLN:OE1	1.90	0.71
2:B:301:GLY:HA3	2:B:340:LEU:HG	1.71	0.71
6:F:567:GLU:HB3	6:F:587:ASP:HA	1.70	0.71
7:G:79:TYR:O	7:G:81:ARG:NH1	2.23	0.71
1:J:50:ARG:NH1	1:J:51:CYS:SG	2.62	0.71
4:M:700:ASN:HB3	4:M:848:VAL:HG11	1.71	0.71
7:P:31:CYS:HB2	7:P:60:VAL:HG11	1.71	0.71
9:R:562:ASP:H	9:R:565:TRP:HD1	1.38	0.71
10:S:1306:GLN:OE1	10:S:1347:SER:OG	2.08	0.71
2:B:57:SER:O	2:B:371:ARG:NH2	2.23	0.71
4:D:432:ALA:HB3	11:T:111:ILE:HA	1.70	0.71
5:E:4:ASP:H	5:E:293:ILE:HG13	1.54	0.71
7:P:213:TRP:O	7:P:215:ARG:NH1	2.22	0.71
8:Q:547:PHE:HA	8:Q:550:THR:HG22	1.69	0.71
10:S:1753:GLN:NE2	10:S:1888:LEU:O	2.20	0.71
12:U:92:PRO:HA	12:U:93:VAL:HB	1.71	0.71
8:H:338:LEU:O	8:H:342:PHE:HB3	1.90	0.71
2:B:267:HIS:HE1	2:B:269:SER:HB3	1.53	0.71
5:N:25:ASN:OD1	5:N:306:ARG:NH2	2.20	0.71
7:P:265:TRP:N	7:P:279:SER:O	2.20	0.71
12:U:650:VAL:HB	12:U:661:ARG:HG3	1.72	0.71
1:A:390:LEU:O	1:A:394:ALA:HB3	1.90	0.71
9:I:753:SER:O	9:I:760:ARG:NH2	2.22	0.71
4:M:481:ILE:HG22	4:M:482:LEU:HD12	1.73	0.71
8:Q:338:LEU:O	8:Q:342:PHE:HB3	1.90	0.71
11:T:929:THR:O	11:T:933:GLN:NE2	2.22	0.71
6:F:376:TRP:C	6:F:633:LEU:HD13	2.10	0.71
8:H:435:SER:HA	8:H:494:ARG:HG3	1.72	0.71
3:L:248:PHE:HE1	3:L:270:THR:HG23	1.54	0.71
6:F:259:TRP:NE1	6:F:666:GLU:HG3	2.06	0.71
8:H:436:TRP:HB2	8:H:495:VAL:HG13	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:782:ARG:O	9:I:786:ILE:HD12	1.91	0.71
4:M:918:LEU:O	5:N:253:ARG:NH1	2.24	0.71
4:M:970:GLU:O	5:N:275:LYS:NZ	2.23	0.71
4:M:1094:ARG:NH2	4:M:1140:TRP:O	2.19	0.71
5:E:30:GLY:HA3	5:E:86:CYS:H	1.55	0.71
8:H:375:TYR:HB2	8:H:395:ARG:HH22	1.55	0.71
4:M:331:SER:O	4:M:335:ARG:NH1	2.24	0.71
8:Q:217:LEU:HD13	8:Q:510:VAL:HG12	1.71	0.71
8:Q:889:ARG:O	8:Q:893:GLN:NE2	2.22	0.71
10:S:933:ASP:O	10:S:936:GLN:NE2	2.22	0.71
11:T:664:TYR:HE1	11:T:757:LEU:HB3	1.56	0.71
12:U:723:LEU:HD13	12:U:789:GLN:HB2	1.71	0.71
4:D:1128:LEU:HA	4:D:1131:LEU:HD23	1.72	0.71
7:G:192:LYS:HD3	7:G:193:ILE:H	1.56	0.71
1:A:487:TRP:HH2	2:B:25:SER:H	1.39	0.71
2:B:21:PRO:HD3	2:B:83:PHE:CD2	2.25	0.71
2:B:223:HIS:HE2	2:B:231:ALA:HB2	1.56	0.71
9:I:941:ALA:O	9:I:951:LYS:NZ	2.23	0.71
10:S:1587:TYR:HA	10:S:1615:TYR:HE1	1.55	0.71
2:B:178:LEU:HD21	2:B:245:ARG:HA	1.73	0.70
3:C:106:ARG:HE	3:C:151:SER:HB3	1.54	0.70
4:D:922:GLU:HB2	4:D:925:LYS:HE2	1.72	0.70
2:K:90:VAL:HG22	2:K:100:ILE:HG12	1.73	0.70
12:U:610:ILE:HG23	12:U:629:LEU:HG	1.73	0.70
8:H:770:GLN:HB3	8:H:775:GLU:HB2	1.73	0.70
6:O:320:SER:OG	6:O:632:ARG:NH1	2.24	0.70
10:S:493:LYS:O	10:S:497:GLN:NE2	2.23	0.70
6:F:379:THR:OG1	6:F:633:LEU:HD13	1.92	0.70
3:L:60:VAL:HA	3:L:78:SER:HB2	1.72	0.70
1:A:152:ILE:HD11	1:A:378:LEU:HD21	1.72	0.70
4:D:123:LEU:HB2	4:D:126:ASN:HD22	1.55	0.70
4:D:844:GLY:O	4:D:850:ARG:NH1	2.25	0.70
1:J:389:ASN:OD1	1:J:395:ASN:ND2	2.25	0.70
2:K:85:ASP:OD1	2:K:88:ARG:N	2.24	0.70
7:P:133:THR:HB	7:P:141:GLU:HB2	1.73	0.70
8:Q:217:LEU:HD11	8:Q:511:ILE:HA	1.74	0.70
2:B:114:GLN:HG2	2:B:158:ARG:HG2	1.74	0.70
6:F:575:PRO:HG3	6:F:597:GLN:NE2	2.06	0.70
7:G:192:LYS:HD2	7:G:194:TRP:CE2	2.26	0.70
8:Q:301:MET:HE3	12:U:111:LEU:HD22	1.73	0.70
8:Q:375:TYR:HB2	8:Q:395:ARG:HH22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1460:LYS:HA	10:S:1463:ARG:HD2	1.74	0.70
5:E:44:VAL:HG13	5:E:71:HIS:CD2	2.26	0.70
9:I:827:ARG:HH22	5:N:2:LYS:HD3	1.57	0.70
1:J:626:ASP:HA	1:J:629:LYS:HE2	1.73	0.70
7:P:58:GLY:HA3	7:P:79:TYR:HB3	1.71	0.70
9:R:883:ASP:HB3	9:R:887:ARG:NH1	2.07	0.70
1:A:369:TRP:HB2	1:A:400:LEU:HD22	1.72	0.70
4:D:808:GLU:H	4:D:830:LYS:HD2	1.57	0.70
5:E:153:ASP:OD1	5:E:157:LYS:N	2.18	0.70
7:G:127:GLY:HA2	7:G:149:HIS:HB2	1.72	0.70
1:J:377:ASP:O	1:J:381:HIS:ND1	2.25	0.70
5:N:234:ILE:HB	5:N:245:ASP:HB3	1.73	0.70
9:R:207:LYS:HE2	9:R:290:ASP:HA	1.74	0.70
10:S:1776:GLN:HA	10:S:1931:ASN:H	1.57	0.70
12:U:552:PHE:HB3	12:U:567:PHE:HE1	1.54	0.70
1:A:514:PHE:CD2	1:A:540:ARG:HD2	2.27	0.70
8:H:436:TRP:N	8:H:495:VAL:HG22	2.07	0.70
7:P:87:LYS:O	7:P:94:GLU:N	2.25	0.70
8:Q:170:GLU:HB3	8:Q:212:ARG:HH12	1.56	0.70
2:B:89:ILE:O	2:B:100:ILE:HA	1.92	0.70
3:C:277:HIS:HA	3:C:303:ARG:HE	1.56	0.70
1:J:446:LYS:HA	1:J:449:LEU:HD12	1.74	0.70
4:M:951:GLU:HB3	4:M:957:PRO:HB3	1.74	0.70
10:S:974:THR:O	10:S:977:ARG:NH1	2.24	0.70
6:F:465:LEU:HA	6:F:468:LEU:HD12	1.74	0.70
1:J:94:ARG:NH1	1:J:383:GLN:OE1	2.25	0.70
6:O:638:TRP:O	6:O:642:GLN:HG2	1.92	0.70
8:Q:630:VAL:HG12	8:Q:665:VAL:HG23	1.72	0.70
10:S:443:ILE:HD13	10:S:446:LEU:HD12	1.74	0.70
3:C:36:VAL:O	3:C:52:SER:HA	1.91	0.69
4:D:150:ASN:OD1	4:D:171:ARG:NH2	2.24	0.69
9:I:440:ASN:HB3	9:I:456:ARG:HE	1.57	0.69
10:S:521:PRO:O	10:S:525:HIS:ND1	2.19	0.69
10:S:850:LEU:O	10:S:853:THR:OG1	2.10	0.69
1:J:401:LEU:HD22	1:J:421:TYR:HB3	1.74	0.69
2:K:132:THR:H	2:K:145:GLY:HA2	1.56	0.69
3:L:207:ARG:HD3	4:M:1253:GLN:HE22	1.56	0.69
4:M:356:TYR:CE1	4:M:373:GLN:HG2	2.27	0.69
6:O:478:VAL:HA	6:O:481:LEU:HD12	1.73	0.69
6:O:814:GLN:NE2	6:O:818:ASP:OD2	2.25	0.69
10:S:1804:PRO:HB2	10:S:1807:ARG:HB2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:GLU:O	1:A:268:GLN:NE2	2.24	0.69
6:F:376:TRP:O	6:F:633:LEU:HD12	1.87	0.69
1:J:438:GLU:OE2	1:J:463:GLN:NE2	2.21	0.69
4:M:1407:ILE:HA	4:M:1410:LYS:HD2	1.74	0.69
6:O:602:VAL:HG12	6:O:606:LYS:NZ	2.04	0.69
7:P:87:LYS:N	7:P:94:GLU:O	2.16	0.69
8:Q:162:VAL:HG11	8:Q:550:THR:HG21	1.74	0.69
8:Q:894:LYS:O	8:Q:897:GLU:HG2	1.93	0.69
9:R:72:ASN:O	9:R:468:THR:OG1	2.10	0.69
10:S:1866:SER:HB3	10:S:1869:GLN:HG2	1.74	0.69
8:H:519:MET:HG2	8:H:559:VAL:HG21	1.72	0.69
8:H:789:ASP:OD1	8:H:790:PHE:N	2.25	0.69
1:J:42:GLN:HG3	3:L:14:LEU:HD13	1.74	0.69
9:R:75:VAL:HG12	9:R:463:VAL:HG12	1.73	0.69
9:R:174:GLY:HA3	9:R:195:PHE:HB2	1.73	0.69
10:S:390:HIS:HD2	10:S:391:LYS:HD3	1.57	0.69
12:U:25:GLU:HG3	12:U:32:ASN:HA	1.75	0.69
2:B:150:ILE:O	2:B:163:THR:HA	1.92	0.69
9:I:1016:ILE:HG13	9:I:1038:LEU:HD23	1.73	0.69
9:I:1110:LEU:O	9:I:1116:ASN:ND2	2.24	0.69
4:M:423:LYS:HG2	4:M:435:TRP:HB3	1.72	0.69
4:M:794:LEU:HA	4:M:797:LEU:HD12	1.75	0.69
9:R:813:GLU:OE2	9:R:817:ASN:ND2	2.16	0.69
4:D:1404:ASN:HA	4:D:1407:ILE:HD12	1.74	0.69
5:E:18:TYR:HD1	5:E:316:TYR:HA	1.57	0.69
7:G:195:ARG:NH1	7:G:202:LYS:HE2	2.07	0.69
5:N:41:ILE:HD13	5:N:74:ARG:HD3	1.74	0.69
5:N:250:HIS:HB3	5:N:252:ASP:H	1.57	0.69
6:O:257:PRO:HA	7:P:271:ILE:HD13	1.73	0.69
6:O:465:LEU:HA	6:O:468:LEU:HD12	1.74	0.69
6:O:471:GLN:NE2	8:Q:367:ALA:O	2.26	0.69
8:Q:276:PHE:HA	8:Q:279:ASN:HD22	1.58	0.69
4:D:59:ARG:HD2	4:D:125:ASN:H	1.58	0.69
4:D:910:HIS:HB2	4:D:933:ALA:HB2	1.75	0.69
7:G:289:LYS:HE3	7:G:299:ILE:HG21	1.75	0.69
2:K:218:HIS:HE1	2:K:235:GLN:HB2	1.55	0.69
4:M:79:TYR:OH	4:M:210:ARG:NH1	2.22	0.69
7:P:31:CYS:HA	7:P:37:VAL:HG22	1.74	0.69
10:S:511:LEU:HB3	10:S:515:ARG:NH2	2.08	0.69
1:A:5:ASP:HB3	3:C:314:LYS:HB2	1.73	0.69
1:A:595:THR:O	1:A:598:LEU:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:214:THR:OG1	3:C:216:MET:SD	2.51	0.69
5:E:41:ILE:HG23	5:E:74:ARG:HB3	1.75	0.69
6:F:379:THR:CB	6:F:633:LEU:HD21	2.22	0.69
6:F:734:ARG:CZ	6:F:735:ARG:HH12	2.05	0.69
7:G:65:TRP:CD2	7:G:74:LEU:HD21	2.27	0.69
7:G:155:ALA:O	7:G:184:SER:HB2	1.93	0.69
8:H:570:ARG:O	8:H:573:ASN:N	2.25	0.69
1:J:412:HIS:HE1	2:K:179:ARG:HB3	1.58	0.69
4:M:928:ASP:O	4:M:932:GLN:NE2	2.25	0.69
4:M:1087:HIS:HB3	4:M:1092:ASN:HB2	1.73	0.69
5:N:94:ARG:NH2	5:N:136:GLU:O	2.26	0.69
5:N:242:TYR:O	5:N:244:GLN:NE2	2.25	0.69
6:O:335:ASP:O	6:O:342:HIS:N	2.25	0.69
6:O:519:ASP:HB2	6:O:521:ARG:HG3	1.75	0.69
7:P:242:TRP:HA	7:P:253:THR:O	1.93	0.69
9:R:271:ASP:HB3	9:R:275:CYS:HB2	1.75	0.69
10:S:1180:ILE:HG13	10:S:1284:TRP:CZ2	2.28	0.69
11:T:143:GLN:HA	11:T:150:ARG:HH22	1.57	0.69
11:T:554:SER:HA	11:T:628:ASN:HD21	1.58	0.69
2:B:114:GLN:NE2	2:B:157:SER:O	2.26	0.69
1:J:494:ALA:HB3	10:S:1244:MET:HG3	1.75	0.69
9:R:111:LEU:HD23	9:R:118:ILE:HD11	1.73	0.69
9:R:240:GLN:H	9:R:299:ASN:HD22	1.41	0.69
10:S:288:THR:HB	10:S:291:ARG:HB2	1.75	0.69
3:C:20:PHE:CZ	3:C:24:GLY:HA2	2.27	0.69
6:F:478:VAL:HA	6:F:481:LEU:HD12	1.73	0.69
4:M:1322:ASN:HA	4:M:1325:ILE:HD12	1.75	0.69
7:P:179:ILE:HB	7:P:195:ARG:HH22	1.58	0.69
10:S:903:GLY:HA2	10:S:906:ASN:HB2	1.75	0.69
12:U:583:MET:O	12:U:598:ALA:N	2.26	0.69
1:A:514:PHE:HZ	1:A:539:TYR:CD2	2.12	0.68
2:B:45:VAL:HG11	2:B:101:PHE:HE2	1.58	0.68
3:C:202:TYR:HB2	3:C:209:TYR:HE1	1.58	0.68
4:D:1121:VAL:HG21	4:D:1193:LEU:HD22	1.74	0.68
6:F:614:ASP:O	6:F:616:CYS:N	2.26	0.68
10:S:1232:ARG:NH1	10:S:1233:VAL:HG23	2.08	0.68
12:U:376:TYR:HD1	12:U:380:VAL:HB	1.58	0.68
1:A:123:THR:HG1	1:A:130:TYR:HE2	1.41	0.68
1:J:600:ARG:HH21	4:M:1125:LEU:HD22	1.57	0.68
5:N:187:THR:HA	5:N:209:VAL:HG12	1.75	0.68
7:P:84:ILE:HG23	7:P:95:LYS:HZ2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:532:LYS:N	10:S:552:TRP:HZ3	1.91	0.68
3:C:149:ASN:O	3:C:152:GLN:NE2	2.27	0.68
6:F:323:LEU:HG	6:F:358:TRP:NE1	2.08	0.68
6:F:382:LEU:CD1	6:F:601:CYS:HG	2.06	0.68
7:G:35:ARG:HH22	7:G:57:ASP:HA	1.59	0.68
8:Q:248:LEU:HD13	8:Q:455:GLU:HG2	1.75	0.68
9:R:893:GLY:HA2	9:R:895:ARG:HH21	1.58	0.68
1:A:643:ARG:HH22	4:D:1088:ILE:HG22	1.59	0.68
3:L:106:ARG:NE	3:L:151:SER:OG	2.25	0.68
4:M:790:LEU:HD22	4:M:886:CYS:HB2	1.74	0.68
5:N:78:ILE:HG12	5:N:97:THR:HG22	1.76	0.68
7:P:218:ALA:C	7:P:269:TRP:HE1	1.97	0.68
9:R:341:GLY:HA3	9:R:367:ASP:H	1.57	0.68
9:R:944:GLU:OE2	9:R:946:ARG:N	2.25	0.68
10:S:511:LEU:HD23	10:S:514:LEU:HD12	1.74	0.68
10:S:1355:PRO:HB3	10:S:1360:GLY:HA3	1.76	0.68
10:S:1587:TYR:HB2	10:S:1651:HIS:CE1	2.27	0.68
11:T:951:LEU:O	11:T:955:HIS:ND1	2.26	0.68
2:B:187:ASN:HB2	2:B:191:GLN:HB3	1.75	0.68
9:I:895:ARG:HA	9:I:898:LEU:HB3	1.74	0.68
7:P:20:GLN:HB3	7:P:65:TRP:NE1	2.09	0.68
10:S:1113:LEU:O	10:S:1116:THR:OG1	2.08	0.68
1:A:69:ARG:HG3	1:A:70:LYS:H	1.59	0.68
2:B:290:ALA:HA	2:B:336:GLU:HG3	1.74	0.68
8:H:276:PHE:HA	8:H:279:ASN:HD22	1.58	0.68
9:I:363:VAL:HG22	9:I:378:VAL:HG22	1.74	0.68
3:L:205:ASN:O	3:L:207:ARG:NH1	2.24	0.68
4:M:94:LEU:H	4:M:849:HIS:HA	1.59	0.68
8:Q:355:ARG:NH1	12:U:30:GLU:O	2.26	0.68
10:S:908:GLU:HG2	10:S:909:LEU:N	2.08	0.68
10:S:1320:ILE:HD11	10:S:1329:LEU:HD13	1.73	0.68
6:F:379:THR:HB	6:F:633:LEU:HD21	1.74	0.68
6:F:383:CYS:HB2	6:F:637:MET:SD	2.29	0.68
7:G:235:GLN:HA	7:G:263:VAL:HG13	1.75	0.68
9:I:755:GLY:O	9:I:760:ARG:NH2	2.27	0.68
9:I:989:GLN:N	9:I:989:GLN:OE1	2.27	0.68
4:M:638:PRO:HG2	4:M:765:ALA:HB1	1.76	0.68
8:Q:841:ARG:C	8:Q:845:LEU:HD23	2.13	0.68
4:D:1242:PHE:HB3	4:D:1309:ILE:HD11	1.75	0.68
9:R:651:ASN:OD1	9:R:652:SER:N	2.27	0.68
10:S:1498:LEU:HD23	10:S:1501:ARG:HH22	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:359:VAL:HA	2:B:369:VAL:HG12	1.75	0.68
6:F:781:GLY:O	6:F:785:ARG:NH1	2.27	0.68
8:H:180:LEU:HD23	8:H:201:LEU:HD13	1.76	0.68
9:I:661:ARG:HD2	9:I:681:GLN:HG3	1.74	0.68
5:N:11:TYR:HB2	5:N:321:PHE:HB2	1.75	0.68
6:O:575:PRO:HD2	6:O:578:LEU:HD23	1.75	0.68
7:P:205:GLN:NE2	7:P:250:ASN:O	2.27	0.68
10:S:671:GLN:NE2	10:S:682:VAL:O	2.27	0.68
10:S:807:LEU:HB3	10:S:873:VAL:HG13	1.75	0.68
10:S:1719:ASN:HB3	10:S:1802:ILE:HA	1.76	0.68
12:U:693:LEU:O	12:U:697:ILE:HD12	1.94	0.68
2:B:195:TRP:HB3	2:B:200:GLN:HE22	1.59	0.68
6:F:612:GLN:HA	12:U:183:MET:HG2	0.69	0.68
8:H:727:LEU:O	8:H:824:ARG:NH1	2.27	0.68
4:M:792:SER:O	4:M:796:HIS:ND1	2.27	0.68
4:M:1316:HIS:HA	10:S:718:THR:HB	1.76	0.68
4:M:1351:GLU:HA	4:M:1354:LEU:HD12	1.76	0.68
6:O:722:ALA:HA	6:O:725:ILE:HD13	1.76	0.68
1:A:166:GLU:OE2	1:A:169:ARG:NH2	2.27	0.67
2:B:65:ASP:O	2:B:67:LYS:NZ	2.18	0.67
3:C:246:ARG:HB3	3:C:248:PHE:CE2	2.30	0.67
4:D:1143:GLN:HE21	4:D:1175:GLU:HB2	1.59	0.67
6:F:734:ARG:NH2	6:F:735:ARG:HH12	1.91	0.67
9:I:568:SER:HB3	11:T:572:PRO:HA	1.75	0.67
4:M:342:HIS:HD2	4:M:361:LEU:HA	1.57	0.67
4:M:1320:LEU:HD23	4:M:1325:ILE:HG13	1.76	0.67
8:Q:521:GLU:OE2	8:Q:525:TRP:NE1	2.27	0.67
1:A:106:ARG:NE	1:A:145:ASN:OD1	2.27	0.67
4:D:1312:LYS:HE3	4:D:1316:HIS:HE1	1.59	0.67
8:H:633:ASN:HA	8:H:636:LYS:HG2	1.75	0.67
8:H:788:MET:SD	2:K:63:GLN:NE2	2.66	0.67
1:J:10:GLU:HG2	1:J:57:VAL:HG22	1.76	0.67
7:P:67:HIS:HD2	7:P:69:MET:H	1.40	0.67
9:R:567:GLU:HG3	9:R:571:GLU:HG2	1.77	0.67
4:D:1077:HIS:HE1	4:D:1082:LEU:HB2	1.59	0.67
4:M:810:ARG:HH21	4:M:825:GLU:HB2	1.58	0.67
6:O:434:PRO:HA	6:O:437:HIS:HB3	1.76	0.67
6:O:731:VAL:HG13	6:O:734:ARG:HH21	1.59	0.67
7:P:100:THR:HA	7:P:102:HIS:CE1	2.29	0.67
7:P:215:ARG:NH2	7:P:235:GLN:OE1	2.27	0.67
7:P:244:SER:HB3	7:P:249:THR:HB	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:869:ALA:HB1	8:Q:895:LEU:CG	2.24	0.67
10:S:1526:ASP:HA	10:S:1580:ARG:HH12	1.59	0.67
12:U:746:LEU:HA	12:U:749:ILE:HD12	1.75	0.67
3:C:185:GLY:HA2	3:C:197:VAL:HG22	1.76	0.67
1:J:428:LEU:HB3	1:J:432:TYR:HE2	1.58	0.67
8:Q:541:MET:O	8:Q:544:LEU:HB3	1.94	0.67
1:A:594:GLN:HA	1:A:597:GLU:OE1	1.94	0.67
6:F:685:HIS:HB3	7:G:172:SER:HA	1.77	0.67
7:G:62:GLN:HG2	7:G:77:CYS:SG	2.35	0.67
9:I:488:ARG:HB3	9:I:530:SER:HA	1.76	0.67
2:K:179:ARG:NE	2:K:182:GLU:OE1	2.25	0.67
3:L:286:TRP:HB3	3:L:290:GLY:HA2	1.76	0.67
4:M:398:ILE:HB	4:M:412:LEU:HG	1.77	0.67
4:M:451:GLY:H	4:M:528:ILE:HD12	1.60	0.67
5:N:283:HIS:HA	5:N:290:PRO:HA	1.75	0.67
11:T:48:LEU:HD21	11:T:480:LEU:HD11	1.75	0.67
12:U:484:GLU:OE1	12:U:487:ARG:NH2	2.28	0.67
12:U:515:SER:O	12:U:526:ARG:N	2.23	0.67
1:A:21:ARG:NH2	1:A:44:ASN:O	2.27	0.67
2:B:238:MET:HG3	2:B:255:ASN:HA	1.77	0.67
4:D:810:ARG:NH2	4:D:885:ASN:OD1	2.27	0.67
6:F:575:PRO:HD2	6:F:578:LEU:HD23	1.75	0.67
8:H:292:THR:HG23	8:H:310:LEU:HD13	1.75	0.67
9:I:901:GLN:O	9:I:906:HIS:NE2	2.27	0.67
2:K:122:HIS:HB2	2:K:147:ASP:HB2	1.77	0.67
3:L:122:ALA:HB3	3:L:129:MET:H	1.59	0.67
4:M:425:ILE:HD13	4:M:435:TRP:H	1.60	0.67
6:O:485:GLN:HG3	6:O:489:TRP:NE1	2.10	0.67
6:O:771:GLU:HA	6:O:773:TYR:CE2	2.30	0.67
8:Q:292:THR:HG23	8:Q:310:LEU:HD13	1.75	0.67
8:Q:498:GLU:O	8:Q:504:HIS:ND1	2.19	0.67
9:R:223:LEU:HA	9:R:232:ASN:O	1.95	0.67
7:G:157:SER:O	7:G:182:PHE:HB2	1.94	0.67
8:H:673:PRO:HA	8:H:676:ARG:HH12	1.59	0.67
3:L:222:VAL:HA	3:L:242:THR:HG22	1.77	0.67
6:O:504:ARG:HD2	6:O:525:VAL:HA	1.76	0.67
9:R:494:ASP:HB3	9:R:511:ALA:HB1	1.77	0.67
10:S:862:ASP:OD1	10:S:865:ARG:NH1	2.28	0.67
10:S:1095:LEU:HD22	10:S:1110:MET:HG3	1.77	0.67
11:T:234:GLN:HB3	11:T:246:LEU:HD11	1.75	0.67
4:D:924:HIS:HD2	5:E:74:ARG:HH12	1.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:766:GLN:NE2	4:M:903:GLN:OE1	2.28	0.67
8:Q:433:CYS:HB3	8:Q:438:ASP:HB3	1.77	0.67
9:R:745:PRO:HG2	9:R:815:ARG:NH2	2.09	0.67
2:B:222:ARG:HB2	2:B:227:GLN:HA	1.76	0.67
2:K:179:ARG:NH2	2:K:181:THR:OG1	2.23	0.67
3:L:35:SER:HB2	3:L:54:LYS:HD3	1.77	0.67
4:M:1192:ARG:HG2	4:M:1206:ALA:HB1	1.75	0.67
2:K:22:VAL:HB	2:K:30:PRO:HA	1.77	0.67
3:L:121:PHE:HB3	3:L:128:LEU:HD11	1.76	0.67
6:O:335:ASP:N	6:O:342:HIS:O	2.28	0.67
1:A:411:HIS:HB3	1:A:414:LEU:HB3	1.75	0.66
3:C:141:ILE:HB	3:C:157:HIS:O	1.94	0.66
4:D:1093:TYR:CE1	4:D:1134:ILE:HA	2.30	0.66
6:F:356:ALA:HB1	6:F:360:ARG:NH1	2.11	0.66
2:K:331:THR:HG22	2:K:332:LYS:H	1.58	0.66
4:M:477:LYS:HB3	9:R:84:VAL:HB	1.76	0.66
10:S:738:ASP:HA	10:S:742:LEU:HD12	1.77	0.66
10:S:1356:MET:SD	10:S:1357:THR:N	2.68	0.66
10:S:1487:GLY:O	10:S:1492:ARG:NH1	2.28	0.66
12:U:195:LYS:HG3	12:U:200:HIS:HB2	1.76	0.66
4:D:433:GLY:N	11:T:114:SER:H	1.93	0.66
4:D:989:ALA:O	4:D:996:GLN:NE2	2.27	0.66
5:E:256:MET:H	5:E:270:THR:HG22	1.59	0.66
10:S:695:CYS:O	10:S:750:ARG:NH2	2.28	0.66
10:S:1982:GLU:OE2	10:S:1996:GLN:NE2	2.27	0.66
11:T:689:ARG:HH22	11:T:792:SER:HB3	1.58	0.66
2:B:148:GLY:HA2	2:B:172:MET:HE2	1.77	0.66
2:B:183:ILE:HG13	2:B:195:TRP:HE3	1.59	0.66
3:C:113:ARG:NH1	4:D:1367:TYR:OH	2.28	0.66
3:C:287:ASN:OD1	3:C:292:VAL:N	2.26	0.66
3:C:306:LYS:HE2	3:C:316:ILE:HD13	1.76	0.66
1:J:13:ILE:HB	1:J:16:LEU:HG	1.76	0.66
2:K:267:HIS:HE1	2:K:269:SER:HB2	1.61	0.66
3:L:121:PHE:O	3:L:170:TRP:NE1	2.29	0.66
6:O:435:GLU:OE1	6:O:436:ARG:NH1	2.28	0.66
8:Q:355:ARG:HD2	12:U:29:VAL:HA	1.76	0.66
11:T:803:PRO:HD2	11:T:806:LEU:HD12	1.76	0.66
1:A:16:LEU:H	1:A:19:GLN:HE21	1.42	0.66
3:C:171:ASN:HD22	3:C:181:MET:HB2	1.60	0.66
4:D:1335:GLU:O	4:D:1338:ARG:HD3	1.96	0.66
6:F:816:ARG:NE	6:F:816:ARG:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1204:ALA:HB2	10:S:468:GLN:HG3	1.78	0.66
10:S:625:VAL:HA	10:S:628:LEU:HD12	1.77	0.66
10:S:760:GLU:HG2	10:S:845:TYR:HE2	1.60	0.66
10:S:851:ASN:OD1	10:S:855:GLN:NE2	2.23	0.66
10:S:874:THR:OG1	10:S:878:GLN:OE1	2.14	0.66
1:A:591:SER:HB3	1:A:594:GLN:NE2	2.09	0.66
2:B:29:GLN:HG2	2:B:53:PHE:CE2	2.30	0.66
4:D:954:SER:HA	4:D:960:GLN:HE22	1.61	0.66
6:F:434:PRO:HA	6:F:437:HIS:HB3	1.76	0.66
8:H:355:ARG:HH22	8:H:358:LYS:NZ	1.94	0.66
8:H:721:GLN:NE2	8:H:723:MET:O	2.29	0.66
6:O:343:PHE:CD2	6:O:679:LEU:HB2	2.30	0.66
6:O:387:TRP:HA	6:O:409:ARG:HH22	1.60	0.66
8:Q:395:ARG:HB3	8:Q:399:LYS:HZ3	1.60	0.66
10:S:743:ARG:HB3	10:S:747:ARG:HH12	1.61	0.66
10:S:1891:LEU:O	10:S:1895:ILE:HD12	1.96	0.66
11:T:836:VAL:HB	11:T:840:GLN:HE21	1.61	0.66
12:U:505:LYS:H	12:U:526:ARG:HH21	1.44	0.66
1:A:432:TYR:O	1:A:436:HIS:ND1	2.29	0.66
2:B:114:GLN:O	2:B:115:ARG:NH1	2.26	0.66
4:D:1012:HIS:HB3	4:D:1015:GLN:NE2	2.10	0.66
4:D:1264:TRP:HE1	4:D:1283:ALA:HB2	1.58	0.66
7:G:270:SER:HG	7:G:274:ASN:H	1.43	0.66
1:J:409:PHE:HD1	1:J:415:TRP:HA	1.58	0.66
1:J:551:PHE:HE2	1:J:589:ILE:HG12	1.60	0.66
9:R:86:VAL:HG22	9:R:118:ILE:HD12	1.77	0.66
4:D:996:GLN:OE1	4:D:996:GLN:N	2.26	0.66
4:D:1058:HIS:HA	4:D:1061:VAL:HG22	1.77	0.66
6:F:435:GLU:OE1	6:F:436:ARG:NH1	2.28	0.66
6:F:650:SER:HB3	6:F:652:HIS:CD2	2.30	0.66
1:J:21:ARG:NH2	1:J:44:ASN:O	2.29	0.66
1:J:623:SER:O	1:J:627:ASN:N	2.28	0.66
2:K:142:VAL:HG11	2:K:183:ILE:HG21	1.78	0.66
10:S:743:ARG:O	10:S:747:ARG:NH1	2.28	0.66
3:C:284:VAL:HB	3:C:293:LEU:HD11	1.78	0.66
4:D:96:SER:HA	4:D:176:GLU:HB2	1.78	0.66
4:D:1078:ASN:O	4:D:1081:GLU:HG2	1.95	0.66
6:F:916:TYR:CD2	11:T:993:ILE:HG12	2.31	0.66
7:G:14:ASP:HB3	7:G:34:ASP:HB3	1.78	0.66
1:J:58:ARG:NE	1:J:60:ASP:HB2	2.10	0.66
1:J:572:TRP:CD1	1:J:575:LEU:HD22	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:342:HIS:ND1	6:O:679:LEU:O	2.28	0.66
6:O:356:ALA:HB1	6:O:360:ARG:NH1	2.11	0.66
7:P:56:HIS:HA	7:P:82:LYS:HZ1	1.61	0.66
8:Q:667:ASP:HA	8:Q:670:VAL:HG12	1.77	0.66
8:Q:754:TRP:NE1	8:Q:801:THR:OG1	2.25	0.66
10:S:1776:GLN:OE1	10:S:1932:ARG:NH1	2.29	0.66
11:T:894:GLN:O	11:T:898:SER:OG	2.11	0.66
1:A:32:LEU:HB3	1:A:57:VAL:HB	1.78	0.66
4:D:1007:HIS:O	4:D:1012:HIS:N	2.28	0.66
4:D:1412:GLN:NE2	4:D:1415:MET:SD	2.69	0.66
7:G:164:PRO:HG2	7:G:224:GLY:H	1.59	0.66
8:H:344:LEU:O	8:H:349:MET:N	2.24	0.66
8:H:436:TRP:CA	8:H:495:VAL:HG22	2.26	0.66
6:O:687:ARG:O	6:O:691:VAL:HG23	1.96	0.66
6:O:763:LEU:HG	6:O:776:LEU:HD13	1.78	0.66
7:P:107:ASN:ND2	7:P:153:CYS:O	2.28	0.66
8:Q:355:ARG:HH22	8:Q:358:LYS:NZ	1.94	0.66
9:R:84:VAL:HA	9:R:87:MET:CE	2.25	0.66
10:S:293:GLU:HA	10:S:296:LYS:HG2	1.78	0.66
1:A:109:LEU:HB2	1:A:141:GLU:OE2	1.96	0.66
2:B:296:THR:H	2:B:308:SER:HA	1.61	0.66
4:D:867:GLN:O	4:D:875:ASN:ND2	2.28	0.66
4:D:914:ALA:HB2	4:D:929:CYS:HB2	1.77	0.66
5:E:125:GLY:HA3	5:E:145:ASP:HB2	1.78	0.66
7:G:133:THR:HB	7:G:141:GLU:HB2	1.78	0.66
7:G:249:THR:OG1	7:G:251:CYS:SG	2.53	0.66
4:M:1218:LEU:HD22	4:M:1227:ALA:HB2	1.77	0.66
10:S:496:ARG:O	10:S:499:SER:OG	2.12	0.66
12:U:740:ASP:HA	12:U:743:ARG:HD2	1.78	0.66
2:B:100:ILE:H	2:B:115:ARG:NH1	1.93	0.65
9:I:279:LEU:HA	9:I:284:ILE:HG12	1.76	0.65
3:L:79:PHE:HA	3:L:81:ARG:HH22	1.61	0.65
4:M:398:ILE:HD11	4:M:414:LEU:HD12	1.78	0.65
6:O:350:THR:HA	6:O:353:HIS:HD1	1.60	0.65
12:U:607:LYS:HA	12:U:610:ILE:HD12	1.77	0.65
3:C:204:GLU:O	3:C:207:ARG:HD2	1.96	0.65
6:F:252:ARG:NH1	7:G:216:ASP:OD2	2.25	0.65
8:H:439:THR:HG21	8:H:495:VAL:HG21	1.78	0.65
8:Q:678:GLU:O	8:Q:682:GLN:NE2	2.30	0.65
10:S:510:TYR:O	10:S:513:MET:HB2	1.96	0.65
10:S:1341:THR:HG21	10:S:1423:SER:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:474:ASN:ND2	11:T:491:THR:O	2.29	0.65
11:T:585:THR:HG23	11:T:629:LEU:HD22	1.78	0.65
12:U:50:ARG:NH1	12:U:52:SER:OG	2.29	0.65
5:E:179:PHE:HB3	5:E:195:LEU:HB2	1.78	0.65
7:G:181:ARG:HA	7:G:201:TRP:HZ3	1.61	0.65
9:R:87:MET:N	9:R:87:MET:SD	2.67	0.65
10:S:1341:THR:HG23	10:S:1426:TYR:HD2	1.61	0.65
1:A:544:ARG:NH1	1:A:545:MET:HG3	2.11	0.65
3:C:240:VAL:HG12	3:C:246:ARG:NH2	2.04	0.65
7:G:218:ALA:HB3	7:G:231:ALA:HB3	1.79	0.65
4:M:137:ILE:HG12	4:M:155:ILE:HD11	1.77	0.65
6:O:343:PHE:HE2	6:O:676:PHE:HA	1.60	0.65
10:S:1680:SER:HA	10:S:1762:TYR:HD1	1.61	0.65
1:A:372:VAL:HA	1:A:375:LEU:HD12	1.78	0.65
5:E:259:TRP:HE1	5:E:264:GLU:HA	1.61	0.65
8:H:412:ASN:OD1	8:H:413:LYS:N	2.28	0.65
8:H:487:LEU:HD11	8:H:495:VAL:HG11	1.79	0.65
4:M:338:ALA:HA	4:M:342:HIS:ND1	2.12	0.65
8:Q:207:GLU:OE1	8:Q:211:TRP:NE1	2.29	0.65
8:Q:412:ASN:OD1	8:Q:413:LYS:N	2.29	0.65
8:Q:508:LYS:HA	8:Q:511:ILE:HD12	1.79	0.65
8:Q:605:ASP:OD1	8:Q:606:PRO:HD2	1.97	0.65
10:S:1508:GLN:HB3	10:S:1510:GLN:HE22	1.62	0.65
11:T:929:THR:N	11:T:932:GLU:OE1	2.29	0.65
8:H:345:ILE:HD11	8:H:353:ALA:HB2	1.78	0.65
8:H:398:TRP:HE3	8:H:399:LYS:HD3	1.62	0.65
1:J:576:LEU:HD12	1:J:605:ARG:HH21	1.60	0.65
3:L:185:GLY:HA3	3:L:222:VAL:HG11	1.79	0.65
4:M:107:SER:HB2	4:M:112:LEU:HD13	1.78	0.65
10:S:1273:CYS:HB3	10:S:1277:LYS:HZ2	1.61	0.65
4:D:59:ARG:HE	4:D:124:LEU:HA	1.62	0.65
4:D:1180:ARG:O	4:D:1184:LYS:HG2	1.97	0.65
4:D:1380:LEU:HD11	6:F:245:LEU:HG	1.79	0.65
7:G:190:LEU:HG	7:G:208:GLU:HG2	1.78	0.65
4:M:666:GLN:HA	4:M:747:LEU:HD21	1.78	0.65
4:M:1279:LYS:N	10:S:1242:GLN:O	2.27	0.65
6:O:835:LEU:O	6:O:839:VAL:HG23	1.97	0.65
7:P:82:LYS:HG2	7:P:84:ILE:HD11	1.79	0.65
1:A:66:PRO:O	1:A:70:LYS:NZ	2.25	0.65
2:B:73:LYS:NZ	6:O:278:ARG:H	1.95	0.65
2:B:244:VAL:HG22	2:B:248:LYS:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:156:GLN:HG3	3:C:157:HIS:CD2	2.32	0.65
4:D:444:PRO:HG2	4:D:470:PHE:H	1.62	0.65
4:D:1357:VAL:HA	4:D:1360:LEU:HD12	1.78	0.65
8:H:395:ARG:HB3	8:H:399:LYS:HZ3	1.61	0.65
9:I:750:TRP:O	9:I:753:SER:OG	2.12	0.65
9:I:1017:GLN:HA	9:I:1020:VAL:HG12	1.78	0.65
2:K:75:PRO:O	2:K:93:SER:OG	2.15	0.65
8:Q:175:THR:O	8:Q:178:THR:OG1	2.15	0.65
10:S:1402:LEU:O	10:S:1406:ILE:HG12	1.97	0.65
11:T:951:LEU:HG	11:T:955:HIS:CE1	2.32	0.65
1:A:75:SER:HB2	1:A:374:HIS:CE1	2.26	0.65
6:F:572:TYR:OH	6:F:598:ARG:HD3	1.97	0.65
9:I:189:ILE:HD12	9:I:229:GLY:H	1.60	0.65
4:M:526:ILE:HA	9:R:62:TYR:HD2	1.62	0.65
6:O:324:PRO:HA	6:O:327:ILE:HD12	1.79	0.65
6:O:672:GLU:HA	6:O:675:ILE:HD12	1.78	0.65
9:R:871:ARG:HH22	9:R:875:LEU:HD21	1.61	0.65
10:S:1099:VAL:HG12	10:S:1102:SER:H	1.61	0.65
12:U:377:ARG:HB3	12:U:378:ARG:HH21	1.62	0.65
12:U:536:TYR:HA	12:U:539:LYS:HG2	1.79	0.65
8:H:395:ARG:HB3	8:H:399:LYS:NZ	2.12	0.65
8:H:571:LEU:O	8:H:576:GLN:NE2	2.30	0.65
4:M:976:GLU:HA	4:M:979:ILE:HD12	1.78	0.65
4:M:1200:PRO:HB2	10:S:470:THR:HA	1.79	0.65
6:O:642:GLN:HA	6:O:647:THR:HG22	1.78	0.65
8:Q:606:PRO:HA	8:Q:609:ARG:HB2	1.79	0.65
10:S:1890:SER:HA	10:S:1985:TYR:HE2	1.62	0.65
12:U:246:ARG:HH12	12:U:524:VAL:HG11	1.62	0.65
12:U:249:GLY:O	12:U:252:GLN:NE2	2.30	0.65
2:B:114:GLN:NE2	2:B:158:ARG:HA	2.08	0.64
6:F:352:ILE:HG12	6:F:640:VAL:HG21	1.79	0.64
6:F:776:LEU:HA	6:F:779:PHE:HB2	1.79	0.64
1:J:496:PHE:HA	1:J:499:LEU:HD12	1.78	0.64
8:Q:869:ALA:HB2	8:Q:895:LEU:CD2	1.99	0.64
10:S:979:MET:HA	10:S:982:ILE:HD12	1.80	0.64
10:S:1730:LEU:HD13	10:S:1748:MET:HB3	1.79	0.64
4:D:558:ASN:ND2	4:D:852:LEU:O	2.29	0.64
6:F:635:TRP:HE1	6:F:658:HIS:CD2	2.14	0.64
9:I:74:ASN:ND2	9:I:466:ARG:HG2	2.12	0.64
1:J:148:GLU:HA	1:J:152:ILE:HD12	1.77	0.64
1:J:479:ARG:HB2	3:L:94:ASN:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:88:ARG:HH12	2:K:155:ALA:HB1	1.60	0.64
4:M:116:GLU:O	4:M:126:ASN:ND2	2.30	0.64
4:M:1211:ALA:HB1	4:M:1236:LEU:HD11	1.78	0.64
6:O:278:ARG:HB2	6:O:282:THR:HB	1.79	0.64
6:O:654:GLN:HE22	6:O:681:ILE:HG13	1.61	0.64
8:Q:345:ILE:HD11	8:Q:353:ALA:HB2	1.78	0.64
8:Q:395:ARG:HB3	8:Q:399:LYS:NZ	2.12	0.64
8:Q:627:THR:OG1	8:Q:675:GLN:NE2	2.16	0.64
10:S:842:ALA:HA	10:S:845:TYR:CD2	2.33	0.64
10:S:1067:LEU:O	10:S:1073:THR:OG1	2.15	0.64
1:A:106:ARG:NH2	1:A:148:GLU:OE1	2.31	0.64
1:A:517:LEU:HD12	1:A:540:ARG:HD3	1.79	0.64
1:A:591:SER:HB3	1:A:594:GLN:HE21	1.62	0.64
7:G:211:SER:H	7:G:238:ARG:HH22	1.43	0.64
8:H:206:GLN:HA	8:H:209:VAL:HG22	1.79	0.64
8:H:436:TRP:HA	8:H:495:VAL:HG22	1.80	0.64
9:I:365:VAL:HG22	9:I:376:ILE:HD12	1.79	0.64
9:I:567:GLU:HB3	9:I:572:GLU:HG2	1.78	0.64
3:L:81:ARG:HH21	3:L:115:SER:HA	1.61	0.64
8:Q:556:LYS:NZ	8:Q:558:GLU:OE1	2.29	0.64
10:S:1438:ASP:HB2	10:S:1883:ASN:HA	1.79	0.64
1:A:38:LEU:HG	3:C:15:ILE:HG12	1.79	0.64
4:D:758:GLN:OE1	11:T:673:ARG:NH2	2.31	0.64
8:H:373:LYS:O	8:H:395:ARG:NE	2.31	0.64
9:I:655:GLN:HA	9:I:658:LEU:HD12	1.79	0.64
9:I:1081:LYS:NZ	9:I:1135:TYR:OH	2.29	0.64
7:P:111:TRP:CE2	7:P:120:LEU:HD13	2.33	0.64
9:R:286:LYS:NZ	9:R:288:ASP:OD1	2.29	0.64
10:S:508:LEU:HA	10:S:511:LEU:HD12	1.78	0.64
10:S:1347:SER:O	10:S:1350:THR:OG1	2.13	0.64
10:S:1396:HIS:NE2	10:S:1464:ASP:OD2	2.30	0.64
10:S:1645:LEU:HA	10:S:1648:LEU:HD12	1.78	0.64
4:D:780:CYS:SG	4:D:890:GLN:NE2	2.71	0.64
9:I:484:SER:HB3	9:I:527:MET:HG3	1.78	0.64
9:I:972:LEU:HD23	9:I:975:LYS:HZ1	1.61	0.64
3:L:125:HIS:NE2	3:L:173:SER:O	2.31	0.64
6:O:504:ARG:NH1	6:O:525:VAL:O	2.31	0.64
6:O:621:PRO:HB3	6:O:633:LEU:HD23	1.80	0.64
8:Q:398:TRP:HE3	8:Q:399:LYS:HD3	1.62	0.64
8:Q:436:TRP:HE1	8:Q:487:LEU:HD21	1.63	0.64
9:R:64:HIS:HB3	9:R:67:ALA:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:726:CYS:O	9:R:730:GLN:NE2	2.29	0.64
3:C:304:LEU:HD12	3:C:317:GLY:HA3	1.80	0.64
6:F:785:ARG:HB2	6:F:788:HIS:ND1	2.13	0.64
9:I:882:SER:HA	9:I:885:LEU:HD12	1.80	0.64
3:L:157:HIS:HE1	3:L:208:LYS:HG2	1.61	0.64
8:Q:373:LYS:O	8:Q:395:ARG:NE	2.31	0.64
10:S:1016:ASN:O	10:S:1018:GLN:NE2	2.31	0.64
1:A:299:MET:HG2	1:A:301:THR:H	1.60	0.64
1:A:480:ARG:HE	1:A:482:GLY:H	1.44	0.64
2:B:120:HIS:ND1	2:B:147:ASP:OD1	2.26	0.64
4:D:1340:TYR:CE2	4:D:1352:LEU:HD11	2.32	0.64
4:M:914:ALA:HB2	4:M:929:CYS:CB	2.28	0.64
8:Q:174:ASN:HA	8:Q:177:ILE:HD12	1.79	0.64
8:Q:525:TRP:HB3	8:Q:533:LEU:HD11	1.78	0.64
8:Q:889:ARG:HA	8:Q:892:LEU:HD12	1.80	0.64
9:R:853:PHE:HD1	9:R:881:PHE:HD1	1.46	0.64
10:S:783:GLN:OE1	10:S:794:ALA:N	2.30	0.64
11:T:382:SER:HB3	11:T:446:ILE:HD12	1.80	0.64
2:B:70:CYS:HB3	2:B:108:GLN:HG3	1.78	0.64
9:I:99:MET:HG3	9:I:100:ALA:H	1.63	0.64
4:M:343:LYS:HG3	4:M:397:LEU:HD23	1.79	0.64
7:P:107:ASN:OD1	7:P:108:SER:N	2.30	0.64
8:Q:346:ARG:NH2	8:Q:438:ASP:OD1	2.30	0.64
10:S:992:LEU:HD21	10:S:1000:ALA:HB3	1.80	0.64
10:S:1090:SER:HA	10:S:1093:GLN:HE21	1.62	0.64
11:T:465:GLU:HA	11:T:468:TYR:HD2	1.63	0.64
12:U:483:LEU:HD23	12:U:485:ARG:H	1.63	0.64
1:A:299:MET:SD	1:A:305:PHE:HB2	2.38	0.64
1:A:518:ASP:HA	1:A:521:ASP:HB2	1.77	0.64
4:D:55:GLU:HA	4:D:814:SER:H	1.61	0.64
6:F:255:TRP:HB3	7:G:271:ILE:HG22	1.79	0.64
6:F:784:ALA:HA	6:F:795:TRP:HE1	1.63	0.64
7:G:20:GLN:HB2	7:G:65:TRP:HE1	1.63	0.64
8:H:199:SER:HA	8:H:202:TRP:HE3	1.63	0.64
8:H:436:TRP:CB	8:H:498:GLU:CD	2.66	0.64
2:K:140:GLU:OE1	2:K:162:ARG:NH2	2.31	0.64
3:L:61:TRP:N	3:L:77:CYS:O	2.30	0.64
8:Q:331:ARG:O	8:Q:335:ILE:HG12	1.98	0.64
9:R:206:VAL:HG11	9:R:289:LEU:HD12	1.80	0.64
10:S:338:ARG:HG2	10:S:399:LEU:HB3	1.79	0.64
10:S:979:MET:O	10:S:983:HIS:ND1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1464:ASP:O	10:S:1467:SER:OG	2.11	0.64
1:A:112:CYS:O	1:A:116:MET:HB2	1.98	0.64
6:F:757:LYS:HB3	6:F:761:ARG:HH12	1.62	0.64
9:I:752:ALA:HB2	9:I:799:ASP:HB3	1.79	0.64
9:I:870:GLN:HA	9:I:873:MET:HE2	1.80	0.64
1:J:84:LYS:O	2:K:309:ARG:NH2	2.31	0.64
1:J:497:ALA:O	1:J:501:SER:OG	2.09	0.64
1:J:637:LEU:O	1:J:641:LEU:HG	1.98	0.64
6:O:324:PRO:HB2	6:O:636:HIS:CE1	2.33	0.64
7:P:218:ALA:O	7:P:269:TRP:NE1	2.27	0.64
8:Q:302:LEU:HD23	12:U:111:LEU:HD21	1.79	0.64
10:S:877:GLU:N	10:S:877:GLU:OE2	2.30	0.64
1:A:306:LEU:HD13	1:A:329:SER:HB2	1.80	0.63
2:B:6:ALA:HB2	2:B:63:GLN:HB2	1.80	0.63
6:F:612:GLN:CA	12:U:183:MET:HG3	2.02	0.63
7:G:23:TYR:CZ	7:G:68:PRO:HD3	2.33	0.63
4:M:896:ARG:NH2	5:N:165:ARG:O	2.31	0.63
4:M:1137:GLU:O	6:O:850:ARG:NE	2.31	0.63
7:P:157:SER:O	7:P:182:PHE:HB2	1.98	0.63
8:Q:143:THR:HA	8:Q:146:MET:HE2	1.79	0.63
1:A:507:GLU:OE1	1:A:511:ARG:NH2	2.31	0.63
2:B:225:ASN:ND2	2:B:272:ASP:OD1	2.30	0.63
3:C:55:THR:HG23	3:C:86:TRP:NE1	2.12	0.63
3:C:227:PHE:HB3	3:C:236:HIS:CE1	2.33	0.63
6:F:379:THR:CB	6:F:633:LEU:CD2	2.76	0.63
6:F:648:HIS:CD2	12:U:175:ARG:HH21	2.16	0.63
8:H:688:ARG:HG3	8:H:689:LYS:HD2	1.80	0.63
5:N:185:GLU:HB3	5:N:189:THR:HG22	1.80	0.63
6:O:498:ILE:HG13	8:Q:314:LEU:HD22	1.80	0.63
7:P:33:SER:HA	7:P:35:ARG:HH21	1.63	0.63
7:P:264:VAL:HA	7:P:280:GLY:HA2	1.80	0.63
8:Q:335:ILE:HA	8:Q:338:LEU:HD12	1.79	0.63
10:S:756:TRP:NE1	10:S:839:LEU:HB2	2.13	0.63
12:U:671:ILE:HG12	12:U:674:ARG:HH21	1.63	0.63
1:A:330:LEU:HD23	1:A:334:LEU:HD23	1.79	0.63
2:B:262:TRP:CD1	2:B:278:SER:HB3	2.33	0.63
4:D:41:ASN:HD21	4:D:429:ARG:HH11	1.46	0.63
8:H:206:GLN:HB2	8:H:503:TYR:HD2	1.63	0.63
8:H:297:LYS:O	8:H:301:MET:HB2	1.99	0.63
1:J:472:ALA:HB2	1:J:487:TRP:HB2	1.79	0.63
1:J:572:TRP:HD1	1:J:575:LEU:HD22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:66:ALA:HB3	3:L:73:VAL:HB	1.80	0.63
4:M:395:GLU:HA	9:R:184:HIS:HE1	1.63	0.63
4:M:1350:ALA:O	4:M:1354:LEU:HG	1.99	0.63
6:O:859:ARG:NH2	6:O:862:ASN:OD1	2.31	0.63
7:P:83:VAL:O	7:P:98:GLU:HA	1.98	0.63
9:R:200:CYS:HB3	9:R:213:LEU:HD11	1.81	0.63
9:R:223:LEU:HD22	9:R:233:GLN:HG3	1.78	0.63
12:U:451:GLU:O	12:U:457:ASN:N	2.32	0.63
1:A:16:LEU:H	1:A:19:GLN:NE2	1.97	0.63
3:C:208:LYS:HZ3	3:C:209:TYR:HB2	1.64	0.63
6:F:324:PRO:HB3	6:F:355:TYR:CE1	2.33	0.63
8:H:434:GLU:O	8:H:494:ARG:CB	2.46	0.63
8:H:436:TRP:HE1	8:H:487:LEU:HD21	1.63	0.63
1:J:428:LEU:HB3	1:J:432:TYR:CE2	2.33	0.63
4:M:895:VAL:HG11	4:M:913:LEU:HD13	1.80	0.63
7:P:72:ASN:ND2	7:P:88:GLU:OE1	2.27	0.63
11:T:882:LEU:O	11:T:885:ARG:NH1	2.31	0.63
11:T:899:SER:N	11:T:902:ASN:OD1	2.31	0.63
1:A:87:GLU:O	2:B:316:ASN:ND2	2.32	0.63
1:A:157:ALA:HB2	1:A:317:VAL:HG22	1.81	0.63
3:C:250:MET:HG3	3:C:268:ILE:HG12	1.81	0.63
5:E:218:VAL:HG11	5:E:261:LYS:HA	1.79	0.63
6:F:614:ASP:N	12:U:187:ARG:HH22	1.97	0.63
6:F:902:GLU:HA	6:F:905:ALA:HB3	1.81	0.63
1:J:129:LYS:NZ	1:J:133:GLN:OE1	2.25	0.63
4:M:619:TYR:HB2	4:M:657:ILE:HD13	1.80	0.63
5:N:149:CYS:HB3	5:N:162:PHE:HB2	1.80	0.63
8:Q:181:LYS:HD3	8:Q:201:LEU:HD21	1.81	0.63
8:Q:868:LEU:HD23	8:Q:868:LEU:C	2.19	0.63
10:S:1785:LEU:HD12	10:S:1965:GLU:HB3	1.80	0.63
1:A:310:LEU:HD12	1:A:314:HIS:HB2	1.80	0.63
1:A:455:CYS:SG	1:A:460:MET:HB3	2.39	0.63
3:C:88:GLU:OE2	3:C:102:HIS:N	2.26	0.63
4:D:1056:ASN:HA	6:F:910:ARG:CZ	2.28	0.63
4:D:1192:ARG:HG2	4:D:1206:ALA:HB1	1.79	0.63
7:G:59:PRO:HD2	7:G:79:TYR:HB3	1.81	0.63
7:G:110:CYS:O	7:G:158:TRP:NE1	2.22	0.63
8:H:908:ASP:HB2	8:H:914:ILE:HA	1.80	0.63
3:L:26:ARG:NH1	3:L:40:ASP:HB3	2.13	0.63
4:M:1382:TRP:CD2	7:P:59:PRO:HD3	2.34	0.63
4:M:1401:ASN:HB3	10:S:790:GLU:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:227:VAL:HG13	5:N:257:PHE:HB2	1.80	0.63
6:O:538:HIS:HA	6:O:542:MET:HG2	1.79	0.63
12:U:93:VAL:O	12:U:94:LYS:NZ	2.24	0.63
1:A:548:GLN:HG2	1:A:550:GLN:HG2	1.80	0.63
4:D:1180:ARG:HH12	4:D:1233:THR:HA	1.63	0.63
5:E:191:ARG:NH1	5:E:202:LEU:O	2.32	0.63
6:F:752:TRP:HB2	6:F:792:ILE:HD11	1.79	0.63
8:H:833:ARG:O	8:H:837:MET:HB2	1.99	0.63
1:J:342:PRO:O	1:J:346:ILE:HG12	1.99	0.63
4:M:124:LEU:HB2	4:M:184:GLN:HA	1.80	0.63
10:S:316:ASN:HB2	10:S:318:GLN:HE22	1.63	0.63
10:S:1910:TYR:O	10:S:2010:ARG:NH1	2.30	0.63
11:T:83:VAL:HG22	11:T:96:VAL:HG22	1.81	0.63
12:U:25:GLU:OE2	12:U:33:LEU:N	2.28	0.63
1:A:432:TYR:HB3	1:A:436:HIS:CE1	2.34	0.63
2:B:215:VAL:HG21	2:B:236:ASP:H	1.63	0.63
7:G:128:ALA:HA	7:G:148:ALA:HB3	1.81	0.63
9:I:894:LYS:HD2	9:I:897:LYS:HD3	1.81	0.63
2:K:319:GLN:OE1	2:K:320:SER:N	2.31	0.63
4:M:682:MET:SD	4:M:767:LEU:HD23	2.39	0.63
8:Q:815:VAL:HG12	8:Q:877:GLN:HG3	1.81	0.63
10:S:262:GLY:HA2	10:S:371:GLU:HG2	1.79	0.63
2:B:167:ALA:N	2:B:202:ASN:OD1	2.27	0.63
3:C:305:TRP:HA	3:C:314:LYS:O	1.98	0.63
8:H:436:TRP:HA	8:H:495:VAL:CG2	2.29	0.63
4:M:344:LEU:HG	4:M:359:VAL:HG22	1.80	0.63
4:M:1180:ARG:NH2	4:M:1183:GLU:OE2	2.31	0.63
10:S:443:ILE:HB	10:S:513:MET:CE	2.29	0.63
10:S:552:TRP:CD1	10:S:615:LEU:HD21	2.34	0.63
10:S:1567:GLN:HA	10:S:1570:ILE:HD12	1.80	0.63
11:T:838:SER:HA	11:T:841:HIS:HD2	1.64	0.63
1:A:55:TYR:OH	3:C:5:ARG:HD3	1.99	0.62
1:A:129:LYS:O	1:A:133:GLN:NE2	2.32	0.62
1:A:439:ARG:CZ	3:C:22:PHE:HA	2.28	0.62
1:A:597:GLU:HA	1:A:600:ARG:NE	2.13	0.62
3:C:38:VAL:HB	3:C:51:ALA:HB3	1.81	0.62
3:C:82:THR:HG22	3:C:110:VAL:HA	1.81	0.62
5:E:84:THR:OG1	5:E:92:LEU:O	2.13	0.62
2:K:101:PHE:HE1	2:K:112:VAL:HG22	1.63	0.62
2:K:251:MET:N	2:K:251:MET:SD	2.72	0.62
3:L:141:ILE:HB	3:L:157:HIS:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:157:HIS:CE1	3:L:208:LYS:HG2	2.33	0.62
7:P:35:ARG:HH22	7:P:60:VAL:H	1.44	0.62
8:Q:208:MET:HA	8:Q:211:TRP:HD1	1.63	0.62
9:R:567:GLU:OE2	9:R:573:ALA:N	2.32	0.62
10:S:955:GLU:O	10:S:977:ARG:NH2	2.32	0.62
10:S:1485:CYS:O	10:S:1492:ARG:NH2	2.32	0.62
1:A:254:LEU:O	1:A:257:GLN:HG2	1.99	0.62
2:B:8:LYS:HB2	2:B:367:ILE:HG22	1.80	0.62
4:D:1092:ASN:HB2	4:D:1095:LYS:HE2	1.81	0.62
6:F:538:HIS:HA	6:F:542:MET:HG2	1.80	0.62
6:F:557:GLU:HA	6:F:560:PHE:CE2	2.34	0.62
6:F:661:TYR:HA	6:F:664:GLN:HG2	1.81	0.62
6:F:892:ALA:HA	6:F:895:ILE:HG12	1.81	0.62
8:H:125:ASP:HB3	8:H:186:ARG:HH22	1.63	0.62
1:J:93:SER:HA	2:K:318:ASN:H	1.64	0.62
4:M:449:ALA:N	9:R:127:SER:OG	2.30	0.62
4:M:934:ALA:HA	4:M:937:VAL:HG13	1.81	0.62
8:Q:242:LYS:NZ	8:Q:375:TYR:O	2.26	0.62
8:Q:718:TRP:HE1	8:Q:724:ASP:HA	1.64	0.62
9:R:332:TYR:HA	9:R:346:SER:HA	1.81	0.62
10:S:400:MET:HB3	10:S:403:LYS:HB2	1.81	0.62
10:S:536:GLY:N	10:S:553:ASP:OD2	2.30	0.62
2:B:194:LEU:HB3	2:B:206:GLN:HB3	1.81	0.62
3:C:249:THR:O	3:C:268:ILE:HA	1.99	0.62
1:J:245:GLY:HA3	10:S:1576:GLY:HA3	1.79	0.62
4:M:346:LEU:HB2	4:M:355:LEU:HD21	1.81	0.62
6:O:386:LEU:HB2	6:O:387:TRP:CE3	2.33	0.62
8:Q:335:ILE:HD13	8:Q:338:LEU:HD12	1.81	0.62
10:S:823:GLY:HA2	10:S:839:LEU:HD11	1.81	0.62
11:T:503:LYS:O	11:T:565:ARG:NH2	2.32	0.62
12:U:383:SER:H	12:U:389:ARG:HD2	1.64	0.62
4:D:1014:SER:HB3	11:T:927:THR:HG21	1.79	0.62
6:F:917:LEU:HD22	11:T:953:VAL:HG13	1.80	0.62
6:O:504:ARG:O	6:O:508:LEU:HG	2.00	0.62
8:Q:297:LYS:O	8:Q:301:MET:HB2	1.99	0.62
8:Q:534:LEU:H	8:Q:537:LEU:HD13	1.64	0.62
9:R:624:LEU:HD22	9:R:729:ARG:HH12	1.64	0.62
10:S:762:VAL:HG22	10:S:766:PHE:CE2	2.35	0.62
10:S:859:ARG:NH1	10:S:863:LEU:HD11	2.14	0.62
12:U:456:VAL:HB	12:U:463:TYR:HB2	1.80	0.62
6:F:387:TRP:CE3	6:F:637:MET:CE	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:210:HIS:NE2	7:G:238:ARG:O	2.31	0.62
7:G:269:TRP:CD2	7:G:276:LEU:HD13	2.34	0.62
2:K:222:ARG:NH1	2:K:222:ARG:O	2.29	0.62
3:L:120:LYS:HG3	3:L:170:TRP:HE1	1.65	0.62
4:M:65:SER:O	4:M:67:ARG:NH1	2.33	0.62
6:O:335:ASP:HB2	6:O:342:HIS:HB3	1.82	0.62
10:S:1796:GLN:NE2	10:S:1799:GLN:O	2.32	0.62
11:T:159:VAL:HG12	11:T:165:VAL:HG22	1.82	0.62
11:T:473:TYR:O	11:T:491:THR:OG1	2.15	0.62
12:U:254:ALA:O	12:U:258:GLN:NE2	2.33	0.62
2:B:153:PHE:HE1	2:B:160:VAL:HG23	1.65	0.62
4:D:547:ARG:HB2	4:D:565:LYS:HD2	1.81	0.62
5:E:284:HIS:HB2	5:E:291:ILE:HD13	1.81	0.62
9:I:106:GLY:O	9:I:121:LYS:NZ	2.31	0.62
1:J:70:LYS:HA	2:K:245:ARG:HH21	1.64	0.62
4:M:95:LEU:HD21	4:M:176:GLU:H	1.62	0.62
6:O:432:TYR:HA	6:O:436:ARG:HE	1.64	0.62
7:P:35:ARG:HH22	7:P:60:VAL:N	1.97	0.62
7:P:219:TRP:HA	7:P:230:ILE:HG13	1.81	0.62
8:Q:685:ALA:HA	8:Q:688:ARG:HE	1.65	0.62
9:R:863:THR:OG1	9:R:868:ARG:NH2	2.32	0.62
9:R:888:TRP:HA	9:R:891:GLU:OE1	1.99	0.62
10:S:1590:ARG:HG2	10:S:1592:GLU:HG3	1.82	0.62
11:T:579:ARG:O	11:T:582:LEU:HG	1.99	0.62
11:T:702:SER:OG	11:T:706:LYS:NZ	2.32	0.62
12:U:220:ASN:OD1	12:U:221:VAL:N	2.33	0.62
4:D:108:TYR:OH	4:D:129:ARG:NH1	2.33	0.62
6:F:386:LEU:O	6:F:608:TYR:CZ	2.52	0.62
8:H:771:ALA:N	8:H:775:GLU:OE1	2.27	0.62
1:J:120:SER:O	1:J:124:ARG:NH1	2.33	0.62
1:J:299:MET:HE1	1:J:305:PHE:HB2	1.81	0.62
1:J:501:SER:O	1:J:505:LEU:HG	1.99	0.62
2:K:154:ARG:HG2	2:K:161:LEU:HD22	1.81	0.62
2:K:228:HIS:ND1	2:K:243:ASP:OD1	2.33	0.62
8:Q:309:PRO:HG2	8:Q:325:PRO:HG2	1.82	0.62
9:R:778:ASP:H	9:R:781:LEU:HD22	1.64	0.62
10:S:1180:ILE:HA	10:S:1183:ILE:HD12	1.82	0.62
1:A:302:TRP:CH2	1:A:347:LEU:HD11	2.35	0.62
2:B:323:CYS:SG	2:B:324:ALA:N	2.73	0.62
4:D:472:ILE:HD12	4:D:815:GLY:HA2	1.81	0.62
4:D:1270:ASN:ND2	4:D:1270:ASN:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1342:LYS:O	4:D:1342:LYS:NZ	2.27	0.62
5:E:255:ARG:CZ	5:E:273:PRO:HG3	2.30	0.62
6:F:607:LEU:HD22	6:F:618:LEU:CD1	2.29	0.62
2:K:204:PRO:HG2	2:K:207:ILE:HD11	1.82	0.62
4:M:331:SER:HB2	4:M:334:ILE:HG13	1.81	0.62
6:O:716:GLN:OE1	6:O:717:ARG:NH1	2.32	0.62
10:S:358:GLU:OE2	10:S:403:LYS:NZ	2.33	0.62
10:S:734:GLN:HG3	10:S:737:ARG:HH21	1.63	0.62
12:U:338:VAL:HG22	12:U:341:ARG:HH21	1.64	0.62
1:A:251:GLU:HA	1:A:254:LEU:HD12	1.81	0.62
1:A:385:PHE:O	1:A:389:ASN:ND2	2.21	0.62
3:C:240:VAL:HB	3:C:246:ARG:HB2	1.81	0.62
4:D:924:HIS:CD2	5:E:74:ARG:HH12	2.18	0.62
7:G:124:SER:O	7:G:153:CYS:HB3	2.00	0.62
8:H:355:ARG:HH22	8:H:358:LYS:HZ2	1.47	0.62
1:J:58:ARG:HG2	1:J:64:TYR:HE2	1.65	0.62
2:K:288:ALA:HB3	2:K:335:LEU:HA	1.80	0.62
3:L:202:TYR:HA	3:L:209:TYR:HA	1.80	0.62
6:O:386:LEU:HB2	6:O:387:TRP:CZ3	2.35	0.62
7:P:81:ARG:HD3	7:P:102:HIS:HD2	1.65	0.62
9:R:268:VAL:HG12	9:R:278:THR:HG22	1.81	0.62
9:R:918:HIS:O	9:R:921:TRP:NE1	2.32	0.62
9:R:1049:ASP:HB3	9:R:1052:GLU:HB3	1.81	0.62
2:B:10:VAL:HG12	2:B:366:ALA:HA	1.82	0.62
4:D:1180:ARG:HH22	4:D:1233:THR:HG23	1.65	0.62
4:D:1303:THR:HA	4:D:1306:HIS:HD2	1.64	0.62
4:D:1322:ASN:OD1	4:D:1323:TRP:N	2.33	0.62
6:F:386:LEU:HB2	6:F:387:TRP:CZ3	2.35	0.62
7:G:63:VAL:HA	7:G:75:ALA:O	1.99	0.62
8:H:309:PRO:HG2	8:H:325:PRO:HG2	1.82	0.62
1:J:4:LEU:HD22	1:J:364:ILE:HD11	1.82	0.62
1:J:449:LEU:HA	1:J:452:LEU:HD12	1.82	0.62
3:L:246:ARG:NH2	3:L:275:ASP:OD1	2.33	0.62
4:M:446:ASP:OD1	9:R:130:LEU:N	2.33	0.62
5:N:151:ILE:O	5:N:159:ILE:N	2.33	0.62
6:O:760:THR:OG1	6:O:761:ARG:NH1	2.32	0.62
8:Q:201:LEU:HD12	8:Q:205:GLN:HE22	1.63	0.62
8:Q:233:GLU:OE2	8:Q:251:ARG:NE	2.33	0.62
10:S:307:ILE:HD12	10:S:347:LEU:HB3	1.82	0.62
4:D:329:PRO:HB2	11:T:68:TYR:HE2	1.64	0.61
7:G:105:SER:O	7:G:124:SER:OG	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:545:LEU:HA	8:H:548:PHE:HD2	1.65	0.61
9:I:824:ALA:O	9:I:827:ARG:HD3	1.99	0.61
9:I:854:ASP:OD1	9:I:855:ILE:N	2.32	0.61
4:M:418:ASN:ND2	4:M:543:GLU:OE1	2.25	0.61
5:N:255:ARG:NH1	5:N:299:GLY:O	2.33	0.61
9:R:679:VAL:HA	9:R:682:MET:HE3	1.81	0.61
10:S:264:LEU:H	10:S:376:SER:HB2	1.64	0.61
10:S:1079:ARG:HA	10:S:1082:ARG:NE	2.15	0.61
10:S:1648:LEU:HD21	10:S:1678:ILE:HG21	1.82	0.61
11:T:5:GLU:HG2	11:T:430:SER:HB2	1.82	0.61
3:C:296:SER:HB2	3:C:302:VAL:HG22	1.81	0.61
4:D:793:ASN:ND2	4:D:883:MET:O	2.33	0.61
6:F:722:ALA:HA	6:F:725:ILE:HG12	1.81	0.61
9:I:674:VAL:HA	9:I:677:ARG:HH11	1.65	0.61
9:I:888:TRP:HZ3	9:I:894:LYS:HZ1	1.48	0.61
9:I:993:PRO:HB2	9:I:996:LEU:HB2	1.83	0.61
1:J:97:GLN:O	1:J:101:VAL:HG22	2.00	0.61
1:J:115:GLU:O	1:J:118:THR:OG1	2.16	0.61
4:M:604:SER:OG	4:M:669:ARG:NH2	2.31	0.61
6:O:428:GLU:HG3	6:O:431:LEU:HD12	1.82	0.61
7:P:95:LYS:CE	7:P:98:GLU:HB2	2.29	0.61
8:Q:362:GLN:O	8:Q:365:ARG:N	2.33	0.61
9:R:275:CYS:SG	9:R:370:TYR:HA	2.40	0.61
9:R:871:ARG:HH12	9:R:875:LEU:HG	1.66	0.61
10:S:448:ARG:HH11	10:S:516:GLY:N	1.98	0.61
10:S:1140:LEU:HD11	10:S:1180:ILE:HB	1.81	0.61
10:S:1338:PHE:CE1	10:S:1422:GLY:HA3	2.34	0.61
10:S:1428:LEU:HD12	10:S:1431:ALA:HB3	1.82	0.61
12:U:33:LEU:O	12:U:37:GLN:HG2	2.00	0.61
12:U:169:GLU:OE2	12:U:487:ARG:NH2	2.33	0.61
4:D:1000:ARG:HB2	4:D:1023:ILE:HD11	1.82	0.61
4:D:1078:ASN:HB2	4:D:1081:GLU:HG2	1.81	0.61
5:E:11:TYR:HB2	5:E:321:PHE:HB2	1.80	0.61
5:E:272:TYR:HE2	5:E:275:LYS:HG2	1.63	0.61
7:G:192:LYS:HB3	7:G:194:TRP:CH2	2.35	0.61
7:G:284:LYS:HD3	7:G:303:ASN:HA	1.82	0.61
1:J:354:ASP:HB3	1:J:357:GLN:HG2	1.81	0.61
2:K:184:LEU:HD21	2:K:192:LEU:HD22	1.83	0.61
9:R:167:LEU:HD11	9:R:182:ILE:HG22	1.81	0.61
9:R:866:GLN:O	9:R:870:GLN:HG2	2.00	0.61
10:S:1609:PRO:O	10:S:1614:ARG:NH1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:224:SER:N	11:T:238:GLY:O	2.33	0.61
12:U:610:ILE:HG21	12:U:633:ALA:HB2	1.81	0.61
6:F:386:LEU:HB2	6:F:387:TRP:CE3	2.34	0.61
6:F:660:SER:O	6:F:664:GLN:NE2	2.21	0.61
6:F:724:TRP:HA	6:F:727:LYS:HD2	1.81	0.61
7:G:230:ILE:O	7:G:241:ILE:HA	1.99	0.61
9:I:572:GLU:HB2	11:T:575:ALA:HB1	1.83	0.61
1:J:266:HIS:HB3	1:J:272:PHE:HB2	1.82	0.61
9:R:567:GLU:HG2	9:R:572:GLU:HA	1.81	0.61
1:A:490:ARG:NE	1:A:490:ARG:HA	2.15	0.61
3:C:287:ASN:OD1	3:C:291:THR:N	2.29	0.61
4:D:1338:ARG:NH1	4:D:1339:LEU:HD22	2.15	0.61
9:I:1075:ASP:HA	9:R:578:ASN:O	1.99	0.61
1:J:489:ILE:HB	2:K:26:SER:HA	1.83	0.61
4:M:1143:GLN:HB3	4:M:1177:LEU:HD21	1.83	0.61
12:U:399:ASP:H	12:U:433:GLN:HE21	1.49	0.61
1:A:439:ARG:NH1	3:C:21:ASP:O	2.33	0.61
4:D:1065:ILE:HG21	4:D:1083:LEU:HD21	1.81	0.61
4:D:1380:LEU:HD13	6:F:246:PHE:HD1	1.65	0.61
6:F:341:PRO:HD2	6:F:720:LEU:HD23	1.83	0.61
6:F:607:LEU:HD22	6:F:615:LEU:HD22	1.80	0.61
7:G:67:HIS:CE1	7:G:113:PRO:HA	2.35	0.61
8:H:436:TRP:HB3	8:H:498:GLU:OE2	2.00	0.61
3:L:78:SER:OG	3:L:79:PHE:N	2.31	0.61
4:M:1040:LEU:HD22	4:M:1045:GLN:HB2	1.82	0.61
5:N:250:HIS:NE2	5:N:269:THR:O	2.33	0.61
6:O:475:SER:HB3	8:Q:390:GLU:HA	1.82	0.61
6:O:557:GLU:HA	6:O:560:PHE:CE2	2.34	0.61
8:Q:290:GLU:O	12:U:46:LYS:NZ	2.26	0.61
8:Q:644:HIS:HB3	8:Q:839:LEU:HG	1.83	0.61
9:R:499:GLN:NE2	9:R:503:ASP:OD2	2.33	0.61
1:A:27:TRP:HZ3	3:C:288:ILE:HG12	1.66	0.61
8:H:362:GLN:O	8:H:365:ARG:N	2.33	0.61
9:I:141:SER:OG	9:I:143:SER:OG	2.18	0.61
9:I:767:HIS:HA	9:I:770:ILE:HD12	1.83	0.61
1:J:299:MET:HE3	1:J:305:PHE:HB2	1.81	0.61
3:L:241:ALA:HB1	3:L:281:VAL:HG12	1.83	0.61
4:M:1351:GLU:O	4:M:1354:LEU:N	2.33	0.61
8:Q:678:GLU:HA	8:Q:681:LYS:HD2	1.83	0.61
10:S:896:ILE:HG21	10:S:917:LEU:HD21	1.82	0.61
12:U:242:THR:HB	12:U:246:ARG:HH21	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:ARG:CZ	1:A:605:ARG:HH12	2.14	0.61
1:A:565:ARG:HD2	1:A:572:TRP:HH2	1.66	0.61
1:A:599:MET:HA	1:A:602:LEU:HD12	1.83	0.61
4:D:116:GLU:OE2	4:D:185:SER:OG	2.17	0.61
5:E:191:ARG:NH1	5:E:192:PHE:O	2.34	0.61
6:F:240:MET:N	6:F:240:MET:SD	2.74	0.61
9:I:515:ARG:NH1	9:I:527:MET:SD	2.74	0.61
1:J:470:THR:OG1	3:L:69:GLU:OE2	2.19	0.61
4:M:1329:LYS:HG3	4:M:1330:ALA:N	2.15	0.61
9:R:570:PRO:HD3	9:R:677:ARG:HH12	1.66	0.61
9:R:803:GLN:O	9:R:807:ILE:HG12	2.01	0.61
10:S:255:LYS:HE2	10:S:319:PRO:HG2	1.82	0.61
10:S:1709:ARG:NH1	10:S:1944:MET:SD	2.74	0.61
12:U:114:ILE:HG13	12:U:118:ARG:HH12	1.65	0.61
1:A:73:ASN:ND2	2:B:243:ASP:OD1	2.34	0.61
5:E:50:ARG:HH12	5:E:64:LYS:HG2	1.65	0.61
6:F:759:VAL:HG13	6:F:763:LEU:HB2	1.83	0.61
9:I:689:LEU:O	9:I:693:GLU:HG3	2.00	0.61
2:K:184:LEU:HD22	2:K:220:VAL:HG21	1.82	0.61
3:L:254:ARG:C	3:L:255:LYS:HD2	2.21	0.61
8:Q:825:GLU:O	8:Q:834:SER:OG	2.18	0.61
9:R:1000:LYS:HG3	9:R:1018:LEU:HD22	1.81	0.61
10:S:908:GLU:HG2	10:S:909:LEU:H	1.66	0.61
12:U:599:ILE:O	12:U:603:THR:OG1	2.13	0.61
1:A:117:HIS:O	1:A:120:SER:N	2.34	0.61
1:A:360:LYS:O	1:A:364:ILE:HG12	2.01	0.61
2:B:372:ARG:HH11	2:B:373:LEU:H	1.47	0.61
3:C:272:ALA:HB1	3:C:274:PHE:CE2	2.35	0.61
3:C:277:HIS:HA	3:C:303:ARG:HH21	1.64	0.61
4:D:121:ILE:HD12	4:D:183:ILE:HG21	1.83	0.61
6:F:603:HIS:HA	6:F:606:LYS:HE2	1.83	0.61
7:G:35:ARG:CB	7:G:54:ARG:HH12	2.13	0.61
8:H:262:VAL:HG13	8:H:445:LYS:HZ1	1.65	0.61
8:H:628:LYS:NZ	8:H:678:GLU:HB3	2.16	0.61
4:M:312:SER:HB3	4:M:315:ASP:HB2	1.82	0.61
5:N:33:GLY:HA2	5:N:50:ARG:NE	2.15	0.61
9:R:438:GLY:HA2	9:R:456:ARG:HD3	1.82	0.61
10:S:304:ARG:NH1	10:S:305:GLN:OE1	2.33	0.61
11:T:508:LEU:O	11:T:512:ILE:HG12	2.00	0.61
1:A:137:LEU:HD23	1:A:140:MET:HE2	1.82	0.60
2:B:42:GLU:H	2:B:44:LYS:HE2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:170:SER:OG	2:B:171:THR:N	2.34	0.60
4:D:39:SER:N	4:D:598:ASP:OD1	2.34	0.60
6:F:401:ASN:HB3	6:F:404:VAL:HG23	1.82	0.60
7:G:14:ASP:OD2	7:G:33:SER:OG	2.12	0.60
8:H:210:THR:HG23	8:H:507:GLN:HG3	1.82	0.60
1:J:73:ASN:HB3	2:K:245:ARG:NH2	2.16	0.60
6:O:347:PRO:HA	6:O:643:ALA:HA	1.83	0.60
10:S:641:ALA:HB2	10:S:700:LEU:HD13	1.83	0.60
4:D:1358:ASP:HA	4:D:1361:LEU:HD12	1.82	0.60
6:F:372:VAL:HG12	6:F:626:PRO:HD3	1.84	0.60
6:F:538:HIS:HE1	6:F:556:TYR:CD1	2.19	0.60
4:M:1251:ARG:O	4:M:1254:GLN:NE2	2.35	0.60
5:N:147:HIS:HB2	5:N:164:LEU:HB2	1.83	0.60
6:O:373:VAL:HA	6:O:376:TRP:CE3	2.36	0.60
7:P:44:ASN:HB2	10:S:568:ARG:HH21	1.64	0.60
8:Q:732:ASP:HA	8:Q:735:ILE:HD12	1.82	0.60
10:S:327:ALA:HB1	10:S:360:ALA:HA	1.81	0.60
12:U:541:GLU:HB2	12:U:542:PRO:HD3	1.83	0.60
3:C:106:ARG:CZ	3:C:150:LEU:HB2	2.31	0.60
3:C:254:ARG:HE	3:C:255:LYS:N	1.99	0.60
4:D:1087:HIS:CE1	4:D:1099:VAL:HG21	2.36	0.60
5:E:274:GLY:HA2	5:E:298:VAL:HA	1.83	0.60
6:F:723:GLN:HG3	6:F:724:TRP:CD1	2.36	0.60
8:H:903:LEU:HD13	9:I:922:LEU:HD12	1.83	0.60
1:J:299:MET:HG3	1:J:300:THR:N	2.16	0.60
1:J:377:ASP:OD1	1:J:378:LEU:N	2.34	0.60
2:K:74:HIS:CD2	2:K:78:VAL:HG22	2.36	0.60
6:O:711:GLU:O	6:O:715:ILE:HG12	2.01	0.60
8:Q:177:ILE:HG23	8:Q:181:LYS:HE2	1.83	0.60
10:S:337:LEU:HD22	10:S:349:PHE:HB2	1.83	0.60
10:S:1103:GLU:OE1	10:S:1277:LYS:NZ	2.33	0.60
10:S:1321:LEU:HD23	10:S:1408:LYS:NZ	2.16	0.60
12:U:594:ARG:HH21	12:U:607:LYS:HE2	1.66	0.60
1:A:595:THR:HA	1:A:598:LEU:HD12	1.83	0.60
4:D:99:ARG:NH1	4:D:100:ASN:OD1	2.34	0.60
7:G:88:GLU:HB2	7:G:93:TRP:CD2	2.36	0.60
2:K:15:SER:HB3	2:K:38:TRP:HB3	1.83	0.60
4:M:340:THR:HG23	9:R:187:THR:HA	1.83	0.60
6:O:401:ASN:HB3	6:O:404:VAL:HG23	1.82	0.60
7:P:216:ASP:HB2	7:P:265:TRP:O	2.00	0.60
8:Q:413:LYS:HG2	8:Q:416:ARG:HH21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:331:LEU:HD11	10:S:396:PHE:HE1	1.67	0.60
10:S:653:SER:HB2	10:S:656:ILE:HB	1.82	0.60
12:U:723:LEU:HA	12:U:789:GLN:HB2	1.83	0.60
1:A:35:TYR:HA	1:A:55:TYR:CD2	2.37	0.60
1:A:449:LEU:O	1:A:453:ARG:NH1	2.35	0.60
8:H:413:LYS:HG2	8:H:416:ARG:HH21	1.67	0.60
9:I:902:PRO:HD2	9:I:905:GLN:NE2	2.16	0.60
9:I:1067:TRP:CE3	9:I:1124:PHE:HA	2.36	0.60
1:J:206:ARG:NH2	1:J:209:GLU:OE1	2.33	0.60
4:M:73:VAL:H	4:M:158:ASN:ND2	2.00	0.60
4:M:1121:VAL:HG22	4:M:1189:ALA:HB1	1.84	0.60
4:M:1365:HIS:HB2	4:M:1370:ILE:HB	1.82	0.60
6:O:664:GLN:HA	6:O:667:ASN:HD22	1.66	0.60
10:S:443:ILE:HB	10:S:513:MET:HE1	1.83	0.60
10:S:1089:PHE:O	10:S:1093:GLN:HG3	2.01	0.60
1:A:576:LEU:HD13	1:A:602:LEU:HD11	1.84	0.60
4:D:1365:HIS:CG	4:D:1372:ALA:H	2.18	0.60
6:F:432:TYR:HA	6:F:436:ARG:HE	1.64	0.60
3:L:196:LYS:H	3:L:218:VAL:HB	1.67	0.60
4:M:1189:ALA:HA	4:M:1192:ARG:HE	1.66	0.60
8:Q:657:GLU:OE1	8:Q:657:GLU:N	2.32	0.60
9:R:558:TYR:HE1	9:R:678:GLU:HA	1.66	0.60
10:S:567:ARG:HH22	10:S:633:CYS:HB2	1.66	0.60
10:S:774:GLU:HA	10:S:856:LYS:HZ2	1.66	0.60
10:S:1711:GLN:NE2	10:S:1762:TYR:OH	2.35	0.60
12:U:88:GLU:H	12:U:92:PRO:HD3	1.67	0.60
12:U:262:TYR:O	12:U:265:GLN:HG2	2.01	0.60
4:D:1289:ARG:HE	4:D:1292:ILE:HD12	1.66	0.60
6:F:373:VAL:HA	6:F:376:TRP:CE3	2.36	0.60
8:H:242:LYS:NZ	8:H:375:TYR:O	2.26	0.60
3:L:83:ALA:O	3:L:108:THR:HA	2.01	0.60
3:L:248:PHE:CE1	3:L:270:THR:HG23	2.34	0.60
4:M:101:ARG:HG2	4:M:118:SER:HB2	1.81	0.60
4:M:257:LEU:HD22	4:M:311:TRP:HB3	1.82	0.60
6:O:538:HIS:HE1	6:O:556:TYR:CD1	2.19	0.60
7:P:156:VAL:HG13	7:P:184:SER:HB3	1.83	0.60
8:Q:181:LYS:HD3	8:Q:201:LEU:HD11	1.84	0.60
8:Q:355:ARG:HH22	8:Q:358:LYS:HZ2	1.50	0.60
8:Q:530:LYS:HE3	8:Q:570:ARG:HE	1.66	0.60
10:S:702:ARG:O	10:S:706:GLN:NE2	2.35	0.60
10:S:1331:PRO:HG3	10:S:1415:ARG:HH22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:585:GLY:HA2	4:D:588:LEU:HD13	1.84	0.60
6:F:323:LEU:HG	6:F:358:TRP:CE2	2.36	0.60
6:F:575:PRO:CG	6:F:597:GLN:NE2	2.64	0.60
1:J:503:ARG:HD2	1:J:506:LYS:NZ	2.16	0.60
3:L:301:THR:OG1	3:L:303:ARG:NH2	2.31	0.60
4:M:257:LEU:HD23	4:M:316:GLN:HA	1.83	0.60
4:M:1100:MET:O	4:M:1123:SER:HB3	2.01	0.60
4:M:1310:ILE:HA	4:M:1313:LEU:HD12	1.84	0.60
8:Q:177:ILE:HG12	8:Q:205:GLN:HE21	1.67	0.60
8:Q:262:VAL:HG13	8:Q:445:LYS:HZ1	1.65	0.60
8:Q:694:LYS:HE2	12:U:811:ARG:HG3	1.83	0.60
10:S:366:PHE:HE2	10:S:435:ASP:HB3	1.65	0.60
10:S:1087:PHE:O	10:S:1091:GLN:HG3	2.02	0.60
10:S:1306:GLN:O	10:S:1310:ARG:NE	2.32	0.60
10:S:1325:ALA:HB3	10:S:1329:LEU:HD23	1.83	0.60
12:U:285:GLY:H	12:U:287:VAL:HG23	1.66	0.60
1:A:133:GLN:HA	1:A:136:ILE:HG12	1.83	0.60
6:F:328:GLU:HG3	6:F:355:TYR:OH	1.98	0.60
6:F:553:LEU:HD13	6:F:605:LEU:HB3	1.82	0.60
6:F:733:SER:HB2	6:F:742:GLU:HG3	1.84	0.60
1:J:368:ASN:HB2	1:J:370:TRP:CZ3	2.37	0.60
4:M:304:GLN:HA	4:M:338:ALA:HB1	1.81	0.60
4:M:1217:LEU:HD21	10:S:613:LEU:HD13	1.84	0.60
7:P:211:SER:H	7:P:238:ARG:NH2	1.98	0.60
8:Q:201:LEU:CD1	8:Q:205:GLN:HE22	2.14	0.60
8:Q:303:SER:OG	12:U:107:ASP:OD2	2.09	0.60
9:R:306:LEU:HD13	9:R:363:VAL:HG11	1.81	0.60
9:R:983:GLU:HA	9:R:986:LEU:HD12	1.84	0.60
10:S:1282:GLU:HG3	10:S:1332:ILE:HD11	1.83	0.60
11:T:633:LEU:HB3	11:T:655:GLN:HE21	1.65	0.60
1:A:19:GLN:OE1	3:C:6:SER:N	2.35	0.60
2:B:117:GLU:O	2:B:128:ARG:NH2	2.34	0.60
3:C:191:PRO:HA	3:C:219:SER:HB2	1.82	0.60
7:G:196:GLU:HB2	7:G:201:TRP:CE2	2.37	0.60
8:H:788:MET:HG3	2:K:55:ALA:N	2.17	0.60
9:I:99:MET:HE2	9:I:113:CYS:HA	1.84	0.60
3:L:245:VAL:HB	3:L:274:PHE:O	2.01	0.60
5:N:273:PRO:HB3	5:N:278:SER:HB3	1.84	0.60
6:O:343:PHE:O	6:O:680:HIS:HA	2.02	0.60
7:P:67:HIS:CD2	7:P:69:MET:H	2.20	0.60
8:Q:217:LEU:HD22	8:Q:218:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:536:HIS:CE1	8:Q:537:LEU:HD12	2.36	0.60
9:R:812:ASN:HB3	9:R:815:ARG:NE	2.17	0.60
10:S:1305:ARG:NH1	10:S:1306:GLN:OE1	2.34	0.60
10:S:1489:ASP:OD1	10:S:1490:ILE:N	2.34	0.60
12:U:552:PHE:HZ	12:U:574:LEU:HG	1.66	0.60
1:A:145:ASN:O	1:A:149:ILE:HG12	2.02	0.59
1:A:309:ARG:HH11	1:A:329:SER:HB2	1.67	0.59
4:D:953:GLU:O	4:D:960:GLN:NE2	2.34	0.59
6:F:499:GLN:OE1	6:F:499:GLN:N	2.35	0.59
7:G:66:ALA:HB3	7:G:73:ILE:HB	1.82	0.59
2:K:210:VAL:HA	2:K:250:PRO:HG3	1.82	0.59
6:O:499:GLN:N	6:O:499:GLN:OE1	2.35	0.59
10:S:279:LEU:HD11	10:S:336:ALA:HB2	1.84	0.59
11:T:727:ILE:HB	11:T:734:ILE:HG21	1.84	0.59
1:A:149:ILE:HB	1:A:163:LEU:HD13	1.84	0.59
1:A:345:ASN:HA	1:A:348:LEU:HD12	1.84	0.59
1:A:580:LEU:HB3	1:A:581:PRO:HD3	1.83	0.59
4:D:147:THR:OG1	4:D:150:ASN:O	2.15	0.59
4:D:472:ILE:HG12	4:D:476:GLN:HE22	1.67	0.59
4:D:1320:LEU:HD12	4:D:1324:LEU:HD23	1.83	0.59
6:F:290:LYS:O	7:G:47:GLN:NE2	2.35	0.59
9:I:156:THR:HA	9:I:207:LYS:HA	1.84	0.59
3:L:172:PRO:HB2	3:L:230:ASN:HB2	1.84	0.59
4:M:1121:VAL:HG21	4:M:1193:LEU:HD12	1.84	0.59
7:P:257:LEU:HA	7:P:296:TRP:CD1	2.37	0.59
8:Q:344:LEU:O	8:Q:349:MET:N	2.24	0.59
10:S:379:PHE:HZ	10:S:389:ILE:HD13	1.66	0.59
10:S:602:CYS:SG	10:S:645:LYS:NZ	2.75	0.59
10:S:764:ASP:OD1	10:S:765:VAL:N	2.35	0.59
10:S:1099:VAL:HG11	10:S:1105:SER:HB3	1.85	0.59
10:S:1781:PHE:HD2	10:S:1811:LEU:HD23	1.67	0.59
4:D:469:ARG:HH12	4:D:535:TYR:HE1	1.49	0.59
4:D:888:TYR:O	4:D:891:LEU:HB3	2.01	0.59
5:E:282:ILE:HB	5:E:292:LEU:HB3	1.82	0.59
8:H:507:GLN:O	8:H:511:ILE:HD12	2.03	0.59
4:M:95:LEU:H	4:M:849:HIS:CD2	2.20	0.59
4:M:197:ASP:O	4:M:200:ASN:N	2.35	0.59
4:M:1239:THR:HA	4:M:1242:PHE:HD2	1.67	0.59
6:O:476:GLN:NE2	6:O:480:ASP:OD1	2.35	0.59
6:O:795:TRP:CE3	6:O:799:GLY:HA3	2.37	0.59
6:O:796:GLU:OE1	6:O:796:GLU:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:575:LYS:HD2	8:Q:576:GLN:N	2.17	0.59
9:R:212:ILE:HD12	9:R:236:LEU:HD11	1.84	0.59
9:R:361:THR:HG22	9:R:380:VAL:HA	1.85	0.59
10:S:434:ARG:HB3	10:S:437:GLU:HB3	1.84	0.59
10:S:1013:SER:HA	10:S:1079:ARG:HH21	1.67	0.59
10:S:1138:HIS:O	10:S:1142:ASP:N	2.35	0.59
10:S:1985:TYR:O	10:S:1987:LYS:NZ	2.31	0.59
1:A:558:LEU:HD11	1:A:575:LEU:HD21	1.84	0.59
6:F:476:GLN:NE2	6:F:480:ASP:OD1	2.35	0.59
6:F:694:LEU:O	6:F:698:HIS:ND1	2.27	0.59
6:F:705:PRO:HA	6:F:708:LEU:HD12	1.85	0.59
6:F:793:GLN:HG3	8:Q:491:ASP:H	1.68	0.59
7:G:218:ALA:HB1	7:G:269:TRP:NE1	2.17	0.59
8:H:214:ILE:HG22	8:H:510:VAL:HG11	1.85	0.59
1:J:103:ARG:HA	1:J:106:ARG:HG2	1.84	0.59
4:M:839:LEU:HD13	4:M:860:ARG:HG2	1.84	0.59
6:O:493:GLN:HB3	6:O:496:HIS:CE1	2.37	0.59
7:P:39:ILE:HB	7:P:51:ALA:O	2.01	0.59
10:S:379:PHE:CZ	10:S:389:ILE:HD13	2.38	0.59
10:S:612:ARG:CZ	10:S:652:LYS:HE2	2.32	0.59
10:S:784:TYR:HA	10:S:792:ARG:O	2.01	0.59
1:A:409:PHE:HA	1:A:415:TRP:HB3	1.84	0.59
1:A:432:TYR:HB3	1:A:436:HIS:HE1	1.67	0.59
2:B:181:THR:HG22	2:B:197:LEU:HD22	1.83	0.59
3:C:202:TYR:HB2	3:C:209:TYR:CE1	2.37	0.59
4:D:1224:PHE:HD2	4:D:1241:ILE:HG23	1.67	0.59
6:F:900:MET:HG3	6:F:905:ALA:HB2	1.85	0.59
8:H:613:LEU:HD22	8:H:623:VAL:HG13	1.84	0.59
8:H:788:MET:HG3	2:K:55:ALA:H	1.67	0.59
8:H:892:LEU:HD13	9:I:925:LEU:HD11	1.84	0.59
9:I:622:THR:HA	9:I:625:LEU:HD12	1.83	0.59
9:I:865:ASN:OD1	9:I:867:SER:OG	2.20	0.59
9:I:1014:GLN:OE1	9:I:1017:GLN:NE2	2.34	0.59
1:J:516:ASP:H	2:K:106:ASN:HA	1.67	0.59
1:J:603:GLU:OE1	1:J:603:GLU:N	2.30	0.59
2:K:359:VAL:HG23	2:K:369:VAL:HG22	1.83	0.59
3:L:16:HIS:CE1	3:L:61:TRP:HA	2.37	0.59
3:L:61:TRP:HB3	3:L:62:ARG:HD3	1.84	0.59
3:L:169:SER:HG	3:L:227:PHE:HD1	1.50	0.59
3:L:195:GLY:HA2	3:L:218:VAL:HB	1.84	0.59
4:M:330:VAL:HG13	4:M:335:ARG:HH22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1066:GLU:HB2	4:M:1070:ARG:HH12	1.68	0.59
4:M:1403:HIS:O	4:M:1407:ILE:HG12	2.01	0.59
5:N:86:CYS:HA	5:N:91:PRO:HB3	1.84	0.59
8:Q:218:TYR:O	8:Q:222:ILE:HG12	2.01	0.59
8:Q:338:LEU:O	8:Q:342:PHE:CB	2.51	0.59
9:R:337:GLN:NE2	9:R:367:ASP:OD2	2.36	0.59
9:R:623:ARG:HB2	9:R:736:TYR:HB3	1.83	0.59
10:S:1968:ASN:OD1	10:S:1969:SER:N	2.36	0.59
1:A:148:GLU:HG3	1:A:152:ILE:HG13	1.85	0.59
8:H:436:TRP:CH2	8:H:504:HIS:CD2	2.90	0.59
8:H:916:SER:HB2	5:N:326:MET:HG3	1.83	0.59
3:L:195:GLY:N	3:L:218:VAL:O	2.25	0.59
4:M:519:SER:HB2	4:M:522:GLU:HG3	1.85	0.59
4:M:1188:LEU:O	4:M:1192:ARG:HG3	2.02	0.59
7:P:151:ILE:HG22	7:P:152:GLY:H	1.67	0.59
8:Q:548:PHE:CD1	8:Q:553:LEU:HD22	2.37	0.59
8:Q:732:ASP:HB3	8:Q:736:ARG:HH12	1.68	0.59
9:R:562:ASP:HB2	9:R:565:TRP:CD1	2.37	0.59
10:S:1227:VAL:HG13	10:S:1228:LYS:HD3	1.84	0.59
10:S:1484:ALA:O	10:S:1492:ARG:NE	2.34	0.59
11:T:7:GLN:NE2	11:T:496:GLU:OE1	2.34	0.59
1:A:68:LEU:HD12	1:A:72:PHE:HE2	1.67	0.59
1:A:490:ARG:HG2	1:A:490:ARG:HH11	1.67	0.59
2:B:240:CYS:HB3	2:B:242:TRP:CZ2	2.38	0.59
3:C:254:ARG:HB3	3:C:265:LYS:HB2	1.84	0.59
6:F:493:GLN:HB3	6:F:496:HIS:CE1	2.37	0.59
6:F:612:GLN:CG	12:U:186:ALA:HB3	2.33	0.59
7:G:184:SER:N	7:G:194:TRP:HZ3	2.00	0.59
8:H:162:VAL:O	8:H:166:ILE:HG12	2.03	0.59
1:J:25:PHE:HA	1:J:33:LEU:O	2.03	0.59
4:M:165:ILE:O	4:M:194:ASN:ND2	2.36	0.59
4:M:628:MET:SD	4:M:645:ILE:HG13	2.43	0.59
4:M:662:GLN:HG2	4:M:742:LEU:HD22	1.84	0.59
7:P:38:LYS:HB3	7:P:40:PHE:CE2	2.38	0.59
7:P:131:ILE:HG23	7:P:143:LYS:HE2	1.85	0.59
10:S:1137:LEU:HD11	10:S:1295:CYS:HB3	1.83	0.59
11:T:805:SER:HB3	11:T:834:SER:H	1.67	0.59
1:A:72:PHE:HE1	1:A:370:TRP:HB2	1.67	0.59
1:A:279:GLU:HG3	1:A:283:ARG:HH22	1.68	0.59
4:D:44:ARG:NH1	4:D:574:CYS:O	2.36	0.59
5:E:260:SER:HA	5:E:304:TRP:CD2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:540:TRP:HE3	6:F:541:TYR:CE2	2.20	0.59
9:I:220:LEU:HD12	9:I:236:LEU:HD22	1.84	0.59
9:I:886:PHE:HE1	9:I:901:GLN:HG3	1.68	0.59
1:J:218:ALA:HB1	1:J:225:ARG:HG3	1.85	0.59
3:L:126:MET:SD	3:L:126:MET:N	2.75	0.59
3:L:280:GLN:HB2	3:L:298:ASP:HB2	1.85	0.59
4:M:227:ALA:HB3	4:M:243:MET:HB2	1.85	0.59
4:M:372:PHE:HB3	4:M:384:LEU:HB3	1.85	0.59
6:O:736:ASP:OD1	7:P:24:TYR:OH	2.15	0.59
8:Q:172:THR:O	8:Q:175:THR:OG1	2.15	0.59
8:Q:587:LEU:HB2	8:Q:592:ALA:HB2	1.83	0.59
8:Q:605:ASP:HB3	8:Q:608:GLN:OE1	2.03	0.59
8:Q:874:SER:CA	8:Q:879:LEU:O	2.50	0.59
9:R:567:GLU:CD	9:R:573:ALA:H	2.05	0.59
10:S:436:LEU:O	10:S:440:LEU:HG	2.02	0.59
10:S:1724:SER:HB3	10:S:1728:ARG:HH12	1.67	0.59
2:B:162:ARG:NH1	2:B:163:THR:O	2.36	0.59
4:D:740:LEU:HB2	4:D:757:GLN:HG2	1.83	0.59
4:D:810:ARG:NH1	4:D:811:ARG:O	2.35	0.59
4:D:940:GLU:O	4:D:943:LEU:N	2.35	0.59
6:F:387:TRP:CB	6:F:644:LEU:HD11	2.31	0.59
7:P:67:HIS:CD2	7:P:69:MET:HG2	2.38	0.59
10:S:1035:ASP:HA	10:S:1038:ARG:HG2	1.84	0.59
1:A:594:GLN:HA	1:A:597:GLU:CD	2.23	0.59
2:B:178:LEU:O	2:B:227:GLN:NE2	2.36	0.59
3:C:306:LYS:O	3:C:313:TRP:HA	2.02	0.59
4:D:1184:LYS:NZ	4:D:1233:THR:O	2.21	0.59
5:E:204:LEU:HD21	5:E:237:MET:HE1	1.85	0.59
1:J:79:PHE:CD1	1:J:374:HIS:CE1	2.90	0.59
3:L:62:ARG:HB2	3:L:77:CYS:SG	2.43	0.59
3:L:184:VAL:O	3:L:197:VAL:HA	2.03	0.59
4:M:845:SER:HB3	4:M:850:ARG:HA	1.84	0.59
4:M:1070:ARG:HD3	4:M:1106:ARG:HH22	1.68	0.59
7:P:83:VAL:N	7:P:98:GLU:OE2	2.31	0.59
8:Q:733:ASN:OD1	8:Q:736:ARG:NH2	2.33	0.59
10:S:1088:LEU:HA	10:S:1091:GLN:HE21	1.68	0.59
10:S:1629:ILE:O	10:S:1633:SER:HB3	2.02	0.59
11:T:885:ARG:HH22	11:T:917:MET:HB2	1.68	0.59
3:C:83:ALA:O	3:C:108:THR:HA	2.03	0.58
4:D:244:PRO:HB2	4:D:248:MET:HG3	1.83	0.58
4:D:530:ASN:HA	4:D:533:LYS:HD2	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1141:ILE:HD11	4:D:1177:LEU:HD12	1.84	0.58
6:F:540:TRP:HA	6:F:545:PRO:HB3	1.85	0.58
7:G:54:ARG:HG3	7:G:55:GLY:N	2.18	0.58
2:K:4:LYS:HD3	2:K:372:ARG:HD2	1.85	0.58
4:M:348:TYR:HD1	4:M:355:LEU:HB2	1.67	0.58
4:M:547:ARG:HD2	9:R:134:LYS:HA	1.85	0.58
6:O:464:ARG:HD3	8:Q:316:PRO:HG2	1.85	0.58
8:Q:651:LEU:HD13	12:U:704:HIS:HA	1.85	0.58
9:R:167:LEU:HB2	9:R:179:TRP:HB2	1.85	0.58
10:S:1076:PRO:HA	10:S:1079:ARG:HG2	1.85	0.58
12:U:546:ARG:HA	12:U:549:LEU:HD12	1.85	0.58
1:A:304:HIS:HA	1:A:307:VAL:HG22	1.83	0.58
1:A:631:GLU:HG3	1:A:634:ARG:HH12	1.68	0.58
2:B:16:ARG:NE	2:B:79:MET:O	2.34	0.58
2:B:215:VAL:HG11	2:B:236:ASP:HB3	1.84	0.58
3:C:21:ASP:HB2	3:C:26:ARG:HB2	1.85	0.58
4:D:180:ASP:HB2	4:D:809:LYS:HE3	1.85	0.58
5:E:128:ASN:ND2	5:E:168:GLY:O	2.29	0.58
6:F:295:LYS:HE3	6:F:302:PHE:HD2	1.67	0.58
6:F:739:LYS:HA	6:F:742:GLU:OE1	2.03	0.58
6:F:913:THR:O	6:F:917:LEU:HG	2.03	0.58
7:G:125:SER:HA	7:G:153:CYS:H	1.68	0.58
1:J:630:VAL:O	1:J:634:ARG:HG2	2.04	0.58
4:M:416:ASP:OD2	9:R:163:GLN:HA	2.03	0.58
5:N:145:ASP:HA	5:N:167:PRO:HB3	1.85	0.58
5:N:208:GLN:NE2	5:N:209:VAL:O	2.36	0.58
5:N:215:ASP:OD2	5:N:259:TRP:N	2.36	0.58
6:O:540:TRP:HE3	6:O:541:TYR:CE2	2.21	0.58
8:Q:298:GLN:HA	8:Q:301:MET:HB3	1.86	0.58
9:R:689:LEU:HA	9:R:692:LYS:HE3	1.84	0.58
9:R:992:LEU:HD11	9:R:1015:LEU:HD22	1.85	0.58
11:T:452:SER:HB2	11:T:476:ASP:H	1.67	0.58
12:U:641:GLU:HB3	12:U:645:LYS:HZ1	1.68	0.58
1:A:69:ARG:HG3	1:A:70:LYS:N	2.17	0.58
1:A:82:LEU:O	1:A:85:SER:OG	2.18	0.58
2:B:86:LYS:HD2	2:B:87:GLU:HG3	1.84	0.58
5:E:25:ASN:HD21	5:E:34:SER:HA	1.68	0.58
7:G:88:GLU:HA	7:G:93:TRP:HA	1.85	0.58
8:H:254:LEU:HA	8:H:257:GLN:NE2	2.19	0.58
1:J:10:GLU:HB2	1:J:57:VAL:HG13	1.85	0.58
1:J:469:LYS:HG3	1:J:496:PHE:HE2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:625:ILE:HG22	1:J:629:LYS:HZ3	1.67	0.58
2:K:190:GLY:HA2	2:K:217:LEU:HG	1.84	0.58
4:M:373:GLN:HB2	4:M:385:GLU:HG3	1.85	0.58
6:O:531:TRP:O	6:O:534:THR:OG1	2.18	0.58
8:Q:201:LEU:HD12	8:Q:204:LEU:HD23	1.85	0.58
8:Q:331:ARG:O	8:Q:334:ASP:HB2	2.03	0.58
10:S:1828:TYR:HA	10:S:1831:ILE:HG22	1.84	0.58
1:A:27:TRP:CZ3	3:C:288:ILE:HG12	2.37	0.58
4:D:1062:VAL:HA	4:D:1065:ILE:HG22	1.85	0.58
6:F:248:GLY:HA2	7:G:265:TRP:CZ2	2.39	0.58
6:F:259:TRP:CD2	7:G:272:THR:HG21	2.38	0.58
8:H:672:ASP:O	8:H:676:ARG:NH1	2.37	0.58
1:J:600:ARG:NH2	4:M:1125:LEU:HD22	2.17	0.58
3:L:227:PHE:HD2	3:L:236:HIS:CE1	2.22	0.58
4:M:1289:ARG:HE	4:M:1292:ILE:HD12	1.68	0.58
6:O:540:TRP:HA	6:O:545:PRO:HB3	1.85	0.58
6:O:766:ASP:O	6:O:770:ASN:ND2	2.36	0.58
7:P:97:TYR:HB2	7:P:140:TRP:CZ2	2.38	0.58
8:Q:869:ALA:HB1	8:Q:895:LEU:HD11	1.85	0.58
8:Q:871:ILE:HG23	8:Q:871:ILE:O	2.03	0.58
10:S:1104:ILE:O	10:S:1108:ASN:ND2	2.37	0.58
10:S:1851:LYS:HD3	10:S:1862:ALA:HA	1.86	0.58
1:A:73:ASN:O	1:A:76:HIS:HB3	2.03	0.58
1:A:148:GLU:HA	1:A:152:ILE:HG12	1.85	0.58
2:B:14:ILE:HD13	2:B:362:THR:H	1.67	0.58
4:D:665:LEU:HD13	4:D:739:LEU:HD13	1.85	0.58
4:D:1084:TYR:O	4:D:1088:ILE:HG13	2.03	0.58
5:E:261:LYS:HB2	5:E:305:HIS:O	2.04	0.58
6:F:600:VAL:CG2	6:F:623:SER:CB	2.78	0.58
8:H:398:TRP:CE3	8:H:399:LYS:HD3	2.38	0.58
8:H:903:LEU:HD23	9:I:895:ARG:NH1	2.19	0.58
1:J:309:ARG:NH1	1:J:329:SER:OG	2.33	0.58
1:J:595:THR:HA	1:J:598:LEU:HD12	1.86	0.58
7:P:110:CYS:SG	7:P:158:TRP:NE1	2.72	0.58
8:Q:868:LEU:HA	8:Q:871:ILE:CG2	2.33	0.58
10:S:1250:ARG:HA	10:S:1253:LEU:HD12	1.85	0.58
12:U:282:ALA:HB2	12:U:300:ILE:HD11	1.84	0.58
3:C:169:SER:HB2	3:C:227:PHE:CD2	2.39	0.58
3:C:242:THR:N	3:C:246:ARG:HH22	2.02	0.58
6:F:328:GLU:CD	6:F:355:TYR:HH	2.02	0.58
6:F:787:GLU:OE1	6:F:787:GLU:N	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:631:GLU:HA	1:J:634:ARG:HE	1.68	0.58
2:K:250:PRO:HG2	2:K:253:LEU:HD11	1.85	0.58
4:M:717:ALA:O	4:M:721:ILE:HG12	2.04	0.58
4:M:1199:ASN:OD1	4:M:1201:SER:OG	2.21	0.58
4:M:1311:ASN:OD1	4:M:1312:LYS:N	2.36	0.58
6:O:462:ASP:HB3	6:O:465:LEU:HD12	1.86	0.58
8:Q:254:LEU:HA	8:Q:257:GLN:NE2	2.19	0.58
9:R:207:LYS:O	9:R:222:ARG:NH2	2.37	0.58
9:R:1058:LEU:HD22	9:R:1085:PHE:HE1	1.68	0.58
10:S:53:LEU:HD11	10:S:146:LEU:HD22	1.86	0.58
10:S:1629:ILE:O	10:S:1633:SER:CB	2.51	0.58
11:T:858:LEU:HD22	11:T:884:ASN:HB3	1.86	0.58
1:A:111:ALA:HA	1:A:114:GLU:CD	2.24	0.58
1:A:487:TRP:CE2	2:B:26:SER:HB2	2.39	0.58
1:A:629:LYS:O	1:A:633:LEU:HG	2.03	0.58
3:C:62:ARG:NH2	3:C:117:THR:O	2.31	0.58
3:C:223:HIS:HE1	3:C:280:GLN:HB2	1.68	0.58
5:E:67:LYS:NZ	5:E:68:THR:O	2.30	0.58
6:F:573:PRO:HB2	6:F:599:ASP:CB	2.28	0.58
7:G:195:ARG:HD2	7:G:204:ASP:OD1	2.04	0.58
8:H:147:TYR:HE1	8:H:539:ARG:HG3	1.69	0.58
9:I:794:ASN:OD1	9:I:795:TYR:N	2.37	0.58
1:J:179:VAL:HG21	1:J:201:TYR:CZ	2.38	0.58
4:M:1352:LEU:HA	4:M:1355:GLU:OE2	2.03	0.58
4:M:1357:VAL:HA	4:M:1360:LEU:HD12	1.85	0.58
8:Q:170:GLU:OE1	8:Q:212:ARG:NH1	2.37	0.58
8:Q:842:ARG:HA	8:Q:882:VAL:HB	1.84	0.58
10:S:618:HIS:HE1	10:S:620:GLN:HB2	1.69	0.58
10:S:970:GLN:O	10:S:973:GLN:HG2	2.03	0.58
10:S:1273:CYS:HB3	10:S:1277:LYS:NZ	2.18	0.58
11:T:594:GLN:O	11:T:598:ARG:HG2	2.03	0.58
4:D:151:ILE:HD11	4:D:169:PRO:HD3	1.84	0.58
7:G:246:ASP:OD2	7:G:249:THR:N	2.33	0.58
8:H:338:LEU:O	8:H:342:PHE:CB	2.51	0.58
8:H:779:HIS:HA	8:H:782:LYS:HE3	1.86	0.58
9:I:342:LEU:HG	9:I:365:VAL:HB	1.86	0.58
4:M:1314:LEU:O	10:S:719:ASN:ND2	2.37	0.58
7:P:289:LYS:HD3	7:P:299:ILE:HD13	1.86	0.58
9:R:1013:PHE:HA	9:R:1016:ILE:HD12	1.84	0.58
10:S:618:HIS:CE1	10:S:620:GLN:HB2	2.38	0.58
10:S:627:ILE:HG12	10:S:643:LEU:HD22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1007:GLU:HB2	10:S:1015:THR:HG21	1.86	0.58
6:F:848:LYS:HZ3	6:F:851:LEU:HB3	1.68	0.58
4:M:474:ALA:HB2	4:M:541:TYR:HD2	1.68	0.58
6:O:478:VAL:O	6:O:482:ILE:HG12	2.03	0.58
9:R:899:LEU:HD21	9:R:919:LEU:HB3	1.85	0.58
10:S:804:HIS:NE2	10:S:872:ILE:O	2.37	0.58
10:S:1309:ILE:O	10:S:1313:LEU:HG	2.03	0.58
2:B:283:LEU:O	2:B:339:ASN:HA	2.04	0.58
4:D:285:PRO:HB3	4:D:301:ALA:HB1	1.85	0.58
4:D:1043:ARG:HB3	4:D:1045:GLN:HE22	1.68	0.58
4:D:1180:ARG:NH2	4:D:1183:GLU:HG3	2.19	0.58
8:H:132:MET:HG2	8:H:138:PRO:HG3	1.86	0.58
8:H:779:HIS:O	8:H:783:GLU:HG2	2.03	0.58
8:H:872:VAL:HA	8:H:879:LEU:HD12	1.84	0.58
8:H:902:LEU:HA	8:H:905:LEU:HD12	1.86	0.58
1:J:444:THR:HG22	1:J:446:LYS:HG3	1.84	0.58
8:Q:204:LEU:O	8:Q:207:GLU:HG3	2.04	0.58
9:R:615:THR:N	9:R:618:MET:O	2.35	0.58
10:S:628:LEU:HD22	10:S:667:THR:HG21	1.86	0.58
10:S:767:TYR:HA	10:S:849:LEU:HD13	1.85	0.58
10:S:1321:LEU:HD23	10:S:1408:LYS:HZ1	1.69	0.58
10:S:1433:ARG:NH2	10:S:1448:TRP:O	2.35	0.58
12:U:464:PHE:CE1	12:U:476:ALA:HB1	2.39	0.58
12:U:816:GLU:OE2	12:U:820:ASN:ND2	2.37	0.58
5:E:190:ILE:HB	5:E:204:LEU:HB2	1.86	0.57
8:H:625:SER:O	8:H:629:THR:HG23	2.04	0.57
8:H:763:GLN:NE2	8:H:790:PHE:HA	2.19	0.57
1:J:448:ALA:O	1:J:452:LEU:HG	2.04	0.57
1:J:599:MET:HA	1:J:602:LEU:HD12	1.86	0.57
2:K:122:HIS:ND1	2:K:147:ASP:O	2.37	0.57
2:K:286:TRP:CD1	2:K:337:ILE:HA	2.39	0.57
3:L:255:LYS:HE3	3:L:265:LYS:H	1.69	0.57
4:M:137:ILE:HA	4:M:157:THR:HG22	1.86	0.57
4:M:1321:PRO:HG2	4:M:1324:LEU:HB3	1.85	0.57
8:Q:815:VAL:HG12	8:Q:815:VAL:O	2.02	0.57
9:R:562:ASP:HB3	9:R:563:PRO:HD2	1.86	0.57
10:S:440:LEU:HD12	10:S:509:PRO:HB2	1.86	0.57
10:S:570:LEU:HB3	10:S:571:PRO:HD2	1.86	0.57
10:S:1390:ILE:HD12	10:S:1395:LEU:HD11	1.85	0.57
10:S:1396:HIS:CE1	10:S:1400:ARG:HH11	2.22	0.57
11:T:405:TRP:HD1	11:T:425:TYR:HB2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:372:LEU:HD11	12:U:392:TYR:HE1	1.69	0.57
12:U:648:SER:OG	12:U:741:GLU:OE1	2.15	0.57
2:B:268:PRO:HD3	2:B:353:VAL:HG13	1.86	0.57
3:C:149:ASN:HB3	3:C:152:GLN:NE2	2.19	0.57
3:C:197:VAL:HB	3:C:215:LEU:HD13	1.85	0.57
4:D:628:MET:HG2	4:D:641:VAL:HG11	1.85	0.57
8:H:694:LYS:HA	8:H:696:HIS:CE1	2.38	0.57
1:J:296:ARG:HA	1:J:299:MET:SD	2.44	0.57
3:L:161:CYS:O	3:L:162:LYS:HG2	2.04	0.57
4:M:672:ILE:HD13	4:M:752:GLN:HE22	1.68	0.57
8:Q:213:LEU:HD13	8:Q:507:GLN:HB3	1.86	0.57
8:Q:760:SER:O	8:Q:793:TRP:NE1	2.37	0.57
9:R:1028:ASN:H	9:R:1031:ASP:HB2	1.69	0.57
10:S:783:GLN:HE22	10:S:795:PHE:HA	1.68	0.57
11:T:509:ASN:HB3	11:T:573:ARG:HD2	1.87	0.57
12:U:585:LEU:HD13	12:U:610:ILE:HG12	1.86	0.57
3:C:271:VAL:HB	3:C:313:TRP:CZ3	2.39	0.57
4:D:946:LEU:HD12	4:D:964:ARG:HG2	1.85	0.57
4:D:1328:TYR:OH	4:D:1335:GLU:OE1	2.19	0.57
6:F:903:ASP:OD1	6:F:904:TYR:N	2.32	0.57
9:I:1126:PHE:CE2	9:R:577:SER:HB3	2.38	0.57
2:K:112:VAL:HG11	2:K:115:ARG:HE	1.68	0.57
2:K:118:GLN:HA	2:K:128:ARG:HH22	1.67	0.57
2:K:242:TRP:HA	2:K:251:MET:SD	2.44	0.57
4:M:913:LEU:HG	4:M:917:TYR:CE2	2.39	0.57
8:Q:355:ARG:HB2	12:U:29:VAL:HG12	1.85	0.57
8:Q:398:TRP:CE3	8:Q:399:LYS:HD3	2.38	0.57
12:U:11:GLN:NE2	12:U:14:GLU:OE1	2.37	0.57
12:U:480:LEU:O	12:U:486:THR:OG1	2.21	0.57
1:A:126:THR:HG23	1:A:129:LYS:HE3	1.85	0.57
1:A:182:VAL:HA	1:A:191:HIS:CD2	2.39	0.57
2:B:19:TRP:CE3	2:B:30:PRO:HD2	2.39	0.57
4:D:369:PHE:O	4:D:390:ILE:N	2.25	0.57
4:D:964:ARG:HA	4:D:967:ARG:HE	1.68	0.57
4:D:972:VAL:HG12	5:E:275:LYS:CE	2.35	0.57
8:H:331:ARG:O	8:H:334:ASP:HB2	2.03	0.57
1:J:299:MET:HG3	1:J:300:THR:H	1.68	0.57
1:J:310:LEU:HD13	1:J:314:HIS:HB2	1.85	0.57
3:L:181:MET:SD	3:L:199:ILE:HG23	2.44	0.57
4:M:473:ALA:HB1	4:M:477:LYS:NZ	2.20	0.57
4:M:1074:LEU:HD22	4:M:1103:TYR:HE1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:336:LYS:NZ	6:O:719:CYS:O	2.34	0.57
9:R:854:ASP:HA	9:R:857:VAL:HG22	1.86	0.57
9:R:1022:GLU:HB2	9:R:1060:LYS:HE2	1.86	0.57
10:S:1081:LEU:HD13	10:S:1088:LEU:HD21	1.86	0.57
10:S:1302:THR:HA	10:S:1305:ARG:HD3	1.86	0.57
12:U:205:LEU:HA	12:U:208:LEU:HD12	1.87	0.57
12:U:617:ALA:HB1	12:U:622:LEU:HB3	1.85	0.57
12:U:811:ARG:HH21	12:U:814:GLN:HG2	1.68	0.57
1:A:21:ARG:HE	1:A:43:GLY:HA3	1.69	0.57
1:A:309:ARG:NH1	1:A:325:TYR:O	2.36	0.57
3:C:62:ARG:CZ	3:C:118:ASP:HA	2.34	0.57
3:C:246:ARG:HB3	3:C:248:PHE:HE2	1.67	0.57
4:D:460:TYR:CG	4:D:531:TRP:HB3	2.39	0.57
4:D:1043:ARG:HB3	4:D:1045:GLN:NE2	2.18	0.57
6:F:531:TRP:O	6:F:534:THR:OG1	2.18	0.57
8:H:634:THR:HG22	8:H:662:LYS:HG2	1.85	0.57
8:H:810:ASN:O	8:H:814:PHE:HB2	2.05	0.57
1:J:401:LEU:HB3	1:J:422:PHE:HE1	1.69	0.57
6:O:328:GLU:O	6:O:332:SER:OG	2.16	0.57
7:P:257:LEU:HD21	7:P:288:TRP:CD2	2.39	0.57
8:Q:354:GLN:HG2	12:U:29:VAL:HG11	1.87	0.57
9:R:363:VAL:HG13	9:R:378:VAL:HG22	1.86	0.57
10:S:824:VAL:HG13	10:S:902:HIS:HE1	1.68	0.57
11:T:345:ASN:HB3	11:T:385:VAL:HG13	1.86	0.57
12:U:33:LEU:HD12	12:U:36:ILE:HB	1.85	0.57
1:A:68:LEU:HD12	1:A:72:PHE:CE2	2.38	0.57
1:A:322:LEU:HA	1:A:325:TYR:CD2	2.39	0.57
1:A:355:ILE:HD12	1:A:379:LEU:HD13	1.87	0.57
2:B:114:GLN:C	2:B:115:ARG:HH11	2.06	0.57
3:C:149:ASN:HB3	3:C:152:GLN:HE22	1.68	0.57
4:D:44:ARG:O	4:D:424:HIS:NE2	2.36	0.57
4:D:409:ILE:HG12	4:D:427:PHE:CD2	2.39	0.57
4:D:1192:ARG:NE	4:D:1206:ALA:O	2.38	0.57
6:F:811:MET:SD	6:F:828:LEU:HD21	2.44	0.57
8:H:173:CYS:HA	8:H:176:GLN:HE21	1.70	0.57
9:I:831:LEU:HD13	5:N:1:MET:HA	1.87	0.57
1:J:518:ASP:OD1	1:J:519:LEU:N	2.37	0.57
1:J:544:ARG:O	1:J:547:SER:N	2.37	0.57
2:K:262:TRP:HE1	2:K:279:GLU:HA	1.69	0.57
4:M:306:HIS:HE1	4:M:335:ARG:HA	1.68	0.57
7:P:179:ILE:HG22	7:P:195:ARG:NH1	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:374:LEU:O	8:Q:390:GLU:HG2	2.05	0.57
9:R:280:THR:HG1	9:R:283:SER:H	1.53	0.57
10:S:515:ARG:NE	10:S:596:ALA:O	2.35	0.57
10:S:1435:ASP:HA	10:S:1450:ARG:HH22	1.70	0.57
1:A:366:SER:OG	1:A:367:SER:N	2.36	0.57
2:B:12:HIS:ND1	2:B:40:ASN:HB3	2.20	0.57
2:B:18:ARG:HG3	2:B:83:PHE:CE2	2.40	0.57
2:B:97:THR:HG23	2:B:117:GLU:HA	1.87	0.57
4:D:54:ARG:HE	4:D:712:SER:HA	1.68	0.57
4:D:210:ARG:HA	4:D:233:SER:HA	1.87	0.57
4:D:369:PHE:N	4:D:390:ILE:O	2.34	0.57
4:D:425:ILE:HD13	4:D:435:TRP:HA	1.86	0.57
8:H:753:GLU:HG3	8:H:756:LYS:NZ	2.19	0.57
1:J:234:LEU:HD23	1:J:237:LYS:HE3	1.87	0.57
2:K:10:VAL:HG23	2:K:12:HIS:H	1.69	0.57
3:L:41:LYS:HB2	3:L:47:TRP:CH2	2.39	0.57
3:L:303:ARG:HB3	3:L:315:CYS:SG	2.44	0.57
6:O:343:PHE:CE2	6:O:676:PHE:HA	2.38	0.57
7:P:271:ILE:H	7:P:271:ILE:HD12	1.69	0.57
8:Q:575:LYS:HD2	8:Q:576:GLN:H	1.69	0.57
9:R:216:GLU:OE2	9:R:217:LYS:NZ	2.37	0.57
11:T:122:LEU:HD22	11:T:187:LEU:HD11	1.86	0.57
12:U:548:ALA:HA	12:U:551:TYR:HD2	1.69	0.57
1:A:260:ARG:NH2	1:A:312:PHE:O	2.37	0.57
1:A:449:LEU:HA	1:A:452:LEU:HD13	1.87	0.57
4:D:646:LEU:HD11	4:D:738:LEU:HD13	1.87	0.57
6:F:387:TRP:CB	6:F:644:LEU:HD13	2.34	0.57
6:F:572:TYR:CZ	6:F:598:ARG:HD3	2.40	0.57
6:F:619:LEU:HD12	6:F:620:ASP:HB2	1.87	0.57
8:H:299:ARG:HA	8:H:305:GLY:HA2	1.86	0.57
9:I:417:ALA:HB3	9:I:430:GLU:H	1.70	0.57
9:I:488:ARG:NH2	9:I:526:SER:O	2.38	0.57
3:L:159:ILE:HD11	3:L:209:TYR:HD2	1.68	0.57
4:M:450:ILE:O	4:M:454:GLN:N	2.38	0.57
4:M:687:ASN:HD22	4:M:873:ASN:HA	1.68	0.57
5:N:153:ASP:HB3	5:N:159:ILE:HD11	1.87	0.57
7:P:27:ARG:HD3	7:P:39:ILE:HG23	1.87	0.57
8:Q:818:GLY:HA2	8:Q:879:LEU:HD23	1.87	0.57
9:R:362:LEU:HD13	9:R:420:THR:HA	1.87	0.57
10:S:499:SER:HB2	10:S:534:ASN:HD21	1.70	0.57
10:S:1264:VAL:HG22	10:S:1267:ARG:HH21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1995:ILE:HG13	10:S:1996:GLN:N	2.19	0.57
12:U:418:LYS:O	12:U:422:VAL:HG23	2.04	0.57
1:A:496:PHE:HA	1:A:499:LEU:HD12	1.86	0.57
3:C:16:HIS:CD2	3:C:61:TRP:HA	2.38	0.57
3:C:156:GLN:O	4:D:1322:ASN:ND2	2.38	0.57
4:D:682:MET:HE3	4:D:767:LEU:HD21	1.86	0.57
4:D:718:ILE:HA	4:D:721:ILE:HG12	1.87	0.57
4:D:1334:ALA:O	4:D:1337:LEU:HB3	2.05	0.57
6:F:372:VAL:HG12	6:F:626:PRO:CD	2.34	0.57
6:F:387:TRP:CZ3	6:F:637:MET:HE2	2.38	0.57
7:G:220:ALA:HB3	7:G:229:THR:HB	1.86	0.57
8:H:355:ARG:NH2	8:H:359:ARG:NE	2.45	0.57
8:H:903:LEU:C	9:I:895:ARG:HH12	2.07	0.57
1:J:107:SER:HB2	2:K:325:TRP:HZ2	1.70	0.57
1:J:309:ARG:NH1	1:J:325:TYR:O	2.35	0.57
4:M:309:ARG:HG2	4:M:321:VAL:HG22	1.87	0.57
4:M:444:PRO:HG3	4:M:469:ARG:O	2.05	0.57
4:M:482:LEU:HD23	4:M:505:VAL:HA	1.87	0.57
4:M:891:LEU:HD22	4:M:916:CYS:SG	2.45	0.57
4:M:1107:LEU:C	4:M:1120:GLN:HE21	2.08	0.57
6:O:652:HIS:HB2	6:O:653:ARG:HD2	1.86	0.57
6:O:683:ASP:HB3	6:O:685:HIS:CE1	2.40	0.57
6:O:767:ALA:HB3	6:O:776:LEU:HD22	1.85	0.57
7:P:243:THR:HG1	7:P:253:THR:HG1	1.52	0.57
8:Q:276:PHE:O	8:Q:280:ILE:HG13	2.05	0.57
8:Q:299:ARG:HA	8:Q:305:GLY:HA2	1.86	0.57
9:R:277:TYR:OH	9:R:370:TYR:O	2.16	0.57
9:R:515:ARG:HH21	9:R:520:ASP:HB2	1.70	0.57
9:R:882:SER:HA	9:R:885:LEU:HD12	1.86	0.57
9:R:970:ASP:OD1	9:R:971:VAL:N	2.37	0.57
10:S:461:TRP:CD2	10:S:526:TYR:HB3	2.40	0.57
10:S:507:TYR:CZ	10:S:549:PRO:HG2	2.40	0.57
10:S:557:HIS:HA	10:S:560:MET:HG2	1.87	0.57
10:S:1680:SER:HA	10:S:1762:TYR:CD1	2.39	0.57
12:U:653:GLN:O	12:U:661:ARG:NH1	2.38	0.57
1:A:35:TYR:HA	1:A:55:TYR:HD2	1.68	0.57
1:A:185:SER:HB3	1:A:191:HIS:CD2	2.40	0.57
4:D:1000:ARG:HA	4:D:1003:ILE:HD12	1.86	0.57
6:F:662:ALA:HA	6:F:665:LEU:HD12	1.87	0.57
9:I:223:LEU:HD21	9:I:231:MET:HE2	1.87	0.57
2:K:20:ARG:O	2:K:22:VAL:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:526:ILE:HA	9:R:62:TYR:CD2	2.40	0.57
5:N:123:HIS:CD2	5:N:150:ARG:HD2	2.40	0.57
6:O:685:HIS:NE2	7:P:167:LEU:O	2.36	0.57
7:P:287:LEU:HD12	7:P:300:SER:HB3	1.85	0.57
8:Q:820:MET:HG3	8:Q:840:LEU:HD13	1.87	0.57
9:R:78:PHE:O	9:R:124:HIS:HA	2.05	0.57
9:R:947:TYR:HB2	9:R:950:LYS:HB2	1.87	0.57
10:S:734:GLN:HG3	10:S:737:ARG:NH2	2.19	0.57
12:U:647:LEU:HD21	12:U:668:ALA:HB2	1.87	0.57
1:A:11:THR:HG21	1:A:57:VAL:HG13	1.85	0.56
2:B:41:GLU:N	2:B:44:LYS:HZ1	2.02	0.56
4:D:177:ILE:O	4:D:700:ASN:ND2	2.38	0.56
6:F:251:PHE:CG	7:G:304:LYS:HG2	2.40	0.56
6:F:331:ASN:OD1	6:F:347:PRO:CA	2.53	0.56
6:F:462:ASP:HB3	6:F:465:LEU:HD12	1.86	0.56
6:F:531:TRP:CZ2	6:F:599:ASP:OD2	2.58	0.56
8:H:916:SER:HB3	9:I:918:HIS:HD2	1.70	0.56
9:I:934:HIS:CE1	9:I:962:ALA:HB2	2.40	0.56
1:J:99:VAL:HB	1:J:103:ARG:NH1	2.15	0.56
4:M:509:ILE:HD11	4:M:531:TRP:CZ3	2.39	0.56
5:N:110:ASP:OD1	5:N:114:LYS:N	2.29	0.56
6:O:449:ARG:HG3	6:O:449:ARG:HH11	1.70	0.56
6:O:485:GLN:HG3	6:O:489:TRP:HE1	1.68	0.56
7:P:27:ARG:HD2	7:P:28:LEU:N	2.20	0.56
7:P:56:HIS:HA	7:P:82:LYS:NZ	2.20	0.56
7:P:215:ARG:CZ	7:P:235:GLN:HB3	2.35	0.56
7:P:287:LEU:HB2	7:P:300:SER:HB3	1.86	0.56
8:Q:293:LEU:HD23	12:U:46:LYS:HZ1	1.70	0.56
9:R:74:ASN:ND2	9:R:467:GLU:OE2	2.38	0.56
11:T:284:TYR:HB3	11:T:301:LEU:HD11	1.86	0.56
1:A:53:PHE:HB2	3:C:5:ARG:CZ	2.36	0.56
1:A:370:TRP:HD1	1:A:404:TYR:CE1	2.23	0.56
1:A:626:ASP:O	1:A:630:VAL:HG23	2.06	0.56
4:D:1310:ILE:HG12	4:D:1320:LEU:HD11	1.87	0.56
6:F:614:ASP:C	6:F:616:CYS:H	2.08	0.56
8:H:276:PHE:O	8:H:280:ILE:HG13	2.05	0.56
9:I:621:ALA:HB3	9:I:624:LEU:HD23	1.87	0.56
1:J:304:HIS:HA	1:J:307:VAL:HG22	1.87	0.56
1:J:558:LEU:HD13	1:J:561:LEU:HD21	1.87	0.56
3:L:251:LYS:HB3	3:L:267:GLU:HB2	1.87	0.56
4:M:1215:VAL:HG13	4:M:1241:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:47:ALA:HA	5:N:66:LEU:H	1.70	0.56
6:O:311:LEU:HG	6:O:312:GLU:HG2	1.87	0.56
6:O:324:PRO:HB3	6:O:355:TYR:HE1	1.69	0.56
6:O:486:LEU:HA	6:O:489:TRP:CD1	2.40	0.56
8:Q:565:LYS:O	8:Q:569:GLN:HG3	2.05	0.56
8:Q:672:ASP:HB3	8:Q:675:GLN:HG3	1.86	0.56
10:S:448:ARG:HD3	10:S:516:GLY:HA2	1.86	0.56
4:D:166:LEU:HD22	4:D:190:ILE:HG22	1.85	0.56
6:F:268:LEU:HD12	6:F:271:ARG:NH1	2.20	0.56
6:F:379:THR:HG1	6:F:633:LEU:HD13	1.70	0.56
6:F:576:PRO:HD3	6:F:624:ALA:CA	2.12	0.56
7:G:195:ARG:NH2	7:G:197:GLU:OE2	2.38	0.56
8:H:503:TYR:HA	8:H:506:ILE:HG12	1.87	0.56
9:I:236:LEU:HD12	9:I:237:PRO:HD2	1.87	0.56
1:J:370:TRP:HE3	1:J:404:TYR:HE1	1.52	0.56
1:J:587:GLN:HA	1:J:643:ARG:HH22	1.70	0.56
3:L:62:ARG:NH2	3:L:77:CYS:SG	2.78	0.56
3:L:226:ALA:O	3:L:238:LEU:HD12	2.05	0.56
4:M:1365:HIS:HB3	4:M:1374:LEU:HD11	1.87	0.56
6:O:263:HIS:C	6:O:304:VAL:HG13	2.26	0.56
6:O:474:GLY:C	6:O:479:ARG:HH12	2.09	0.56
6:O:603:HIS:HA	6:O:606:LYS:HE2	1.87	0.56
7:P:76:SER:OG	7:P:84:ILE:HB	2.06	0.56
7:P:220:ALA:HB1	7:P:273:ALA:HB1	1.88	0.56
8:Q:174:ASN:HD21	8:Q:212:ARG:HH22	1.53	0.56
8:Q:600:LEU:HA	8:Q:603:ILE:HG12	1.87	0.56
8:Q:852:LEU:CG	8:Q:868:LEU:HD11	2.28	0.56
8:Q:868:LEU:HA	8:Q:871:ILE:HG22	1.86	0.56
9:R:589:ASP:HA	9:R:592:LYS:HD2	1.86	0.56
10:S:849:LEU:O	10:S:853:THR:HG23	2.04	0.56
10:S:1327:GLN:HA	10:S:1330:MET:CE	2.36	0.56
12:U:207:ASP:O	12:U:210:THR:N	2.38	0.56
12:U:809:ASN:HA	12:U:812:LEU:HD12	1.87	0.56
1:A:40:GLN:HG3	3:C:282:TRP:NE1	2.21	0.56
3:C:60:VAL:HA	3:C:78:SER:HB2	1.87	0.56
4:D:794:LEU:HB2	4:D:884:ARG:NH1	2.20	0.56
4:D:972:VAL:O	5:E:275:LYS:HE3	2.04	0.56
4:D:1140:TRP:HA	4:D:1177:LEU:O	2.06	0.56
4:D:1192:ARG:NH2	4:D:1207:GLY:O	2.39	0.56
4:D:1313:LEU:HB3	4:D:1318:VAL:HB	1.87	0.56
4:D:1413:ARG:O	4:D:1417:GLU:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:612:GLN:CB	12:U:183:MET:O	2.27	0.56
7:G:244:SER:HB2	7:G:252:TRP:CG	2.40	0.56
8:H:254:LEU:HD23	8:H:257:GLN:HE22	1.70	0.56
5:N:18:TYR:HD1	5:N:316:TYR:HA	1.70	0.56
6:O:291:PRO:HA	10:S:725:ARG:HH12	1.69	0.56
6:O:482:ILE:HG21	6:O:510:SER:HB3	1.86	0.56
7:P:85:ILE:O	7:P:96:THR:N	2.37	0.56
8:Q:801:THR:O	8:Q:805:LYS:HG2	2.05	0.56
10:S:1257:ILE:O	10:S:1261:LEU:HG	2.06	0.56
11:T:955:HIS:HB3	11:T:960:ASN:HB2	1.87	0.56
11:T:993:ILE:HG23	11:T:997:TYR:CE2	2.40	0.56
12:U:563:GLY:O	12:U:569:ARG:NH2	2.28	0.56
1:A:369:TRP:HE1	1:A:404:TYR:HA	1.70	0.56
2:B:149:ARG:NH2	2:B:169:SER:OG	2.38	0.56
4:D:431:GLN:OE1	11:T:113:ILE:HG13	2.05	0.56
4:D:1004:PHE:HZ	4:D:1036:LEU:HD12	1.70	0.56
4:D:1011:GLY:HA2	4:D:1043:ARG:HH12	1.71	0.56
6:F:324:PRO:CB	6:F:355:TYR:HE1	2.16	0.56
8:H:177:ILE:HG23	8:H:181:LYS:CE	2.36	0.56
1:J:70:LYS:HD3	2:K:246:HIS:CD2	2.40	0.56
1:J:541:GLU:O	1:J:545:MET:HG2	2.05	0.56
1:J:600:ARG:NH1	4:M:1122:ASN:OD1	2.39	0.56
6:O:339:PRO:HD2	7:P:172:SER:HB2	1.87	0.56
6:O:408:GLU:HA	6:O:411:LYS:HG2	1.87	0.56
6:O:438:ILE:HG12	6:O:502:ARG:HD3	1.86	0.56
8:Q:538:LEU:HB3	8:Q:567:TYR:HB2	1.88	0.56
10:S:1417:ARG:HA	10:S:1420:LEU:HD12	1.87	0.56
12:U:269:ASN:HA	12:U:272:LEU:HD12	1.88	0.56
12:U:555:LEU:HD12	12:U:558:GLU:HB2	1.87	0.56
6:F:416:TRP:O	6:F:420:THR:HG23	2.06	0.56
6:F:486:LEU:HA	6:F:489:TRP:CD1	2.40	0.56
8:H:436:TRP:CH2	8:H:504:HIS:HD2	2.23	0.56
1:J:449:LEU:HB3	1:J:453:ARG:HH12	1.69	0.56
4:M:450:ILE:HG13	9:R:127:SER:HB2	1.88	0.56
8:Q:280:ILE:HA	8:Q:283:TYR:CD2	2.41	0.56
3:C:113:ARG:NH2	4:D:1363:LYS:O	2.38	0.56
6:F:259:TRP:HZ3	7:G:274:ASN:ND2	2.03	0.56
7:G:95:LYS:NZ	7:G:98:GLU:HG2	2.20	0.56
1:J:369:TRP:HB3	1:J:400:LEU:HD22	1.87	0.56
1:J:638:ALA:HA	1:J:641:LEU:HD12	1.85	0.56
3:L:113:ARG:HH22	4:M:1367:TYR:HE2	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:216:ALA:HB3	4:M:232:PRO:HG3	1.88	0.56
4:M:522:GLU:HG2	9:R:60:ARG:H	1.69	0.56
4:M:553:VAL:HG12	4:M:555:PRO:HD3	1.87	0.56
4:M:1112:ARG:HG3	10:S:466:PRO:HB3	1.88	0.56
6:O:714:LEU:HD23	6:O:718:LEU:HD12	1.86	0.56
8:Q:676:ARG:HH21	8:Q:717:GLN:HG3	1.70	0.56
9:R:324:ILE:HG22	9:R:328:ILE:HD11	1.88	0.56
9:R:582:ILE:O	9:R:586:GLN:NE2	2.38	0.56
10:S:1112:TRP:HZ3	10:S:1115:LYS:HZ3	1.51	0.56
10:S:1178:ARG:HH21	10:S:1179:LYS:HE2	1.70	0.56
10:S:1820:GLN:NE2	10:S:1824:ASN:OD1	2.37	0.56
12:U:484:GLU:O	12:U:487:ARG:NE	2.37	0.56
1:A:444:THR:HG21	1:A:447:LYS:CE	2.35	0.56
2:B:284:TRP:HB3	2:B:337:ILE:HB	1.87	0.56
4:D:1312:LYS:HE3	4:D:1316:HIS:CE1	2.40	0.56
4:D:1354:LEU:HD21	4:D:1411:LEU:HD11	1.88	0.56
6:F:733:SER:CB	6:F:742:GLU:HG3	2.36	0.56
6:F:888:LEU:HA	6:F:891:LEU:HB2	1.87	0.56
7:G:100:THR:HG22	7:G:101:GLY:H	1.69	0.56
8:H:337:LEU:HA	8:H:340:TYR:CD2	2.41	0.56
8:H:616:ALA:HB1	8:H:621:LEU:HB2	1.87	0.56
8:H:641:GLU:HB3	8:H:693:SER:HB2	1.86	0.56
9:I:543:LEU:HD11	9:I:606:LEU:HD22	1.88	0.56
9:I:959:LYS:HB3	9:I:979:ILE:HD13	1.88	0.56
1:J:594:GLN:O	1:J:598:LEU:HG	2.06	0.56
3:L:308:ASN:HB3	3:L:314:LYS:HE2	1.87	0.56
4:M:911:PHE:HZ	4:M:937:VAL:HG12	1.69	0.56
4:M:1069:ALA:O	4:M:1080:TYR:OH	2.21	0.56
8:Q:732:ASP:HB3	8:Q:736:ARG:NH1	2.20	0.56
9:R:890:LEU:HD12	9:R:895:ARG:HH22	1.70	0.56
10:S:1337:VAL:O	10:S:1341:THR:HG22	2.04	0.56
11:T:14:ALA:HA	11:T:484:GLY:HA3	1.86	0.56
12:U:607:LYS:NZ	12:U:632:LEU:O	2.39	0.56
1:A:191:HIS:CE1	1:A:193:LYS:HE2	2.41	0.56
1:A:497:ALA:O	1:A:501:SER:OG	2.20	0.56
1:A:636:ALA:HA	1:A:639:ARG:HG2	1.86	0.56
2:B:224:PRO:HG2	2:B:271:PRO:HA	1.87	0.56
4:D:218:THR:HG22	4:D:230:ALA:HB3	1.87	0.56
6:F:780:LEU:HB2	6:F:803:LEU:HD13	1.88	0.56
8:H:484:PHE:CE1	8:H:508:LYS:HB2	2.41	0.56
8:H:889:ARG:HA	8:H:892:LEU:HG	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:524:ALA:HB1	9:I:600:PHE:CE1	2.41	0.56
1:J:168:VAL:HG21	1:J:307:VAL:HG21	1.88	0.56
2:K:15:SER:HB3	2:K:38:TRP:CD1	2.41	0.56
4:M:610:ILE:HD13	4:M:613:LEU:HD12	1.86	0.56
4:M:940:GLU:HB2	4:M:943:LEU:HD12	1.88	0.56
5:N:90:LEU:HD23	5:N:111:PHE:HD2	1.71	0.56
9:R:195:PHE:CZ	9:R:215:SER:HB2	2.41	0.56
9:R:1098:GLU:HA	9:R:1139:GLN:HG2	1.88	0.56
10:S:668:GLN:NE2	10:S:673:VAL:H	2.03	0.56
10:S:1043:VAL:O	10:S:1094:HIS:HD2	1.89	0.56
10:S:1245:ALA:O	10:S:1249:GLN:NE2	2.38	0.56
10:S:1301:PRO:O	10:S:1305:ARG:HG3	2.06	0.56
11:T:990:ARG:HA	11:T:993:ILE:HD12	1.88	0.56
1:A:78:ILE:HD11	1:A:108:VAL:HG21	1.87	0.56
3:C:277:HIS:NE2	3:C:303:ARG:HG3	2.20	0.56
7:G:212:ASP:HB3	7:G:235:GLN:HE21	1.70	0.56
8:H:436:TRP:CD1	8:H:495:VAL:HG11	2.23	0.56
8:H:736:ARG:NH1	8:H:816:ASP:HB2	2.21	0.56
9:I:843:ALA:HA	5:N:1:MET:HE1	1.87	0.56
2:K:16:ARG:HH11	2:K:81:MET:HB2	1.69	0.56
3:L:295:SER:O	3:L:302:VAL:HA	2.06	0.56
4:M:299:LEU:O	4:M:310:MET:HA	2.06	0.56
4:M:542:GLN:HA	4:M:545:LEU:HD12	1.88	0.56
6:O:535:LEU:HA	6:O:538:HIS:ND1	2.21	0.56
6:O:630:ASP:OD1	6:O:632:ARG:NE	2.38	0.56
7:P:95:LYS:NZ	7:P:98:GLU:HB2	2.20	0.56
8:Q:583:TYR:HA	8:Q:586:HIS:CE1	2.41	0.56
8:Q:808:ILE:HG12	8:Q:848:MET:HE3	1.88	0.56
9:R:871:ARG:NH1	9:R:874:THR:HB	2.21	0.56
1:A:69:ARG:HD2	2:B:245:ARG:CD	2.36	0.55
1:A:153:GLU:OE1	1:A:153:GLU:N	2.25	0.55
2:B:66:PRO:HG2	2:B:367:ILE:HD13	1.88	0.55
3:C:62:ARG:HB3	3:C:77:CYS:SG	2.46	0.55
3:C:162:LYS:NZ	3:C:198:GLN:HG2	2.21	0.55
4:D:1047:GLN:OE1	4:D:1047:GLN:N	2.38	0.55
5:E:79:ALA:HB3	5:E:96:ALA:HB3	1.88	0.55
8:H:374:LEU:O	8:H:390:GLU:HG2	2.05	0.55
9:I:242:MET:HE3	9:I:243:LEU:HB2	1.88	0.55
4:M:634:HIS:CD2	4:M:635:PRO:HD2	2.41	0.55
6:O:561:GLN:O	6:O:563:GLN:NE2	2.39	0.55
8:Q:301:MET:HE2	12:U:111:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:532:LEU:HG	8:Q:533:LEU:HG	1.86	0.55
10:S:927:GLN:HA	10:S:930:ILE:HD12	1.87	0.55
10:S:1006:TYR:CE1	10:S:1016:ASN:HA	2.40	0.55
10:S:1305:ARG:NH1	10:S:1347:SER:OG	2.34	0.55
11:T:143:GLN:H	11:T:312:LEU:HD13	1.71	0.55
11:T:185:SER:HA	11:T:208:ARG:HH11	1.71	0.55
11:T:401:ASP:HB3	11:T:404:ARG:HB2	1.89	0.55
12:U:406:GLU:CG	12:U:414:TYR:HB2	2.34	0.55
2:B:69:LEU:HB3	2:B:108:GLN:CD	2.27	0.55
2:B:257:HIS:CD2	2:B:259:ALA:H	2.24	0.55
3:C:86:TRP:CE3	3:C:103:TRP:HB3	2.40	0.55
6:F:342:HIS:HE2	6:F:344:ARG:HE	1.54	0.55
6:F:535:LEU:HA	6:F:538:HIS:ND1	2.21	0.55
8:H:436:TRP:CB	8:H:498:GLU:OE1	2.54	0.55
8:H:533:LEU:HA	8:H:537:LEU:HD22	1.88	0.55
1:J:490:ARG:HH11	2:K:26:SER:H	1.52	0.55
5:N:305:HIS:CE1	5:N:307:ARG:HG2	2.41	0.55
6:O:263:HIS:HE1	6:O:307:GLU:N	2.04	0.55
6:O:787:GLU:HA	6:O:790:LYS:NZ	2.21	0.55
7:P:21:MET:HE3	7:P:22:ASP:OD1	2.05	0.55
8:Q:152:LYS:O	8:Q:155:LEU:HB3	2.05	0.55
8:Q:206:GLN:HB3	8:Q:503:TYR:CG	2.42	0.55
8:Q:355:ARG:NH2	8:Q:359:ARG:NE	2.44	0.55
10:S:624:VAL:HG23	10:S:625:VAL:H	1.71	0.55
11:T:564:LYS:O	11:T:567:THR:OG1	2.22	0.55
11:T:882:LEU:HD23	11:T:913:MET:HG2	1.87	0.55
12:U:188:GLN:HG3	12:U:212:ALA:HB2	1.87	0.55
12:U:718:LEU:O	12:U:719:LYS:HG2	2.06	0.55
6:F:408:GLU:HA	6:F:411:LYS:HG2	1.88	0.55
8:H:276:PHE:CE2	8:H:280:ILE:HD11	2.41	0.55
1:J:58:ARG:NH1	1:J:64:TYR:OH	2.40	0.55
2:K:8:LYS:HD3	2:K:66:PRO:HD2	1.89	0.55
4:M:472:ILE:HA	4:M:475:LEU:HD12	1.88	0.55
4:M:1066:GLU:O	4:M:1070:ARG:HG2	2.06	0.55
6:O:352:ILE:HD11	6:O:644:LEU:HD21	1.88	0.55
6:O:796:GLU:HB3	6:O:800:LYS:HZ3	1.71	0.55
7:P:235:GLN:HA	7:P:263:VAL:HA	1.88	0.55
8:Q:337:LEU:HA	8:Q:340:TYR:CD2	2.41	0.55
10:S:1184:LEU:HD12	10:S:1187:ILE:HD12	1.88	0.55
11:T:434:VAL:HG13	11:T:486:ILE:HD13	1.88	0.55
11:T:806:LEU:HD23	11:T:809:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:314:ILE:O	12:U:315:GLU:HG3	2.05	0.55
12:U:552:PHE:HB3	12:U:567:PHE:CE1	2.40	0.55
1:A:74:GLU:N	1:A:74:GLU:OE1	2.40	0.55
1:A:318:LYS:HD2	1:A:319:PRO:HD2	1.89	0.55
2:B:48:TRP:CZ2	2:B:68:GLN:HB2	2.41	0.55
2:B:270:ASN:HD21	2:B:356:GLN:HE22	1.55	0.55
3:C:208:LYS:NZ	3:C:209:TYR:O	2.38	0.55
3:C:235:PHE:HB2	3:C:250:MET:O	2.06	0.55
3:C:251:LYS:HD2	3:C:252:PRO:HD2	1.88	0.55
4:D:1115:ARG:O	4:D:1119:LYS:HG2	2.06	0.55
6:F:438:ILE:HG12	6:F:502:ARG:HD3	1.86	0.55
6:F:474:GLY:C	6:F:479:ARG:HH12	2.09	0.55
6:F:561:GLN:O	6:F:563:GLN:NE2	2.38	0.55
8:H:773:PHE:CZ	1:J:563:THR:HG23	2.41	0.55
1:J:96:ALA:HB3	2:K:318:ASN:O	2.06	0.55
3:L:11:HIS:NE2	3:L:29:THR:O	2.39	0.55
3:L:134:SER:OG	3:L:140:ARG:NH2	2.38	0.55
6:O:843:GLN:HB3	6:O:853:GLN:HB2	1.88	0.55
10:S:116:GLU:HB2	10:S:127:ARG:HE	1.72	0.55
10:S:1973:SER:O	10:S:1976:LYS:HG2	2.07	0.55
12:U:529:PHE:O	12:U:533:LEU:HG	2.06	0.55
1:A:115:GLU:O	1:A:119:LEU:HG	2.06	0.55
1:A:398:GLU:OE1	1:A:398:GLU:N	2.39	0.55
3:C:287:ASN:CG	3:C:291:THR:H	2.09	0.55
4:D:328:VAL:HG22	4:D:386:HIS:CE1	2.41	0.55
6:F:297:LEU:HD13	6:F:301:PRO:HD3	1.88	0.55
6:F:379:THR:HG1	6:F:633:LEU:CD1	2.20	0.55
6:F:827:LYS:O	6:F:831:LYS:HG2	2.06	0.55
7:G:62:GLN:HE21	7:G:77:CYS:HB3	1.71	0.55
1:J:1:MET:HG2	1:J:356:HIS:HB3	1.88	0.55
1:J:79:PHE:HD1	1:J:374:HIS:CE1	2.24	0.55
1:J:106:ARG:HA	1:J:109:LEU:HD12	1.87	0.55
4:M:45:SER:H	4:M:579:HIS:CE1	2.24	0.55
4:M:360:TYR:HB2	4:M:369:PHE:CE1	2.41	0.55
4:M:410:TRP:CE3	4:M:424:HIS:HB3	2.42	0.55
4:M:1142:VAL:HA	4:M:1176:ILE:HA	1.89	0.55
5:N:73:GLU:OE1	5:N:105:ARG:NH2	2.39	0.55
7:P:61:TRP:HB2	7:P:77:CYS:SG	2.46	0.55
9:R:871:ARG:HH11	9:R:874:THR:HB	1.72	0.55
10:S:381:THR:HB	10:S:385:PHE:HE2	1.71	0.55
10:S:772:ASP:OD1	10:S:773:TYR:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:366:ASP:N	11:T:366:ASP:OD1	2.39	0.55
12:U:540:PHE:HB3	12:U:543:THR:OG1	2.06	0.55
4:D:881:CYS:SG	4:D:885:ASN:ND2	2.80	0.55
6:F:697:ARG:HH12	7:G:272:THR:HG22	1.72	0.55
6:F:858:LYS:HD2	6:F:859:ARG:HE	1.70	0.55
8:H:280:ILE:HA	8:H:283:TYR:CD2	2.41	0.55
1:J:542:PHE:HE1	1:J:554:ALA:HB1	1.72	0.55
4:M:123:LEU:HB3	4:M:185:SER:HB2	1.89	0.55
4:M:843:SER:O	4:M:850:ARG:NH1	2.40	0.55
4:M:1308:CYS:HA	4:M:1311:ASN:ND2	2.21	0.55
4:M:1363:LYS:HG2	4:M:1366:GLN:HE22	1.70	0.55
5:N:22:VAL:HG22	5:N:36:LEU:HD11	1.88	0.55
5:N:102:LYS:O	5:N:122:GLY:HA3	2.07	0.55
5:N:305:HIS:HE1	5:N:307:ARG:HG2	1.71	0.55
6:O:416:TRP:O	6:O:420:THR:HG23	2.06	0.55
6:O:537:ILE:HG23	6:O:541:TYR:HD2	1.71	0.55
7:P:27:ARG:HG2	7:P:40:PHE:O	2.07	0.55
7:P:30:THR:O	7:P:37:VAL:HA	2.07	0.55
7:P:242:TRP:CZ2	7:P:254:PRO:HB3	2.42	0.55
9:R:359:TYR:HA	9:R:382:GLN:HE22	1.72	0.55
10:S:764:ASP:HB2	10:S:768:LYS:NZ	2.21	0.55
10:S:1414:GLN:O	10:S:1417:ARG:HG2	2.07	0.55
10:S:1966:GLY:O	10:S:1970:PHE:HB3	2.07	0.55
12:U:811:ARG:HB3	12:U:815:MET:HE1	1.88	0.55
1:A:408:LEU:HA	1:A:414:LEU:HD23	1.87	0.55
1:A:466:SER:O	1:A:469:LYS:HG3	2.07	0.55
1:A:648:GLU:O	1:A:652:GLN:HG2	2.07	0.55
4:D:1340:TYR:HE2	4:D:1352:LEU:CD1	2.18	0.55
6:F:254:GLY:O	6:F:261:LEU:HG	2.07	0.55
6:F:635:TRP:CH2	6:F:677:VAL:HG13	2.42	0.55
6:F:909:LEU:O	6:F:913:THR:HG23	2.07	0.55
8:H:247:LYS:HB3	8:H:251:ARG:HH21	1.72	0.55
8:H:366:ALA:HA	8:H:369:LEU:HD12	1.89	0.55
8:H:839:LEU:HA	8:H:842:ARG:NE	2.22	0.55
9:I:717:ILE:HG22	9:I:721:MET:HE3	1.87	0.55
4:M:1272:LEU:H	4:M:1276:ILE:HG12	1.70	0.55
6:O:785:ARG:HB3	6:O:787:GLU:CD	2.27	0.55
6:O:862:ASN:O	6:O:865:ARG:HG3	2.06	0.55
8:Q:254:LEU:HD23	8:Q:257:GLN:HE22	1.70	0.55
10:S:753:ALA:HA	10:S:756:TRP:CE3	2.41	0.55
10:S:985:LEU:HD23	10:S:988:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:868:ALA:HB2	11:T:877:HIS:CE1	2.42	0.55
12:U:515:SER:HA	12:U:525:ARG:HH21	1.71	0.55
2:B:69:LEU:HB3	2:B:108:GLN:NE2	2.22	0.55
2:B:101:PHE:HA	2:B:111:SER:O	2.07	0.55
2:B:215:VAL:HB	2:B:235:GLN:HB2	1.88	0.55
6:F:346:ASN:N	6:F:347:PRO:HD3	2.21	0.55
6:F:767:ALA:HB2	6:F:776:LEU:HD12	1.89	0.55
2:K:146:GLU:HG2	2:K:171:THR:HG23	1.89	0.55
6:O:359:VAL:HG21	6:O:380:TRP:CD1	2.42	0.55
8:Q:366:ALA:HA	8:Q:369:LEU:HD12	1.88	0.55
10:S:866:GLU:N	10:S:866:GLU:OE2	2.37	0.55
10:S:1781:PHE:O	10:S:1910:TYR:OH	2.17	0.55
10:S:1900:LEU:O	10:S:2002:ILE:HD11	2.07	0.55
12:U:44:ARG:HG2	12:U:122:PHE:CD2	2.41	0.55
12:U:738:PHE:HB3	12:U:742:ILE:HG23	1.88	0.55
1:A:79:PHE:O	1:A:83:GLN:NE2	2.40	0.55
1:A:106:ARG:HH21	1:A:145:ASN:HA	1.70	0.55
1:A:150:LEU:HD22	1:A:151:PHE:CZ	2.41	0.55
4:D:609:LEU:HD11	4:D:674:ALA:HB1	1.89	0.55
4:D:1185:GLU:O	4:D:1188:LEU:HG	2.07	0.55
6:F:900:MET:SD	6:F:901:PRO:HD2	2.47	0.55
1:J:66:PRO:HA	1:J:69:ARG:CZ	2.36	0.55
1:J:70:LYS:NZ	2:K:246:HIS:H	2.05	0.55
1:J:446:LYS:NZ	1:J:447:LYS:HE2	2.21	0.55
1:J:603:GLU:OE2	4:M:1125:LEU:HD21	2.07	0.55
1:J:613:THR:HG22	1:J:620:LYS:HG3	1.88	0.55
2:K:21:PRO:HD2	2:K:86:LYS:HA	1.88	0.55
4:M:105:TRP:HB2	4:M:112:LEU:HD11	1.89	0.55
4:M:445:ASP:O	4:M:535:TYR:OH	2.13	0.55
4:M:477:LYS:O	4:M:480:GLN:HG2	2.07	0.55
5:N:282:ILE:HD13	5:N:292:LEU:HD23	1.89	0.55
6:O:554:HIS:O	6:O:557:GLU:HG3	2.07	0.55
6:O:670:LEU:HB3	6:O:673:TRP:CE3	2.42	0.55
7:P:54:ARG:NH1	7:P:56:HIS:H	2.04	0.55
8:Q:127:THR:HA	12:U:160:GLN:HG3	1.88	0.55
8:Q:276:PHE:CE2	8:Q:280:ILE:HD11	2.41	0.55
8:Q:549:ARG:NH2	8:Q:555:ALA:H	2.05	0.55
9:R:222:ARG:HB3	9:R:234:ARG:HG3	1.87	0.55
9:R:655:GLN:NE2	9:R:656:LEU:HG	2.22	0.55
10:S:970:GLN:O	10:S:974:THR:HG23	2.06	0.55
10:S:1857:GLU:OE2	10:S:1877:ARG:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:2000:ARG:HH12	10:S:2003:ARG:HG2	1.71	0.55
12:U:742:ILE:O	12:U:746:LEU:HG	2.07	0.55
4:D:369:PHE:HB2	4:D:390:ILE:HB	1.88	0.55
4:D:432:ALA:HB1	11:T:109:TYR:CE2	2.42	0.55
4:D:522:GLU:O	4:D:526:ILE:HG12	2.06	0.55
4:D:1352:LEU:HB3	4:D:1356:TYR:CZ	2.42	0.55
6:F:252:ARG:NH2	7:G:268:SER:HB2	2.22	0.55
6:F:554:HIS:O	6:F:557:GLU:HG3	2.07	0.55
6:F:712:ASN:O	6:F:716:GLN:HG2	2.06	0.55
7:G:259:LYS:HE2	12:U:280:GLN:HG2	1.89	0.55
1:J:76:HIS:O	1:J:80:VAL:HG23	2.07	0.55
1:J:199:THR:HA	1:J:202:VAL:HG22	1.88	0.55
1:J:556:SER:O	1:J:559:LEU:HG	2.07	0.55
2:K:6:ALA:HB3	2:K:369:VAL:HB	1.89	0.55
2:K:296:THR:HB	2:K:336:GLU:HA	1.88	0.55
3:L:171:ASN:HD22	3:L:181:MET:HB3	1.72	0.55
7:P:77:CYS:HB3	7:P:109:VAL:HG13	1.88	0.55
7:P:87:LYS:HG3	7:P:89:GLU:OE1	2.06	0.55
8:Q:247:LYS:HB3	8:Q:251:ARG:HH21	1.72	0.55
8:Q:355:ARG:HH12	12:U:30:GLU:C	2.11	0.55
9:R:202:PHE:HD2	9:R:265:LEU:HD23	1.72	0.55
9:R:572:GLU:HG3	9:R:577:SER:HB2	1.88	0.55
10:S:1121:LEU:HD23	10:S:1290:ILE:HG22	1.88	0.55
10:S:1338:PHE:HE1	10:S:1422:GLY:HA3	1.72	0.55
11:T:701:TYR:HE1	11:T:817:ASP:HB3	1.72	0.55
11:T:807:ILE:HG22	11:T:811:GLN:HE21	1.72	0.55
11:T:915:GLN:O	11:T:915:GLN:NE2	2.40	0.55
1:A:53:PHE:O	3:C:5:ARG:NH2	2.40	0.54
1:A:127:ALA:O	1:A:131:ILE:HG13	2.07	0.54
1:A:412:HIS:O	1:A:415:TRP:NE1	2.36	0.54
1:A:445:GLU:HA	2:B:24:ALA:O	2.07	0.54
1:A:550:GLN:HB3	1:A:553:GLU:OE2	2.07	0.54
1:A:620:LYS:NZ	1:A:622:ASP:OD2	2.41	0.54
3:C:141:ILE:O	3:C:156:GLN:N	2.40	0.54
4:D:495:GLU:O	4:D:498:LYS:HG3	2.07	0.54
4:D:1380:LEU:HD22	6:F:246:PHE:HB2	1.87	0.54
6:F:410:ARG:HG3	6:F:547:ALA:O	2.08	0.54
6:F:607:LEU:CD2	6:F:618:LEU:HD11	2.36	0.54
9:I:220:LEU:O	9:I:240:GLN:NE2	2.39	0.54
9:I:1106:ALA:HA	9:I:1109:LEU:HD12	1.89	0.54
2:K:273:HIS:ND1	2:K:287:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:32:SER:HA	3:L:59:SER:HA	1.89	0.54
3:L:248:PHE:CD1	3:L:270:THR:HA	2.42	0.54
4:M:478:ALA:O	4:M:481:ILE:HB	2.08	0.54
6:O:472:MET:HA	6:O:509:LEU:HD13	1.89	0.54
7:P:65:TRP:CD2	7:P:74:LEU:HD21	2.41	0.54
7:P:227:THR:HA	7:P:245:ASP:HA	1.88	0.54
8:Q:364:TRP:O	8:Q:368:THR:HG23	2.06	0.54
9:R:452:VAL:HG22	9:R:462:THR:HB	1.89	0.54
10:S:1464:ASP:O	10:S:1468:ILE:HG12	2.06	0.54
10:S:1659:LEU:O	10:S:1720:ARG:NH1	2.39	0.54
1:A:643:ARG:NH2	4:D:1088:ILE:HG22	2.22	0.54
2:B:181:THR:HB	2:B:197:LEU:HB2	1.89	0.54
2:B:241:ILE:HD13	2:B:252:SER:HB2	1.88	0.54
4:D:1402:GLN:H	4:D:1402:GLN:CD	2.11	0.54
6:F:290:LYS:HB2	7:G:47:GLN:H	1.72	0.54
7:G:192:LYS:HD2	7:G:194:TRP:CZ2	2.42	0.54
8:H:784:LYS:O	8:H:787:GLU:HG3	2.07	0.54
9:I:858:GLN:NE2	9:I:859:ILE:HG23	2.23	0.54
4:M:922:GLU:HG2	4:M:925:LYS:HE3	1.89	0.54
7:P:86:TRP:HA	7:P:95:LYS:HA	1.88	0.54
8:Q:166:ILE:HA	8:Q:169:TYR:HD2	1.72	0.54
8:Q:169:TYR:HE2	8:Q:547:PHE:HZ	1.55	0.54
9:R:704:SER:O	9:R:707:TRP:HB3	2.07	0.54
10:S:1265:VAL:O	10:S:1269:LYS:HG2	2.08	0.54
10:S:1300:ILE:HD12	10:S:1301:PRO:HD2	1.89	0.54
10:S:1305:ARG:O	10:S:1309:ILE:HG13	2.08	0.54
10:S:1779:CYS:HA	10:S:1905:ARG:HH12	1.72	0.54
11:T:110:ASP:O	11:T:112:GLY:N	2.38	0.54
1:A:18:GLN:OE1	1:A:18:GLN:N	2.40	0.54
1:A:302:TRP:O	1:A:305:PHE:HB3	2.08	0.54
1:A:441:PRO:HG2	3:C:25:ARG:HG2	1.90	0.54
4:D:1199:ASN:O	4:D:1202:THR:OG1	2.23	0.54
6:F:652:HIS:CE1	6:F:653:ARG:HG3	2.42	0.54
6:F:735:ARG:CZ	7:G:71:GLY:HA2	2.38	0.54
8:H:172:THR:O	8:H:176:GLN:NE2	2.40	0.54
9:I:956:GLY:O	9:I:959:LYS:HG3	2.08	0.54
4:M:446:ASP:HB3	9:R:129:LYS:HD3	1.89	0.54
4:M:1228:ILE:O	4:M:1232:GLN:HG2	2.08	0.54
6:O:603:HIS:HD2	6:O:606:LYS:NZ	2.06	0.54
9:R:989:GLN:HE22	9:R:1009:VAL:HA	1.71	0.54
10:S:300:MET:HG3	10:S:306:TYR:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:257:HIS:CG	2:B:258:GLU:H	2.25	0.54
2:B:296:THR:O	2:B:308:SER:OG	2.23	0.54
3:C:235:PHE:HB3	3:C:251:LYS:HD2	1.89	0.54
4:D:1194:THR:O	4:D:1197:LYS:HG3	2.06	0.54
6:F:671:TRP:O	6:F:675:ILE:HD12	2.07	0.54
6:F:847:ALA:O	6:F:850:ARG:HG3	2.08	0.54
8:H:601:GLU:HG2	8:H:630:VAL:HG13	1.88	0.54
1:J:390:LEU:HA	3:L:309:TYR:CE1	2.43	0.54
4:M:238:ILE:HB	4:M:257:LEU:HB2	1.87	0.54
4:M:1391:LEU:HD12	4:M:1394:ALA:HB3	1.88	0.54
6:O:259:TRP:CZ3	7:P:275:ILE:HB	2.43	0.54
6:O:672:GLU:HB2	6:O:714:LEU:HD21	1.89	0.54
8:Q:292:THR:N	8:Q:327:ASP:OD2	2.40	0.54
8:Q:449:ASP:O	8:Q:452:VAL:HG12	2.08	0.54
8:Q:807:LYS:O	8:Q:811:VAL:HG12	2.08	0.54
10:S:469:SER:H	10:S:472:LEU:HB2	1.72	0.54
10:S:1079:ARG:HG3	10:S:1080:TYR:N	2.22	0.54
10:S:1757:SER:O	10:S:1761:GLU:HG3	2.07	0.54
10:S:1876:ARG:HD3	10:S:1880:LYS:HE2	1.89	0.54
11:T:108:LEU:HB3	11:T:118:LYS:HB3	1.88	0.54
1:A:449:LEU:O	1:A:453:ARG:HG2	2.07	0.54
3:C:202:TYR:CE1	3:C:204:GLU:HA	2.43	0.54
4:D:434:HIS:N	11:T:112:GLY:O	2.40	0.54
4:D:702:SER:HA	4:D:836:PHE:CB	2.37	0.54
7:G:35:ARG:HH12	7:G:57:ASP:C	2.11	0.54
7:G:269:TRP:CE2	7:G:276:LEU:HD13	2.43	0.54
8:H:173:CYS:HA	8:H:176:GLN:NE2	2.23	0.54
9:I:1029:GLU:HG2	9:I:1088:VAL:HG22	1.90	0.54
3:L:64:THR:HG23	3:L:121:PHE:CE2	2.43	0.54
5:N:102:LYS:HZ2	5:N:125:GLY:HA2	1.73	0.54
6:O:594:ILE:HG13	6:O:595:SER:N	2.22	0.54
6:O:780:LEU:HA	6:O:783:LEU:HD12	1.90	0.54
7:P:256:LEU:HD21	7:P:259:LYS:HB2	1.88	0.54
8:Q:177:ILE:O	8:Q:181:LYS:HG2	2.06	0.54
9:R:221:VAL:HG22	9:R:235:VAL:HG22	1.88	0.54
9:R:833:PRO:HA	9:R:836:ILE:HG12	1.89	0.54
10:S:237:CYS:HA	10:S:277:TYR:CE1	2.43	0.54
10:S:1327:GLN:HA	10:S:1330:MET:HE2	1.89	0.54
10:S:1890:SER:HA	10:S:1985:TYR:CE2	2.41	0.54
11:T:297:VAL:H	11:T:334:SER:HB3	1.72	0.54
11:T:993:ILE:HG23	11:T:997:TYR:HE2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:374:LEU:HA	12:U:377:ARG:HH21	1.72	0.54
12:U:811:ARG:HE	12:U:814:GLN:NE2	2.06	0.54
1:A:37:THR:HA	3:C:15:ILE:HD11	1.89	0.54
1:A:449:LEU:HD12	1:A:452:LEU:HD22	1.89	0.54
4:D:41:ASN:OD1	4:D:42:LEU:N	2.36	0.54
4:D:1133:LEU:O	11:T:1003:ARG:NH2	2.21	0.54
6:F:472:MET:HA	6:F:509:LEU:HD13	1.90	0.54
7:G:228:SER:O	7:G:243:THR:HA	2.08	0.54
8:H:862:TYR:HB2	8:H:902:LEU:HG	1.90	0.54
1:J:417:LEU:HB3	1:J:421:TYR:HE2	1.72	0.54
1:J:468:CYS:HA	1:J:487:TRP:CE3	2.42	0.54
1:J:569:CYS:HA	1:J:572:TRP:HE3	1.72	0.54
3:L:87:GLU:CD	3:L:106:ARG:HD3	2.28	0.54
3:L:199:ILE:HG22	3:L:212:ALA:HB3	1.90	0.54
4:M:1352:LEU:HG	4:M:1356:TYR:CE2	2.41	0.54
6:O:262:VAL:HA	6:O:306:VAL:HG22	1.88	0.54
6:O:438:ILE:H	6:O:438:ILE:HD12	1.72	0.54
6:O:693:GLU:CG	6:O:697:ARG:HH12	2.20	0.54
8:Q:210:THR:HG22	8:Q:214:ILE:HD11	1.89	0.54
8:Q:697:GLU:O	8:Q:700:LYS:HG3	2.08	0.54
9:R:524:ALA:HB1	9:R:600:PHE:HE1	1.72	0.54
9:R:812:ASN:HB3	9:R:815:ARG:HG2	1.88	0.54
10:S:407:LEU:HD23	10:S:410:ARG:HH21	1.73	0.54
11:T:578:LEU:HD13	11:T:636:PHE:HE1	1.72	0.54
1:A:114:GLU:O	1:A:118:THR:HG23	2.08	0.54
1:A:432:TYR:HD1	1:A:435:LEU:HD13	1.73	0.54
1:A:500:ILE:HG13	1:A:503:ARG:HH21	1.72	0.54
2:B:73:LYS:HZ1	6:O:278:ARG:H	1.55	0.54
4:D:259:GLN:H	4:D:265:ARG:HH21	1.55	0.54
5:E:256:MET:HE2	5:E:270:THR:HG21	1.89	0.54
6:F:359:VAL:HG21	6:F:380:TRP:CD1	2.42	0.54
6:F:503:LEU:HD22	6:F:523:ILE:HG21	1.89	0.54
6:F:537:ILE:HG23	6:F:541:TYR:HD2	1.71	0.54
6:F:757:LYS:HB3	6:F:761:ARG:NH1	2.23	0.54
8:H:292:THR:N	8:H:327:ASP:OD2	2.40	0.54
9:I:115:ASP:O	9:I:138:LEU:N	2.35	0.54
9:I:1115:LEU:HD21	9:I:1128:LEU:HD22	1.90	0.54
1:J:31:ASP:OD1	1:J:58:ARG:HD3	2.07	0.54
4:M:585:GLY:HA2	4:M:588:LEU:HD12	1.90	0.54
6:O:251:PHE:HB3	7:P:16:ILE:O	2.07	0.54
6:O:638:TRP:HA	6:O:641:LEU:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:688:GLU:HB3	6:O:692:ARG:NH1	2.23	0.54
8:Q:338:LEU:HB3	8:Q:414:TYR:CG	2.43	0.54
10:S:56:ASN:HB3	10:S:103:ILE:HG22	1.90	0.54
10:S:912:GLU:HA	10:S:915:LYS:HE3	1.89	0.54
10:S:1064:ILE:HA	10:S:1067:LEU:HD12	1.89	0.54
11:T:494:GLN:HB2	11:T:524:LEU:HB2	1.88	0.54
11:T:670:TRP:CZ2	11:T:793:ILE:HG12	2.42	0.54
12:U:87:PHE:CZ	12:U:91:GLU:HG3	2.42	0.54
3:C:19:SER:HB3	3:C:65:TRP:NE1	2.22	0.54
4:D:431:GLN:HG3	11:T:115:LYS:HB2	1.90	0.54
5:E:281:ALA:HA	5:E:293:ILE:HD13	1.90	0.54
6:F:263:HIS:CE1	6:F:305:HIS:HB2	2.43	0.54
8:H:449:ASP:O	8:H:452:VAL:HG12	2.08	0.54
8:H:571:LEU:HG	8:H:576:GLN:HE21	1.73	0.54
8:H:774:THR:HG22	1:J:528:LEU:HD22	1.90	0.54
9:I:655:GLN:NE2	9:I:656:LEU:HG	2.23	0.54
9:I:1014:GLN:O	9:I:1017:GLN:HG3	2.07	0.54
1:J:479:ARG:HH22	1:J:503:ARG:HE	1.56	0.54
2:K:267:HIS:HB3	2:K:270:ASN:O	2.08	0.54
4:M:54:ARG:HB2	4:M:813:THR:HG21	1.89	0.54
4:M:55:GLU:HA	4:M:815:GLY:H	1.73	0.54
4:M:111:THR:OG1	4:M:131:LYS:NZ	2.35	0.54
4:M:395:GLU:HA	9:R:184:HIS:CE1	2.41	0.54
6:O:410:ARG:HG3	6:O:547:ALA:O	2.08	0.54
6:O:699:CYS:SG	6:O:732:ARG:HD3	2.48	0.54
10:S:1764:GLN:HA	10:S:1767:MET:HE3	1.90	0.54
12:U:763:ARG:HG3	12:U:774:ARG:NH2	2.16	0.54
1:A:207:MET:SD	1:A:207:MET:N	2.81	0.54
3:C:308:ASN:OD1	3:C:312:ASN:N	2.41	0.54
4:D:159:GLN:O	4:D:204:ILE:N	2.30	0.54
4:D:1058:HIS:ND1	6:F:910:ARG:CZ	2.71	0.54
6:F:266:ASP:HA	6:F:303:LYS:HZ3	1.72	0.54
6:F:380:TRP:NE1	6:F:633:LEU:HD12	2.22	0.54
6:F:438:ILE:HD12	6:F:438:ILE:H	1.72	0.54
9:I:567:GLU:HA	9:I:571:GLU:HB2	1.89	0.54
9:I:827:ARG:HA	9:I:830:LEU:HD12	1.90	0.54
1:J:492:LYS:HG2	2:K:27:LEU:HD11	1.90	0.54
2:K:120:HIS:H	2:K:151:ASN:HD21	1.56	0.54
3:L:204:GLU:O	3:L:207:ARG:HD2	2.07	0.54
4:M:72:LEU:HA	4:M:158:ASN:HB3	1.90	0.54
4:M:476:GLN:HB3	4:M:489:VAL:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:701:LEU:HD23	4:M:848:VAL:HG12	1.89	0.54
4:M:1007:HIS:CE1	4:M:1019:ALA:HB2	2.43	0.54
6:O:617:GLN:OE1	6:O:617:GLN:N	2.41	0.54
6:O:651:GLY:HA2	6:O:654:GLN:HB3	1.90	0.54
7:P:54:ARG:HD3	7:P:55:GLY:N	2.23	0.54
9:R:555:ILE:HG21	9:R:629:HIS:HB3	1.90	0.54
9:R:576:PHE:CZ	9:R:583:LEU:HD13	2.43	0.54
10:S:1111:SER:HA	10:S:1114:MET:HE3	1.90	0.54
10:S:1666:LEU:O	10:S:1670:GLN:HG2	2.07	0.54
11:T:554:SER:HA	11:T:628:ASN:ND2	2.22	0.54
12:U:25:GLU:CD	12:U:33:LEU:H	2.09	0.54
1:A:79:PHE:O	1:A:82:LEU:HB3	2.08	0.54
1:A:501:SER:OG	1:A:533:LEU:HB2	2.08	0.54
3:C:292:VAL:HG22	3:C:306:LYS:HD2	1.90	0.54
4:D:1135:ARG:HD2	4:D:1138:TYR:CE2	2.43	0.54
9:I:786:ILE:HG12	9:I:839:GLN:HG2	1.89	0.54
9:I:946:ARG:HA	9:I:1009:VAL:HG23	1.89	0.54
1:J:600:ARG:NH2	4:M:1122:ASN:HA	2.23	0.54
3:L:41:LYS:HB2	3:L:47:TRP:CZ3	2.43	0.54
4:M:514:VAL:HG21	9:R:68:SER:HB2	1.89	0.54
6:O:494:VAL:HG12	6:O:498:ILE:HG12	1.89	0.54
6:O:619:LEU:HD21	6:O:637:MET:HG2	1.90	0.54
8:Q:362:GLN:N	8:Q:362:GLN:OE1	2.40	0.54
9:R:84:VAL:HA	9:R:87:MET:HE1	1.90	0.54
9:R:643:HIS:CE1	9:R:650:VAL:HG12	2.43	0.54
10:S:313:ARG:O	10:S:318:GLN:NE2	2.40	0.54
10:S:565:HIS:ND1	10:S:584:ARG:HB3	2.23	0.54
10:S:1346:GLN:O	10:S:1350:THR:HG23	2.08	0.54
11:T:267:VAL:HG22	11:T:289:GLN:HE22	1.73	0.54
1:A:8:PRO:HA	3:C:316:ILE:HA	1.90	0.53
2:B:302:ARG:NH2	2:B:339:ASN:HB3	2.23	0.53
4:D:87:CYS:HB3	4:D:554:HIS:CD2	2.43	0.53
4:D:662:GLN:HG3	4:D:666:GLN:HE22	1.72	0.53
4:D:1094:ARG:NH1	4:D:1138:TYR:HB3	2.23	0.53
4:D:1130:CYS:O	4:D:1134:ILE:HG13	2.08	0.53
4:D:1228:ILE:O	4:D:1232:GLN:HG2	2.08	0.53
7:G:218:ALA:C	7:G:269:TRP:HE1	2.12	0.53
1:J:117:HIS:HE1	1:J:134:ILE:HG12	1.73	0.53
1:J:524:GLY:HA2	2:K:57:SER:O	2.08	0.53
1:J:545:MET:HA	1:J:548:GLN:NE2	2.22	0.53
3:L:228:ALA:HA	3:L:286:TRP:CZ3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:255:LYS:HE3	3:L:265:LYS:N	2.22	0.53
4:M:520:GLN:NE2	5:N:199:GLN:HG2	2.23	0.53
4:M:947:ILE:O	4:M:948:ARG:HB2	2.08	0.53
4:M:1369:GLY:O	4:M:1371:GLN:NE2	2.41	0.53
8:Q:147:TYR:CE1	8:Q:539:ARG:HG3	2.38	0.53
9:R:564:ARG:O	9:R:568:SER:N	2.41	0.53
10:S:684:ILE:HG23	10:S:687:GLU:OE2	2.09	0.53
12:U:217:ASP:HA	12:U:219:LYS:HE3	1.89	0.53
1:A:126:THR:CG2	1:A:129:LYS:HE3	2.38	0.53
2:B:119:ALA:H	2:B:128:ARG:NH1	2.06	0.53
4:D:1007:HIS:HB3	4:D:1012:HIS:O	2.08	0.53
6:F:650:SER:HB2	6:F:653:ARG:HD2	1.90	0.53
6:F:726:HIS:HA	6:F:745:TYR:CD2	2.43	0.53
8:H:242:LYS:HD3	8:H:376:HIS:CD2	2.43	0.53
1:J:436:HIS:O	1:J:440:ILE:HG23	2.07	0.53
1:J:446:LYS:HZ2	1:J:447:LYS:HE2	1.73	0.53
1:J:534:THR:O	1:J:538:LYS:HG2	2.08	0.53
1:J:627:ASN:O	1:J:630:VAL:HB	2.08	0.53
2:K:152:CYS:HB2	2:K:162:ARG:HB2	1.89	0.53
2:K:195:TRP:HD1	2:K:205:THR:HG1	1.56	0.53
4:M:181:SER:OG	4:M:829:ARG:NH2	2.41	0.53
4:M:258:LYS:HD2	4:M:265:ARG:HD3	1.90	0.53
4:M:441:ASN:C	4:M:441:ASN:HD22	2.08	0.53
4:M:1228:ILE:HG23	4:M:1298:TYR:CE2	2.43	0.53
6:O:428:GLU:HA	6:O:431:LEU:HD12	1.89	0.53
6:O:708:LEU:HA	6:O:711:GLU:OE1	2.08	0.53
6:O:747:LEU:HD13	6:O:782:GLU:HG3	1.90	0.53
8:Q:874:SER:O	8:Q:879:LEU:C	2.47	0.53
9:R:812:ASN:O	9:R:815:ARG:HG2	2.08	0.53
10:S:704:PHE:CE1	10:S:708:ILE:HD11	2.44	0.53
12:U:25:GLU:CG	12:U:32:ASN:HA	2.37	0.53
12:U:125:ALA:C	12:U:129:HIS:HD1	2.09	0.53
12:U:171:GLY:N	12:U:542:PRO:HD2	2.07	0.53
12:U:211:GLU:HA	12:U:214:GLU:OE1	2.08	0.53
1:A:35:TYR:HE1	1:A:54:MET:HA	1.73	0.53
1:A:404:TYR:O	1:A:408:LEU:HG	2.09	0.53
3:C:256:GLU:OE2	3:C:264:THR:HA	2.09	0.53
4:D:1264:TRP:NE1	4:D:1283:ALA:HB2	2.23	0.53
4:D:1412:GLN:O	4:D:1415:MET:HB3	2.08	0.53
6:F:268:LEU:HD12	6:F:271:ARG:HH11	1.72	0.53
6:F:638:TRP:HA	6:F:641:LEU:HD12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:216:ASP:OD1	7:G:217:VAL:N	2.42	0.53
1:J:96:ALA:HB1	2:K:319:GLN:NE2	2.23	0.53
1:J:117:HIS:CE1	1:J:134:ILE:HG12	2.43	0.53
4:M:345:ARG:NH2	4:M:399:ASP:OD1	2.37	0.53
4:M:416:ASP:OD1	9:R:181:ASN:ND2	2.42	0.53
4:M:639:GLU:HG3	4:M:765:ALA:HB2	1.90	0.53
4:M:1065:ILE:HG21	4:M:1083:LEU:HD13	1.91	0.53
4:M:1072:VAL:HG11	4:M:1079:TYR:CE2	2.44	0.53
5:N:47:ALA:HA	5:N:66:LEU:HG	1.90	0.53
6:O:606:LYS:O	6:O:609:SER:OG	2.25	0.53
8:Q:357:CYS:HA	8:Q:362:GLN:NE2	2.23	0.53
8:Q:590:GLU:OE1	8:Q:590:GLU:N	2.34	0.53
9:R:279:LEU:HB2	9:R:335:LEU:HD22	1.90	0.53
9:R:492:VAL:HG12	9:R:515:ARG:HD3	1.89	0.53
9:R:895:ARG:HB3	9:R:919:LEU:HD11	1.90	0.53
9:R:916:HIS:CD2	9:R:918:HIS:HB3	2.44	0.53
10:S:1415:ARG:HH22	10:S:1416:VAL:HG23	1.74	0.53
10:S:1488:HIS:O	10:S:1492:ARG:HG2	2.08	0.53
10:S:1545:LEU:HG	10:S:1547:LYS:HG2	1.91	0.53
12:U:114:ILE:HG13	12:U:118:ARG:NH1	2.23	0.53
12:U:651:VAL:HA	12:U:661:ARG:HH21	1.73	0.53
1:A:230:VAL:O	1:A:234:LEU:HG	2.08	0.53
1:A:597:GLU:HA	1:A:600:ARG:HG2	1.90	0.53
6:F:683:ASP:C	6:F:687:ARG:HE	2.12	0.53
8:H:177:ILE:HD12	8:H:208:MET:HE3	1.89	0.53
9:I:814:GLU:HG2	9:I:815:ARG:N	2.23	0.53
9:I:855:ILE:HG21	5:N:1:MET:O	2.08	0.53
9:I:921:TRP:HB3	9:I:936:THR:HG21	1.91	0.53
1:J:443:SER:OG	3:L:25:ARG:NH1	2.42	0.53
2:K:89:ILE:O	2:K:100:ILE:HA	2.07	0.53
2:K:131:CYS:SG	2:K:143:SER:HB2	2.48	0.53
3:L:181:MET:SD	3:L:182:ILE:N	2.81	0.53
4:M:867:GLN:O	4:M:875:ASN:ND2	2.41	0.53
4:M:1065:ILE:HG23	4:M:1083:LEU:HD22	1.91	0.53
4:M:1277:THR:HG21	10:S:1247:ILE:HD11	1.90	0.53
6:O:486:LEU:HD13	6:O:489:TRP:HD1	1.73	0.53
7:P:28:LEU:O	7:P:39:ILE:HA	2.08	0.53
8:Q:469:LEU:HD13	8:Q:473:TYR:CE2	2.43	0.53
8:Q:857:HIS:CE1	8:Q:897:GLU:HG3	2.44	0.53
9:R:202:PHE:HB2	9:R:214:SER:HB2	1.89	0.53
9:R:960:LEU:HD23	9:R:963:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:969:GLU:HA	9:R:972:LEU:HD12	1.90	0.53
10:S:760:GLU:OE2	10:S:841:LYS:HE2	2.08	0.53
10:S:972:LYS:O	10:S:976:ILE:HG12	2.08	0.53
12:U:70:ASP:OD1	12:U:71:ILE:N	2.40	0.53
1:A:267:LEU:HB2	1:A:282:CYS:SG	2.48	0.53
2:B:360:CYS:SG	2:B:368:TYR:HB2	2.49	0.53
3:C:86:TRP:HE1	3:C:105:LYS:HZ3	1.57	0.53
4:D:1417:GLU:O	4:D:1420:GLN:NE2	2.42	0.53
6:F:600:VAL:CG2	6:F:623:SER:HG	2.15	0.53
6:F:729:LYS:HB2	6:F:745:TYR:CD2	2.44	0.53
8:H:334:ASP:O	8:H:338:LEU:HG	2.09	0.53
9:I:903:ALA:HA	9:I:906:HIS:CG	2.44	0.53
1:J:99:VAL:HG23	1:J:103:ARG:HH22	1.74	0.53
1:J:449:LEU:HB3	1:J:453:ARG:NH1	2.22	0.53
1:J:500:ILE:O	1:J:503:ARG:HB2	2.09	0.53
1:J:603:GLU:CD	4:M:1125:LEU:HD21	2.29	0.53
3:L:198:GLN:HB3	3:L:200:TYR:HE1	1.74	0.53
5:N:182:MET:SD	5:N:190:ILE:HG23	2.48	0.53
5:N:232:TRP:CD1	5:N:249:ALA:HA	2.40	0.53
6:O:238:THR:HA	6:O:297:LEU:HD21	1.90	0.53
6:O:259:TRP:HZ2	7:P:274:ASN:H	1.56	0.53
6:O:688:GLU:O	6:O:692:ARG:HG3	2.08	0.53
6:O:689:ALA:O	6:O:692:ARG:N	2.41	0.53
6:O:808:VAL:HG13	6:O:828:LEU:HD11	1.89	0.53
7:P:142:VAL:C	7:P:143:LYS:HD3	2.28	0.53
7:P:220:ALA:O	7:P:222:SER:N	2.42	0.53
8:Q:578:GLU:HA	8:Q:615:LEU:HD13	1.90	0.53
8:Q:869:ALA:HB1	8:Q:895:LEU:CD1	2.38	0.53
9:R:456:ARG:HG2	9:R:457:LYS:HG3	1.90	0.53
10:S:974:THR:HA	10:S:977:ARG:NE	2.24	0.53
12:U:50:ARG:O	12:U:50:ARG:HD3	2.07	0.53
12:U:585:LEU:HD23	12:U:599:ILE:HD11	1.91	0.53
2:B:270:ASN:ND2	2:B:356:GLN:HE22	2.06	0.53
3:C:265:LYS:HD2	3:C:265:LYS:N	2.23	0.53
4:D:692:GLN:HA	4:D:834:GLN:HE22	1.72	0.53
4:D:1107:LEU:HB3	4:D:1120:GLN:HE21	1.74	0.53
6:F:278:ARG:HH12	6:F:295:LYS:H	1.55	0.53
8:H:121:SER:HB3	8:H:179:LEU:HD21	1.91	0.53
9:I:1077:ILE:HG21	9:R:581:LEU:HD12	1.89	0.53
1:J:99:VAL:HG12	1:J:152:ILE:HG22	1.91	0.53
4:M:1084:TYR:O	4:M:1088:ILE:HD12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1335:GLU:HA	4:M:1338:ARG:NE	2.24	0.53
5:N:311:CYS:SG	5:N:322:TRP:HB2	2.48	0.53
6:O:255:TRP:CD2	7:P:270:SER:HB3	2.44	0.53
6:O:486:LEU:HA	6:O:489:TRP:HD1	1.74	0.53
9:R:683:GLU:OE1	9:R:753:SER:OG	2.26	0.53
10:S:286:GLN:HG2	10:S:487:ARG:HD2	1.91	0.53
11:T:57:THR:HG22	11:T:64:ARG:HA	1.91	0.53
11:T:738:TRP:CD1	11:T:755:ALA:HB1	2.43	0.53
12:U:757:LEU:HD21	12:U:790:ALA:HB2	1.91	0.53
2:B:118:GLN:HA	2:B:128:ARG:HH12	1.73	0.53
3:C:149:ASN:CB	3:C:152:GLN:HE22	2.22	0.53
3:C:207:ARG:NH2	4:D:1253:GLN:OE1	2.42	0.53
3:C:245:VAL:O	3:C:273:GLN:HA	2.08	0.53
4:D:427:PHE:HA	11:T:113:ILE:HD13	1.90	0.53
5:E:78:ILE:HG12	5:E:97:THR:HG22	1.91	0.53
6:F:607:LEU:CD1	6:F:615:LEU:HD22	2.29	0.53
7:G:110:CYS:C	7:G:158:TRP:HE1	2.10	0.53
7:G:216:ASP:HB3	7:G:233:CYS:SG	2.48	0.53
8:H:146:MET:HB3	8:H:150:PHE:HE1	1.74	0.53
8:H:201:LEU:HD12	8:H:205:GLN:HE22	1.74	0.53
8:H:816:ASP:HB3	8:H:823:VAL:HG11	1.91	0.53
8:H:846:PRO:HG3	8:H:883:PHE:CE1	2.44	0.53
9:I:1067:TRP:CZ3	9:I:1127:SER:HB2	2.36	0.53
2:K:15:SER:OG	2:K:36:GLY:O	2.20	0.53
4:M:1078:ASN:O	4:M:1082:LEU:HG	2.09	0.53
4:M:1115:ARG:HB3	4:M:1119:LYS:NZ	2.24	0.53
6:O:249:ARG:HA	7:P:265:TRP:CZ3	2.44	0.53
6:O:363:SER:HA	6:O:369:VAL:HG11	1.91	0.53
8:Q:874:SER:O	8:Q:879:LEU:N	2.42	0.53
9:R:809:LYS:HB3	9:R:813:GLU:HB2	1.91	0.53
9:R:952:LYS:HE3	9:R:986:LEU:HD13	1.90	0.53
10:S:1016:ASN:HD22	10:S:1079:ARG:NH2	2.07	0.53
10:S:1422:GLY:N	10:S:1494:LEU:HD23	2.24	0.53
1:A:166:GLU:O	1:A:169:ARG:HG3	2.08	0.53
2:B:47:VAL:HG12	2:B:69:LEU:HD12	1.91	0.53
4:D:1226:THR:O	4:D:1229:SER:OG	2.22	0.53
4:D:1415:MET:HE2	4:D:1419:PHE:HE2	1.74	0.53
9:I:548:ASN:ND2	9:I:625:LEU:HD13	2.24	0.53
9:I:1116:ASN:HA	9:I:1119:LYS:HG3	1.91	0.53
1:J:634:ARG:CZ	4:M:1133:LEU:HG	2.39	0.53
3:L:242:THR:OG1	3:L:243:LYS:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:82:CYS:SG	4:M:107:SER:HB3	2.48	0.53
4:M:456:PRO:HG2	4:M:528:ILE:HB	1.90	0.53
4:M:481:ILE:CG2	4:M:482:LEU:HD12	2.38	0.53
4:M:1303:THR:O	4:M:1307:HIS:ND1	2.37	0.53
5:N:220:ASN:HB2	5:N:264:GLU:OE1	2.09	0.53
6:O:308:LYS:HE3	6:O:667:ASN:OD1	2.08	0.53
6:O:503:LEU:HD22	6:O:523:ILE:HG21	1.89	0.53
7:P:243:THR:OG1	7:P:253:THR:OG1	2.23	0.53
8:Q:469:LEU:HB2	8:Q:474:LEU:HD21	1.90	0.53
10:S:912:GLU:HA	10:S:915:LYS:HG2	1.91	0.53
10:S:1215:GLU:HG2	10:S:1225:CYS:H	1.74	0.53
10:S:1342:ALA:HB2	10:S:1426:TYR:CE2	2.44	0.53
11:T:829:LEU:HD22	11:T:863:VAL:HB	1.91	0.53
12:U:747:SER:O	12:U:751:LEU:HG	2.09	0.53
12:U:811:ARG:HA	12:U:814:GLN:HG3	1.90	0.53
1:A:3:GLU:OE2	1:A:360:LYS:NZ	2.41	0.53
1:A:69:ARG:NH1	2:B:245:ARG:H	2.06	0.53
4:D:917:TYR:HB3	4:D:922:GLU:HG2	1.90	0.53
5:E:93:LEU:O	5:E:108:THR:HA	2.08	0.53
6:F:265:GLY:CA	7:G:304:LYS:HA	2.39	0.53
6:F:339:PRO:HB2	6:F:724:TRP:CZ2	2.43	0.53
7:G:79:TYR:HA	7:G:105:SER:OG	2.09	0.53
8:H:264:TRP:O	8:H:267:SER:OG	2.25	0.53
8:H:469:LEU:HD13	8:H:473:TYR:CE2	2.43	0.53
8:H:538:LEU:HD22	8:H:563:VAL:HG13	1.91	0.53
9:I:982:GLN:O	9:I:986:LEU:HG	2.09	0.53
9:I:1119:LYS:HG2	9:I:1124:PHE:HE2	1.73	0.53
1:J:362:PHE:HB3	1:J:372:VAL:HG12	1.91	0.53
3:L:231:LEU:HD12	3:L:233:ARG:NH1	2.22	0.53
4:M:216:ALA:HB1	4:M:288:LEU:HG	1.91	0.53
6:O:690:ALA:HA	6:O:693:GLU:OE2	2.09	0.53
7:P:88:GLU:HB2	7:P:93:TRP:NE1	2.23	0.53
7:P:278:VAL:O	7:P:285:VAL:HA	2.09	0.53
8:Q:753:GLU:O	8:Q:756:LYS:HG3	2.08	0.53
8:Q:841:ARG:HD2	8:Q:878:LYS:O	2.09	0.53
9:R:638:VAL:HG21	9:R:724:VAL:HG21	1.90	0.53
10:S:1228:LYS:HA	10:S:1231:HIS:ND1	2.23	0.53
12:U:586:GLY:HA3	12:U:595:LYS:O	2.09	0.53
1:A:166:GLU:HG2	1:A:169:ARG:HE	1.73	0.53
2:B:119:ALA:H	2:B:128:ARG:HH12	1.57	0.53
3:C:72:GLN:HG2	3:C:87:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:170:TRP:HA	3:C:182:ILE:HD13	1.91	0.53
3:C:254:ARG:HE	3:C:255:LYS:H	1.56	0.53
6:F:351:ALA:HB3	6:F:640:VAL:HG22	1.90	0.53
8:H:357:CYS:HA	8:H:362:GLN:NE2	2.23	0.53
8:H:362:GLN:OE1	8:H:362:GLN:N	2.40	0.53
8:H:469:LEU:HB2	8:H:474:LEU:HD21	1.90	0.53
8:H:697:GLU:OE1	8:H:697:GLU:N	2.34	0.53
8:H:781:HIS:O	8:H:785:LYS:HG2	2.09	0.53
9:I:100:ALA:HB3	9:I:112:ALA:HB3	1.91	0.53
9:I:100:ALA:HB2	9:I:145:TRP:HB2	1.91	0.53
9:I:992:LEU:O	9:I:994:LYS:HD2	2.09	0.53
9:I:1107:GLU:O	9:I:1111:GLN:HG2	2.07	0.53
9:I:1109:LEU:HD13	9:I:1128:LEU:HD11	1.91	0.53
9:I:1125:GLU:O	9:I:1129:LYS:HG3	2.08	0.53
1:J:38:LEU:HD21	1:J:43:GLY:N	2.24	0.53
1:J:468:CYS:HA	1:J:487:TRP:HE3	1.72	0.53
3:L:228:ALA:H	3:L:236:HIS:CE1	2.26	0.53
4:M:179:SER:HA	4:M:703:THR:HG22	1.89	0.53
4:M:532:CYS:HB3	9:R:77:LEU:HD23	1.91	0.53
4:M:1111:VAL:HG12	4:M:1113:THR:H	1.74	0.53
7:P:66:ALA:HB3	7:P:73:ILE:HB	1.89	0.53
8:Q:209:VAL:HA	8:Q:212:ARG:HD3	1.91	0.53
9:R:888:TRP:O	9:R:891:GLU:HG2	2.09	0.53
9:R:1110:LEU:HD12	9:R:1125:GLU:HB3	1.91	0.53
10:S:112:LEU:HG	10:S:127:ARG:HD3	1.90	0.53
10:S:810:SER:OG	10:S:813:LEU:HG	2.09	0.53
10:S:1406:ILE:O	10:S:1409:THR:OG1	2.18	0.53
12:U:64:LEU:HD13	12:U:74:ILE:HD12	1.90	0.53
2:B:193:LYS:HB3	2:B:195:TRP:CZ2	2.44	0.52
2:B:255:ASN:HD21	2:B:331:THR:HG22	1.72	0.52
3:C:91:GLY:O	3:C:92:GLU:HG3	2.09	0.52
3:C:247:ILE:HG22	3:C:271:VAL:HG23	1.90	0.52
5:E:54:GLU:OE2	5:E:305:HIS:NE2	2.42	0.52
6:F:494:VAL:HG12	6:F:498:ILE:HG12	1.89	0.52
8:H:436:TRP:HB2	8:H:498:GLU:OE1	2.10	0.52
8:H:450:SER:HG	8:H:478:TRP:HE1	1.57	0.52
9:I:913:LEU:HA	9:I:916:HIS:ND1	2.23	0.52
1:J:74:GLU:OE1	1:J:74:GLU:HA	2.09	0.52
1:J:79:PHE:CD1	1:J:374:HIS:HE1	2.27	0.52
2:K:13:LYS:H	2:K:40:ASN:HD21	1.57	0.52
2:K:16:ARG:NE	2:K:36:GLY:HA3	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:498:LYS:HZ2	5:N:207:VAL:HG11	1.74	0.52
4:M:1347:GLU:H	4:M:1347:GLU:CD	2.12	0.52
4:M:1390:HIS:O	4:M:1393:LEU:HB3	2.09	0.52
6:O:424:ARG:O	6:O:427:GLU:HG2	2.09	0.52
7:P:67:HIS:HB3	7:P:70:TYR:CE2	2.44	0.52
8:Q:242:LYS:HD3	8:Q:376:HIS:CD2	2.43	0.52
8:Q:506:ILE:O	8:Q:510:VAL:HG23	2.09	0.52
8:Q:808:ILE:HG21	8:Q:852:LEU:HD13	1.91	0.52
8:Q:817:GLY:O	8:Q:879:LEU:CG	2.44	0.52
9:R:104:HIS:HB2	9:R:110:TRP:CH2	2.44	0.52
9:R:115:ASP:OD1	9:R:115:ASP:N	2.42	0.52
10:S:1669:LEU:HD12	10:S:1748:MET:HG3	1.91	0.52
1:A:354:ASP:HA	1:A:387:ALA:HB1	1.89	0.52
1:A:598:LEU:O	1:A:602:LEU:HG	2.10	0.52
1:A:629:LYS:NZ	1:A:633:LEU:HD11	2.24	0.52
6:F:465:LEU:O	6:F:469:LEU:HG	2.08	0.52
1:J:65:SER:HB3	1:J:68:LEU:HD13	1.91	0.52
1:J:106:ARG:HH22	1:J:145:ASN:HA	1.73	0.52
2:K:18:ARG:HD3	2:K:83:PHE:HD2	1.73	0.52
4:M:472:ILE:HG13	4:M:497:LEU:HD22	1.92	0.52
7:P:85:ILE:HD13	7:P:97:TYR:CD2	2.44	0.52
7:P:154:ASN:OD1	7:P:187:CYS:N	2.42	0.52
8:Q:183:ILE:O	8:Q:187:VAL:HG23	2.09	0.52
8:Q:393:PRO:HA	8:Q:395:ARG:NH1	2.24	0.52
8:Q:810:ASN:O	8:Q:814:PHE:CB	2.50	0.52
9:R:777:ALA:HB3	9:R:782:ARG:HG3	1.90	0.52
9:R:992:LEU:HD23	9:R:1019:TYR:CE1	2.44	0.52
10:S:704:PHE:O	10:S:708:ILE:HD12	2.08	0.52
10:S:862:ASP:HA	10:S:865:ARG:HH11	1.73	0.52
12:U:323:ILE:HG22	12:U:327:MET:HE1	1.90	0.52
2:B:75:PRO:O	2:B:93:SER:OG	2.22	0.52
2:B:362:THR:HG21	2:B:364:ALA:HB3	1.91	0.52
3:C:107:THR:HG21	3:C:153:TRP:CD1	2.43	0.52
4:D:349:SER:HB2	4:D:352:LEU:HB2	1.92	0.52
4:D:372:PHE:HB3	4:D:384:LEU:HB3	1.90	0.52
4:D:1099:VAL:O	4:D:1102:GLU:HG3	2.09	0.52
5:E:191:ARG:HH12	5:E:202:LEU:H	1.57	0.52
6:F:363:SER:HA	6:F:369:VAL:HG11	1.91	0.52
6:F:486:LEU:HA	6:F:489:TRP:HD1	1.74	0.52
6:F:663:ALA:O	6:F:666:GLU:HG2	2.08	0.52
9:I:971:VAL:O	9:I:975:LYS:HG2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:66:PRO:HA	1:J:69:ARG:NH1	2.25	0.52
4:M:479:ILE:HD11	4:M:501:VAL:HG23	1.91	0.52
4:M:539:LEU:HD11	9:R:130:LEU:HA	1.90	0.52
4:M:953:GLU:HB2	4:M:960:GLN:OE1	2.10	0.52
4:M:1140:TRP:HD1	6:O:850:ARG:HH21	1.56	0.52
6:O:787:GLU:OE1	6:O:787:GLU:N	2.34	0.52
6:O:842:ILE:HG22	6:O:843:GLN:N	2.22	0.52
8:Q:216:ALA:HA	8:Q:219:ARG:HE	1.75	0.52
9:R:211:PHE:O	9:R:222:ARG:HA	2.08	0.52
9:R:366:LYS:HG3	9:R:375:GLU:OE2	2.10	0.52
9:R:528:VAL:HG11	9:R:604:VAL:HB	1.91	0.52
12:U:57:ASN:HB3	12:U:78:LEU:HD13	1.91	0.52
1:A:243:THR:HG21	1:A:251:GLU:HB3	1.92	0.52
3:C:145:PRO:HD2	3:C:152:GLN:NE2	2.22	0.52
4:D:167:PRO:HA	4:D:171:ARG:NH2	2.24	0.52
4:D:976:GLU:HA	4:D:979:ILE:HD12	1.91	0.52
6:F:424:ARG:O	6:F:427:GLU:HG2	2.09	0.52
6:F:801:VAL:HG12	6:F:805:TYR:CE2	2.44	0.52
8:H:265:LEU:HD22	8:H:441:TRP:CD1	2.44	0.52
8:H:419:TYR:HD1	8:H:422:LEU:HD12	1.74	0.52
8:H:544:LEU:HG	8:H:548:PHE:CE2	2.44	0.52
8:H:570:ARG:HA	8:H:573:ASN:OD1	2.09	0.52
8:H:673:PRO:HA	8:H:676:ARG:NH1	2.24	0.52
8:H:686:ILE:HG13	8:H:690:PHE:CE2	2.45	0.52
1:J:45:SER:HB2	3:L:12:LYS:HA	1.92	0.52
1:J:586:LYS:O	1:J:643:ARG:NH2	2.43	0.52
2:K:16:ARG:NH1	2:K:91:THR:OG1	2.41	0.52
2:K:61:GLU:O	2:K:62:TYR:HB2	2.10	0.52
2:K:82:GLN:HB3	2:K:136:CYS:SG	2.50	0.52
4:M:581:TYR:O	4:M:614:HIS:NE2	2.42	0.52
4:M:1340:TYR:CA	4:M:1345:LEU:HB2	2.36	0.52
4:M:1401:ASN:CB	10:S:790:GLU:HG2	2.39	0.52
5:N:255:ARG:HD2	5:N:272:TYR:HA	1.91	0.52
6:O:826:GLU:OE2	6:O:827:LYS:NZ	2.29	0.52
8:Q:132:MET:HG3	8:Q:138:PRO:HB3	1.91	0.52
9:R:290:ASP:OD1	9:R:291:ASP:N	2.37	0.52
9:R:302:MET:HE3	9:R:306:LEU:HD12	1.91	0.52
9:R:1019:TYR:CE1	9:R:1034:LYS:HE2	2.44	0.52
9:R:1038:LEU:HA	9:R:1041:TYR:HD2	1.74	0.52
10:S:280:ASP:OD1	10:S:388:ARG:NH1	2.42	0.52
10:S:633:CYS:O	10:S:640:LYS:NZ	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1247:ILE:HA	10:S:1250:ARG:HD3	1.92	0.52
10:S:1806:TRP:CD1	10:S:1807:ARG:HG3	2.44	0.52
10:S:1816:HIS:CD2	10:S:1817:LEU:HD22	2.44	0.52
11:T:142:THR:OG1	11:T:318:MET:SD	2.67	0.52
11:T:879:THR:O	11:T:913:MET:HE1	2.09	0.52
4:D:1382:TRP:CH2	4:D:1384:PRO:HB3	2.45	0.52
5:E:260:SER:HB3	5:E:263:ASN:HB2	1.90	0.52
6:F:486:LEU:HD13	6:F:489:TRP:HD1	1.73	0.52
7:G:233:CYS:HB2	7:G:264:VAL:CG1	2.39	0.52
8:H:553:LEU:HD12	8:H:554:GLN:H	1.73	0.52
9:I:747:HIS:HB3	9:I:806:SER:HB3	1.92	0.52
9:I:888:TRP:HZ3	9:I:894:LYS:NZ	2.07	0.52
9:I:944:GLU:HG2	9:I:951:LYS:HA	1.91	0.52
1:J:151:PHE:O	1:J:154:SER:OG	2.20	0.52
1:J:408:LEU:HD13	1:J:417:LEU:HB2	1.90	0.52
1:J:600:ARG:HE	4:M:1125:LEU:HD13	1.74	0.52
3:L:25:ARG:O	3:L:26:ARG:NE	2.43	0.52
4:M:68:PRO:O	4:M:134:ASN:ND2	2.43	0.52
4:M:1313:LEU:HB3	4:M:1318:VAL:HB	1.90	0.52
4:M:1346:LEU:HD12	4:M:1347:GLU:N	2.24	0.52
6:O:839:VAL:HG21	6:O:860:VAL:HG11	1.90	0.52
8:Q:180:LEU:CB	8:Q:201:LEU:HD13	2.36	0.52
8:Q:265:LEU:HD22	8:Q:441:TRP:CD1	2.45	0.52
9:R:656:LEU:HB3	9:R:660:LYS:NZ	2.23	0.52
9:R:839:GLN:HB3	9:R:842:TRP:CD1	2.45	0.52
10:S:241:LEU:HB3	10:S:245:ASP:HB2	1.92	0.52
10:S:252:TYR:HD2	10:S:253:LEU:HD22	1.73	0.52
10:S:627:ILE:HA	10:S:630:LEU:HD12	1.91	0.52
10:S:1411:GLY:HA2	10:S:1417:ARG:HH22	1.74	0.52
10:S:1911:LEU:HA	10:S:2010:ARG:HD2	1.91	0.52
11:T:143:GLN:HA	11:T:150:ARG:NH2	2.24	0.52
11:T:593:LYS:HE3	11:T:661:LEU:HD21	1.91	0.52
12:U:575:VAL:C	12:U:579:ARG:HH21	2.11	0.52
12:U:791:ARG:NH2	12:U:820:ASN:OD1	2.43	0.52
1:A:13:ILE:H	3:C:325:PRO:HD2	1.74	0.52
1:A:356:HIS:NE2	1:A:389:ASN:HA	2.24	0.52
3:C:229:PRO:C	3:C:233:ARG:HH21	2.13	0.52
3:C:229:PRO:O	3:C:233:ARG:NH2	2.39	0.52
4:D:560:VAL:HG12	4:D:571:LEU:HD12	1.92	0.52
4:D:669:ARG:HB3	11:T:369:HIS:CD2	2.45	0.52
4:D:972:VAL:HG12	5:E:275:LYS:NZ	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1011:GLY:HA2	4:D:1043:ARG:NH1	2.24	0.52
4:D:1302:ASN:ND2	7:G:54:ARG:HG2	2.25	0.52
5:E:45:VAL:HG22	5:E:68:THR:HG23	1.91	0.52
7:G:107:ASN:ND2	7:G:153:CYS:O	2.37	0.52
7:G:238:ARG:NH1	12:U:278:ASN:OD1	2.42	0.52
9:I:358:ILE:HG13	9:I:387:PHE:HA	1.92	0.52
1:J:431:GLU:HA	1:J:434:LYS:HD2	1.90	0.52
4:M:473:ALA:HB1	4:M:477:LYS:HZ3	1.75	0.52
4:M:1190:GLN:NE2	4:M:1191:THR:HG23	2.24	0.52
4:M:1281:SER:OG	4:M:1285:ASP:OD2	2.26	0.52
6:O:465:LEU:O	6:O:469:LEU:HG	2.09	0.52
6:O:792:ILE:HG21	6:O:795:TRP:HB2	1.92	0.52
7:P:86:TRP:HB3	7:P:93:TRP:HE3	1.74	0.52
7:P:131:ILE:HD11	7:P:158:TRP:HH2	1.74	0.52
9:R:499:GLN:HE22	9:R:507:LYS:HE2	1.75	0.52
10:S:440:LEU:HA	10:S:513:MET:CE	2.40	0.52
10:S:1159:ASP:OD2	10:S:1161:SER:OG	2.25	0.52
10:S:1179:LYS:HA	10:S:1182:ARG:HG2	1.91	0.52
10:S:1652:SER:O	10:S:1656:GLN:N	2.31	0.52
10:S:1776:GLN:HE22	10:S:1932:ARG:HG2	1.73	0.52
1:A:501:SER:HA	1:A:504:PHE:CD2	2.45	0.52
2:B:80:ASP:OD2	2:B:134:ILE:HG22	2.10	0.52
2:B:197:LEU:HB3	2:B:198:ARG:NH2	2.20	0.52
3:C:305:TRP:CZ2	3:C:315:CYS:HB2	2.44	0.52
4:D:1415:MET:HG2	4:D:1419:PHE:CE2	2.44	0.52
4:D:1420:GLN:NE2	4:D:1421:LYS:HG2	2.25	0.52
6:F:342:HIS:HE2	6:F:344:ARG:NE	2.07	0.52
6:F:384:GLU:O	6:F:388:GLY:N	2.42	0.52
6:F:612:GLN:OE1	12:U:187:ARG:N	2.43	0.52
7:G:192:LYS:HB3	7:G:194:TRP:CZ2	2.45	0.52
8:H:166:ILE:HA	8:H:169:TYR:HD2	1.74	0.52
8:H:505:ILE:O	8:H:508:LYS:HG3	2.10	0.52
8:H:628:LYS:HA	8:H:628:LYS:HE2	1.92	0.52
9:I:718:LEU:HD13	9:I:721:MET:SD	2.49	0.52
9:I:949:CYS:O	9:I:952:LYS:HG2	2.09	0.52
1:J:26:SER:HB3	1:J:33:LEU:HB2	1.92	0.52
1:J:116:MET:CE	1:J:134:ILE:HG13	2.39	0.52
3:L:137:GLY:O	3:L:161:CYS:N	2.31	0.52
3:L:306:LYS:O	3:L:314:LYS:NZ	2.40	0.52
4:M:96:SER:H	4:M:174:ARG:HH21	1.56	0.52
5:N:179:PHE:HD1	5:N:195:LEU:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:217:CYS:HG	5:N:259:TRP:HE1	1.54	0.52
6:O:243:MET:SD	6:O:243:MET:N	2.82	0.52
6:O:384:GLU:O	6:O:388:GLY:N	2.42	0.52
7:P:177:ASN:O	7:P:178:TYR:HD1	1.92	0.52
7:P:236:ASP:OD2	7:P:238:ARG:NH2	2.42	0.52
8:Q:216:ALA:O	8:Q:219:ARG:HG2	2.10	0.52
8:Q:528:ASN:HD22	8:Q:532:LEU:HD13	1.75	0.52
8:Q:562:GLU:O	8:Q:565:LYS:HG2	2.10	0.52
9:R:342:LEU:HB2	9:R:365:VAL:HG23	1.92	0.52
10:S:1203:ASP:O	10:S:1207:ILE:HD12	2.10	0.52
10:S:1469:PHE:HB3	10:S:1511:TRP:HZ2	1.74	0.52
12:U:44:ARG:HE	12:U:122:PHE:HB3	1.75	0.52
1:A:502:ASP:HA	1:A:505:LEU:HD12	1.92	0.52
2:B:5:PHE:CE2	2:B:7:ALA:HB2	2.44	0.52
2:B:19:TRP:HB3	2:B:30:PRO:HG2	1.91	0.52
3:C:318:VAL:HG12	3:C:320:LYS:HZ2	1.74	0.52
6:F:594:ILE:HG13	6:F:595:SER:N	2.22	0.52
9:I:65:PRO:HB3	9:I:69:GLU:HG3	1.90	0.52
9:I:406:ALA:HB2	9:I:426:THR:HG23	1.92	0.52
9:I:620:VAL:HG13	9:I:747:HIS:CE1	2.45	0.52
9:I:992:LEU:HB2	9:I:997:LEU:HD11	1.91	0.52
1:J:319:PRO:HA	1:J:322:LEU:HD12	1.91	0.52
3:L:169:SER:O	3:L:182:ILE:HD12	2.09	0.52
5:N:35:LEU:H	5:N:306:ARG:NH2	2.06	0.52
8:Q:454:GLN:O	8:Q:457:ARG:HG3	2.10	0.52
8:Q:874:SER:O	8:Q:879:LEU:CA	2.58	0.52
10:S:366:PHE:CE2	10:S:435:ASP:HB3	2.45	0.52
10:S:642:GLU:O	10:S:646:THR:HG23	2.10	0.52
10:S:647:LEU:HA	10:S:650:PHE:CD2	2.45	0.52
10:S:662:GLN:O	10:S:665:GLU:HG2	2.10	0.52
10:S:1690:GLU:OE1	10:S:1691:LEU:HG	2.10	0.52
10:S:1744:LYS:HB3	10:S:1748:MET:HE1	1.92	0.52
12:U:650:VAL:HG11	12:U:664:LEU:HD12	1.90	0.52
3:C:172:PRO:HD2	3:C:236:HIS:HE2	1.74	0.52
4:D:145:CYS:HB2	4:D:152:ILE:HB	1.91	0.52
5:E:131:VAL:HG22	5:E:171:VAL:HG13	1.92	0.52
6:F:252:ARG:HH21	7:G:268:SER:HB2	1.74	0.52
6:F:560:PHE:C	6:F:568:PRO:HB3	2.30	0.52
7:G:286:THR:HB	7:G:298:CYS:SG	2.50	0.52
8:H:770:GLN:NE2	8:H:776:LYS:HA	2.25	0.52
8:H:803:ASP:O	8:H:807:LYS:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:576:PHE:CD2	9:I:576:PHE:CB	2.83	0.52
9:I:623:ARG:HH11	9:I:738:ASN:ND2	2.08	0.52
1:J:26:SER:HB2	3:L:20:PHE:CE2	2.45	0.52
1:J:73:ASN:HA	1:J:76:HIS:ND1	2.25	0.52
1:J:364:ILE:HG21	3:L:333:PHE:H	1.75	0.52
3:L:86:TRP:HA	3:L:105:LYS:HA	1.92	0.52
3:L:87:GLU:HG2	3:L:104:VAL:HB	1.92	0.52
4:M:197:ASP:HB2	4:M:200:ASN:ND2	2.25	0.52
4:M:338:ALA:HA	4:M:342:HIS:CE1	2.45	0.52
4:M:1087:HIS:CB	4:M:1092:ASN:HB2	2.40	0.52
6:O:401:ASN:O	6:O:405:LYS:HG2	2.10	0.52
7:P:269:TRP:N	7:P:276:LEU:HD12	2.23	0.52
9:R:383:PHE:CE1	9:R:416:PHE:HB2	2.45	0.52
9:R:612:THR:HB	9:R:619:LEU:HG	1.92	0.52
9:R:689:LEU:HD13	9:R:692:LYS:HE3	1.91	0.52
10:S:775:PRO:HD3	10:S:856:LYS:HZ2	1.75	0.52
10:S:980:THR:O	10:S:984:ILE:HG12	2.09	0.52
10:S:1110:MET:O	10:S:1114:MET:HG2	2.10	0.52
11:T:405:TRP:CD1	11:T:411:PRO:HD2	2.45	0.52
11:T:750:PRO:HG2	11:T:756:LEU:HD21	1.92	0.52
12:U:100:GLY:O	12:U:103:LYS:HG2	2.09	0.52
12:U:382:ALA:HA	12:U:389:ARG:NE	2.24	0.52
12:U:662:GLU:HA	12:U:665:LYS:HE2	1.91	0.52
12:U:712:PHE:O	12:U:715:ILE:HG22	2.10	0.52
1:A:239:PRO:HG3	1:A:242:HIS:CE1	2.45	0.52
4:D:1128:LEU:O	4:D:1132:ARG:HG2	2.10	0.52
4:D:1238:LEU:HB3	4:D:1242:PHE:CZ	2.45	0.52
7:G:176:PRO:HG2	7:G:178:TYR:HE1	1.75	0.52
8:H:165:LEU:HG	8:H:169:TYR:CE2	2.45	0.52
1:J:283:ARG:NH1	1:J:286:LEU:HB2	2.25	0.52
1:J:558:LEU:HB3	1:J:562:MET:HE1	1.91	0.52
3:L:149:ASN:HD22	3:L:152:GLN:HB2	1.74	0.52
3:L:277:HIS:HA	3:L:303:ARG:NH2	2.25	0.52
4:M:328:VAL:HG11	4:M:361:LEU:HD12	1.91	0.52
4:M:831:HIS:ND1	4:M:835:VAL:HG23	2.24	0.52
4:M:941:ASP:O	4:M:945:LYS:HG2	2.10	0.52
7:P:110:CYS:SG	7:P:121:ALA:HB3	2.50	0.52
7:P:195:ARG:O	7:P:197:GLU:HG3	2.10	0.52
7:P:242:TRP:CE2	7:P:254:PRO:HB3	2.45	0.52
8:Q:269:ALA:O	8:Q:273:VAL:HG23	2.10	0.52
8:Q:334:ASP:O	8:Q:338:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:709:ASN:HA	9:R:712:VAL:HG12	1.92	0.52
10:S:971:VAL:O	10:S:974:THR:OG1	2.20	0.52
10:S:1587:TYR:HA	10:S:1615:TYR:CE1	2.43	0.52
10:S:1795:ARG:HB3	10:S:1801:SER:HB2	1.90	0.52
12:U:33:LEU:HA	12:U:36:ILE:HD13	1.92	0.52
12:U:442:GLN:OE1	12:U:472:GLN:NE2	2.41	0.52
3:C:41:LYS:HE2	3:C:45:GLY:HA2	1.92	0.51
4:D:889:THR:HA	4:D:892:GLN:OE1	2.11	0.51
8:H:177:ILE:HG23	8:H:181:LYS:HE2	1.93	0.51
9:I:270:TRP:O	9:I:337:GLN:NE2	2.43	0.51
9:I:335:LEU:HD13	9:I:344:ILE:HG12	1.92	0.51
9:I:745:PRO:HB3	9:I:808:ASP:H	1.75	0.51
1:J:70:LYS:O	2:K:245:ARG:NH2	2.42	0.51
1:J:142:LEU:HG	1:J:167:TRP:HE1	1.75	0.51
1:J:372:VAL:HG23	1:J:400:LEU:HD13	1.92	0.51
2:K:123:VAL:HG23	2:K:149:ARG:HD3	1.92	0.51
3:L:164:SER:OG	3:L:188:ASP:OD1	2.28	0.51
4:M:547:ARG:HE	9:R:134:LYS:HE3	1.74	0.51
5:N:252:ASP:HB3	5:N:272:TYR:H	1.75	0.51
6:O:654:GLN:HE21	6:O:658:HIS:CE1	2.29	0.51
7:P:184:SER:N	7:P:194:TRP:HZ3	2.08	0.51
8:Q:357:CYS:HA	8:Q:362:GLN:CD	2.30	0.51
9:R:112:ALA:HB1	9:R:138:LEU:HD11	1.92	0.51
9:R:310:ILE:HG23	9:R:361:THR:HG21	1.91	0.51
9:R:883:ASP:HA	9:R:886:PHE:CD2	2.45	0.51
9:R:977:GLU:O	9:R:981:GLU:HG3	2.10	0.51
10:S:341:SER:HA	10:S:348:GLU:HG3	1.93	0.51
10:S:509:PRO:HA	10:S:512:LYS:HD3	1.92	0.51
10:S:598:LEU:HD13	10:S:642:GLU:HB3	1.92	0.51
10:S:1107:MET:CE	10:S:1277:LYS:HD2	2.40	0.51
10:S:1189:PHE:HB3	10:S:1324:ASP:OD1	2.10	0.51
10:S:1311:ASP:O	10:S:1314:GLN:HG2	2.10	0.51
12:U:646:LEU:O	12:U:649:PRO:HD2	2.10	0.51
1:A:176:ASP:O	1:A:180:GLN:HG2	2.10	0.51
2:B:297:PHE:C	2:B:338:THR:HB	2.31	0.51
3:C:22:PHE:HB3	3:C:67:HIS:NE2	2.25	0.51
3:C:138:VAL:HG13	3:C:158:GLU:OE2	2.10	0.51
4:D:244:PRO:HG2	4:D:249:GLU:HA	1.90	0.51
4:D:909:CYS:HA	4:D:912:MET:SD	2.49	0.51
4:D:1077:HIS:CE1	4:D:1082:LEU:HB2	2.42	0.51
4:D:1336:LEU:HA	4:D:1339:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:219:ARG:NH2	5:E:261:LYS:O	2.42	0.51
6:F:251:PHE:CZ	7:G:283:ASN:HA	2.46	0.51
6:F:576:PRO:HA	6:F:579:GLU:CD	2.31	0.51
7:G:67:HIS:CG	7:G:114:HIS:HB3	2.46	0.51
7:G:125:SER:HA	7:G:153:CYS:N	2.24	0.51
8:H:609:ARG:HD2	8:H:671:PHE:HE2	1.75	0.51
8:H:729:ALA:HA	8:H:824:ARG:HG2	1.91	0.51
4:M:397:LEU:HD21	4:M:400:PHE:HD1	1.75	0.51
7:P:89:GLU:OE2	7:P:94:GLU:HB2	2.11	0.51
8:Q:221:ARG:HH22	8:Q:513:ALA:HB2	1.75	0.51
9:R:949:CYS:SG	9:R:1005:ASN:HB3	2.50	0.51
10:S:1713:GLN:O	10:S:1717:LEU:HG	2.10	0.51
11:T:766:ASP:O	11:T:769:SER:OG	2.27	0.51
11:T:881:LEU:HB3	11:T:886:SER:HB3	1.91	0.51
12:U:727:SER:O	12:U:731:ARG:HG2	2.10	0.51
2:B:114:GLN:HA	2:B:158:ARG:HE	1.76	0.51
5:E:10:THR:N	5:E:321:PHE:O	2.43	0.51
6:F:707:SER:O	6:F:710:LYS:HB2	2.10	0.51
6:F:835:LEU:O	6:F:839:VAL:HG23	2.10	0.51
6:F:858:LYS:HD3	6:F:859:ARG:HH21	1.75	0.51
8:H:393:PRO:HA	8:H:395:ARG:NH1	2.24	0.51
8:H:736:ARG:NH2	8:H:817:GLY:O	2.42	0.51
9:I:918:HIS:O	9:I:921:TRP:NE1	2.44	0.51
1:J:43:GLY:HA2	3:L:13:ASP:HA	1.92	0.51
3:L:21:ASP:OD1	3:L:25:ARG:N	2.33	0.51
3:L:202:TYR:HD2	3:L:209:TYR:CE1	2.28	0.51
4:M:573:PRO:HG2	4:M:858:ILE:HD11	1.90	0.51
5:N:83:GLU:HB2	5:N:136:GLU:HA	1.91	0.51
7:P:84:ILE:HA	7:P:95:LYS:HZ2	1.75	0.51
7:P:239:VAL:O	7:P:256:LEU:HA	2.11	0.51
8:Q:845:LEU:HB2	8:Q:846:PRO:HD3	1.92	0.51
9:R:451:PRO:HG2	9:R:463:VAL:HG23	1.93	0.51
9:R:686:PHE:HZ	9:R:750:TRP:HZ3	1.56	0.51
9:R:991:THR:HB	9:R:1034:LYS:HE3	1.91	0.51
10:S:276:LEU:HB3	10:S:388:ARG:HE	1.75	0.51
10:S:462:CYS:SG	10:S:492:SER:OG	2.58	0.51
10:S:829:THR:O	10:S:836:LYS:NZ	2.41	0.51
10:S:1456:ASP:O	10:S:1459:SER:N	2.44	0.51
12:U:171:GLY:HA2	12:U:540:PHE:HD1	1.74	0.51
1:A:211:ARG:HA	1:A:214:LEU:HB2	1.91	0.51
2:B:229:VAL:HA	2:B:242:TRP:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:694:GLN:HA	4:D:834:GLN:HG2	1.92	0.51
7:G:56:HIS:HB3	7:G:78:SER:OG	2.10	0.51
7:G:167:LEU:HD23	7:G:167:LEU:O	2.11	0.51
1:J:417:LEU:HB3	1:J:421:TYR:CE2	2.45	0.51
2:K:223:HIS:CD2	2:K:225:ASN:HB3	2.45	0.51
4:M:1041:CYS:HG	4:M:1079:TYR:HH	1.57	0.51
4:M:1187:VAL:HA	4:M:1190:GLN:HE21	1.76	0.51
6:O:560:PHE:C	6:O:568:PRO:HB3	2.30	0.51
6:O:795:TRP:CZ3	6:O:799:GLY:HA3	2.45	0.51
7:P:131:ILE:CG2	7:P:143:LYS:HB2	2.40	0.51
8:Q:223:GLN:HA	8:Q:226:LEU:HD12	1.91	0.51
8:Q:530:LYS:HD3	8:Q:566:THR:HB	1.91	0.51
9:R:104:HIS:CD2	9:R:106:GLY:H	2.29	0.51
9:R:956:GLY:O	9:R:959:LYS:HG3	2.11	0.51
9:R:1134:CYS:O	9:R:1137:LYS:HG3	2.11	0.51
10:S:933:ASP:HA	10:S:936:GLN:HE22	1.75	0.51
10:S:1306:GLN:HE22	10:S:1347:SER:HB3	1.75	0.51
11:T:525:LEU:HB3	11:T:529:PHE:HB2	1.92	0.51
12:U:722:PRO:HG2	12:U:789:GLN:HE22	1.76	0.51
12:U:784:SER:N	12:U:787:ARG:HH21	2.08	0.51
3:C:25:ARG:O	3:C:26:ARG:NH2	2.44	0.51
5:E:305:HIS:CE1	5:E:307:ARG:HD3	2.45	0.51
6:F:255:TRP:HZ2	7:G:275:ILE:HD11	1.74	0.51
6:F:376:TRP:CH2	6:F:630:ASP:OD2	2.63	0.51
6:F:533:ARG:O	6:F:537:ILE:HG12	2.10	0.51
7:G:110:CYS:C	7:G:120:LEU:HD12	2.31	0.51
9:I:85:LYS:HB3	9:I:118:ILE:HD13	1.91	0.51
9:I:286:LYS:HE3	9:I:371:ASN:H	1.75	0.51
9:I:508:HIS:O	9:I:527:MET:HE1	2.11	0.51
9:I:766:GLN:HE22	9:I:770:ILE:HD11	1.75	0.51
2:K:268:PRO:HD3	2:K:353:VAL:HG13	1.92	0.51
3:L:228:ALA:HA	3:L:286:TRP:HZ3	1.75	0.51
4:M:59:ARG:HD3	4:M:125:ASN:HA	1.92	0.51
4:M:481:ILE:HD11	9:R:87:MET:SD	2.50	0.51
4:M:670:ASN:ND2	4:M:673:GLN:OE1	2.44	0.51
4:M:1092:ASN:HB3	4:M:1095:LYS:HE2	1.91	0.51
6:O:252:ARG:HB2	7:P:266:HIS:ND1	2.25	0.51
6:O:471:GLN:HE22	8:Q:370:GLU:HB2	1.76	0.51
6:O:682:GLN:O	7:P:168:VAL:HG13	2.10	0.51
7:P:63:VAL:HA	7:P:75:ALA:O	2.09	0.51
7:P:67:HIS:CE1	7:P:114:HIS:HD2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:241:ILE:HG12	7:P:296:TRP:HZ2	1.76	0.51
8:Q:577:ILE:HG22	8:Q:599:PHE:CZ	2.46	0.51
8:Q:762:PRO:HG3	8:Q:790:PHE:HA	1.92	0.51
9:R:284:ILE:HG13	9:R:302:MET:SD	2.51	0.51
9:R:745:PRO:HG2	9:R:815:ARG:HH22	1.75	0.51
9:R:880:ASN:HB3	9:R:883:ASP:HB2	1.92	0.51
10:S:333:TRP:HD1	10:S:356:MET:HE1	1.75	0.51
10:S:662:GLN:HA	10:S:665:GLU:HG2	1.92	0.51
10:S:666:TYR:HE1	10:S:725:ARG:HH22	1.58	0.51
10:S:702:ARG:HD3	10:S:758:VAL:HG22	1.92	0.51
11:T:493:PHE:CD2	11:T:522:ALA:HB2	2.46	0.51
11:T:655:GLN:O	11:T:658:THR:OG1	2.24	0.51
1:A:51:CYS:HB2	3:C:7:ILE:HG22	1.92	0.51
1:A:446:LYS:HE2	1:A:447:LYS:NZ	2.24	0.51
2:B:226:GLN:NE2	2:B:229:VAL:HB	2.16	0.51
3:C:152:GLN:HG2	3:C:152:GLN:O	2.10	0.51
3:C:211:LYS:HE2	3:C:214:THR:HG23	1.91	0.51
4:D:917:TYR:HB2	4:D:926:ALA:HB2	1.93	0.51
6:F:375:GLN:O	6:F:378:LEU:HB3	2.11	0.51
7:G:35:ARG:HB3	7:G:54:ARG:NH1	2.20	0.51
7:G:195:ARG:NH1	7:G:202:LYS:HB2	2.26	0.51
8:H:607:ASP:O	8:H:611:ARG:HG2	2.11	0.51
9:I:197:SER:HB2	9:I:219:GLN:HG3	1.93	0.51
9:I:937:LEU:HD23	9:I:940:LEU:HD12	1.93	0.51
1:J:26:SER:O	1:J:32:LEU:HD12	2.11	0.51
2:K:23:SER:N	2:K:30:PRO:HG3	2.25	0.51
2:K:29:GLN:HE21	2:K:371:ARG:HH22	1.58	0.51
3:L:142:TYR:CZ	3:L:155:LEU:HD13	2.46	0.51
4:M:528:ILE:O	4:M:532:CYS:CB	2.59	0.51
4:M:693:SER:H	4:M:831:HIS:HD2	1.57	0.51
4:M:1074:LEU:HD22	4:M:1103:TYR:CE1	2.45	0.51
8:Q:315:ASP:OD2	8:Q:321:ARG:NH2	2.44	0.51
8:Q:419:TYR:HD1	8:Q:422:LEU:HD12	1.74	0.51
9:R:156:THR:OG1	9:R:161:ALA:O	2.25	0.51
10:S:969:ASP:OD1	10:S:970:GLN:N	2.44	0.51
10:S:1035:ASP:O	10:S:1039:LYS:HG2	2.10	0.51
10:S:1119:ILE:O	10:S:1123:ILE:HG12	2.11	0.51
10:S:1315:ASP:HB3	10:S:1319:LYS:HZ1	1.76	0.51
10:S:1421:TYR:HD1	10:S:1498:LEU:HD12	1.76	0.51
11:T:341:ARG:NE	11:T:343:GLN:HG2	2.26	0.51
11:T:560:THR:HB	11:T:564:LYS:NZ	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:162:LYS:HG3	3:C:163:LEU:H	1.75	0.51
3:C:204:GLU:OE1	3:C:204:GLU:N	2.40	0.51
4:D:891:LEU:HD23	4:D:916:CYS:SG	2.51	0.51
4:D:1278:THR:OG1	4:D:1279:LYS:HE2	2.10	0.51
5:E:191:ARG:CZ	5:E:200:ALA:HB1	2.41	0.51
6:F:255:TRP:HZ3	6:F:259:TRP:HA	1.76	0.51
6:F:614:ASP:N	12:U:187:ARG:NH2	2.57	0.51
8:H:269:ALA:O	8:H:273:VAL:HG23	2.10	0.51
8:H:357:CYS:HA	8:H:362:GLN:CD	2.30	0.51
8:H:392:ASN:O	8:H:395:ARG:HG3	2.11	0.51
8:H:609:ARG:O	8:H:613:LEU:HG	2.10	0.51
8:H:721:GLN:OE1	8:H:723:MET:HG2	2.11	0.51
9:I:98:PRO:HA	9:I:440:ASN:HD21	1.75	0.51
1:J:605:ARG:O	1:J:609:LYS:HG3	2.11	0.51
1:J:634:ARG:NH2	4:M:1132:ARG:NH1	2.59	0.51
3:L:211:LYS:HE2	3:L:214:THR:HB	1.91	0.51
4:M:313:TYR:CE2	4:M:314:LYS:HE3	2.46	0.51
4:M:528:ILE:O	4:M:532:CYS:HB2	2.10	0.51
4:M:1363:LYS:HG3	4:M:1365:HIS:CE1	2.46	0.51
6:O:576:PRO:HA	6:O:579:GLU:CD	2.31	0.51
6:O:801:VAL:HG12	6:O:805:TYR:HE2	1.76	0.51
10:S:1535:LEU:HD23	10:S:1538:LEU:HD12	1.92	0.51
11:T:240:SER:HA	11:T:266:PRO:HB3	1.92	0.51
12:U:576:ILE:HA	12:U:579:ARG:NH2	2.24	0.51
12:U:721:VAL:N	12:U:731:ARG:HH21	2.09	0.51
1:A:115:GLU:O	1:A:118:THR:OG1	2.18	0.51
1:A:207:MET:HA	1:A:210:ALA:HB3	1.92	0.51
4:D:333:ASP:O	4:D:337:THR:OG1	2.25	0.51
5:E:174:HIS:NE2	5:E:176:GLU:HB2	2.25	0.51
6:F:324:PRO:HG2	6:F:632:ARG:HD2	1.93	0.51
6:F:379:THR:HB	6:F:633:LEU:CD2	2.40	0.51
6:F:688:GLU:O	6:F:692:ARG:HG2	2.10	0.51
8:H:200:ILE:HA	8:H:203:LEU:HD12	1.93	0.51
8:H:233:GLU:H	8:H:233:GLU:CD	2.14	0.51
8:H:434:GLU:O	8:H:494:ARG:CG	2.59	0.51
8:H:853:HIS:CE1	8:H:898:SER:HB3	2.45	0.51
4:M:87:CYS:HB3	4:M:554:HIS:CD2	2.45	0.51
4:M:525:GLN:HA	4:M:528:ILE:HG22	1.93	0.51
4:M:794:LEU:HD13	4:M:807:VAL:HG22	1.93	0.51
5:N:190:ILE:HB	5:N:204:LEU:HB2	1.93	0.51
6:O:371:ALA:HA	6:O:374:LYS:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:435:GLU:HB2	6:O:436:ARG:HH11	1.76	0.51
6:O:693:GLU:HB2	6:O:697:ARG:NH1	2.26	0.51
7:P:115:ASP:HB2	7:P:178:TYR:CZ	2.46	0.51
7:P:151:ILE:HD13	7:P:188:ASP:HA	1.93	0.51
7:P:257:LEU:HG	7:P:296:TRP:CG	2.46	0.51
7:P:289:LYS:NZ	7:P:291:SER:HA	2.26	0.51
8:Q:628:LYS:NZ	8:Q:675:GLN:HE21	2.09	0.51
9:R:770:ILE:HD12	9:R:789:LEU:HD13	1.92	0.51
10:S:211:LYS:HZ2	10:S:830:TYR:H	1.59	0.51
10:S:311:HIS:HA	10:S:333:TRP:HE1	1.74	0.51
10:S:1112:TRP:O	10:S:1116:THR:HG23	2.10	0.51
10:S:1261:LEU:O	10:S:1265:VAL:HG23	2.11	0.51
1:A:174:GLU:O	1:A:178:ILE:HD12	2.11	0.51
2:B:372:ARG:HG3	2:B:374:PHE:H	1.75	0.51
3:C:88:GLU:HB2	3:C:103:TRP:CZ3	2.46	0.51
4:D:1407:ILE:O	4:D:1411:LEU:HD13	2.11	0.51
6:F:576:PRO:HA	6:F:579:GLU:OE2	2.11	0.51
8:H:421:THR:N	8:H:429:LEU:HD21	2.26	0.51
8:H:784:LYS:NZ	2:K:56:THR:O	2.32	0.51
4:M:1010:MET:HG2	4:M:1012:HIS:ND1	2.26	0.51
4:M:1065:ILE:HD11	4:M:1082:LEU:HB2	1.92	0.51
4:M:1239:THR:O	4:M:1242:PHE:N	2.44	0.51
6:O:495:ASP:OD2	6:O:521:ARG:NH2	2.44	0.51
6:O:693:GLU:HB2	6:O:697:ARG:HH12	1.76	0.51
8:Q:291:ASN:OD1	8:Q:329:LEU:HB3	2.11	0.51
8:Q:294:HIS:CE1	12:U:46:LYS:HB3	2.46	0.51
8:Q:345:ILE:C	8:Q:348:GLY:H	2.14	0.51
9:R:360:TYR:HE2	9:R:395:CYS:HB3	1.76	0.51
9:R:853:PHE:HD1	9:R:881:PHE:CD1	2.27	0.51
10:S:893:VAL:HA	10:S:896:ILE:HD12	1.92	0.51
10:S:926:ILE:HA	10:S:929:LYS:HD3	1.92	0.51
10:S:1415:ARG:NH2	10:S:1416:VAL:HG23	2.25	0.51
11:T:164:HIS:HA	11:T:217:ALA:HB3	1.93	0.51
1:A:1:MET:O	1:A:399:PHE:HB3	2.11	0.51
1:A:76:HIS:HA	1:A:421:TYR:OH	2.11	0.51
2:B:18:ARG:NH1	2:B:19:TRP:HB2	2.25	0.51
2:B:179:ARG:HG2	2:B:180:THR:H	1.74	0.51
2:B:191:GLN:HG3	2:B:193:LYS:HG3	1.92	0.51
3:C:277:HIS:HA	3:C:303:ARG:NE	2.26	0.51
3:C:308:ASN:HD21	3:C:310:MET:HB2	1.75	0.51
3:C:318:VAL:HG12	3:C:320:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1141:ILE:HG12	4:D:1177:LEU:HB2	1.92	0.51
5:E:272:TYR:CD1	5:E:273:PRO:HD2	2.46	0.51
6:F:336:LYS:HA	6:F:341:PRO:HA	1.93	0.51
6:F:535:LEU:HD12	6:F:556:TYR:HD2	1.76	0.51
7:G:164:PRO:HG2	7:G:224:GLY:N	2.26	0.51
7:G:213:TRP:O	7:G:235:GLN:HG2	2.10	0.51
8:H:692:ALA:O	8:H:694:LYS:NZ	2.38	0.51
9:I:648:VAL:HG13	9:I:649:LEU:HD22	1.92	0.51
1:J:25:PHE:CD1	1:J:32:LEU:HD11	2.46	0.51
1:J:107:SER:O	1:J:110:ARG:HD3	2.11	0.51
1:J:473:MET:HE1	3:L:69:GLU:HG3	1.92	0.51
4:M:168:HIS:HB3	4:M:171:ARG:HG2	1.93	0.51
4:M:324:MET:HE3	4:M:370:CYS:HB2	1.92	0.51
4:M:1195:LEU:HA	4:M:1198:HIS:HE1	1.70	0.51
5:N:43:TYR:HE1	5:N:70:HIS:ND1	2.08	0.51
7:P:35:ARG:NH2	7:P:60:VAL:HG23	2.26	0.51
8:Q:295:THR:HA	8:Q:298:GLN:HG3	1.93	0.51
8:Q:337:LEU:HD23	8:Q:340:TYR:CD2	2.46	0.51
8:Q:629:THR:HA	8:Q:632:GLU:CD	2.31	0.51
9:R:993:PRO:HD2	9:R:996:LEU:HD23	1.93	0.51
10:S:836:LYS:O	10:S:839:LEU:HB3	2.11	0.51
10:S:1078:MET:HG3	10:S:1082:ARG:NH2	2.26	0.51
10:S:1331:PRO:HA	10:S:1415:ARG:HH12	1.76	0.51
10:S:1590:ARG:HH11	10:S:1615:TYR:HD2	1.59	0.51
1:A:231:LEU:O	1:A:235:LEU:HG	2.10	0.50
1:A:470:THR:O	1:A:473:MET:HG3	2.11	0.50
1:A:486:SER:OG	1:A:487:TRP:HD1	1.93	0.50
2:B:222:ARG:HA	2:B:230:VAL:HG12	1.92	0.50
3:C:106:ARG:HB3	3:C:151:SER:HA	1.94	0.50
4:D:670:ASN:H	11:T:362:GLY:HA3	1.74	0.50
4:D:1180:ARG:NH2	4:D:1233:THR:HG23	2.25	0.50
4:D:1385:TYR:HA	4:D:1388:ILE:HD12	1.92	0.50
5:E:4:ASP:H	5:E:293:ILE:CG1	2.22	0.50
5:E:174:HIS:HE2	5:E:221:THR:HG22	1.76	0.50
6:F:358:TRP:CZ2	6:F:362:PHE:HB2	2.47	0.50
6:F:371:ALA:HA	6:F:374:LYS:HD2	1.92	0.50
6:F:401:ASN:O	6:F:405:LYS:HG2	2.11	0.50
7:G:33:SER:HB2	7:G:59:PRO:HB3	1.93	0.50
8:H:315:ASP:OD2	8:H:321:ARG:NH2	2.44	0.50
8:H:345:ILE:C	8:H:348:GLY:H	2.14	0.50
8:H:427:LYS:HA	8:H:430:LEU:HG	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:777:VAL:O	8:H:780:GLU:HB2	2.11	0.50
1:J:490:ARG:HG3	2:K:26:SER:N	2.26	0.50
4:M:210:ARG:NH1	4:M:211:ALA:O	2.42	0.50
6:O:265:GLY:HA3	7:P:303:ASN:O	2.11	0.50
6:O:504:ARG:NH2	6:O:527:SER:OG	2.44	0.50
8:Q:593:ILE:HG23	8:Q:626:ILE:HD13	1.92	0.50
9:R:697:LEU:HD22	9:R:707:TRP:CD1	2.46	0.50
9:R:993:PRO:HD3	9:R:1019:TYR:HE1	1.75	0.50
10:S:565:HIS:CE1	10:S:584:ARG:HB3	2.46	0.50
10:S:698:TYR:O	10:S:702:ARG:NH1	2.44	0.50
10:S:1336:ALA:O	10:S:1340:LEU:HG	2.11	0.50
10:S:1781:PHE:HA	10:S:1809:PRO:O	2.10	0.50
12:U:376:TYR:CD1	12:U:380:VAL:HB	2.43	0.50
12:U:651:VAL:O	12:U:661:ARG:NH2	2.45	0.50
12:U:791:ARG:O	12:U:795:THR:HG23	2.11	0.50
12:U:796:PHE:O	12:U:800:ILE:HG23	2.11	0.50
1:A:264:GLU:HB3	1:A:268:GLN:HE22	1.77	0.50
4:D:1347:GLU:O	4:D:1351:GLU:OE1	2.28	0.50
5:E:237:MET:O	5:E:239:ARG:NH1	2.44	0.50
5:E:258:ARG:HH21	5:E:304:TRP:H	1.59	0.50
5:E:305:HIS:HE1	5:E:307:ARG:HD3	1.76	0.50
6:F:796:GLU:HA	6:F:800:LYS:HZ2	1.76	0.50
7:G:103:ASP:OD1	7:G:104:SER:N	2.44	0.50
8:H:211:TRP:NE1	8:H:540:PHE:HE1	2.10	0.50
8:H:370:GLU:HA	8:H:373:LYS:NZ	2.26	0.50
8:H:454:GLN:O	8:H:457:ARG:HG3	2.10	0.50
8:H:772:SER:HB2	8:H:775:GLU:HG3	1.94	0.50
9:I:843:ALA:HA	5:N:1:MET:CE	2.41	0.50
9:I:913:LEU:HB3	9:I:920:SER:HB2	1.93	0.50
9:I:1076:PRO:HB3	9:I:1127:SER:HA	1.93	0.50
3:L:304:LEU:HB2	3:L:316:ILE:HG13	1.92	0.50
4:M:306:HIS:NE2	4:M:334:ILE:HG22	2.25	0.50
4:M:1279:LYS:H	10:S:1243:GLY:HA3	1.77	0.50
6:O:597:GLN:OE1	6:O:623:SER:HB2	2.12	0.50
6:O:601:CYS:O	6:O:604:LEU:HB2	2.11	0.50
7:P:185:GLY:HA2	7:P:191:VAL:HA	1.93	0.50
8:Q:144:MET:HA	8:Q:147:TYR:CD2	2.47	0.50
8:Q:421:THR:N	8:Q:429:LEU:HD21	2.26	0.50
9:R:642:HIS:ND1	9:R:717:ILE:HG13	2.26	0.50
9:R:681:GLN:HB3	9:R:684:ILE:HD12	1.92	0.50
10:S:226:GLN:NE2	10:S:270:THR:HG21	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:338:ARG:HG3	10:S:399:LEU:HD22	1.92	0.50
10:S:1498:LEU:CD2	10:S:1501:ARG:HH22	2.24	0.50
10:S:1713:GLN:O	10:S:1720:ARG:NH2	2.44	0.50
10:S:1815:ILE:HG12	10:S:1819:LYS:HE2	1.92	0.50
12:U:641:GLU:HB3	12:U:645:LYS:NZ	2.26	0.50
1:A:27:TRP:HZ3	3:C:288:ILE:H	1.53	0.50
1:A:437:MET:HE1	1:A:467:ILE:HG12	1.93	0.50
1:A:593:GLU:OE1	1:A:593:GLU:N	2.29	0.50
1:A:639:ARG:O	1:A:643:ARG:HG2	2.11	0.50
4:D:431:GLN:CG	11:T:115:LYS:HB2	2.42	0.50
4:D:1115:ARG:HA	4:D:1118:GLN:NE2	2.26	0.50
5:E:151:ILE:O	5:E:159:ILE:N	2.44	0.50
6:F:763:LEU:HB3	6:F:776:LEU:HD11	1.92	0.50
6:F:924:SER:N	11:T:986:ARG:HE	2.10	0.50
8:H:605:ASP:HB3	8:H:608:GLN:CG	2.35	0.50
8:H:877:GLN:HG3	8:H:879:LEU:HG	1.94	0.50
1:J:260:ARG:NH2	1:J:286:LEU:O	2.44	0.50
1:J:469:LYS:HG3	1:J:496:PHE:CE2	2.47	0.50
3:L:21:ASP:CG	3:L:25:ARG:H	2.11	0.50
4:M:220:TRP:CD2	4:M:290:VAL:HG21	2.45	0.50
4:M:525:GLN:O	4:M:528:ILE:HG22	2.12	0.50
6:O:261:LEU:O	6:O:306:VAL:HA	2.11	0.50
6:O:375:GLN:O	6:O:378:LEU:HB3	2.11	0.50
6:O:450:ILE:HD13	8:Q:394:TYR:HE2	1.75	0.50
6:O:479:ARG:O	6:O:483:THR:HG23	2.12	0.50
6:O:535:LEU:HD12	6:O:556:TYR:HD2	1.76	0.50
9:R:658:LEU:HA	9:R:661:ARG:HG2	1.92	0.50
10:S:447:TYR:HD2	10:S:516:GLY:O	1.93	0.50
10:S:756:TRP:HB3	10:S:838:HIS:CB	2.41	0.50
10:S:1317:HIS:CG	10:S:1401:ASN:HB3	2.46	0.50
10:S:1845:LEU:HB2	10:S:1850:ILE:HD11	1.92	0.50
1:A:235:LEU:O	1:A:238:MET:HG3	2.11	0.50
2:B:6:ALA:HB3	2:B:369:VAL:HG23	1.94	0.50
3:C:122:ALA:HB3	3:C:129:MET:H	1.76	0.50
3:C:287:ASN:ND2	3:C:291:THR:OG1	2.44	0.50
4:D:588:LEU:HD22	4:D:610:ILE:HG21	1.93	0.50
4:D:1337:LEU:HD13	4:D:1352:LEU:HD12	1.93	0.50
6:F:504:ARG:NH2	6:F:527:SER:OG	2.44	0.50
8:H:764:LYS:HD3	8:H:766:THR:N	2.19	0.50
9:I:466:ARG:HD2	9:I:466:ARG:C	2.31	0.50
9:I:570:PRO:HD2	11:T:567:THR:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:81:MET:HA	2:K:90:VAL:O	2.12	0.50
2:K:149:ARG:NH1	2:K:163:THR:OG1	2.44	0.50
3:L:216:MET:O	3:L:217:SER:OG	2.25	0.50
4:M:95:LEU:H	4:M:849:HIS:HD2	1.57	0.50
4:M:810:ARG:CZ	4:M:822:LEU:HD12	2.42	0.50
4:M:1114:LEU:O	4:M:1118:GLN:HG2	2.11	0.50
6:O:326:GLU:O	6:O:329:LEU:HB3	2.11	0.50
6:O:410:ARG:HE	6:O:549:VAL:HG22	1.74	0.50
7:P:67:HIS:HB3	7:P:70:TYR:HE2	1.76	0.50
7:P:170:GLN:OE1	7:P:170:GLN:N	2.40	0.50
7:P:258:HIS:HB3	7:P:260:PHE:CE1	2.46	0.50
8:Q:596:TYR:CD2	8:Q:626:ILE:HG13	2.47	0.50
8:Q:808:ILE:HG21	8:Q:852:LEU:HB2	1.94	0.50
9:R:172:PRO:HA	9:R:200:CYS:H	1.76	0.50
9:R:311:SER:OG	9:R:325:LYS:NZ	2.32	0.50
10:S:383:GLU:HG2	10:S:452:PHE:CG	2.47	0.50
10:S:541:ASN:OD1	10:S:548:SER:OG	2.28	0.50
10:S:912:GLU:HG3	10:S:915:LYS:HE3	1.92	0.50
10:S:1757:SER:HA	10:S:1894:TYR:HE2	1.76	0.50
10:S:1791:ARG:HD2	10:S:1813:VAL:HG22	1.91	0.50
11:T:331:LEU:HD23	11:T:414:LEU:HG	1.92	0.50
1:A:69:ARG:HG3	1:A:70:LYS:HD3	1.93	0.50
1:A:102:SER:HB3	1:A:106:ARG:HH12	1.75	0.50
1:A:283:ARG:HB3	1:A:288:ASP:HB2	1.93	0.50
4:D:870:TRP:HD1	4:D:873:ASN:H	1.60	0.50
4:D:1365:HIS:CD2	4:D:1372:ALA:H	2.30	0.50
5:E:103:LYS:HZ1	5:E:121:GLU:HA	1.77	0.50
6:F:346:ASN:N	6:F:347:PRO:CD	2.74	0.50
6:F:578:LEU:HD22	6:F:597:GLN:HG2	1.94	0.50
8:H:660:ARG:HA	8:H:663:ILE:HD12	1.93	0.50
9:I:791:ALA:HA	9:I:794:ASN:ND2	2.26	0.50
9:I:881:PHE:O	9:I:885:LEU:HG	2.11	0.50
1:J:487:TRP:CD2	1:J:490:ARG:NH2	2.72	0.50
1:J:489:ILE:O	2:K:27:LEU:HG	2.12	0.50
2:K:302:ARG:NH2	2:K:321:LEU:HB3	2.26	0.50
3:L:270:THR:HG22	3:L:273:GLN:OE1	2.12	0.50
4:M:149:ASN:HA	4:M:171:ARG:HG3	1.93	0.50
4:M:1362:GLY:O	4:M:1374:LEU:HB2	2.12	0.50
4:M:1402:GLN:NE2	4:M:1405:GLN:OE1	2.36	0.50
6:O:475:SER:HB3	8:Q:391:GLY:H	1.76	0.50
7:P:197:GLU:CD	7:P:202:LYS:HB2	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:30:LYS:HB3	10:S:32:GLN:HE22	1.77	0.50
10:S:390:HIS:NE2	10:S:459:GLU:OE1	2.42	0.50
10:S:1451:LEU:HD11	10:S:1505:VAL:HG12	1.93	0.50
1:A:10:GLU:HG2	3:C:318:VAL:HB	1.94	0.50
1:A:344:ASP:OD1	1:A:345:ASN:N	2.43	0.50
2:B:49:ALA:HB2	2:B:69:LEU:HD11	1.93	0.50
2:B:219:CYS:HB3	2:B:263:GLU:HA	1.92	0.50
3:C:145:PRO:CD	3:C:152:GLN:HE21	2.24	0.50
4:D:524:ARG:NH2	5:E:200:ALA:O	2.45	0.50
4:D:1267:LEU:HD13	4:D:1286:GLU:OE1	2.12	0.50
5:E:18:TYR:HA	5:E:317:ARG:H	1.76	0.50
6:F:572:TYR:HE1	6:F:597:GLN:O	1.95	0.50
6:F:574:LEU:HD13	6:F:578:LEU:HG	1.94	0.50
6:F:807:SER:O	6:F:810:GLU:HG3	2.11	0.50
7:G:14:ASP:OD1	7:G:15:MET:N	2.45	0.50
7:G:26:ILE:HA	7:G:42:VAL:HB	1.93	0.50
8:H:582:PHE:O	8:H:586:HIS:ND1	2.44	0.50
9:I:243:LEU:HD22	9:I:254:PHE:HD1	1.75	0.50
3:L:243:LYS:HA	3:L:281:VAL:H	1.76	0.50
4:M:1217:LEU:O	4:M:1220:GLN:NE2	2.43	0.50
4:M:1238:LEU:HB3	4:M:1242:PHE:CE2	2.46	0.50
4:M:1238:LEU:HB2	4:M:1305:TYR:CZ	2.46	0.50
7:P:163:ILE:HG21	7:P:179:ILE:H	1.76	0.50
9:R:86:VAL:HG11	9:R:454:PHE:HZ	1.77	0.50
9:R:646:LEU:HD13	9:R:649:LEU:HD12	1.92	0.50
9:R:782:ARG:HA	9:R:785:LEU:HD12	1.92	0.50
10:S:193:ILE:HB	10:S:225:GLN:NE2	2.27	0.50
10:S:609:GLU:HG3	10:S:612:ARG:NH1	2.27	0.50
10:S:635:ILE:HG13	10:S:636:PRO:HD2	1.94	0.50
10:S:740:VAL:O	10:S:744:TYR:N	2.43	0.50
11:T:575:ALA:O	11:T:578:LEU:HG	2.11	0.50
11:T:999:LYS:HA	11:T:1006:ARG:NE	2.26	0.50
12:U:683:GLU:HB3	12:U:686:ILE:HD13	1.94	0.50
1:A:242:HIS:HB2	1:A:252:PHE:CD1	2.47	0.50
1:A:500:ILE:HG12	1:A:503:ARG:HE	1.76	0.50
1:A:514:PHE:CZ	1:A:539:TYR:CD2	2.98	0.50
3:C:88:GLU:OE2	3:C:101:SER:HB2	2.11	0.50
4:D:669:ARG:HB3	11:T:369:HIS:HD2	1.76	0.50
4:D:838:HIS:HA	4:D:841:ILE:HD12	1.93	0.50
4:D:1257:GLU:O	4:D:1260:GLN:NE2	2.45	0.50
4:D:1415:MET:O	4:D:1418:TYR:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:103:LYS:HZ2	5:E:122:GLY:H	1.59	0.50
8:H:124:GLU:HA	8:H:127:THR:HG22	1.93	0.50
8:H:206:GLN:HB2	8:H:503:TYR:CD2	2.46	0.50
8:H:276:PHE:HA	8:H:279:ASN:ND2	2.25	0.50
9:I:889:TYR:HA	9:I:894:LYS:HZ3	1.76	0.50
1:J:309:ARG:HH22	1:J:325:TYR:HA	1.77	0.50
1:J:320:THR:O	1:J:323:HIS:NE2	2.45	0.50
1:J:599:MET:O	1:J:603:GLU:OE1	2.30	0.50
3:L:307:ALA:HA	3:L:312:ASN:O	2.12	0.50
4:M:78:LYS:HB2	9:R:188:TYR:CZ	2.46	0.50
6:O:266:ASP:N	7:P:303:ASN:OD1	2.25	0.50
6:O:291:PRO:HA	10:S:725:ARG:NH1	2.26	0.50
6:O:358:TRP:CZ2	6:O:362:PHE:HB2	2.46	0.50
6:O:533:ARG:O	6:O:537:ILE:HG12	2.10	0.50
6:O:576:PRO:HA	6:O:579:GLU:OE2	2.11	0.50
6:O:676:PHE:O	6:O:680:HIS:CE1	2.65	0.50
6:O:798:ALA:O	6:O:801:VAL:HB	2.12	0.50
8:Q:297:LYS:O	8:Q:301:MET:CB	2.59	0.50
8:Q:392:ASN:O	8:Q:395:ARG:HG3	2.11	0.50
8:Q:885:LYS:O	8:Q:889:ARG:HG2	2.12	0.50
9:R:82:LEU:HD12	9:R:86:VAL:HB	1.94	0.50
9:R:869:LEU:HG	9:R:881:PHE:HE2	1.77	0.50
9:R:1014:GLN:HE22	9:R:1018:LEU:HD11	1.76	0.50
10:S:624:VAL:O	10:S:628:LEU:HG	2.11	0.50
10:S:1059:LEU:O	10:S:1063:VAL:HG23	2.12	0.50
10:S:1753:GLN:OE1	10:S:1888:LEU:HA	2.12	0.50
11:T:578:LEU:HA	11:T:581:VAL:HG12	1.94	0.50
11:T:829:LEU:HD13	11:T:863:VAL:HG21	1.94	0.50
12:U:463:TYR:O	12:U:467:LEU:HG	2.12	0.50
1:A:50:ARG:HH12	3:C:37:LYS:HZ2	1.58	0.50
1:A:167:TRP:CD1	1:A:171:HIS:CE1	3.00	0.50
3:C:184:VAL:O	3:C:197:VAL:HA	2.12	0.50
3:C:237:ILE:HA	3:C:248:PHE:O	2.12	0.50
3:C:304:LEU:HB2	3:C:317:GLY:N	2.27	0.50
4:D:366:GLN:HE21	4:D:391:PHE:HE2	1.60	0.50
4:D:637:SER:O	4:D:641:VAL:HG23	2.12	0.50
4:D:1347:GLU:OE1	4:D:1347:GLU:N	2.35	0.50
5:E:303:SER:HB3	5:E:312:VAL:CG1	2.42	0.50
6:F:380:TRP:CD2	6:F:633:LEU:HD12	2.47	0.50
6:F:410:ARG:HE	6:F:549:VAL:HG22	1.74	0.50
6:F:479:ARG:O	6:F:483:THR:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:731:VAL:HG23	6:F:734:ARG:HH21	1.76	0.50
7:G:187:CYS:O	7:G:213:TRP:NE1	2.45	0.50
7:G:215:ARG:HD3	7:G:264:VAL:O	2.11	0.50
8:H:390:GLU:HG2	8:H:390:GLU:O	2.12	0.50
8:H:676:ARG:HH21	8:H:713:GLU:CD	2.14	0.50
9:I:103:ILE:HD13	9:I:452:VAL:HG12	1.92	0.50
1:J:136:ILE:O	1:J:140:MET:HG2	2.12	0.50
1:J:265:ARG:HH21	1:J:268:GLN:HG3	1.75	0.50
1:J:284:VAL:HG13	1:J:292:LEU:HD21	1.94	0.50
1:J:398:GLU:HA	1:J:401:LEU:HD12	1.93	0.50
2:K:88:ARG:HG2	2:K:102:ARG:HH11	1.77	0.50
4:M:1081:GLU:O	4:M:1084:TYR:HB3	2.11	0.50
6:O:254:GLY:O	6:O:261:LEU:HD12	2.12	0.50
6:O:466:SER:HA	6:O:469:LEU:HD12	1.94	0.50
6:O:650:SER:HB2	6:O:653:ARG:HD3	1.93	0.50
8:Q:370:GLU:HA	8:Q:373:LYS:NZ	2.27	0.50
8:Q:591:LEU:O	8:Q:595:GLN:HG2	2.12	0.50
8:Q:772:SER:HB2	8:Q:775:GLU:HG2	1.94	0.50
9:R:1030:ASN:O	9:R:1034:LYS:HG2	2.12	0.50
10:S:226:GLN:HE22	10:S:270:THR:HG21	1.77	0.50
10:S:672:THR:HG22	10:S:726:ALA:HB3	1.94	0.50
10:S:1006:TYR:HE1	10:S:1016:ASN:HA	1.76	0.50
10:S:1037:LEU:HD13	10:S:1061:TYR:HE1	1.76	0.50
10:S:1832:HIS:CE1	10:S:1882:ILE:HG23	2.47	0.50
11:T:405:TRP:CD1	11:T:425:TYR:HB2	2.47	0.50
12:U:228:VAL:O	12:U:232:THR:HG23	2.11	0.50
12:U:538:ARG:HA	12:U:541:GLU:HG3	1.94	0.50
12:U:637:ASP:OD1	12:U:638:LYS:N	2.40	0.50
1:A:260:ARG:HD2	1:A:264:GLU:OE2	2.12	0.50
1:A:480:ARG:HG3	1:A:483:SER:H	1.77	0.50
1:A:545:MET:O	1:A:550:GLN:N	2.31	0.50
4:D:1195:LEU:O	4:D:1202:THR:OG1	2.30	0.50
5:E:18:TYR:CD1	5:E:316:TYR:HA	2.42	0.50
6:F:612:GLN:HG2	12:U:186:ALA:CB	2.38	0.50
8:H:337:LEU:HD23	8:H:340:TYR:CD2	2.47	0.50
9:I:785:LEU:O	9:I:788:GLN:HG3	2.11	0.50
9:I:1135:TYR:O	9:I:1139:GLN:HG2	2.12	0.50
1:J:461:THR:O	1:J:465:ARG:HG2	2.12	0.50
2:K:219:CYS:O	2:K:232:THR:HA	2.11	0.50
4:M:480:GLN:HB3	4:M:489:VAL:HB	1.93	0.50
4:M:1025:ASP:OD2	4:M:1027:SER:OG	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1066:GLU:OE1	4:M:1070:ARG:NH1	2.45	0.50
4:M:1120:GLN:HB3	4:M:1124:TYR:CZ	2.47	0.50
4:M:1130:CYS:HA	4:M:1133:LEU:HD12	1.94	0.50
4:M:1193:LEU:O	4:M:1197:LYS:HG3	2.12	0.50
4:M:1394:ALA:HA	4:M:1397:GLU:HG2	1.94	0.50
6:O:238:THR:N	6:O:299:GLU:OE2	2.45	0.50
6:O:591:ALA:O	6:O:594:ILE:HG12	2.12	0.50
6:O:846:SER:O	6:O:850:ARG:HG3	2.11	0.50
7:P:195:ARG:HH11	7:P:196:GLU:H	1.59	0.50
8:Q:143:THR:HA	8:Q:146:MET:CE	2.41	0.50
9:R:172:PRO:HB3	9:R:199:LEU:HA	1.93	0.50
10:S:24:VAL:HG13	10:S:28:LEU:HD12	1.94	0.50
10:S:743:ARG:O	10:S:746:THR:OG1	2.23	0.50
10:S:854:LEU:O	10:S:857:GLU:HG3	2.12	0.50
10:S:1624:GLN:O	10:S:1627:GLN:HG3	2.11	0.50
11:T:297:VAL:HG21	11:T:347:THR:HB	1.94	0.50
12:U:107:ASP:O	12:U:110:LEU:HG	2.12	0.50
12:U:193:ASN:HD21	12:U:554:PHE:HE1	1.58	0.50
12:U:240:SER:O	12:U:244:LYS:NZ	2.39	0.50
12:U:270:TYR:HA	12:U:273:ILE:HD12	1.94	0.50
12:U:278:ASN:O	12:U:281:GLN:N	2.45	0.50
12:U:336:GLN:HA	12:U:339:VAL:HG12	1.94	0.50
1:A:51:CYS:H	3:C:9:ALA:HA	1.76	0.49
1:A:242:HIS:HB2	1:A:252:PHE:HD1	1.77	0.49
1:A:444:THR:HG21	1:A:447:LYS:HZ3	1.77	0.49
1:A:591:SER:CB	1:A:594:GLN:HE21	2.25	0.49
3:C:303:ARG:HA	3:C:317:GLY:O	2.11	0.49
4:D:706:GLY:HA3	4:D:829:ARG:HH11	1.76	0.49
6:F:435:GLU:HB2	6:F:436:ARG:HH11	1.76	0.49
6:F:466:SER:HA	6:F:469:LEU:HD12	1.94	0.49
6:F:642:GLN:HA	12:U:175:ARG:NH1	2.27	0.49
7:G:198:ASP:HB3	7:G:202:LYS:HZ2	1.77	0.49
7:G:200:GLN:HG2	7:G:202:LYS:HZ3	1.77	0.49
8:H:784:LYS:HD2	2:K:55:ALA:HB1	1.94	0.49
9:I:269:LEU:HD13	9:I:335:LEU:HG	1.94	0.49
1:J:634:ARG:HH12	4:M:1132:ARG:CG	2.22	0.49
1:J:648:GLU:HA	1:J:651:LEU:HD12	1.94	0.49
2:K:5:PHE:HA	2:K:369:VAL:O	2.12	0.49
4:M:346:LEU:HD12	4:M:355:LEU:HD11	1.94	0.49
6:O:637:MET:O	6:O:641:LEU:HG	2.12	0.49
7:P:89:GLU:O	7:P:92:THR:OG1	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:391:GLY:HA3	8:Q:395:ARG:HH21	1.77	0.49
8:Q:651:LEU:HD12	12:U:654:ILE:HD11	1.94	0.49
8:Q:860:LYS:HA	8:Q:862:TYR:CZ	2.47	0.49
9:R:568:SER:O	9:R:677:ARG:NH1	2.44	0.49
9:R:771:LEU:O	9:R:775:PRO:HD3	2.11	0.49
10:S:1079:ARG:HA	10:S:1082:ARG:HE	1.76	0.49
10:S:1097:PHE:CD2	10:S:1109:GLN:HB3	2.37	0.49
11:T:543:LEU:HD22	11:T:566:TRP:HH2	1.77	0.49
11:T:659:ARG:CZ	11:T:659:ARG:HA	2.42	0.49
12:U:67:ARG:HG3	12:U:96:THR:HB	1.94	0.49
12:U:190:TYR:O	12:U:194:GLU:HG3	2.12	0.49
3:C:207:ARG:HH12	4:D:1253:GLN:HE22	1.60	0.49
3:C:308:ASN:OD1	3:C:311:ASP:N	2.45	0.49
4:D:402:PHE:HB3	4:D:409:ILE:HD13	1.93	0.49
4:D:452:ASP:OD2	4:D:525:GLN:NE2	2.45	0.49
4:D:715:CYS:HA	4:D:718:ILE:HG12	1.94	0.49
4:D:1428:ASP:HA	4:D:1431:LYS:HD2	1.94	0.49
5:E:272:TYR:CE2	5:E:275:LYS:HG2	2.46	0.49
6:F:650:SER:OG	6:F:653:ARG:NH1	2.45	0.49
7:G:160:PRO:HG2	7:G:219:TRP:CD1	2.46	0.49
7:G:215:ARG:NH1	7:G:263:VAL:HG12	2.27	0.49
8:H:144:MET:HA	8:H:147:TYR:CE2	2.47	0.49
8:H:439:THR:CG2	8:H:495:VAL:HG21	2.42	0.49
9:I:88:GLU:HB2	9:I:116:ARG:HH22	1.76	0.49
9:I:691:ASP:HA	9:I:694:GLU:OE2	2.12	0.49
3:L:80:ASP:N	3:L:80:ASP:OD1	2.43	0.49
3:L:107:THR:HB	3:L:153:TRP:CZ3	2.48	0.49
4:M:541:TYR:HB2	9:R:84:VAL:HG22	1.95	0.49
4:M:641:VAL:O	4:M:645:ILE:HG12	2.11	0.49
4:M:1261:ALA:HA	4:M:1264:TRP:CD1	2.47	0.49
5:N:282:ILE:O	5:N:291:ILE:N	2.45	0.49
6:O:387:TRP:HA	6:O:409:ARG:NH2	2.27	0.49
6:O:571:CYS:HB3	6:O:583:PHE:CE2	2.47	0.49
8:Q:427:LYS:HA	8:Q:430:LEU:HG	1.93	0.49
9:R:685:ILE:O	9:R:689:LEU:HD23	2.12	0.49
9:R:853:PHE:CD1	9:R:881:PHE:HD1	2.28	0.49
9:R:1013:PHE:CE2	9:R:1053:LEU:HD11	2.47	0.49
10:S:1317:HIS:O	10:S:1321:LEU:HB2	2.12	0.49
10:S:1500:ASP:HA	10:S:1561:ARG:HD3	1.93	0.49
12:U:224:LEU:HA	12:U:227:MET:HE1	1.94	0.49
12:U:295:ARG:O	12:U:317:TYR:OH	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:575:VAL:O	12:U:579:ARG:NH2	2.36	0.49
12:U:708:ILE:HG23	12:U:756:ILE:HD12	1.94	0.49
1:A:302:TRP:HB3	1:A:333:PHE:CD1	2.47	0.49
2:B:372:ARG:HH12	2:B:374:PHE:HD2	1.60	0.49
3:C:273:GLN:OE1	3:C:274:PHE:N	2.45	0.49
4:D:964:ARG:HB2	4:D:967:ARG:HH21	1.77	0.49
4:D:1002:ARG:O	4:D:1005:LYS:HG2	2.12	0.49
5:E:18:TYR:N	5:E:317:ARG:HD2	2.28	0.49
5:E:152:TRP:CZ2	5:E:158:GLN:NE2	2.80	0.49
5:E:218:VAL:HG23	5:E:259:TRP:HB3	1.93	0.49
6:F:387:TRP:HE3	6:F:637:MET:HE1	1.76	0.49
6:F:557:GLU:OE2	6:F:558:GLN:HG3	2.13	0.49
6:F:576:PRO:CG	6:F:624:ALA:O	2.54	0.49
6:F:911:GLY:HA2	6:F:914:GLN:NE2	2.27	0.49
8:H:297:LYS:O	8:H:301:MET:CB	2.59	0.49
8:H:839:LEU:HA	8:H:842:ARG:HE	1.76	0.49
1:J:369:TRP:HA	1:J:372:VAL:HG22	1.94	0.49
1:J:418:GLY:HA2	1:J:421:TYR:HD2	1.78	0.49
3:L:87:GLU:O	3:L:103:TRP:HA	2.11	0.49
4:M:105:TRP:HA	4:M:113:GLU:O	2.12	0.49
4:M:220:TRP:NE1	4:M:228:LEU:HD12	2.27	0.49
4:M:448:LEU:HD12	4:M:460:TYR:CD1	2.47	0.49
4:M:1079:TYR:HA	4:M:1082:LEU:HG	1.94	0.49
4:M:1106:ARG:HH21	4:M:1149:VAL:HB	1.77	0.49
6:O:645:ASN:O	6:O:648:HIS:NE2	2.44	0.49
6:O:747:LEU:HD21	6:O:788:HIS:CE1	2.47	0.49
7:P:53:LEU:HD21	7:P:86:TRP:CD2	2.48	0.49
8:Q:134:GLN:HE21	12:U:163:GLU:CB	2.11	0.49
8:Q:180:LEU:HD23	8:Q:183:ILE:HD12	1.93	0.49
8:Q:264:TRP:O	8:Q:267:SER:OG	2.25	0.49
8:Q:604:THR:HG22	8:Q:668:TRP:HH2	1.77	0.49
8:Q:642:PHE:HZ	8:Q:689:LYS:HE3	1.78	0.49
9:R:496:ARG:HD3	9:R:510:LYS:HG2	1.93	0.49
9:R:940:LEU:HA	9:R:943:MET:HG3	1.94	0.49
9:R:1070:THR:HG22	9:R:1123:TYR:HD2	1.76	0.49
10:S:692:GLU:HB3	10:S:698:TYR:HD1	1.77	0.49
10:S:702:ARG:HH11	10:S:758:VAL:HG22	1.75	0.49
10:S:1534:VAL:O	10:S:1538:LEU:HG	2.12	0.49
11:T:501:LEU:HD11	11:T:515:GLY:HA3	1.94	0.49
11:T:807:ILE:O	11:T:811:GLN:HG3	2.12	0.49
12:U:25:GLU:O	12:U:32:ASN:ND2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:533:LEU:O	12:U:537:THR:HG23	2.12	0.49
12:U:576:ILE:O	12:U:579:ARG:NE	2.45	0.49
3:C:117:THR:OG1	3:C:133:CYS:SG	2.56	0.49
3:C:169:SER:O	3:C:227:PHE:HE2	1.95	0.49
3:C:284:VAL:HA	3:C:294:ALA:O	2.12	0.49
3:C:305:TRP:CE2	3:C:315:CYS:HB2	2.48	0.49
4:D:551:LEU:HD23	4:D:562:LEU:HA	1.94	0.49
4:D:1302:ASN:HB2	4:D:1304:LEU:HD12	1.94	0.49
5:E:227:VAL:HG13	5:E:257:PHE:HB2	1.93	0.49
6:F:278:ARG:CZ	6:F:294:ALA:HA	2.42	0.49
6:F:340:CYS:SG	6:F:721:PRO:HD2	2.53	0.49
6:F:571:CYS:HB3	6:F:583:PHE:CE2	2.47	0.49
9:I:703:ASP:H	4:M:1154:GLY:HA2	1.78	0.49
9:I:728:TYR:CZ	9:I:732:LYS:HG3	2.47	0.49
9:I:855:ILE:HD12	9:I:858:GLN:HE21	1.77	0.49
9:I:858:GLN:HB2	9:I:862:MET:HE1	1.94	0.49
1:J:370:TRP:HB3	1:J:404:TYR:CZ	2.46	0.49
2:K:18:ARG:HD3	2:K:83:PHE:CD2	2.47	0.49
3:L:85:VAL:HG11	3:L:153:TRP:CZ2	2.47	0.49
6:O:573:PRO:O	6:O:574:LEU:HD23	2.12	0.49
8:Q:814:PHE:O	8:Q:818:GLY:N	2.41	0.49
8:Q:880:TYR:CD2	8:Q:881:THR:HG22	2.48	0.49
9:R:502:HIS:HA	9:R:505:LYS:HE3	1.94	0.49
9:R:606:LEU:HD23	9:R:609:ARG:HD3	1.94	0.49
9:R:763:VAL:HG11	9:R:796:LEU:HD22	1.94	0.49
10:S:1178:ARG:O	10:S:1182:ARG:HG2	2.12	0.49
11:T:617:GLN:O	11:T:621:GLN:HG2	2.12	0.49
12:U:20:THR:O	12:U:26:LEU:HB2	2.13	0.49
1:A:412:HIS:CE1	2:B:180:THR:HG23	2.47	0.49
1:A:475:SER:HB3	1:A:483:SER:HB2	1.94	0.49
2:B:53:PHE:O	2:B:57:SER:HB3	2.13	0.49
2:B:221:ASP:HB3	2:B:266:PHE:CZ	2.48	0.49
4:D:306:HIS:CE1	4:D:337:THR:HB	2.48	0.49
4:D:479:ILE:HD11	4:D:501:VAL:HG22	1.94	0.49
4:D:669:ARG:HA	11:T:362:GLY:HA3	1.93	0.49
4:D:1248:LYS:HD2	4:D:1251:ARG:NH2	2.28	0.49
7:G:141:GLU:OE1	7:G:141:GLU:N	2.38	0.49
8:H:808:ILE:HG21	8:H:852:LEU:HB2	1.95	0.49
2:K:194:LEU:HD23	2:K:208:PHE:HE2	1.77	0.49
4:M:55:GLU:HG2	4:M:814:SER:H	1.76	0.49
4:M:444:PRO:HB3	4:M:470:PHE:CZ	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:832:PHE:HB3	4:M:836:PHE:CE2	2.48	0.49
4:M:1101:PHE:HB2	4:M:1127:CYS:SG	2.51	0.49
6:O:785:ARG:HB2	6:O:788:HIS:CG	2.47	0.49
8:Q:126:ILE:HG21	12:U:159:THR:HA	1.95	0.49
8:Q:328:ASP:HA	8:Q:331:ARG:HG2	1.95	0.49
8:Q:624:ALA:HB1	8:Q:628:LYS:NZ	2.27	0.49
9:R:279:LEU:HB2	9:R:335:LEU:HB2	1.94	0.49
10:S:886:ARG:HH21	10:S:887:SER:HB3	1.78	0.49
10:S:1309:ILE:HG21	10:S:1344:LEU:HD13	1.94	0.49
11:T:777:PHE:CE2	11:T:781:ILE:HD11	2.48	0.49
12:U:314:ILE:HD11	12:U:342:ALA:HB2	1.94	0.49
12:U:588:LEU:HD23	12:U:594:ARG:HA	1.93	0.49
1:A:144:TRP:HZ3	1:A:375:LEU:HD23	1.77	0.49
1:A:483:SER:OG	2:B:22:VAL:HB	2.12	0.49
3:C:147:VAL:HG13	4:D:1276:ILE:HD13	1.93	0.49
4:D:1018:ASP:O	4:D:1021:THR:OG1	2.27	0.49
6:F:255:TRP:CD1	7:G:270:SER:HA	2.46	0.49
6:F:723:GLN:OE1	6:F:724:TRP:NE1	2.46	0.49
7:G:290:GLU:HB2	7:G:296:TRP:CZ3	2.47	0.49
8:H:415:GLU:HA	8:H:418:ILE:HG22	1.95	0.49
9:I:117:LEU:HD23	9:I:136:LEU:HD12	1.95	0.49
1:J:267:LEU:HG	1:J:273:SER:HB3	1.95	0.49
1:J:355:ILE:O	1:J:359:ILE:HG12	2.12	0.49
1:J:542:PHE:HD1	1:J:545:MET:HE3	1.77	0.49
2:K:48:TRP:CE2	2:K:68:GLN:HB2	2.48	0.49
4:M:257:LEU:HB3	4:M:311:TRP:CD1	2.47	0.49
4:M:645:ILE:O	4:M:649:LEU:HG	2.12	0.49
4:M:1114:LEU:HB3	4:M:1115:ARG:HH12	1.76	0.49
5:N:217:CYS:HB3	5:N:220:ASN:O	2.12	0.49
6:O:517:SER:HB2	6:O:521:ARG:H	1.78	0.49
6:O:779:PHE:HA	6:O:782:GLU:HG2	1.93	0.49
7:P:82:LYS:NZ	7:P:84:ILE:HD11	2.28	0.49
8:Q:415:GLU:HA	8:Q:418:ILE:HG22	1.95	0.49
8:Q:829:GLU:HB2	8:Q:833:ARG:NH2	2.27	0.49
10:S:1667:GLY:O	10:S:1671:GLU:HG3	2.12	0.49
12:U:469:LEU:HD12	12:U:470:THR:HG23	1.94	0.49
1:A:2:GLU:OE1	1:A:396:MET:HG2	2.13	0.49
1:A:145:ASN:HB3	1:A:167:TRP:CD1	2.48	0.49
1:A:544:ARG:HH11	1:A:545:MET:HG3	1.78	0.49
4:D:124:LEU:HB2	4:D:184:GLN:HA	1.94	0.49
4:D:431:GLN:HE22	11:T:113:ILE:HD11	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1337:LEU:HD21	4:D:1387:ALA:HB1	1.95	0.49
6:F:573:PRO:O	6:F:574:LEU:HD23	2.13	0.49
7:G:12:HIS:HB2	7:G:34:ASP:OD2	2.13	0.49
8:H:147:TYR:CE1	8:H:539:ARG:HG3	2.46	0.49
8:H:311:VAL:HA	8:H:324:LEU:HD13	1.95	0.49
8:H:360:CYS:HB2	8:H:362:GLN:OE1	2.13	0.49
8:H:391:GLY:HA3	8:H:395:ARG:HH21	1.77	0.49
8:H:758:ILE:HG22	8:H:797:LEU:HD11	1.94	0.49
1:J:153:GLU:OE1	1:J:153:GLU:N	2.46	0.49
1:J:449:LEU:HB3	1:J:453:ARG:HH22	1.77	0.49
4:M:464:LEU:HG	4:M:535:TYR:HD1	1.78	0.49
4:M:1340:TYR:CG	4:M:1349:ALA:HB2	2.48	0.49
5:N:319:LEU:HG	5:N:321:PHE:CE1	2.48	0.49
6:O:499:GLN:HE21	6:O:502:ARG:CZ	2.26	0.49
6:O:674:ALA:O	6:O:678:LEU:HG	2.12	0.49
6:O:715:ILE:HG13	6:O:716:GLN:N	2.27	0.49
8:Q:261:VAL:HG21	8:Q:444:PHE:CZ	2.48	0.49
8:Q:702:VAL:HA	8:Q:705:LYS:HD3	1.94	0.49
10:S:531:LEU:HD12	10:S:534:ASN:HB2	1.95	0.49
10:S:1725:ASP:OD1	10:S:1728:ARG:NH2	2.45	0.49
10:S:1971:GLY:N	10:S:1974:LEU:HD12	2.27	0.49
11:T:822:GLN:H	11:T:822:GLN:CD	2.16	0.49
11:T:940:LEU:HB2	11:T:951:LEU:HD22	1.95	0.49
12:U:18:ALA:HA	12:U:21:GLU:HG2	1.95	0.49
12:U:192:TYR:O	12:U:196:VAL:HG23	2.12	0.49
1:A:40:GLN:HB3	3:C:298:ASP:OD1	2.13	0.49
1:A:142:LEU:HD12	1:A:143:SER:N	2.28	0.49
1:A:191:HIS:HE1	1:A:193:LYS:HE2	1.78	0.49
2:B:18:ARG:HB3	2:B:81:MET:SD	2.53	0.49
3:C:62:ARG:NH1	3:C:118:ASP:HA	2.28	0.49
4:D:906:VAL:H	4:D:939:ARG:HH22	1.61	0.49
4:D:909:CYS:O	4:D:913:LEU:HD23	2.12	0.49
6:F:316:LYS:HE2	6:F:318:LEU:HB2	1.95	0.49
6:F:734:ARG:NH1	6:F:735:ARG:HH22	2.11	0.49
7:G:181:ARG:HA	7:G:201:TRP:CZ3	2.45	0.49
7:G:236:ASP:OD2	7:G:238:ARG:NH2	2.42	0.49
8:H:328:ASP:HA	8:H:331:ARG:HG2	1.95	0.49
8:H:798:ASP:HA	8:H:801:THR:HG22	1.95	0.49
8:H:857:HIS:ND1	8:H:862:TYR:HE1	2.11	0.49
9:I:706:GLU:HA	9:I:709:ASN:HB2	1.95	0.49
9:I:729:ARG:HH21	9:I:733:ASN:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:947:TYR:H	9:I:1008:PRO:HA	1.77	0.49
1:J:435:LEU:HD11	3:L:288:ILE:HD12	1.95	0.49
1:J:607:ALA:HA	1:J:610:LEU:HD12	1.94	0.49
2:K:192:LEU:HD21	2:K:232:THR:HG21	1.95	0.49
2:K:193:LYS:HG2	2:K:207:ILE:HG23	1.95	0.49
2:K:260:GLU:HG2	2:K:279:GLU:HB3	1.94	0.49
4:M:220:TRP:HE1	4:M:228:LEU:HD12	1.78	0.49
4:M:1378:SER:OG	4:M:1379:GLN:OE1	2.28	0.49
6:O:271:ARG:HH12	6:O:305:HIS:HB2	1.77	0.49
6:O:574:LEU:HD13	6:O:578:LEU:HG	1.94	0.49
8:Q:146:MET:HE1	8:Q:539:ARG:NH2	2.22	0.49
9:R:152:ILE:HG22	9:R:167:LEU:HD23	1.94	0.49
9:R:831:LEU:HD13	9:R:855:ILE:HD11	1.94	0.49
10:S:508:LEU:O	10:S:511:LEU:HB2	2.12	0.49
10:S:859:ARG:O	10:S:863:LEU:HG	2.13	0.49
12:U:444:GLN:O	12:U:449:TYR:N	2.32	0.49
12:U:606:THR:HA	12:U:609:ILE:HD13	1.95	0.49
1:A:214:LEU:HD21	1:A:231:LEU:HD23	1.95	0.49
4:D:48:GLU:OE1	4:D:441:ASN:N	2.46	0.49
4:D:98:THR:HA	4:D:101:ARG:HH21	1.78	0.49
4:D:477:LYS:HB3	4:D:541:TYR:CZ	2.48	0.49
4:D:1004:PHE:HD1	4:D:1016:ALA:O	1.96	0.49
6:F:499:GLN:HE21	6:F:502:ARG:NH1	2.11	0.49
6:F:812:LEU:O	6:F:815:ILE:HG22	2.12	0.49
8:H:718:TRP:HE1	8:H:724:ASP:HA	1.76	0.49
9:I:587:LEU:HB3	9:I:637:ILE:HG12	1.94	0.49
1:J:503:ARG:HD2	1:J:506:LYS:HZ1	1.77	0.49
1:J:565:ARG:HH12	1:J:605:ARG:HA	1.78	0.49
4:M:388:SER:HB2	4:M:427:PHE:HB2	1.94	0.49
6:O:692:ARG:O	6:O:695:LEU:HG	2.13	0.49
7:P:192:LYS:HB2	7:P:194:TRP:CH2	2.47	0.49
8:Q:311:VAL:HA	8:Q:324:LEU:HD13	1.95	0.49
9:R:764:THR:HG23	9:R:830:LEU:HD21	1.95	0.49
10:S:605:ILE:O	10:S:612:ARG:NH2	2.44	0.49
10:S:1142:ASP:C	10:S:1178:ARG:HH22	2.16	0.49
10:S:1439:THR:HB	10:S:1444:HIS:CE1	2.48	0.49
11:T:290:SER:HA	11:T:297:VAL:HG22	1.93	0.49
11:T:341:ARG:HE	11:T:343:GLN:H	1.61	0.49
12:U:237:ILE:HB	12:U:251:MET:SD	2.52	0.49
12:U:296:SER:HA	12:U:299:ASN:HD22	1.78	0.49
12:U:713:ASP:HA	12:U:716:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:448:ALA:HB3	2:B:25:SER:CB	2.43	0.49
1:A:483:SER:O	1:A:487:TRP:CD1	2.66	0.49
2:B:226:GLN:HE21	2:B:229:VAL:CB	2.17	0.49
3:C:139:VAL:O	3:C:158:GLU:HG2	2.12	0.49
3:C:196:LYS:HB2	3:C:218:VAL:HG12	1.95	0.49
4:D:672:ILE:HB	11:T:366:ASP:N	2.28	0.49
4:D:956:SER:OG	4:D:988:GLU:HB3	2.13	0.49
8:H:425:ASN:ND2	8:H:428:GLN:OE1	2.46	0.49
9:I:917:ASP:OD1	9:I:936:THR:HG23	2.13	0.49
1:J:101:VAL:HA	1:J:104:ASN:OD1	2.13	0.49
1:J:566:ILE:O	1:J:572:TRP:NE1	2.45	0.49
1:J:598:LEU:O	1:J:602:LEU:HG	2.13	0.49
2:K:37:SER:OG	2:K:40:ASN:OD1	2.31	0.49
2:K:252:SER:OG	2:K:332:LYS:O	2.22	0.49
4:M:1047:GLN:OE1	4:M:1047:GLN:N	2.35	0.49
4:M:1107:LEU:HB3	4:M:1120:GLN:NE2	2.28	0.49
4:M:1392:ARG:HH11	4:M:1395:LEU:HD12	1.76	0.49
6:O:681:ILE:HG22	6:O:683:ASP:H	1.78	0.49
6:O:785:ARG:HB2	6:O:788:HIS:ND1	2.28	0.49
7:P:89:GLU:N	7:P:92:THR:O	2.35	0.49
7:P:164:PRO:HD3	7:P:181:ARG:CZ	2.43	0.49
8:Q:390:GLU:HG2	8:Q:390:GLU:O	2.12	0.49
9:R:679:VAL:O	9:R:682:MET:HG2	2.13	0.49
9:R:944:GLU:OE2	9:R:945:THR:N	2.46	0.49
10:S:440:LEU:HA	10:S:513:MET:HE3	1.95	0.49
10:S:1027:ARG:HA	10:S:1031:HIS:ND1	2.28	0.49
10:S:1348:VAL:O	10:S:1352:LEU:HG	2.13	0.49
10:S:1456:ASP:OD2	10:S:1458:PHE:HB2	2.13	0.49
10:S:1652:SER:HA	10:S:1655:ILE:HB	1.93	0.49
12:U:414:TYR:O	12:U:418:LYS:HG2	2.13	0.49
4:D:112:LEU:HD23	4:D:130:LEU:HD21	1.95	0.48
4:D:936:GLU:OE1	11:T:831:PRO:HD3	2.13	0.48
5:E:2:LYS:HD2	5:E:290:PRO:HD3	1.95	0.48
5:E:102:LYS:HG3	5:E:126:TYR:HA	1.95	0.48
6:F:457:ALA:HB1	6:F:462:ASP:HB2	1.94	0.48
6:F:499:GLN:HE21	6:F:502:ARG:CZ	2.26	0.48
6:F:650:SER:HB3	6:F:652:HIS:NE2	2.27	0.48
7:G:39:ILE:O	7:G:49:LEU:HD12	2.12	0.48
8:H:635:ARG:HH12	8:H:689:LYS:HG2	1.78	0.48
8:H:755:PHE:CD1	8:H:758:ILE:HD11	2.48	0.48
2:K:226:GLN:HB3	2:K:228:HIS:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:544:THR:OG1	9:R:133:CYS:SG	2.70	0.48
4:M:1382:TRP:CE2	7:P:59:PRO:HD3	2.48	0.48
5:N:102:LYS:HG2	5:N:126:TYR:HD1	1.78	0.48
7:P:82:LYS:HG2	7:P:84:ILE:CD1	2.43	0.48
7:P:181:ARG:HG2	7:P:195:ARG:CD	2.42	0.48
8:Q:254:LEU:HD22	8:Q:480:LEU:HD23	1.95	0.48
8:Q:660:ARG:HD2	8:Q:663:ILE:HD12	1.94	0.48
8:Q:852:LEU:HD21	8:Q:868:LEU:HD12	1.91	0.48
9:R:310:ILE:HD11	9:R:363:VAL:HG21	1.93	0.48
10:S:307:ILE:HD13	10:S:340:ILE:HD13	1.94	0.48
10:S:1157:MET:HB2	10:S:1163:SER:HB2	1.94	0.48
10:S:1258:ASN:O	10:S:1261:LEU:HB2	2.12	0.48
10:S:1474:THR:HG23	10:S:1514:TYR:CE1	2.48	0.48
12:U:21:GLU:HB2	12:U:28:HIS:CE1	2.48	0.48
12:U:267:TYR:CG	12:U:328:ARG:HG3	2.49	0.48
12:U:549:LEU:HD21	12:U:584:LEU:HD22	1.95	0.48
12:U:572:SER:O	12:U:576:ILE:HG13	2.13	0.48
2:B:5:PHE:HE2	2:B:7:ALA:HB2	1.77	0.48
2:B:224:PRO:HG3	2:B:266:PHE:HB3	1.95	0.48
3:C:138:VAL:O	3:C:140:ARG:NH1	2.45	0.48
4:D:143:HIS:CE1	4:D:218:THR:HA	2.49	0.48
4:D:334:ILE:HG12	4:D:363:THR:HG21	1.94	0.48
4:D:1122:ASN:O	4:D:1125:LEU:HB3	2.12	0.48
4:D:1142:VAL:HB	4:D:1174:ILE:HD11	1.95	0.48
6:F:642:GLN:HA	12:U:175:ARG:HH12	1.78	0.48
8:H:253:THR:O	8:H:256:ARG:N	2.46	0.48
8:H:254:LEU:HD22	8:H:480:LEU:HD23	1.95	0.48
8:H:562:GLU:O	8:H:565:LYS:HG3	2.13	0.48
8:H:628:LYS:HZ1	8:H:678:GLU:HB3	1.78	0.48
2:K:179:ARG:HH21	2:K:181:THR:HG1	1.55	0.48
2:K:346:LEU:HD12	2:K:364:ALA:HA	1.95	0.48
3:L:255:LYS:HG3	3:L:264:THR:HA	1.94	0.48
4:M:1338:ARG:HH11	4:M:1339:LEU:HD23	1.72	0.48
6:O:339:PRO:HB2	6:O:724:TRP:HZ2	1.78	0.48
6:O:457:ALA:HB1	6:O:462:ASP:HB2	1.94	0.48
6:O:796:GLU:O	6:O:801:VAL:HG23	2.13	0.48
7:P:54:ARG:HH11	7:P:55:GLY:H	1.61	0.48
7:P:238:ARG:HD2	7:P:240:TYR:CE2	2.48	0.48
8:Q:543:HIS:HB3	8:Q:547:PHE:HE2	1.79	0.48
9:R:171:THR:HB	9:R:177:ARG:HH12	1.78	0.48
9:R:413:GLU:HG2	9:R:435:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:266:LYS:HD3	10:S:378:SER:HB3	1.95	0.48
10:S:775:PRO:C	10:S:859:ARG:HH12	2.17	0.48
10:S:1121:LEU:HD22	10:S:1291:ILE:HD13	1.95	0.48
10:S:1882:ILE:HG13	10:S:1885:ARG:HH22	1.77	0.48
12:U:171:GLY:HA2	12:U:177:SER:HB3	1.95	0.48
1:A:432:TYR:CD1	1:A:435:LEU:HD13	2.47	0.48
1:A:445:GLU:CD	1:A:445:GLU:H	2.17	0.48
2:B:118:GLN:OE1	2:B:118:GLN:N	2.47	0.48
4:D:1180:ARG:HH21	4:D:1184:LYS:N	2.12	0.48
4:D:1342:LYS:HG3	4:D:1343:TYR:CD2	2.48	0.48
6:F:269:SER:HA	6:F:272:LEU:HG	1.96	0.48
6:F:825:LEU:HD23	6:F:828:LEU:HD12	1.95	0.48
7:G:84:ILE:HA	7:G:98:GLU:HG3	1.95	0.48
8:H:395:ARG:HA	8:H:398:TRP:HB3	1.96	0.48
8:H:576:GLN:O	8:H:580:ILE:HG12	2.13	0.48
1:J:605:ARG:C	1:J:609:LYS:HZ3	2.16	0.48
2:K:223:HIS:CE1	2:K:271:PRO:HB2	2.48	0.48
4:M:1072:VAL:HG11	4:M:1079:TYR:CD2	2.48	0.48
4:M:1106:ARG:NH2	4:M:1148:ALA:O	2.47	0.48
6:O:410:ARG:NE	6:O:410:ARG:HA	2.28	0.48
6:O:499:GLN:HE21	6:O:502:ARG:NH1	2.11	0.48
6:O:538:HIS:HA	6:O:542:MET:CG	2.44	0.48
6:O:557:GLU:OE2	6:O:558:GLN:HG3	2.13	0.48
7:P:97:TYR:HB2	7:P:140:TRP:CE2	2.49	0.48
7:P:110:CYS:C	7:P:120:LEU:HD12	2.34	0.48
7:P:131:ILE:HD11	7:P:158:TRP:CH2	2.47	0.48
7:P:194:TRP:HB3	7:P:201:TRP:HE3	1.78	0.48
8:Q:276:PHE:HA	8:Q:279:ASN:ND2	2.25	0.48
8:Q:341:LEU:HB2	8:Q:356:LEU:HD23	1.95	0.48
8:Q:576:GLN:HB3	8:Q:579:LEU:HD12	1.94	0.48
9:R:1062:ILE:HG23	9:R:1067:TRP:HE1	1.78	0.48
10:S:440:LEU:HB3	10:S:509:PRO:O	2.13	0.48
10:S:710:THR:HA	10:S:713:GLU:HG3	1.95	0.48
10:S:1065:TYR:HD2	10:S:1066:GLN:OE1	1.95	0.48
10:S:1178:ARG:HE	10:S:1179:LYS:H	1.61	0.48
10:S:1488:HIS:CE1	10:S:1491:GLY:H	2.32	0.48
10:S:1633:SER:O	10:S:1637:HIS:N	2.45	0.48
10:S:1842:VAL:HA	10:S:1845:LEU:HG	1.94	0.48
12:U:406:GLU:CA	12:U:410:LYS:HG3	2.43	0.48
1:A:296:ARG:NH1	1:A:336:GLY:HA3	2.29	0.48
1:A:411:HIS:HD2	1:A:414:LEU:HB2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:THR:OG1	2:B:363:ASP:N	2.47	0.48
4:D:776:TRP:CZ3	4:D:894:TYR:HD1	2.32	0.48
5:E:136:GLU:OE1	5:E:136:GLU:N	2.46	0.48
6:F:591:ALA:O	6:F:594:ILE:HG12	2.12	0.48
6:F:691:VAL:O	6:F:695:LEU:HG	2.12	0.48
8:H:447:MET:HG2	8:H:478:TRP:CE3	2.48	0.48
9:I:249:ARG:CZ	9:I:254:PHE:H	2.26	0.48
1:J:107:SER:HA	1:J:110:ARG:NE	2.27	0.48
2:K:194:LEU:HD23	2:K:208:PHE:CE2	2.48	0.48
3:L:17:ASP:HB2	3:L:61:TRP:O	2.13	0.48
3:L:245:VAL:H	3:L:246:ARG:HH21	1.59	0.48
3:L:304:LEU:O	3:L:315:CYS:HA	2.14	0.48
4:M:1120:GLN:HB3	4:M:1124:TYR:CE2	2.48	0.48
4:M:1335:GLU:HA	4:M:1338:ARG:CD	2.43	0.48
7:P:183:VAL:HG12	7:P:193:ILE:HG13	1.95	0.48
9:R:650:VAL:O	9:R:654:ILE:HG12	2.14	0.48
10:S:702:ARG:HD3	10:S:758:VAL:HA	1.95	0.48
10:S:1630:LEU:HD11	10:S:1644:VAL:HG11	1.96	0.48
12:U:622:LEU:HD21	12:U:625:GLU:OE1	2.13	0.48
1:A:46:GLU:OE2	3:C:14:LEU:HD23	2.14	0.48
2:B:191:GLN:OE1	2:B:208:PHE:N	2.34	0.48
3:C:247:ILE:HD12	3:C:272:ALA:HB3	1.95	0.48
5:E:94:ARG:HD3	5:E:154:LEU:HD22	1.94	0.48
7:G:84:ILE:HG23	7:G:95:LYS:HZ2	1.78	0.48
7:G:212:ASP:HB2	7:G:236:ASP:HB3	1.95	0.48
8:H:351:ASP:OD1	8:H:352:GLU:N	2.45	0.48
9:I:872:TYR:HD1	9:I:876:PHE:HE2	1.62	0.48
9:I:881:PHE:HD2	9:I:885:LEU:HD11	1.78	0.48
4:M:905:ASN:HB3	4:M:908:SER:HB2	1.95	0.48
4:M:1189:ALA:HA	4:M:1192:ARG:NE	2.28	0.48
5:N:232:TRP:HD1	5:N:249:ALA:CA	2.24	0.48
6:O:276:GLU:HG3	10:S:678:LEU:HA	1.96	0.48
6:O:386:LEU:O	6:O:409:ARG:NH2	2.46	0.48
6:O:601:CYS:HA	6:O:604:LEU:HD12	1.95	0.48
6:O:734:ARG:HG2	6:O:735:ARG:NH2	2.22	0.48
8:Q:804:VAL:O	8:Q:808:ILE:HG13	2.13	0.48
9:R:767:HIS:HE1	9:R:833:PRO:HG2	1.78	0.48
9:R:1129:LYS:NZ	9:R:1133:GLU:OE1	2.29	0.48
10:S:331:LEU:HD11	10:S:396:PHE:CE1	2.47	0.48
10:S:434:ARG:NE	10:S:437:GLU:OE1	2.46	0.48
10:S:1114:MET:HE3	10:S:1283:SER:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:82:ALA:HB1	11:T:129:VAL:HG22	1.96	0.48
12:U:588:LEU:HD22	12:U:592:GLY:O	2.13	0.48
12:U:755:ASN:O	12:U:759:THR:HG23	2.12	0.48
1:A:123:THR:HG21	1:A:130:TYR:HE2	1.78	0.48
3:C:292:VAL:HG13	3:C:306:LYS:HD2	1.95	0.48
4:D:891:LEU:HD21	4:D:912:MET:CG	2.39	0.48
4:D:1128:LEU:HD21	4:D:1186:TYR:CD2	2.48	0.48
8:H:436:TRP:CD1	8:H:487:LEU:HD11	2.49	0.48
8:H:614:GLU:O	8:H:617:LYS:HG3	2.13	0.48
9:I:576:PHE:HZ	11:T:640:ALA:HB1	1.79	0.48
9:I:835:LEU:HD13	9:I:855:ILE:HD11	1.95	0.48
9:I:1026:ARG:HB2	9:I:1031:ASP:OD2	2.14	0.48
9:I:1134:CYS:HB2	9:R:582:ILE:HD11	1.96	0.48
1:J:282:CYS:HA	1:J:285:LEU:HD12	1.95	0.48
1:J:475:SER:O	1:J:480:ARG:N	2.37	0.48
1:J:490:ARG:HG3	2:K:26:SER:H	1.76	0.48
2:K:186:VAL:HA	2:K:192:LEU:HD23	1.95	0.48
4:M:240:VAL:HB	4:M:255:ALA:HB3	1.95	0.48
4:M:1347:GLU:O	4:M:1351:GLU:OE1	2.32	0.48
5:N:182:MET:HB2	5:N:216:TRP:HZ2	1.78	0.48
6:O:682:GLN:HB3	7:P:168:VAL:HG13	1.95	0.48
6:O:756:HIS:CD2	6:O:761:ARG:HH12	2.32	0.48
7:P:33:SER:HA	7:P:35:ARG:NH2	2.27	0.48
7:P:35:ARG:NH1	7:P:57:ASP:O	2.45	0.48
8:Q:162:VAL:O	8:Q:166:ILE:HG13	2.13	0.48
8:Q:177:ILE:HA	8:Q:204:LEU:HD21	1.95	0.48
8:Q:534:LEU:HD13	8:Q:570:ARG:HH22	1.78	0.48
10:S:226:GLN:OE1	10:S:266:LYS:HG3	2.14	0.48
10:S:511:LEU:HA	10:S:514:LEU:HD12	1.96	0.48
10:S:739:THR:O	10:S:743:ARG:HB2	2.13	0.48
10:S:779:ASP:O	10:S:796:LYS:NZ	2.39	0.48
10:S:1227:VAL:HG23	10:S:1261:LEU:HD22	1.95	0.48
10:S:1542:GLN:HE21	10:S:1603:GLU:HB3	1.79	0.48
11:T:552:GLU:HA	11:T:625:TYR:CE1	2.49	0.48
12:U:546:ARG:O	12:U:550:GLN:NE2	2.46	0.48
1:A:109:LEU:O	1:A:113:MET:HG2	2.13	0.48
1:A:391:TYR:OH	1:A:397:ARG:NH2	2.38	0.48
2:B:101:PHE:HE1	6:O:279:ASP:OD2	1.96	0.48
2:B:227:GLN:HG3	2:B:228:HIS:N	2.29	0.48
2:B:235:GLN:OE1	2:B:260:GLU:HB2	2.13	0.48
6:F:343:PHE:HB3	6:F:680:HIS:NE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:663:ALA:HA	6:F:666:GLU:OE1	2.13	0.48
7:G:40:PHE:CE1	7:G:49:LEU:HD13	2.48	0.48
7:G:82:LYS:HD2	7:G:98:GLU:HB3	1.96	0.48
7:G:83:VAL:HG12	7:G:85:ILE:HD11	1.95	0.48
9:I:702:ILE:HD13	4:M:1068:ARG:CZ	2.43	0.48
9:I:856:LEU:HD23	9:I:859:ILE:HD11	1.96	0.48
1:J:95:LYS:O	1:J:99:VAL:HG13	2.13	0.48
1:J:503:ARG:HH11	1:J:506:LYS:HE2	1.79	0.48
4:M:79:TYR:OH	4:M:214:SER:O	2.24	0.48
4:M:679:LEU:HD12	4:M:760:LEU:HD22	1.96	0.48
4:M:1249:CYS:HA	4:M:1252:LEU:HD12	1.96	0.48
5:N:122:GLY:O	5:N:150:ARG:NH1	2.47	0.48
6:O:433:GLY:H	6:O:436:ARG:HB2	1.79	0.48
7:P:53:LEU:HD21	7:P:86:TRP:CE3	2.49	0.48
8:Q:145:SER:O	8:Q:148:PRO:HD2	2.13	0.48
8:Q:146:MET:CE	8:Q:539:ARG:HH12	2.27	0.48
8:Q:469:LEU:HD13	8:Q:473:TYR:HE2	1.78	0.48
9:R:696:ASP:O	9:R:700:THR:HG23	2.13	0.48
9:R:819:LEU:O	9:R:822:GLU:HG3	2.14	0.48
9:R:971:VAL:O	9:R:975:LYS:HG2	2.14	0.48
9:R:1060:LYS:O	9:R:1064:ARG:HG2	2.13	0.48
9:R:1087:LYS:O	9:R:1090:GLN:HG3	2.13	0.48
10:S:775:PRO:O	10:S:776:GLN:NE2	2.47	0.48
10:S:804:HIS:HA	10:S:807:LEU:HD12	1.95	0.48
10:S:1405:PHE:HD1	10:S:1408:LYS:HZ3	1.55	0.48
10:S:1675:LEU:O	10:S:1679:ILE:HG12	2.13	0.48
10:S:1956:GLN:NE2	10:S:1960:ASP:OD1	2.46	0.48
12:U:628:LYS:O	12:U:632:LEU:HG	2.14	0.48
1:A:58:ARG:HE	1:A:61:GLU:HG2	1.79	0.48
1:A:145:ASN:HD22	1:A:171:HIS:CE1	2.31	0.48
1:A:428:LEU:HD23	1:A:428:LEU:H	1.79	0.48
1:A:446:LYS:O	1:A:450:LYS:HG2	2.14	0.48
2:B:20:ARG:HE	2:B:32:VAL:HB	1.79	0.48
3:C:248:PHE:HA	3:C:269:HIS:O	2.14	0.48
4:D:433:GLY:N	11:T:114:SER:N	2.60	0.48
5:E:266:VAL:HG11	5:E:324:THR:HG21	1.94	0.48
6:F:575:PRO:CD	6:F:597:GLN:CD	2.82	0.48
6:F:628:PRO:HB2	6:F:631:TYR:CE1	2.49	0.48
7:G:24:TYR:HB2	7:G:26:ILE:HG12	1.94	0.48
7:G:64:ALA:HB1	7:G:111:TRP:CD1	2.49	0.48
7:G:191:VAL:HB	7:G:207:LEU:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:262:VAL:HG22	8:H:445:LYS:HZ1	1.78	0.48
9:I:506:THR:HA	9:I:509:LEU:HD12	1.96	0.48
2:K:193:LYS:HB2	2:K:195:TRP:CH2	2.49	0.48
2:K:282:SER:HB2	2:K:284:TRP:CH2	2.49	0.48
4:M:501:VAL:O	4:M:505:VAL:HG23	2.13	0.48
4:M:1348:GLU:HA	4:M:1351:GLU:OE1	2.14	0.48
6:O:438:ILE:HD13	6:O:501:GLU:OE2	2.14	0.48
7:P:35:ARG:O	7:P:56:HIS:ND1	2.40	0.48
8:Q:253:THR:O	8:Q:256:ARG:N	2.46	0.48
8:Q:337:LEU:HD23	8:Q:340:TYR:HD2	1.79	0.48
8:Q:436:TRP:CD1	8:Q:487:LEU:HD11	2.49	0.48
10:S:458:LEU:HD21	10:S:522:GLN:HG3	1.96	0.48
10:S:1545:LEU:HD12	10:S:1546:LEU:H	1.79	0.48
12:U:471:ALA:HA	12:U:473:PHE:CE1	2.48	0.48
12:U:650:VAL:HA	12:U:653:GLN:OE1	2.14	0.48
2:B:260:GLU:HG2	2:B:262:TRP:CD1	2.49	0.48
4:D:669:ARG:HD2	11:T:369:HIS:HB2	1.96	0.48
4:D:1101:PHE:HB2	4:D:1127:CYS:SG	2.54	0.48
5:E:55:ASP:HB3	5:E:58:VAL:HB	1.96	0.48
6:F:250:SER:H	7:G:265:TRP:HZ2	1.61	0.48
7:G:62:GLN:HE22	7:G:108:SER:CA	2.27	0.48
7:G:97:TYR:CE2	7:G:99:TYR:HB2	2.49	0.48
8:H:276:PHE:CE1	8:H:283:TYR:HE2	2.32	0.48
9:I:462:THR:OG1	9:I:464:VAL:CG2	2.62	0.48
9:I:1125:GLU:OE2	9:R:573:ALA:HB1	2.14	0.48
1:J:239:PRO:HD2	1:J:256:TRP:CZ3	2.49	0.48
1:J:283:ARG:HH12	1:J:286:LEU:HB2	1.79	0.48
2:K:284:TRP:CD1	2:K:297:PHE:HZ	2.31	0.48
3:L:63:VAL:HA	3:L:75:ALA:O	2.13	0.48
3:L:277:HIS:CE1	3:L:303:ARG:HG2	2.49	0.48
4:M:289:ALA:HB1	4:M:346:LEU:HD13	1.95	0.48
4:M:964:ARG:HH12	4:M:968:LEU:HD12	1.79	0.48
6:O:691:VAL:O	6:O:694:LEU:HG	2.14	0.48
7:P:39:ILE:O	7:P:49:LEU:HD12	2.14	0.48
8:Q:351:ASP:HA	8:Q:354:GLN:NE2	2.28	0.48
8:Q:395:ARG:HA	8:Q:398:TRP:HB3	1.96	0.48
8:Q:644:HIS:HB2	8:Q:842:ARG:HB2	1.94	0.48
9:R:514:LEU:O	9:R:518:ARG:HG2	2.13	0.48
10:S:319:PRO:HB2	10:S:321:LYS:NZ	2.29	0.48
10:S:467:LEU:O	10:S:477:LEU:HD13	2.14	0.48
10:S:1114:MET:HE1	10:S:1284:TRP:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1753:GLN:CD	10:S:1891:LEU:HB2	2.34	0.48
10:S:1816:HIS:HD2	10:S:1817:LEU:HD22	1.79	0.48
11:T:981:ARG:HD3	11:T:984:ARG:HD3	1.96	0.48
12:U:782:LYS:NZ	12:U:786:LEU:HD11	2.29	0.48
1:A:322:LEU:HD23	1:A:325:TYR:CE2	2.49	0.48
3:C:285:SER:OG	3:C:294:ALA:HB3	2.14	0.48
3:C:305:TRP:O	3:C:306:LYS:HD3	2.12	0.48
4:D:606:ILE:HG23	4:D:678:LEU:HD21	1.96	0.48
4:D:1356:TYR:O	4:D:1360:LEU:HG	2.14	0.48
5:E:18:TYR:HE1	5:E:298:VAL:HG11	1.79	0.48
5:E:152:TRP:CH2	5:E:158:GLN:NE2	2.82	0.48
6:F:433:GLY:H	6:F:436:ARG:HB2	1.79	0.48
6:F:438:ILE:HD13	6:F:501:GLU:OE2	2.14	0.48
6:F:538:HIS:HA	6:F:542:MET:CG	2.44	0.48
6:F:733:SER:HA	6:F:736:ASP:OD1	2.14	0.48
7:G:109:VAL:HA	7:G:121:ALA:O	2.14	0.48
7:G:210:HIS:CE1	7:G:234:SER:HG	2.30	0.48
8:H:776:LYS:O	8:H:780:GLU:HG3	2.14	0.48
9:I:770:ILE:HG23	9:I:785:LEU:HD21	1.96	0.48
9:I:870:GLN:HA	9:I:873:MET:CE	2.44	0.48
4:M:1070:ARG:HD3	4:M:1106:ARG:NH2	2.28	0.48
4:M:1205:ILE:O	4:M:1209:SER:N	2.47	0.48
4:M:1410:LYS:O	4:M:1414:LYS:HG2	2.14	0.48
6:O:329:LEU:HD23	6:O:330:LYS:HE3	1.95	0.48
6:O:411:LYS:O	6:O:414:SER:OG	2.28	0.48
6:O:438:ILE:CG2	6:O:501:GLU:HG2	2.41	0.48
6:O:635:TRP:HZ3	6:O:636:HIS:CE1	2.32	0.48
7:P:163:ILE:HA	7:P:181:ARG:NH1	2.28	0.48
8:Q:144:MET:SD	8:Q:574:GLU:HG2	2.54	0.48
8:Q:201:LEU:O	8:Q:204:LEU:HB3	2.13	0.48
8:Q:520:ASP:O	8:Q:523:SER:HB2	2.13	0.48
8:Q:528:ASN:ND2	8:Q:532:LEU:HD13	2.28	0.48
8:Q:596:TYR:HD2	8:Q:626:ILE:HG13	1.78	0.48
8:Q:751:PHE:CD1	8:Q:851:LEU:HD21	2.49	0.48
8:Q:837:MET:HG2	8:Q:841:ARG:HH22	1.79	0.48
10:S:387:ARG:NH2	10:S:454:LEU:HD22	2.29	0.48
10:S:956:GLU:HA	10:S:977:ARG:HH21	1.79	0.48
10:S:1338:PHE:CD1	10:S:1419:HIS:HA	2.49	0.48
10:S:1414:GLN:HA	10:S:1417:ARG:HE	1.78	0.48
11:T:246:LEU:HD23	11:T:322:LEU:HD22	1.94	0.48
11:T:248:ASN:O	11:T:252:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:392:LYS:HD3	11:T:393:PRO:HD2	1.96	0.48
12:U:31:ARG:NH2	12:U:35:GLU:HB3	2.29	0.48
12:U:558:GLU:OE1	12:U:558:GLU:N	2.47	0.48
1:A:9:ALA:N	3:C:316:ILE:O	2.46	0.47
1:A:397:ARG:HB2	1:A:398:GLU:OE1	2.14	0.47
3:C:16:HIS:HB3	3:C:61:TRP:O	2.14	0.47
3:C:277:HIS:HE1	3:C:301:THR:O	1.97	0.47
6:F:685:HIS:CE1	7:G:167:LEU:HD21	2.49	0.47
6:F:707:SER:O	6:F:711:GLU:OE1	2.32	0.47
9:I:821:MET:O	9:I:825:GLN:OE1	2.32	0.47
1:J:554:ALA:O	1:J:558:LEU:HD23	2.14	0.47
2:K:222:ARG:HB2	2:K:227:GLN:HA	1.96	0.47
3:L:181:MET:HB2	3:L:201:GLU:HG2	1.94	0.47
3:L:308:ASN:HB3	3:L:314:LYS:CE	2.44	0.47
4:M:306:HIS:CE1	4:M:335:ARG:HA	2.47	0.47
4:M:338:ALA:HA	4:M:342:HIS:HD1	1.77	0.47
6:O:336:LYS:NZ	6:O:341:PRO:HG3	2.29	0.47
7:P:129:ILE:HB	7:P:145:ILE:HB	1.96	0.47
7:P:163:ILE:HA	7:P:181:ARG:HH12	1.79	0.47
8:Q:218:TYR:HE1	8:Q:510:VAL:HG13	1.79	0.47
8:Q:450:SER:HG	8:Q:478:TRP:HE1	1.62	0.47
8:Q:613:LEU:HG	8:Q:623:VAL:HG21	1.96	0.47
8:Q:819:TRP:O	8:Q:821:VAL:N	2.47	0.47
9:R:204:THR:HG21	9:R:276:PHE:CE1	2.48	0.47
9:R:325:LYS:HA	9:R:328:ILE:HD13	1.96	0.47
9:R:494:ASP:HB2	9:R:515:ARG:HG2	1.95	0.47
9:R:657:ALA:HB1	9:R:688:CYS:HB3	1.96	0.47
9:R:988:HIS:O	9:R:1019:TYR:OH	2.30	0.47
10:S:29:ILE:HG21	10:S:963:SER:HA	1.96	0.47
10:S:421:SER:HA	10:S:424:MET:HE2	1.97	0.47
10:S:729:PHE:CE1	10:S:732:TYR:HB2	2.49	0.47
10:S:913:SER:O	10:S:917:LEU:HG	2.14	0.47
10:S:1178:ARG:O	10:S:1181:LEU:HB3	2.13	0.47
10:S:1587:TYR:HB3	10:S:1619:LEU:HD13	1.96	0.47
11:T:231:ARG:NH2	11:T:317:ILE:HB	2.29	0.47
12:U:257:ARG:O	12:U:260:LEU:HG	2.14	0.47
12:U:693:LEU:HA	12:U:696:LEU:HD12	1.96	0.47
1:A:147:CYS:SG	1:A:148:GLU:N	2.86	0.47
2:B:120:HIS:CG	2:B:145:GLY:HA3	2.49	0.47
4:D:54:ARG:HH21	4:D:715:CYS:HB2	1.79	0.47
4:D:431:GLN:N	11:T:110:ASP:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1414:LYS:HA	4:D:1417:GLU:OE1	2.14	0.47
6:F:293:SER:HA	7:G:11:SER:HB2	1.96	0.47
6:F:808:VAL:HG12	6:F:812:LEU:HD23	1.96	0.47
7:G:149:HIS:CD2	7:G:186:GLY:HA3	2.48	0.47
8:H:469:LEU:HD13	8:H:473:TYR:HE2	1.78	0.47
9:I:555:ILE:HG22	9:I:633:LEU:HD11	1.97	0.47
9:I:600:PHE:O	9:I:604:VAL:HG22	2.14	0.47
1:J:27:TRP:HE1	3:L:285:SER:HB3	1.78	0.47
1:J:434:LYS:HA	1:J:437:MET:HE2	1.95	0.47
1:J:540:ARG:NH2	1:J:543:HIS:HB3	2.29	0.47
1:J:540:ARG:HG3	1:J:544:ARG:CZ	2.45	0.47
1:J:588:VAL:HG22	1:J:643:ARG:NH1	2.28	0.47
4:M:1143:GLN:HG2	4:M:1175:GLU:HB2	1.97	0.47
4:M:1335:GLU:O	4:M:1338:ARG:NH1	2.40	0.47
6:O:248:GLY:O	7:P:265:TRP:HH2	1.97	0.47
6:O:275:GLU:HA	10:S:678:LEU:N	2.29	0.47
6:O:705:PRO:O	6:O:708:LEU:HB3	2.14	0.47
7:P:212:ASP:HB2	7:P:236:ASP:OD1	2.14	0.47
8:Q:180:LEU:HB3	8:Q:201:LEU:HD22	1.96	0.47
8:Q:318:ALA:HA	8:Q:321:ARG:NH2	2.28	0.47
8:Q:425:ASN:ND2	8:Q:428:GLN:OE1	2.46	0.47
8:Q:850:PHE:CE1	8:Q:891:LEU:HB2	2.49	0.47
10:S:299:SER:HA	10:S:302:MET:HG3	1.96	0.47
10:S:976:ILE:O	10:S:980:THR:HG23	2.14	0.47
10:S:1267:ARG:O	10:S:1270:LEU:HG	2.13	0.47
10:S:1707:ILE:CG2	10:S:1711:GLN:HE22	2.28	0.47
11:T:20:GLN:NE2	11:T:483:SER:HA	2.28	0.47
11:T:459:PRO:HB3	11:T:553:THR:HA	1.95	0.47
11:T:920:ILE:HD11	11:T:954:HIS:NE2	2.28	0.47
12:U:664:LEU:HD23	12:U:667:MET:SD	2.54	0.47
2:B:183:ILE:HG13	2:B:195:TRP:CE3	2.44	0.47
3:C:294:ALA:HA	3:C:304:LEU:HD23	1.97	0.47
4:D:95:LEU:HD12	4:D:848:VAL:HG13	1.96	0.47
4:D:1184:LYS:NZ	4:D:1234:PHE:HA	2.29	0.47
4:D:1234:PHE:HB2	4:D:1236:LEU:HG	1.96	0.47
4:D:1272:LEU:HD11	4:D:1290:LEU:HD13	1.95	0.47
5:E:2:LYS:HB3	5:E:290:PRO:HG3	1.96	0.47
5:E:41:ILE:HD12	5:E:74:ARG:HE	1.79	0.47
6:F:303:LYS:NZ	6:F:305:HIS:HD2	2.12	0.47
6:F:387:TRP:CE3	6:F:637:MET:HE1	2.46	0.47
6:F:573:PRO:HG3	6:F:602:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:665:LEU:O	6:F:668:VAL:HG22	2.15	0.47
8:H:227:GLU:C	8:H:229:GLU:H	2.18	0.47
8:H:351:ASP:HA	8:H:354:GLN:NE2	2.29	0.47
1:J:613:THR:O	1:J:619:GLN:NE2	2.31	0.47
2:K:96:GLY:HA3	2:K:128:ARG:HH21	1.78	0.47
2:K:223:HIS:HB3	2:K:226:GLN:O	2.14	0.47
3:L:141:ILE:HG21	3:L:209:TYR:OH	2.14	0.47
4:M:996:GLN:HE21	4:M:1022:GLN:HE22	1.61	0.47
4:M:1230:LEU:HA	4:M:1233:THR:HG22	1.96	0.47
5:N:255:ARG:HD2	5:N:272:TYR:HD1	1.78	0.47
6:O:646:TYR:HD1	6:O:648:HIS:CE1	2.32	0.47
6:O:685:HIS:HE1	7:P:166:SER:O	1.98	0.47
6:O:701:VAL:HG12	6:O:732:ARG:NH2	2.29	0.47
6:O:786:PRO:HA	6:O:789:CYS:HB2	1.95	0.47
7:P:216:ASP:HB3	7:P:267:VAL:HG22	1.96	0.47
8:Q:261:VAL:O	8:Q:264:TRP:HB3	2.15	0.47
8:Q:360:CYS:HB2	8:Q:362:GLN:OE1	2.13	0.47
8:Q:549:ARG:HD3	8:Q:553:LEU:O	2.14	0.47
9:R:68:SER:OG	9:R:69:GLU:OE2	2.32	0.47
10:S:52:SER:HB2	10:S:55:LYS:HB2	1.95	0.47
10:S:295:MET:HG3	10:S:301:PHE:CG	2.50	0.47
10:S:773:TYR:CG	10:S:799:GLY:HA3	2.50	0.47
11:T:497:THR:HG21	11:T:518:ARG:HB2	1.97	0.47
12:U:720:LEU:HD13	12:U:731:ARG:HD2	1.96	0.47
1:A:487:TRP:CD1	1:A:487:TRP:N	2.78	0.47
3:C:55:THR:HG22	3:C:56:HIS:CD2	2.49	0.47
3:C:254:ARG:HG3	3:C:256:GLU:H	1.78	0.47
4:D:915:GLN:O	4:D:918:LEU:HG	2.14	0.47
4:D:1006:HIS:HB3	4:D:1010:MET:HE1	1.97	0.47
6:F:382:LEU:HD13	6:F:601:CYS:HG	1.67	0.47
6:F:410:ARG:NE	6:F:410:ARG:HA	2.28	0.47
8:H:242:LYS:HD3	8:H:376:HIS:HB2	1.97	0.47
8:H:337:LEU:HD23	8:H:340:TYR:HD2	1.79	0.47
8:H:743:ALA:HB1	8:H:811:VAL:HG22	1.95	0.47
9:I:110:TRP:HB3	9:I:117:LEU:HD11	1.95	0.47
9:I:856:LEU:HD13	9:I:872:TYR:CE1	2.49	0.47
9:I:1131:ASN:HB3	9:I:1135:TYR:CE2	2.50	0.47
1:J:21:ARG:CD	1:J:41:LYS:HD3	2.45	0.47
1:J:402:LEU:HD22	1:J:432:TYR:CE1	2.49	0.47
1:J:532:ARG:NH2	1:J:567:ALA:H	2.12	0.47
1:J:566:ILE:HG22	1:J:575:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:288:ALA:HB1	2:K:291:ASP:O	2.14	0.47
5:N:231:ASP:HA	5:N:249:ALA:H	1.80	0.47
5:N:283:HIS:NE2	5:N:290:PRO:HG3	2.29	0.47
6:O:457:ALA:O	6:O:462:ASP:N	2.31	0.47
6:O:571:CYS:HG	6:O:585:PHE:HD1	1.63	0.47
8:Q:242:LYS:HD3	8:Q:376:HIS:HB2	1.97	0.47
8:Q:624:ALA:HB1	8:Q:628:LYS:HZ3	1.78	0.47
8:Q:837:MET:HG2	8:Q:841:ARG:NH2	2.30	0.47
8:Q:885:LYS:O	8:Q:888:MET:HG3	2.15	0.47
9:R:500:ILE:HG22	9:R:501:ALA:N	2.28	0.47
9:R:767:HIS:NE2	9:R:771:LEU:HD11	2.30	0.47
10:S:738:ASP:O	10:S:742:LEU:HB2	2.13	0.47
10:S:1231:HIS:HA	10:S:1234:LEU:HD12	1.96	0.47
12:U:534:MET:O	12:U:537:THR:OG1	2.29	0.47
12:U:610:ILE:CG2	12:U:633:ALA:HB2	2.43	0.47
1:A:550:GLN:O	1:A:554:ALA:CB	2.62	0.47
4:D:1305:TYR:HA	4:D:1308:CYS:SG	2.55	0.47
4:D:1362:GLY:HA2	4:D:1372:ALA:O	2.15	0.47
6:F:344:ARG:NE	6:F:344:ARG:HA	2.29	0.47
8:H:767:LEU:HD23	8:H:779:HIS:ND1	2.30	0.47
9:I:576:PHE:CZ	11:T:643:VAL:N	2.82	0.47
9:I:629:HIS:HA	9:I:632:LYS:HZ3	1.80	0.47
9:I:1003:ASP:O	9:I:1007:MET:HG3	2.14	0.47
1:J:25:PHE:HE1	1:J:27:TRP:NE1	2.11	0.47
1:J:355:ILE:HD12	1:J:385:PHE:CE1	2.49	0.47
1:J:449:LEU:HB3	1:J:453:ARG:NH2	2.29	0.47
1:J:559:LEU:O	1:J:563:THR:HG22	2.14	0.47
2:K:274:LEU:HD22	2:K:335:LEU:HD12	1.95	0.47
3:L:142:TYR:CE1	3:L:155:LEU:HD13	2.50	0.47
4:M:688:MET:H	4:M:874:PRO:HD2	1.80	0.47
4:M:996:GLN:NE2	4:M:1022:GLN:HE22	2.12	0.47
4:M:1162:ASP:OD1	10:S:466:PRO:HG3	2.14	0.47
4:M:1399:GLU:OE2	4:M:1401:ASN:N	2.48	0.47
6:O:464:ARG:HH22	8:Q:368:THR:HG22	1.78	0.47
8:Q:351:ASP:OD1	8:Q:352:GLU:N	2.45	0.47
8:Q:359:ARG:NH1	12:U:34:GLN:HE21	2.13	0.47
9:R:544:ASP:CB	9:R:613:CYS:HB3	2.45	0.47
10:S:569:ASP:OD2	10:S:583:LEU:HA	2.14	0.47
10:S:691:ILE:HG23	10:S:694:ARG:NH2	2.30	0.47
10:S:1090:SER:HA	10:S:1093:GLN:NE2	2.29	0.47
10:S:1251:PRO:O	10:S:1254:MET:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1569:ALA:HA	10:S:1572:LEU:HD12	1.97	0.47
11:T:538:SER:N	11:T:541:GLU:OE2	2.40	0.47
11:T:948:GLN:O	11:T:967:LEU:HD21	2.15	0.47
1:A:318:LYS:O	1:A:322:LEU:HG	2.15	0.47
1:A:395:ASN:HD21	1:A:398:GLU:CD	2.18	0.47
2:B:94:SER:HA	2:B:130:PRO:HG3	1.96	0.47
2:B:338:THR:HG23	2:B:340:LEU:HD11	1.95	0.47
3:C:38:VAL:HG21	3:C:103:TRP:CH2	2.49	0.47
3:C:118:ASP:N	3:C:133:CYS:SG	2.87	0.47
6:F:607:LEU:CD2	6:F:615:LEU:HD22	2.43	0.47
6:F:802:TYR:HA	6:F:805:TYR:CD2	2.26	0.47
7:G:35:ARG:O	7:G:54:ARG:NH1	2.47	0.47
7:G:196:GLU:HB2	7:G:201:TRP:CZ2	2.49	0.47
8:H:740:CYS:HB3	8:H:819:TRP:CD1	2.49	0.47
9:I:706:GLU:N	9:I:706:GLU:OE1	2.48	0.47
9:I:866:GLN:O	9:I:869:LEU:HB3	2.13	0.47
1:J:182:VAL:HA	1:J:191:HIS:ND1	2.28	0.47
1:J:599:MET:SD	1:J:600:ARG:NH2	2.88	0.47
4:M:1012:HIS:HB3	4:M:1015:GLN:OE1	2.13	0.47
5:N:172:ALA:HB3	5:N:182:MET:HB3	1.97	0.47
6:O:689:ALA:O	6:O:693:GLU:OE1	2.33	0.47
6:O:691:VAL:HG12	6:O:695:LEU:HD23	1.96	0.47
8:Q:218:TYR:CD2	8:Q:221:ARG:HD2	2.49	0.47
8:Q:447:MET:HG2	8:Q:478:TRP:CE3	2.48	0.47
8:Q:538:LEU:HD13	8:Q:567:TYR:HA	1.97	0.47
8:Q:812:LEU:HD12	8:Q:852:LEU:HD22	1.96	0.47
10:S:273:MET:HG2	10:S:385:PHE:CD1	2.49	0.47
10:S:320:TRP:CG	10:S:326:GLN:HB2	2.49	0.47
10:S:531:LEU:O	10:S:535:GLY:N	2.47	0.47
10:S:734:GLN:HA	10:S:737:ARG:HG2	1.96	0.47
10:S:815:LEU:O	10:S:818:SER:OG	2.27	0.47
10:S:833:PHE:CD1	10:S:834:PRO:HD2	2.50	0.47
10:S:1106:ALA:O	10:S:1109:GLN:HB2	2.14	0.47
10:S:1285:ARG:O	10:S:1288:VAL:HG22	2.15	0.47
10:S:1405:PHE:HA	10:S:1408:LYS:NZ	2.29	0.47
10:S:1980:ASP:OD1	10:S:1981:ILE:N	2.47	0.47
11:T:126:VAL:HG12	11:T:158:VAL:HG21	1.95	0.47
12:U:140:VAL:HG13	12:U:143:ARG:CZ	2.45	0.47
1:A:111:ALA:HA	1:A:114:GLU:OE2	2.15	0.47
2:B:11:SER:CA	2:B:365:GLU:HG3	2.42	0.47
2:B:37:SER:CB	2:B:44:LYS:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:120:HIS:NE2	2:B:151:ASN:OD1	2.48	0.47
2:B:241:ILE:O	2:B:250:PRO:HA	2.14	0.47
2:B:298:LEU:HD13	2:B:336:GLU:HA	1.96	0.47
4:D:167:PRO:HA	4:D:171:ARG:HH21	1.80	0.47
4:D:623:ASP:HA	4:D:626:TYR:CD2	2.50	0.47
6:F:333:THR:OG1	6:F:344:ARG:O	2.27	0.47
6:F:377:GLY:HA2	6:F:380:TRP:HD1	1.80	0.47
7:G:180:LYS:HB3	7:G:201:TRP:CH2	2.49	0.47
8:H:144:MET:HA	8:H:147:TYR:HE2	1.78	0.47
8:H:199:SER:HA	8:H:202:TRP:CE3	2.48	0.47
8:H:249:PHE:O	8:H:256:ARG:NH2	2.37	0.47
8:H:538:LEU:HA	8:H:541:MET:HE3	1.97	0.47
9:I:866:GLN:O	9:I:870:GLN:OE1	2.33	0.47
9:I:1100:LYS:HB3	9:I:1136:MET:O	2.15	0.47
9:I:1119:LYS:HA	9:I:1124:PHE:HD2	1.79	0.47
1:J:25:PHE:HE2	3:L:283:ARG:NH2	2.13	0.47
1:J:305:PHE:CZ	1:J:309:ARG:HD2	2.50	0.47
2:K:190:GLY:N	2:K:216:PRO:HA	2.30	0.47
2:K:237:GLY:HA3	2:K:257:HIS:HB2	1.96	0.47
2:K:239:LEU:HD13	2:K:335:LEU:HD21	1.97	0.47
4:M:79:TYR:HH	4:M:210:ARG:HH12	1.52	0.47
4:M:99:ARG:NH1	4:M:120:ASP:OD2	2.48	0.47
4:M:927:LEU:HD11	4:M:977:LEU:HD13	1.96	0.47
4:M:1134:ILE:HG21	4:M:1138:TYR:HB2	1.96	0.47
4:M:1178:GLU:O	4:M:1182:LEU:HG	2.14	0.47
4:M:1282:SER:N	4:M:1285:ASP:OD2	2.47	0.47
4:M:1420:GLN:O	4:M:1424:LYS:HG2	2.15	0.47
6:O:377:GLY:HA2	6:O:380:TRP:HD1	1.80	0.47
6:O:663:ALA:O	6:O:667:ASN:ND2	2.48	0.47
6:O:693:GLU:HA	6:O:696:ASN:ND2	2.23	0.47
6:O:774:ARG:O	6:O:777:ARG:HG2	2.15	0.47
7:P:302:VAL:HG12	7:P:303:ASN:O	2.14	0.47
8:Q:276:PHE:CE1	8:Q:283:TYR:HE2	2.32	0.47
8:Q:354:GLN:O	8:Q:358:LYS:HG2	2.14	0.47
8:Q:577:ILE:HG13	8:Q:578:GLU:N	2.28	0.47
8:Q:614:GLU:HA	8:Q:617:LYS:HG2	1.95	0.47
8:Q:690:PHE:CD2	8:Q:699:ALA:HA	2.50	0.47
9:R:1087:LYS:HA	9:R:1090:GLN:HG3	1.97	0.47
10:S:154:LYS:HG3	10:S:167:VAL:HG13	1.97	0.47
10:S:461:TRP:CE3	10:S:526:TYR:HB3	2.49	0.47
10:S:864:LEU:O	10:S:867:SER:OG	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1349:ARG:NH1	10:S:1429:GLN:HG2	2.30	0.47
10:S:1803:LEU:HB2	10:S:1809:PRO:HB3	1.97	0.47
10:S:1891:LEU:O	10:S:1894:TYR:HB3	2.15	0.47
10:S:1902:ILE:HG23	10:S:1906:HIS:CD2	2.50	0.47
12:U:278:ASN:HB3	12:U:281:GLN:HB2	1.95	0.47
1:A:16:LEU:HG	3:C:4:ALA:HB3	1.96	0.47
1:A:53:PHE:HB2	3:C:5:ARG:NH1	2.29	0.47
1:A:106:ARG:NE	1:A:144:TRP:HD1	2.12	0.47
1:A:355:ILE:HG13	1:A:356:HIS:N	2.30	0.47
1:A:427:ASN:HA	1:A:430:ARG:NH2	2.30	0.47
1:A:593:GLU:OE2	1:A:594:GLN:NE2	2.46	0.47
3:C:195:GLY:HA2	3:C:215:LEU:C	2.35	0.47
4:D:110:ASP:HB2	4:D:132:ILE:O	2.15	0.47
4:D:570:PHE:CD2	4:D:713:VAL:HG21	2.49	0.47
4:D:698:ARG:NH1	4:D:837:ALA:HB1	2.30	0.47
5:E:20:HIS:HB3	5:E:39:GLY:O	2.15	0.47
6:F:828:LEU:HA	6:F:831:LYS:HZ3	1.78	0.47
8:H:354:GLN:O	8:H:358:LYS:HG2	2.14	0.47
1:J:40:GLN:NE2	3:L:298:ASP:O	2.44	0.47
2:K:218:HIS:CE1	2:K:235:GLN:HB2	2.44	0.47
3:L:17:ASP:HB3	3:L:30:CYS:SG	2.54	0.47
3:L:122:ALA:HA	3:L:170:TRP:CE2	2.50	0.47
4:M:83:ALA:HB3	4:M:550:ALA:HB2	1.97	0.47
4:M:229:PHE:HB2	4:M:241:ILE:HB	1.96	0.47
4:M:831:HIS:CE1	4:M:835:VAL:HG23	2.49	0.47
4:M:1260:GLN:HB3	4:M:1264:TRP:CZ2	2.49	0.47
6:O:336:LYS:HD2	6:O:341:PRO:HB3	1.96	0.47
6:O:478:VAL:O	6:O:481:LEU:HB2	2.15	0.47
8:Q:341:LEU:HD13	8:Q:356:LEU:HD23	1.96	0.47
8:Q:577:ILE:HG22	8:Q:599:PHE:HZ	1.79	0.47
10:S:461:TRP:HB3	10:S:526:TYR:CD1	2.49	0.47
10:S:1121:LEU:HD21	10:S:1295:CYS:SG	2.54	0.47
10:S:1230:LEU:O	10:S:1234:LEU:HG	2.14	0.47
10:S:1306:GLN:HA	10:S:1309:ILE:HD12	1.95	0.47
12:U:251:MET:HE3	12:U:254:ALA:HB3	1.96	0.47
12:U:343:GLN:OE1	12:U:343:GLN:N	2.48	0.47
2:B:148:GLY:HA3	2:B:169:SER:HB3	1.97	0.47
2:B:221:ASP:HB3	2:B:266:PHE:CE2	2.50	0.47
2:B:356:GLN:O	2:B:373:LEU:HG	2.15	0.47
4:D:293:LEU:HB3	4:D:298:TYR:HE2	1.79	0.47
4:D:811:ARG:HH12	4:D:829:ARG:HG2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:883:MET:CE	4:D:891:LEU:HD22	2.45	0.47
4:D:1135:ARG:HB3	4:D:1138:TYR:HD2	1.80	0.47
4:D:1205:ILE:O	4:D:1209:SER:OG	2.10	0.47
6:F:334:VAL:HG13	6:F:343:PHE:CE1	2.50	0.47
8:H:181:LYS:NZ	8:H:201:LEU:HD11	2.30	0.47
8:H:494:ARG:HD2	8:H:494:ARG:HA	1.59	0.47
9:I:74:ASN:HD22	9:I:466:ARG:HB3	1.80	0.47
9:I:587:LEU:HD13	9:I:637:ILE:HA	1.97	0.47
9:I:622:THR:HG22	9:I:625:LEU:HD12	1.97	0.47
9:I:809:LYS:HD3	9:I:816:TYR:CG	2.49	0.47
9:I:1099:LEU:HB2	9:I:1139:GLN:HG3	1.97	0.47
3:L:120:LYS:HG3	3:L:170:TRP:NE1	2.29	0.47
4:M:525:GLN:O	4:M:528:ILE:N	2.48	0.47
4:M:911:PHE:O	4:M:915:GLN:HG3	2.14	0.47
4:M:1363:LYS:NZ	4:M:1365:HIS:HE1	2.12	0.47
4:M:1418:TYR:CZ	4:M:1422:LEU:HD22	2.50	0.47
6:O:528:GLN:CD	6:O:533:ARG:HH12	2.18	0.47
6:O:630:ASP:CG	6:O:632:ARG:HH21	2.18	0.47
6:O:744:LEU:O	6:O:748:LYS:HG2	2.15	0.47
7:P:59:PRO:HG2	7:P:61:TRP:CH2	2.50	0.47
7:P:87:LYS:HG2	7:P:94:GLU:O	2.15	0.47
7:P:290:GLU:HB3	7:P:294:GLY:HA2	1.96	0.47
9:R:689:LEU:HD13	9:R:692:LYS:CE	2.45	0.47
10:S:804:HIS:NE2	10:S:871:MET:HB3	2.30	0.47
10:S:1407:LEU:HG	10:S:1472:TYR:CD1	2.50	0.47
10:S:1791:ARG:CZ	10:S:1813:VAL:HG13	2.45	0.47
11:T:405:TRP:CH2	11:T:410:MET:HG3	2.50	0.47
12:U:343:GLN:HA	12:U:350:LYS:HG3	1.97	0.47
12:U:618:GLU:OE2	12:U:619:ASN:ND2	2.48	0.47
2:B:196:ASP:O	2:B:200:GLN:NE2	2.48	0.47
2:B:283:LEU:O	2:B:283:LEU:HD12	2.14	0.47
3:C:46:ASN:HB3	3:C:48:HIS:CE1	2.49	0.47
4:D:299:LEU:O	4:D:310:MET:HA	2.15	0.47
4:D:386:HIS:NE2	11:T:115:LYS:HE2	2.30	0.47
4:D:628:MET:HG2	4:D:641:VAL:CG1	2.45	0.47
4:D:1085:ALA:HA	4:D:1088:ILE:HD12	1.96	0.47
7:G:43:LYS:O	7:G:46:GLY:N	2.48	0.47
8:H:688:ARG:HH22	8:H:833:ARG:NE	2.13	0.47
8:H:758:ILE:HG13	8:H:759:ASN:N	2.30	0.47
9:I:626:LEU:HA	9:I:629:HIS:ND1	2.30	0.47
2:K:274:LEU:HB2	2:K:286:TRP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:81:ARG:NH2	3:L:115:SER:HA	2.30	0.47
3:L:237:ILE:HD13	3:L:249:THR:HA	1.97	0.47
4:M:293:LEU:HD22	4:M:382:TYR:CE1	2.49	0.47
4:M:344:LEU:HD21	4:M:357:LEU:HD22	1.97	0.47
5:N:302:LEU:HD11	5:N:311:CYS:HB2	1.95	0.47
6:O:275:GLU:HG2	6:O:277:ASP:H	1.79	0.47
6:O:699:CYS:HB2	6:O:728:ALA:HB1	1.97	0.47
7:P:134:PHE:HE1	7:P:138:GLY:O	1.97	0.47
8:Q:249:PHE:O	8:Q:256:ARG:NH2	2.37	0.47
8:Q:582:PHE:O	8:Q:586:HIS:NE2	2.48	0.47
9:R:215:SER:HB3	9:R:219:GLN:HG2	1.97	0.47
9:R:305:VAL:HB	9:R:309:TYR:CE2	2.49	0.47
9:R:971:VAL:HG12	9:R:975:LYS:NZ	2.29	0.47
10:S:211:LYS:HZ2	10:S:830:TYR:N	2.11	0.47
10:S:440:LEU:O	10:S:513:MET:HE2	2.15	0.47
10:S:690:GLU:O	10:S:694:ARG:HG3	2.14	0.47
10:S:799:GLY:O	10:S:802:LEU:HG	2.15	0.47
10:S:1425:LEU:HD11	10:S:1494:LEU:HA	1.95	0.47
10:S:2000:ARG:NH1	10:S:2003:ARG:HG2	2.29	0.47
11:T:480:LEU:HA	11:T:485:LEU:HD23	1.97	0.47
11:T:838:SER:HA	11:T:841:HIS:CD2	2.48	0.47
1:A:449:LEU:O	1:A:452:LEU:HB2	2.15	0.46
1:A:453:ARG:HA	1:A:456:GLU:CD	2.35	0.46
2:B:224:PRO:HD3	2:B:266:PHE:CD2	2.49	0.46
4:D:432:ALA:HB3	11:T:111:ILE:CA	2.41	0.46
4:D:637:SER:H	4:D:640:ARG:HE	1.62	0.46
4:D:974:LEU:HD12	4:D:976:GLU:OE2	2.15	0.46
5:E:18:TYR:CE1	5:E:298:VAL:HG11	2.51	0.46
5:E:121:GLU:HB2	5:E:152:TRP:CH2	2.50	0.46
6:F:255:TRP:CB	7:G:271:ILE:H	2.28	0.46
6:F:528:GLN:CD	6:F:533:ARG:HH12	2.18	0.46
6:F:671:TRP:CH2	6:F:714:LEU:HD11	2.50	0.46
8:H:201:LEU:O	8:H:205:GLN:NE2	2.47	0.46
8:H:375:TYR:HB2	8:H:395:ARG:HH12	1.80	0.46
8:H:765:PRO:O	8:H:766:THR:OG1	2.31	0.46
9:I:862:MET:SD	9:I:888:TRP:HZ2	2.39	0.46
9:I:888:TRP:CZ2	9:I:892:LYS:HG3	2.50	0.46
9:I:902:PRO:HD2	9:I:905:GLN:HE22	1.78	0.46
1:J:107:SER:HB2	2:K:325:TRP:CZ2	2.49	0.46
1:J:242:HIS:NE2	1:J:255:LYS:HD2	2.30	0.46
2:K:147:ASP:OD2	2:K:149:ARG:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:166:ASP:HA	2:K:202:ASN:HA	1.97	0.46
3:L:81:ARG:HB3	3:L:112:SER:O	2.15	0.46
3:L:283:ARG:HD3	3:L:285:SER:OG	2.15	0.46
3:L:305:TRP:O	3:L:313:TRP:HZ3	1.98	0.46
4:M:414:LEU:HB3	9:R:183:LEU:O	2.14	0.46
4:M:1320:LEU:HD23	4:M:1325:ILE:CG1	2.43	0.46
4:M:1344:ASP:OD2	10:S:724:LEU:HG	2.16	0.46
6:O:259:TRP:CE3	7:P:275:ILE:HB	2.49	0.46
6:O:325:LEU:HA	6:O:328:GLU:OE1	2.14	0.46
6:O:498:ILE:HG23	8:Q:313:GLU:OE1	2.15	0.46
7:P:44:ASN:HB3	10:S:568:ARG:HE	1.79	0.46
8:Q:377:ASP:OD1	8:Q:387:GLN:HB2	2.15	0.46
9:R:283:SER:HA	9:R:302:MET:HG2	1.97	0.46
9:R:307:ARG:HA	9:R:330:ILE:HD12	1.96	0.46
10:S:587:THR:N	10:S:590:GLU:OE2	2.43	0.46
10:S:640:LYS:O	10:S:644:LEU:HG	2.15	0.46
10:S:762:VAL:HG22	10:S:766:PHE:CZ	2.50	0.46
10:S:773:TYR:CD1	10:S:799:GLY:HA3	2.50	0.46
10:S:1329:LEU:O	10:S:1333:VAL:HG22	2.16	0.46
10:S:1867:THR:HA	10:S:1870:LYS:HE2	1.97	0.46
12:U:536:TYR:HE2	12:U:551:TYR:CE1	2.34	0.46
1:A:80:VAL:C	1:A:84:LYS:HZ2	2.19	0.46
1:A:252:PHE:HE2	1:A:315:PRO:HB2	1.80	0.46
2:B:68:GLN:HE22	2:B:71:ASP:HB3	1.80	0.46
2:B:85:ASP:OD1	2:B:88:ARG:HG2	2.15	0.46
2:B:257:HIS:CG	2:B:258:GLU:N	2.83	0.46
4:D:536:THR:HA	4:D:539:LEU:HD12	1.97	0.46
4:D:831:HIS:CD2	4:D:835:VAL:HG23	2.50	0.46
4:D:1093:TYR:CD1	4:D:1134:ILE:HG12	2.50	0.46
5:E:124:SER:HB3	5:E:146:ASP:HB3	1.97	0.46
6:F:302:PHE:CB	7:G:12:HIS:CE1	2.98	0.46
6:F:459:LYS:HA	6:F:459:LYS:HD3	1.73	0.46
6:F:918:ARG:HA	6:F:921:ILE:HG22	1.97	0.46
8:H:663:ILE:HG23	8:H:702:VAL:HG22	1.98	0.46
9:I:590:LYS:NZ	9:I:677:ARG:HA	2.30	0.46
4:M:1125:LEU:C	4:M:1125:LEU:HD23	2.35	0.46
4:M:1164:GLU:OE2	10:S:496:ARG:HB3	2.14	0.46
4:M:1233:THR:O	4:M:1235:LYS:NZ	2.44	0.46
6:O:355:TYR:HH	6:O:636:HIS:HD1	1.63	0.46
6:O:796:GLU:CB	6:O:800:LYS:HZ3	2.29	0.46
6:O:804:ASP:O	6:O:808:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:808:VAL:HG22	6:O:831:LYS:HE2	1.98	0.46
7:P:15:MET:N	7:P:15:MET:SD	2.87	0.46
7:P:110:CYS:C	7:P:158:TRP:HE1	2.18	0.46
8:Q:215:ALA:HB1	8:Q:219:ARG:HH21	1.81	0.46
8:Q:494:ARG:HA	8:Q:494:ARG:HH11	1.81	0.46
8:Q:633:ASN:HB3	8:Q:637:LYS:NZ	2.30	0.46
8:Q:643:ALA:H	8:Q:839:LEU:HD21	1.80	0.46
9:R:882:SER:O	9:R:885:LEU:HB2	2.15	0.46
9:R:931:GLU:HG2	9:R:967:PHE:HZ	1.79	0.46
10:S:507:TYR:OH	10:S:550:VAL:HB	2.16	0.46
10:S:671:GLN:CD	10:S:682:VAL:H	2.19	0.46
11:T:159:VAL:HG13	11:T:226:LEU:HD22	1.96	0.46
12:U:682:ALA:H	12:U:687:ASN:HD21	1.63	0.46
1:A:159:PRO:HA	1:A:162:ILE:HD12	1.98	0.46
1:A:243:THR:HB	1:A:247:GLN:HG3	1.98	0.46
1:A:542:PHE:HA	1:A:545:MET:HE3	1.97	0.46
2:B:117:GLU:CD	2:B:117:GLU:H	2.19	0.46
2:B:178:LEU:HD11	2:B:244:VAL:O	2.15	0.46
2:B:270:ASN:HB3	2:B:273:HIS:HD2	1.81	0.46
3:C:223:HIS:CE1	3:C:280:GLN:HB2	2.50	0.46
4:D:706:GLY:O	4:D:811:ARG:NH2	2.48	0.46
4:D:1180:ARG:HA	4:D:1183:GLU:OE2	2.15	0.46
6:F:382:LEU:HD23	6:F:382:LEU:HA	1.70	0.46
6:F:494:VAL:HG12	6:F:498:ILE:CG1	2.45	0.46
7:G:290:GLU:HB2	7:G:296:TRP:CE3	2.50	0.46
8:H:295:THR:O	8:H:299:ARG:HG3	2.15	0.46
9:I:78:PHE:HD2	9:I:460:MET:HE1	1.80	0.46
9:I:1125:GLU:HB2	9:I:1129:LYS:HZ1	1.79	0.46
4:M:448:LEU:HD11	4:M:535:TYR:CE1	2.50	0.46
4:M:766:GLN:HA	4:M:769:LEU:HD12	1.97	0.46
5:N:80:TRP:CZ3	5:N:93:LEU:HD12	2.50	0.46
5:N:307:ARG:HG3	5:N:308:LEU:HG	1.97	0.46
6:O:723:GLN:O	6:O:727:LYS:HG3	2.15	0.46
6:O:733:SER:HB2	6:O:742:GLU:OE2	2.15	0.46
7:P:22:ASP:OD2	7:P:26:ILE:HG12	2.15	0.46
7:P:178:TYR:O	7:P:180:LYS:NZ	2.41	0.46
7:P:179:ILE:HG22	7:P:196:GLU:HB3	1.98	0.46
8:Q:262:VAL:HG22	8:Q:445:LYS:HZ1	1.80	0.46
8:Q:298:GLN:NE2	8:Q:306:SER:OG	2.43	0.46
8:Q:564:LEU:O	8:Q:568:ILE:HG12	2.16	0.46
8:Q:575:LYS:CD	8:Q:576:GLN:H	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:644:HIS:HA	8:Q:843:LEU:HB2	1.96	0.46
9:R:344:ILE:N	9:R:363:VAL:O	2.42	0.46
9:R:583:LEU:HB3	9:R:640:LYS:HZ2	1.80	0.46
9:R:654:ILE:HD12	9:R:685:ILE:HD11	1.96	0.46
9:R:683:GLU:HA	9:R:686:PHE:CE2	2.50	0.46
10:S:387:ARG:O	10:S:391:LYS:HE2	2.15	0.46
10:S:844:ALA:HA	10:S:847:PHE:HD2	1.80	0.46
10:S:1063:VAL:O	10:S:1067:LEU:HG	2.16	0.46
10:S:1352:LEU:HD23	10:S:1386:GLY:HA3	1.98	0.46
11:T:360:VAL:HG21	11:T:371:VAL:HA	1.97	0.46
11:T:961:TYR:CE2	11:T:1002:PRO:HD2	2.50	0.46
1:A:515:THR:HB	2:B:106:ASN:CG	2.35	0.46
2:B:282:SER:HB2	2:B:284:TRP:CZ2	2.50	0.46
4:D:46:TYR:HB3	4:D:571:LEU:HB3	1.97	0.46
4:D:1095:LYS:NZ	6:F:903:ASP:HA	2.30	0.46
4:D:1257:GLU:OE2	4:D:1257:GLU:N	2.47	0.46
6:F:786:PRO:HA	6:F:789:CYS:SG	2.56	0.46
7:G:27:ARG:NH2	7:G:72:ASN:OD1	2.49	0.46
8:H:686:ILE:HD12	8:H:689:LYS:HB2	1.98	0.46
9:I:149:LEU:HB3	9:I:170:ALA:O	2.16	0.46
9:I:242:MET:CG	9:I:243:LEU:H	2.29	0.46
9:I:629:HIS:HA	9:I:632:LYS:NZ	2.30	0.46
1:J:160:LEU:O	1:J:164:LEU:HG	2.15	0.46
1:J:472:ALA:HB2	1:J:487:TRP:CB	2.46	0.46
2:K:149:ARG:HD2	2:K:165:ASP:HA	1.95	0.46
2:K:277:CYS:HB2	2:K:348:VAL:HG13	1.97	0.46
4:M:156:LEU:HD11	4:M:219:ALA:HB2	1.97	0.46
4:M:891:LEU:HD11	4:M:912:MET:HB2	1.96	0.46
4:M:1004:PHE:HZ	4:M:1036:LEU:HD12	1.81	0.46
4:M:1069:ALA:HB1	4:M:1080:TYR:CE2	2.50	0.46
6:O:685:HIS:CE1	7:P:166:SER:C	2.88	0.46
7:P:81:ARG:HD2	7:P:103:ASP:C	2.36	0.46
7:P:255:LYS:HZ1	7:P:295:GLN:HA	1.80	0.46
8:Q:452:VAL:HA	8:Q:455:GLU:OE2	2.15	0.46
9:R:765:ARG:O	9:R:769:ILE:HG12	2.16	0.46
9:R:990:GLU:OE2	9:R:991:THR:HG23	2.15	0.46
10:S:160:LEU:HB2	10:S:162:HIS:CE1	2.50	0.46
10:S:532:LYS:N	10:S:552:TRP:CZ3	2.80	0.46
10:S:684:ILE:HG12	10:S:700:LEU:HD21	1.97	0.46
10:S:1077:THR:O	10:S:1081:LEU:HG	2.15	0.46
10:S:1364:SER:O	10:S:1365:GLN:NE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1642:GLY:O	10:S:1645:LEU:HG	2.15	0.46
11:T:36:GLY:O	11:T:444:PHE:HB3	2.14	0.46
11:T:152:PHE:HE1	11:T:211:LEU:HD23	1.81	0.46
12:U:648:SER:OG	12:U:649:PRO:HD3	2.15	0.46
12:U:655:SER:H	12:U:704:HIS:CD2	2.34	0.46
1:A:243:THR:HG21	1:A:251:GLU:CB	2.44	0.46
3:C:41:LYS:HG2	3:C:45:GLY:HA2	1.97	0.46
3:C:136:ASP:CG	3:C:138:VAL:HB	2.35	0.46
3:C:169:SER:OG	3:C:183:ALA:HB3	2.16	0.46
4:D:285:PRO:HA	4:D:303:CYS:HA	1.97	0.46
4:D:334:ILE:HG21	4:D:368:GLN:HE22	1.80	0.46
6:F:640:VAL:O	6:F:644:LEU:HG	2.16	0.46
6:F:906:LEU:O	6:F:910:ARG:HG3	2.15	0.46
7:G:87:LYS:HA	7:G:93:TRP:CZ3	2.50	0.46
8:H:355:ARG:NH2	8:H:359:ARG:HH21	2.14	0.46
8:H:416:ARG:NH2	8:H:432:VAL:HB	2.24	0.46
8:H:777:VAL:HG12	8:H:781:HIS:NE2	2.31	0.46
9:I:118:ILE:HG22	9:I:120:TRP:HE3	1.80	0.46
9:I:980:ALA:HA	9:I:983:GLU:OE2	2.16	0.46
1:J:411:HIS:CG	1:J:414:LEU:HD22	2.51	0.46
1:J:485:LEU:O	1:J:489:ILE:HG13	2.15	0.46
1:J:599:MET:O	1:J:600:ARG:C	2.53	0.46
3:L:62:ARG:HH22	3:L:116:VAL:C	2.19	0.46
4:M:832:PHE:O	4:M:836:PHE:N	2.28	0.46
4:M:890:GLN:HA	4:M:893:GLU:OE2	2.15	0.46
4:M:1114:LEU:HB3	4:M:1115:ARG:NH1	2.31	0.46
6:O:382:LEU:HD21	6:O:416:TRP:CZ2	2.51	0.46
7:P:82:LYS:HZ2	7:P:84:ILE:HD11	1.80	0.46
8:Q:265:LEU:O	8:Q:268:ILE:HB	2.15	0.46
9:R:70:THR:HG21	9:R:432:ILE:HG12	1.97	0.46
9:R:333:LEU:N	9:R:345:LEU:O	2.49	0.46
9:R:683:GLU:HA	9:R:686:PHE:CD2	2.50	0.46
9:R:767:HIS:CD2	9:R:789:LEU:HD21	2.31	0.46
9:R:992:LEU:HD23	9:R:1019:TYR:CZ	2.51	0.46
10:S:253:LEU:HD13	10:S:256:VAL:HG21	1.97	0.46
10:S:646:THR:HB	10:S:650:PHE:CZ	2.51	0.46
10:S:1338:PHE:HD1	10:S:1419:HIS:O	1.98	0.46
10:S:1498:LEU:HA	10:S:1501:ARG:HH12	1.81	0.46
11:T:677:LEU:HA	11:T:679:ASP:N	2.31	0.46
12:U:92:PRO:HB2	12:U:94:LYS:HG2	1.97	0.46
1:A:38:LEU:HD12	3:C:14:LEU:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:162:ARG:CZ	2:B:164:ILE:HA	2.45	0.46
4:D:163:ARG:NH1	4:D:243:MET:HG3	2.30	0.46
4:D:845:SER:HA	4:D:850:ARG:HH12	1.81	0.46
5:E:283:HIS:CE1	5:E:290:PRO:HB3	2.51	0.46
6:F:379:THR:OG1	6:F:633:LEU:HD21	2.08	0.46
7:G:87:LYS:HA	7:G:93:TRP:HZ3	1.81	0.46
7:G:116:PHE:CE1	7:G:178:TYR:HB3	2.51	0.46
8:H:536:HIS:CE1	8:H:537:LEU:HD12	2.51	0.46
8:H:765:PRO:HA	8:H:786:TYR:CG	2.51	0.46
9:I:888:TRP:CZ3	9:I:894:LYS:NZ	2.82	0.46
9:I:949:CYS:O	9:I:953:THR:HG23	2.15	0.46
9:I:1068:SER:HB2	9:I:1072:GLY:HA2	1.98	0.46
1:J:412:HIS:CE1	2:K:179:ARG:HB3	2.45	0.46
1:J:469:LYS:NZ	3:L:69:GLU:HG2	2.31	0.46
1:J:593:GLU:O	1:J:596:TYR:HB2	2.14	0.46
2:K:5:PHE:CE2	2:K:7:ALA:HB2	2.51	0.46
2:K:284:TRP:CD1	2:K:339:ASN:HA	2.50	0.46
4:M:72:LEU:HD23	4:M:136:SER:H	1.81	0.46
4:M:343:LYS:HB3	4:M:345:ARG:HH12	1.80	0.46
4:M:352:LEU:O	4:M:354:ILE:HG12	2.15	0.46
5:N:226:ALA:O	5:N:232:TRP:HA	2.15	0.46
8:Q:165:LEU:HG	8:Q:169:TYR:CE2	2.51	0.46
9:R:852:ASP:O	9:R:856:LEU:HG	2.15	0.46
10:S:320:TRP:HH2	10:S:329:VAL:HG21	1.81	0.46
10:S:847:PHE:HB3	10:S:912:GLU:HB3	1.98	0.46
10:S:1037:LEU:HD21	10:S:1060:CYS:HB2	1.98	0.46
11:T:288:VAL:HG11	11:T:349:LEU:HD21	1.97	0.46
11:T:722:MET:SD	11:T:813:PHE:HD1	2.38	0.46
12:U:224:LEU:HB2	12:U:461:TYR:CZ	2.51	0.46
1:A:110:ARG:NH2	1:A:111:ALA:HB2	2.31	0.46
2:B:10:VAL:H	2:B:366:ALA:HA	1.80	0.46
4:D:349:SER:CB	4:D:352:LEU:HB2	2.46	0.46
4:D:1242:PHE:CE2	4:D:1305:TYR:CG	3.04	0.46
4:D:1250:ILE:O	4:D:1254:GLN:HG2	2.16	0.46
5:E:17:ASP:O	5:E:317:ARG:HA	2.16	0.46
5:E:236:GLU:H	5:E:244:GLN:HG3	1.79	0.46
6:F:267:LYS:HE3	6:F:276:GLU:OE1	2.16	0.46
6:F:382:LEU:HD21	6:F:416:TRP:CZ2	2.51	0.46
8:H:218:TYR:HA	8:H:221:ARG:HD2	1.97	0.46
8:H:266:GLU:OE1	8:H:347:ALA:HA	2.16	0.46
9:I:1119:LYS:HD2	9:I:1125:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:38:LEU:HD21	1:J:43:GLY:H	1.81	0.46
1:J:572:TRP:HA	1:J:575:LEU:HD13	1.97	0.46
2:K:187:ASN:OD1	2:K:193:LYS:HG3	2.16	0.46
2:K:267:HIS:HD1	2:K:270:ASN:N	2.13	0.46
2:K:277:CYS:HA	2:K:283:LEU:HD23	1.98	0.46
3:L:200:TYR:CZ	3:L:211:LYS:HD2	2.51	0.46
3:L:300:GLY:O	3:L:321:GLY:N	2.22	0.46
4:M:334:ILE:HG12	4:M:363:THR:OG1	2.15	0.46
4:M:911:PHE:CE2	4:M:933:ALA:HB1	2.51	0.46
4:M:1000:ARG:NH2	4:M:1019:ALA:HA	2.31	0.46
4:M:1382:TRP:CZ3	7:P:58:GLY:HA2	2.49	0.46
6:O:319:GLN:HA	6:O:322:LEU:HB3	1.97	0.46
8:Q:262:VAL:HG22	8:Q:445:LYS:NZ	2.31	0.46
8:Q:298:GLN:NE2	8:Q:299:ARG:HG3	2.31	0.46
8:Q:376:HIS:HE1	8:Q:378:ALA:HB2	1.81	0.46
9:R:945:THR:HA	9:R:951:LYS:HE3	1.97	0.46
10:S:563:HIS:CE1	10:S:567:ARG:HG3	2.50	0.46
10:S:817:LEU:O	10:S:821:GLU:OE1	2.33	0.46
10:S:1068:CYS:HA	10:S:1074:SER:HB3	1.97	0.46
10:S:1177:ARG:H	10:S:1182:ARG:NH2	2.14	0.46
11:T:501:LEU:HD21	11:T:515:GLY:HA3	1.96	0.46
11:T:946:GLN:OE1	11:T:946:GLN:N	2.44	0.46
12:U:650:VAL:O	12:U:653:GLN:HG2	2.15	0.46
12:U:805:SER:HB2	12:U:808:THR:OG1	2.15	0.46
1:A:11:THR:O	3:C:325:PRO:HG2	2.15	0.46
1:A:408:LEU:HA	1:A:414:LEU:CD2	2.46	0.46
1:A:653:GLU:HG3	4:D:1047:GLN:CD	2.36	0.46
2:B:132:THR:H	2:B:145:GLY:HA2	1.81	0.46
3:C:19:SER:HB2	3:C:63:VAL:HG13	1.98	0.46
3:C:277:HIS:CA	3:C:303:ARG:HE	2.28	0.46
3:C:285:SER:O	3:C:293:LEU:HD12	2.15	0.46
4:D:112:LEU:HB2	4:D:137:ILE:HD12	1.98	0.46
5:E:146:ASP:N	5:E:146:ASP:OD1	2.49	0.46
6:F:359:VAL:HG21	6:F:380:TRP:NE1	2.30	0.46
6:F:478:VAL:O	6:F:481:LEU:HB2	2.15	0.46
7:G:97:TYR:CG	7:G:98:GLU:N	2.83	0.46
7:G:106:VAL:HA	7:G:124:SER:HB2	1.97	0.46
8:H:262:VAL:HG22	8:H:445:LYS:NZ	2.31	0.46
8:H:609:ARG:HB2	8:H:668:TRP:CH2	2.51	0.46
9:I:364:THR:HB	9:I:377:THR:CG2	2.45	0.46
9:I:628:GLU:HG2	9:I:750:TRP:HD1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:988:HIS:O	9:I:1019:TYR:OH	2.34	0.46
2:K:54:GLY:HA2	2:K:63:GLN:HE22	1.81	0.46
2:K:268:PRO:HG2	2:K:355:GLY:N	2.25	0.46
4:M:363:THR:HG22	4:M:365:ARG:H	1.81	0.46
4:M:509:ILE:HD11	4:M:531:TRP:CH2	2.51	0.46
4:M:829:ARG:HA	4:M:832:PHE:CD2	2.51	0.46
5:N:305:HIS:HB3	5:N:308:LEU:O	2.16	0.46
6:O:334:VAL:HG11	6:O:719:CYS:HB2	1.97	0.46
6:O:693:GLU:CB	6:O:697:ARG:HH12	2.29	0.46
6:O:707:SER:HA	6:O:710:LYS:NZ	2.30	0.46
7:P:39:ILE:HG22	7:P:50:ILE:HG13	1.98	0.46
8:Q:185:LYS:HE3	8:Q:186:ARG:HE	1.80	0.46
8:Q:355:ARG:NH2	8:Q:359:ARG:HH21	2.14	0.46
9:R:1099:LEU:HB2	9:R:1136:MET:HG3	1.97	0.46
10:S:760:GLU:OE2	10:S:841:LYS:HB2	2.15	0.46
10:S:765:VAL:O	10:S:769:LEU:HD23	2.16	0.46
10:S:1395:LEU:O	10:S:1398:ILE:HG22	2.16	0.46
10:S:1611:PRO:HG3	10:S:1614:ARG:HH22	1.81	0.46
11:T:249:MET:HA	11:T:252:LEU:HA	1.97	0.46
11:T:717:ASP:OD1	11:T:718:THR:N	2.49	0.46
12:U:495:LEU:O	12:U:499:GLU:HG3	2.16	0.46
1:A:67:VAL:HA	1:A:70:LYS:HE2	1.97	0.46
1:A:206:ARG:HB3	1:A:209:GLU:OE2	2.16	0.46
1:A:302:TRP:CZ2	1:A:347:LEU:HD11	2.51	0.46
1:A:439:ARG:HD2	1:A:439:ARG:HA	1.76	0.46
1:A:453:ARG:NE	1:A:456:GLU:OE2	2.46	0.46
2:B:3:ASP:HB2	2:B:372:ARG:HB3	1.97	0.46
2:B:120:HIS:CE1	2:B:149:ARG:HB2	2.51	0.46
4:D:329:PRO:HD2	11:T:115:LYS:HZ3	1.80	0.46
4:D:770:SER:O	4:D:774:ILE:HG23	2.16	0.46
4:D:774:ILE:HG13	4:D:775:ARG:N	2.31	0.46
4:D:974:LEU:HD22	5:E:275:LYS:HZ2	1.80	0.46
4:D:1128:LEU:O	4:D:1131:LEU:HB2	2.16	0.46
4:D:1309:ILE:O	4:D:1313:LEU:HG	2.15	0.46
5:E:50:ARG:O	5:E:61:ILE:HA	2.15	0.46
5:E:192:PHE:CD2	5:E:202:LEU:HB3	2.51	0.46
6:F:328:GLU:HG2	6:F:355:TYR:CZ	2.48	0.46
6:F:539:LEU:O	6:F:545:PRO:HA	2.16	0.46
6:F:673:TRP:HA	6:F:676:PHE:CD2	2.50	0.46
7:G:95:LYS:HZ1	7:G:98:GLU:HG2	1.81	0.46
8:H:214:ILE:O	8:H:218:TYR:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:240:SER:O	8:H:243:THR:OG1	2.27	0.46
8:H:581:ALA:HA	8:H:584:VAL:HG12	1.96	0.46
9:I:75:VAL:HG22	9:I:463:VAL:HG22	1.98	0.46
9:I:986:LEU:HA	9:I:989:GLN:NE2	2.31	0.46
9:I:1109:LEU:O	9:I:1115:LEU:HD22	2.16	0.46
1:J:531:ASP:O	1:J:534:THR:HB	2.16	0.46
1:J:599:MET:SD	1:J:600:ARG:CZ	3.04	0.46
4:M:529:GLU:HG2	9:R:77:LEU:H	1.81	0.46
4:M:1306:HIS:O	4:M:1310:ILE:HG12	2.16	0.46
4:M:1326:ASN:HA	4:M:1329:LYS:HG2	1.98	0.46
4:M:1335:GLU:O	4:M:1338:ARG:HD3	2.16	0.46
5:N:80:TRP:HZ3	5:N:93:LEU:HB3	1.81	0.46
5:N:121:GLU:HB2	5:N:152:TRP:CH2	2.51	0.46
5:N:212:MET:HE2	5:N:254:ALA:O	2.16	0.46
6:O:706:GLU:HG3	6:O:710:LYS:NZ	2.30	0.46
6:O:811:MET:CE	6:O:828:LEU:HD13	2.46	0.46
7:P:35:ARG:NH2	7:P:59:PRO:HA	2.31	0.46
7:P:65:TRP:HA	7:P:74:LEU:HD23	1.97	0.46
7:P:132:LEU:HD13	7:P:142:VAL:HG12	1.98	0.46
8:Q:295:THR:O	8:Q:299:ARG:HG3	2.15	0.46
8:Q:358:LYS:HZ1	12:U:31:ARG:CA	2.29	0.46
8:Q:375:TYR:HB2	8:Q:395:ARG:HH12	1.80	0.46
8:Q:545:LEU:HD23	8:Q:548:PHE:HD2	1.81	0.46
8:Q:737:GLU:O	8:Q:741:ILE:HD12	2.15	0.46
9:R:120:TRP:HA	9:R:132:VAL:O	2.16	0.46
9:R:838:GLY:HA2	9:R:840:TYR:CZ	2.50	0.46
10:S:732:TYR:HA	10:S:735:PHE:HB3	1.97	0.46
10:S:736:LEU:HD12	10:S:737:ARG:N	2.30	0.46
10:S:884:ASN:HD21	10:S:891:ASP:H	1.64	0.46
10:S:1301:PRO:HB2	10:S:1304:HIS:ND1	2.31	0.46
10:S:1754:GLN:O	10:S:1758:ASN:HB2	2.15	0.46
11:T:255:ASP:HB3	11:T:322:LEU:HD23	1.98	0.46
12:U:207:ASP:O	12:U:211:GLU:OE1	2.33	0.46
12:U:362:ARG:N	12:U:362:ARG:HD2	2.30	0.46
12:U:470:THR:HB	12:U:472:GLN:HE22	1.81	0.46
1:A:40:GLN:HG3	3:C:282:TRP:CE2	2.52	0.46
1:A:150:LEU:HD22	1:A:151:PHE:CE2	2.51	0.46
1:A:500:ILE:HG22	1:A:504:PHE:CZ	2.51	0.46
1:A:550:GLN:O	1:A:554:ALA:HB2	2.15	0.46
3:C:229:PRO:HB2	3:C:290:GLY:HA3	1.98	0.46
3:C:314:LYS:O	3:C:316:ILE:HD12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:49:LEU:HD13	4:D:717:ALA:HB2	1.98	0.46
4:D:722:SER:O	4:D:726:PHE:HB2	2.15	0.46
4:D:906:VAL:HG22	4:D:939:ARG:NH2	2.31	0.46
4:D:1420:GLN:HE22	4:D:1421:LYS:HG2	1.80	0.46
5:E:143:VAL:HG13	5:E:171:VAL:HB	1.98	0.46
5:E:191:ARG:HD2	5:E:191:ARG:HA	1.64	0.46
7:G:22:ASP:OD1	7:G:22:ASP:N	2.41	0.46
7:G:39:ILE:O	7:G:50:ILE:N	2.48	0.46
7:G:201:TRP:C	7:G:202:LYS:HD3	2.37	0.46
7:G:230:ILE:HB	7:G:242:TRP:HB2	1.98	0.46
8:H:128:LEU:O	8:H:132:MET:HB2	2.15	0.46
9:I:876:PHE:HA	9:I:879:GLN:HG2	1.97	0.46
1:J:15:GLY:HA2	1:J:18:GLN:HB2	1.97	0.46
1:J:133:GLN:HA	1:J:136:ILE:HG12	1.98	0.46
1:J:451:ALA:HA	1:J:454:ILE:HD12	1.98	0.46
4:M:360:TYR:CE1	4:M:367:GLY:HA3	2.51	0.46
4:M:415:ASP:N	4:M:415:ASP:OD1	2.48	0.46
4:M:477:LYS:HA	4:M:480:GLN:HG2	1.98	0.46
4:M:1055:VAL:C	4:M:1057:LEU:H	2.19	0.46
4:M:1238:LEU:HB3	4:M:1242:PHE:HE2	1.81	0.46
5:N:232:TRP:HB3	5:N:269:THR:HG21	1.97	0.46
7:P:104:SER:N	7:P:126:ASP:OD1	2.49	0.46
8:Q:214:ILE:HG12	8:Q:510:VAL:HG21	1.98	0.46
8:Q:338:LEU:HB3	8:Q:414:TYR:CD1	2.51	0.46
8:Q:486:GLU:O	8:Q:490:THR:HG23	2.16	0.46
8:Q:819:TRP:C	8:Q:821:VAL:N	2.69	0.46
9:R:396:GLN:HB3	9:R:410:TYR:CE1	2.51	0.46
9:R:951:LYS:HD2	9:R:1009:VAL:HG21	1.98	0.46
10:S:663:SER:O	10:S:667:THR:HG23	2.16	0.46
10:S:1587:TYR:O	10:S:1615:TYR:OH	2.23	0.46
10:S:1666:LEU:HD13	10:S:1748:MET:SD	2.55	0.46
10:S:1850:ILE:HG22	10:S:1870:LYS:HB3	1.97	0.46
11:T:804:GLY:HA2	11:T:807:ILE:HD12	1.98	0.46
12:U:23:VAL:HG23	12:U:24:THR:HG23	1.97	0.46
12:U:235:PRO:HD2	12:U:235:PRO:O	2.16	0.46
1:A:322:LEU:HD23	1:A:325:TYR:HE2	1.80	0.45
2:B:47:VAL:HG21	2:B:103:HIS:CE1	2.51	0.45
4:D:922:GLU:OE1	4:D:922:GLU:N	2.49	0.45
4:D:1040:LEU:HD13	4:D:1046:LEU:HD13	1.98	0.45
6:F:295:LYS:HE2	6:F:302:PHE:H	1.80	0.45
8:H:265:LEU:O	8:H:268:ILE:HB	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:445:LYS:N	8:H:445:LYS:HD2	2.32	0.45
8:H:753:GLU:O	8:H:756:LYS:HG2	2.15	0.45
9:I:610:LEU:HB3	9:I:622:THR:OG1	2.16	0.45
9:I:821:MET:SD	9:I:822:GLU:N	2.89	0.45
9:I:847:ALA:HB3	9:I:856:LEU:HD21	1.98	0.45
9:I:931:GLU:HB2	9:I:932:LYS:HZ2	1.80	0.45
9:I:995:LYS:H	9:I:1026:ARG:NH2	2.14	0.45
1:J:408:LEU:HB3	1:J:414:LEU:O	2.15	0.45
1:J:588:VAL:H	1:J:643:ARG:HH12	1.64	0.45
4:M:226:GLU:HG2	4:M:245:PRO:HG3	1.98	0.45
4:M:1285:ASP:O	4:M:1289:ARG:HG2	2.16	0.45
5:N:5:SER:OG	5:N:293:ILE:HB	2.16	0.45
8:Q:890:ASN:O	8:Q:894:LYS:HG3	2.15	0.45
9:R:121:LYS:HB3	9:R:131:MET:HB3	1.97	0.45
9:R:544:ASP:HB2	9:R:613:CYS:HB3	1.99	0.45
9:R:642:HIS:CE1	9:R:717:ILE:HG13	2.51	0.45
9:R:856:LEU:HD22	9:R:872:TYR:CE2	2.51	0.45
10:S:1302:THR:O	10:S:1306:GLN:HG2	2.15	0.45
11:T:144:HIS:O	11:T:249:MET:HE3	2.16	0.45
12:U:336:GLN:NE2	12:U:354:GLN:OE1	2.25	0.45
12:U:515:SER:CA	12:U:525:ARG:HH21	2.29	0.45
12:U:579:ARG:CZ	12:U:581:PHE:HZ	2.29	0.45
12:U:747:SER:O	12:U:750:LEU:HG	2.16	0.45
1:A:16:LEU:HB3	1:A:20:ASN:HA	1.99	0.45
1:A:356:HIS:ND1	1:A:387:ALA:O	2.45	0.45
1:A:565:ARG:NH2	1:A:605:ARG:HH12	2.13	0.45
1:A:627:ASN:O	1:A:630:VAL:N	2.49	0.45
3:C:26:ARG:NH2	3:C:40:ASP:HB3	2.30	0.45
3:C:61:TRP:HE3	3:C:77:CYS:SG	2.39	0.45
4:D:95:LEU:HD23	4:D:700:ASN:H	1.81	0.45
4:D:143:HIS:NE2	4:D:218:THR:HA	2.31	0.45
4:D:275:ILE:HG13	4:D:276:ARG:HG2	1.97	0.45
4:D:950:GLU:HB2	4:D:967:ARG:HH22	1.80	0.45
4:D:1143:GLN:O	4:D:1174:ILE:HG13	2.16	0.45
5:E:22:VAL:CG2	5:E:36:LEU:HD21	2.46	0.45
6:F:292:THR:HB	7:G:47:GLN:NE2	2.32	0.45
6:F:344:ARG:NE	6:F:682:GLN:OE1	2.49	0.45
6:F:671:TRP:HB3	6:F:698:HIS:CD2	2.51	0.45
6:F:804:ASP:O	6:F:808:VAL:HG23	2.17	0.45
6:F:858:LYS:CD	6:F:859:ARG:HH21	2.30	0.45
7:G:54:ARG:HG3	7:G:55:GLY:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:822:GLU:C	9:I:826:LYS:HZ2	2.19	0.45
3:L:208:LYS:HD3	3:L:209:TYR:N	2.32	0.45
4:M:515:ASP:OD1	9:R:60:ARG:NE	2.47	0.45
4:M:601:ASP:OD1	4:M:669:ARG:NH2	2.48	0.45
4:M:1267:LEU:HD13	4:M:1286:GLU:OE2	2.17	0.45
6:O:359:VAL:HG21	6:O:380:TRP:NE1	2.30	0.45
6:O:753:ASN:O	6:O:756:HIS:HB3	2.16	0.45
7:P:115:ASP:HB2	7:P:178:TYR:CE2	2.51	0.45
8:Q:416:ARG:NH1	8:Q:428:GLN:O	2.50	0.45
8:Q:718:TRP:O	8:Q:721:GLN:HG2	2.16	0.45
10:S:886:ARG:NH2	10:S:887:SER:HB3	2.32	0.45
10:S:908:GLU:HG2	10:S:909:LEU:HG	1.98	0.45
10:S:1424:LEU:HD23	10:S:1498:LEU:HD13	1.99	0.45
10:S:1604:THR:HG21	10:S:1614:ARG:HH22	1.81	0.45
10:S:1688:LEU:HD11	10:S:1707:ILE:HG13	1.97	0.45
12:U:130:ARG:O	12:U:134:LEU:HG	2.16	0.45
12:U:172:ALA:O	12:U:543:THR:HA	2.17	0.45
12:U:795:THR:O	12:U:799:MET:HG3	2.15	0.45
1:A:97:GLN:HA	1:A:100:GLN:CD	2.36	0.45
1:A:544:ARG:O	1:A:548:GLN:OE1	2.35	0.45
2:B:194:LEU:O	2:B:205:THR:HB	2.16	0.45
2:B:267:HIS:NE2	2:B:373:LEU:HD12	2.32	0.45
3:C:59:SER:H	3:C:79:PHE:HD2	1.65	0.45
6:F:779:PHE:O	6:F:782:GLU:HG3	2.16	0.45
7:G:249:THR:HA	12:U:458:GLN:O	2.16	0.45
7:G:287:LEU:HD12	7:G:300:SER:HB3	1.99	0.45
8:H:376:HIS:HE1	8:H:378:ALA:HB2	1.81	0.45
9:I:841:ALA:O	9:I:844:SER:OG	2.30	0.45
1:J:305:PHE:HE2	1:J:332:MET:HB2	1.82	0.45
4:M:165:ILE:HB	4:M:194:ASN:HD21	1.81	0.45
4:M:399:ASP:OD1	4:M:400:PHE:N	2.48	0.45
4:M:938:GLU:OE2	4:M:958:ARG:NE	2.49	0.45
4:M:938:GLU:HB2	4:M:939:ARG:HH11	1.81	0.45
4:M:1115:ARG:HG2	10:S:478:GLY:O	2.17	0.45
4:M:1217:LEU:O	4:M:1220:GLN:HG3	2.15	0.45
7:P:83:VAL:HG23	7:P:102:HIS:CE1	2.52	0.45
7:P:269:TRP:HB3	7:P:273:ALA:HA	1.99	0.45
8:Q:295:THR:O	8:Q:298:GLN:HG3	2.16	0.45
8:Q:494:ARG:HA	8:Q:497:GLU:OE2	2.17	0.45
8:Q:689:LYS:NZ	8:Q:836:GLN:HE22	2.15	0.45
10:S:276:LEU:HD22	10:S:392:LEU:HD11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:591:LEU:O	10:S:595:ILE:HG12	2.17	0.45
10:S:858:ASN:OD1	10:S:859:ARG:N	2.43	0.45
10:S:1416:VAL:HA	10:S:1419:HIS:CD2	2.51	0.45
10:S:1434:PRO:O	10:S:1450:ARG:NH1	2.47	0.45
10:S:1620:LEU:HG	10:S:1624:GLN:OE1	2.16	0.45
11:T:897:HIS:O	11:T:902:ASN:ND2	2.34	0.45
12:U:47:THR:O	12:U:50:ARG:HB2	2.17	0.45
12:U:224:LEU:HD22	12:U:461:TYR:CE1	2.51	0.45
12:U:715:ILE:HG13	12:U:721:VAL:HG13	1.97	0.45
1:A:195:TRP:O	1:A:199:THR:HG23	2.16	0.45
1:A:375:LEU:O	1:A:379:LEU:HG	2.15	0.45
1:A:453:ARG:HB3	1:A:457:GLN:HE22	1.80	0.45
1:A:541:GLU:O	1:A:544:ARG:HD3	2.16	0.45
2:B:285:HIS:NE2	2:B:287:ASP:OD2	2.49	0.45
3:C:42:SER:OG	3:C:46:ASN:N	2.49	0.45
3:C:246:ARG:HD3	3:C:273:GLN:HE22	1.80	0.45
4:D:132:ILE:HD12	4:D:137:ILE:HD11	1.98	0.45
4:D:150:ASN:HB3	4:D:165:ILE:HG23	1.98	0.45
4:D:445:ASP:O	4:D:469:ARG:NH2	2.50	0.45
4:D:553:VAL:HG22	4:D:560:VAL:HG22	1.97	0.45
4:D:1143:GLN:HG3	4:D:1175:GLU:HB2	1.99	0.45
5:E:9:ALA:HB2	5:E:320:PHE:HB3	1.99	0.45
6:F:266:ASP:HB3	6:F:270:GLU:OE1	2.17	0.45
6:F:634:SER:O	6:F:638:TRP:CE3	2.69	0.45
7:G:84:ILE:HG23	7:G:98:GLU:HG3	1.99	0.45
8:H:214:ILE:HG13	8:H:215:ALA:N	2.32	0.45
8:H:370:GLU:HA	8:H:373:LYS:HZ3	1.82	0.45
8:H:416:ARG:NH1	8:H:428:GLN:O	2.50	0.45
8:H:479:THR:HG23	8:H:482:SER:H	1.82	0.45
8:H:678:GLU:HA	8:H:681:LYS:HE2	1.97	0.45
1:J:70:LYS:HA	2:K:245:ARG:NH2	2.29	0.45
1:J:570:SER:HA	1:J:620:LYS:NZ	2.31	0.45
2:K:210:VAL:HG23	2:K:214:ARG:HG3	1.99	0.45
3:L:277:HIS:HA	3:L:303:ARG:HH22	1.82	0.45
4:M:547:ARG:HG2	9:R:134:LYS:HD2	1.99	0.45
4:M:1118:GLN:OE1	4:M:1193:LEU:HD21	2.17	0.45
5:N:34:SER:HB2	5:N:305:HIS:HE2	1.82	0.45
5:N:192:PHE:O	5:N:200:ALA:HA	2.15	0.45
6:O:449:ARG:NH2	6:O:452:ASP:HB2	2.31	0.45
6:O:538:HIS:CE1	6:O:556:TYR:CD1	3.03	0.45
7:P:85:ILE:HG22	7:P:96:THR:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:97:TYR:CG	7:P:98:GLU:N	2.85	0.45
8:Q:707:PRO:HG2	8:Q:710:SER:HB2	1.98	0.45
9:R:832:SER:O	9:R:836:ILE:HG23	2.17	0.45
9:R:838:GLY:HA2	9:R:840:TYR:CE1	2.52	0.45
9:R:948:PHE:O	9:R:952:LYS:HG2	2.16	0.45
10:S:16:PRO:HB3	10:S:46:TYR:CE1	2.51	0.45
10:S:389:ILE:O	10:S:393:VAL:HG23	2.16	0.45
10:S:974:THR:HA	10:S:977:ARG:CD	2.46	0.45
10:S:1004:LEU:HB3	10:S:1006:TYR:CE2	2.52	0.45
10:S:1341:THR:HG23	10:S:1426:TYR:CD2	2.45	0.45
10:S:1437:PRO:HA	10:S:1883:ASN:HD21	1.82	0.45
10:S:1779:CYS:HA	10:S:1905:ARG:NH1	2.32	0.45
11:T:891:TRP:CD1	11:T:926:LEU:HD23	2.51	0.45
11:T:901:LEU:HD12	11:T:902:ASN:HB3	1.98	0.45
12:U:692:LEU:O	12:U:696:LEU:HG	2.16	0.45
12:U:728:VAL:O	12:U:732:VAL:HG23	2.17	0.45
1:A:35:TYR:CE1	1:A:54:MET:HA	2.51	0.45
2:B:120:HIS:HE1	2:B:149:ARG:O	1.99	0.45
4:D:160:THR:HG22	4:D:203:VAL:HA	1.98	0.45
4:D:536:THR:O	4:D:540:GLN:HG2	2.16	0.45
4:D:974:LEU:HB3	4:D:977:LEU:HD23	1.99	0.45
6:F:614:ASP:C	6:F:616:CYS:N	2.70	0.45
7:G:113:PRO:HB2	7:G:161:SER:HB3	1.98	0.45
8:H:122:PHE:CE2	8:H:126:ILE:HD11	2.52	0.45
8:H:434:GLU:O	8:H:494:ARG:HG3	2.16	0.45
8:H:486:GLU:O	8:H:490:THR:HG23	2.17	0.45
8:H:691:LEU:HD13	8:H:696:HIS:ND1	2.31	0.45
9:I:718:LEU:O	9:I:721:MET:HG2	2.17	0.45
1:J:33:LEU:HD22	1:J:54:MET:SD	2.57	0.45
1:J:369:TRP:HE3	1:J:372:VAL:HG21	1.81	0.45
4:M:59:ARG:HE	4:M:60:ASN:H	1.64	0.45
4:M:325:LEU:HA	4:M:328:VAL:HG22	1.98	0.45
4:M:482:LEU:HG	4:M:508:GLU:HG3	1.99	0.45
4:M:526:ILE:HD11	9:R:60:ARG:NH2	2.32	0.45
4:M:1317:GLY:N	10:S:719:ASN:HD21	2.14	0.45
5:N:67:LYS:HZ2	5:N:69:PHE:HB2	1.82	0.45
6:O:322:LEU:HD22	6:O:323:LEU:HD22	1.98	0.45
6:O:358:TRP:CE3	6:O:361:ASN:HB2	2.52	0.45
6:O:539:LEU:O	6:O:545:PRO:HA	2.16	0.45
6:O:840:GLU:N	6:O:840:GLU:OE1	2.50	0.45
8:Q:268:ILE:O	8:Q:272:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:538:LEU:O	8:Q:542:THR:OG1	2.28	0.45
8:Q:678:GLU:HB3	8:Q:682:GLN:HE22	1.81	0.45
8:Q:680:LEU:HD11	8:Q:738:HIS:HB2	1.98	0.45
8:Q:700:LYS:HE3	8:Q:701:GLU:HG2	1.98	0.45
9:R:210:SER:CB	9:R:222:ARG:HE	2.30	0.45
9:R:332:TYR:HD2	9:R:346:SER:HG	1.64	0.45
9:R:623:ARG:HA	9:R:626:LEU:HD12	1.97	0.45
10:S:457:ALA:HB1	10:S:517:LEU:HD13	1.99	0.45
10:S:623:PRO:HA	10:S:626:VAL:HB	1.99	0.45
10:S:832:PRO:HA	10:S:836:LYS:HE3	1.99	0.45
10:S:1107:MET:HE1	10:S:1277:LYS:HD2	1.97	0.45
11:T:466:GLN:HG2	11:T:527:PRO:HG3	1.99	0.45
12:U:87:PHE:CE1	12:U:91:GLU:HG3	2.52	0.45
12:U:326:CYS:HB3	12:U:335:ALA:HB2	1.97	0.45
1:A:106:ARG:NH1	1:A:148:GLU:OE1	2.49	0.45
1:A:175:VAL:O	1:A:179:VAL:HG23	2.17	0.45
1:A:224:ALA:HA	1:A:227:MET:HG3	1.99	0.45
1:A:331:ASP:O	1:A:334:LEU:HG	2.17	0.45
2:B:8:LYS:HB2	2:B:367:ILE:CG2	2.45	0.45
2:B:267:HIS:HB3	2:B:270:ASN:O	2.15	0.45
2:B:270:ASN:OD1	2:B:374:PHE:HE2	2.00	0.45
2:B:296:THR:N	2:B:308:SER:HA	2.30	0.45
4:D:1380:LEU:HB3	6:F:246:PHE:CD1	2.51	0.45
5:E:85:ARG:HB2	5:E:92:LEU:H	1.81	0.45
5:E:192:PHE:HD2	5:E:202:LEU:HB3	1.81	0.45
6:F:387:TRP:CG	6:F:644:LEU:CD1	3.00	0.45
6:F:391:LYS:HD2	6:F:394:GLU:OE1	2.17	0.45
6:F:756:HIS:O	6:F:760:THR:HG23	2.16	0.45
6:F:801:VAL:HG12	6:F:805:TYR:HE2	1.81	0.45
7:G:139:PRO:HG2	7:G:141:GLU:OE2	2.16	0.45
8:H:268:ILE:O	8:H:272:GLU:HG3	2.16	0.45
8:H:624:ALA:O	8:H:628:LYS:HG2	2.17	0.45
9:I:658:LEU:HD23	9:I:661:ARG:HH22	1.82	0.45
9:I:873:MET:HG2	9:I:885:LEU:HD11	1.99	0.45
1:J:103:ARG:NH1	1:J:148:GLU:OE2	2.50	0.45
1:J:486:SER:HB3	2:K:25:SER:OG	2.16	0.45
1:J:587:GLN:HA	1:J:643:ARG:NH2	2.31	0.45
2:K:8:LYS:HE2	2:K:48:TRP:HZ3	1.82	0.45
3:L:223:HIS:ND1	3:L:242:THR:O	2.49	0.45
3:L:248:PHE:HA	3:L:269:HIS:O	2.16	0.45
4:M:545:LEU:HB3	4:M:564:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:619:TYR:CD1	4:M:657:ILE:HG21	2.52	0.45
4:M:646:LEU:HD11	4:M:738:LEU:HB2	1.99	0.45
4:M:679:LEU:O	4:M:682:MET:HB3	2.16	0.45
4:M:1195:LEU:HB3	4:M:1202:THR:OG1	2.17	0.45
4:M:1278:THR:HG22	4:M:1280:GLU:HB3	1.99	0.45
4:M:1413:ARG:HB3	4:M:1414:LYS:NZ	2.32	0.45
5:N:290:PRO:HB2	5:N:293:ILE:HD11	1.99	0.45
6:O:775:TYR:HB3	6:O:779:PHE:CZ	2.52	0.45
7:P:192:LYS:HB2	7:P:194:TRP:CZ2	2.52	0.45
7:P:223:ILE:HG13	7:P:272:THR:HA	1.98	0.45
8:Q:266:GLU:OE1	8:Q:347:ALA:HA	2.16	0.45
8:Q:502:HIS:CE1	8:Q:525:TRP:NE1	2.85	0.45
8:Q:757:HIS:CD2	8:Q:797:LEU:HB2	2.52	0.45
9:R:278:THR:OG1	9:R:285:ASN:HB2	2.15	0.45
9:R:491:VAL:HG13	9:R:523:GLY:HA2	1.98	0.45
9:R:496:ARG:HB2	9:R:507:LYS:HB3	1.97	0.45
9:R:978:GLU:OE1	9:R:979:ILE:HG13	2.16	0.45
10:S:294:LEU:O	10:S:298:ALA:HB2	2.17	0.45
10:S:552:TRP:O	10:S:556:PHE:HB2	2.17	0.45
10:S:624:VAL:HG23	10:S:625:VAL:N	2.31	0.45
10:S:626:VAL:O	10:S:630:LEU:HG	2.17	0.45
10:S:691:ILE:HG23	10:S:694:ARG:HH21	1.81	0.45
10:S:775:PRO:HB2	10:S:859:ARG:HH11	1.81	0.45
10:S:1594:ASP:HB2	10:S:1599:PHE:HD2	1.81	0.45
11:T:273:GLN:NE2	11:T:379:SER:HB3	2.32	0.45
12:U:442:GLN:HB3	12:U:446:PHE:CE2	2.51	0.45
12:U:445:LEU:O	12:U:449:TYR:HB3	2.15	0.45
1:A:206:ARG:HA	1:A:206:ARG:NE	2.31	0.45
1:A:264:GLU:CD	1:A:286:LEU:HD22	2.37	0.45
2:B:8:LYS:HG3	2:B:61:GLU:CD	2.38	0.45
2:B:37:SER:OG	2:B:44:LYS:O	2.34	0.45
2:B:298:LEU:HD12	2:B:337:ILE:O	2.17	0.45
2:B:372:ARG:HH22	2:B:374:PHE:HD2	1.63	0.45
3:C:194:MET:HB3	3:C:216:MET:HA	1.98	0.45
4:D:228:LEU:HG	4:D:242:LYS:HG2	1.98	0.45
4:D:476:GLN:HG2	4:D:490:LEU:HA	1.98	0.45
4:D:506:GLU:OE1	5:E:241:SER:OG	2.25	0.45
6:F:297:LEU:HD22	6:F:301:PRO:HG3	1.99	0.45
6:F:334:VAL:HG13	6:F:343:PHE:HE1	1.81	0.45
6:F:343:PHE:O	6:F:680:HIS:HA	2.16	0.45
6:F:358:TRP:CE3	6:F:361:ASN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:435:GLU:CD	6:F:435:GLU:H	2.20	0.45
6:F:871:GLN:HG3	6:F:872:GLN:NE2	2.32	0.45
9:I:84:VAL:HG23	9:I:87:MET:SD	2.57	0.45
9:I:826:LYS:O	9:I:830:LEU:HG	2.17	0.45
9:I:930:PHE:HB2	9:I:965:SER:HA	1.98	0.45
1:J:476:LEU:O	1:J:479:ARG:HD2	2.16	0.45
2:K:107:ASN:OD1	2:K:109:THR:HG22	2.17	0.45
4:M:310:MET:HE3	4:M:319:LEU:HB2	1.98	0.45
4:M:444:PRO:HA	4:M:469:ARG:HB2	1.98	0.45
4:M:685:GLU:HB3	4:M:870:TRP:CD2	2.52	0.45
4:M:895:VAL:HG23	4:M:909:CYS:HB3	1.98	0.45
4:M:1394:ALA:O	4:M:1397:GLU:HG2	2.16	0.45
5:N:67:LYS:NZ	5:N:69:PHE:HB2	2.32	0.45
6:O:811:MET:HE1	6:O:828:LEU:HD13	1.99	0.45
7:P:88:GLU:HA	7:P:93:TRP:HA	1.99	0.45
8:Q:659:ASP:O	8:Q:663:ILE:HG13	2.16	0.45
8:Q:721:GLN:HG3	8:Q:723:MET:H	1.81	0.45
10:S:443:ILE:HB	10:S:513:MET:HE3	1.98	0.45
10:S:1140:LEU:CD1	10:S:1180:ILE:HB	2.45	0.45
10:S:1293:THR:HB	10:S:1343:HIS:CE1	2.51	0.45
10:S:1396:HIS:O	10:S:1399:LEU:HG	2.16	0.45
10:S:1967:ALA:HB2	10:S:2007:ARG:HH12	1.82	0.45
11:T:80:VAL:HG13	11:T:96:VAL:HG13	1.99	0.45
11:T:654:LYS:O	11:T:658:THR:HG23	2.17	0.45
12:U:334:ALA:O	12:U:338:VAL:HG23	2.17	0.45
12:U:790:ALA:HB1	12:U:816:GLU:HG2	1.99	0.45
1:A:279:GLU:HB2	1:A:283:ARG:HH12	1.81	0.45
1:A:302:TRP:HB3	1:A:333:PHE:CG	2.52	0.45
2:B:14:ILE:O	2:B:349:ASN:HB2	2.17	0.45
3:C:114:THR:HG21	3:C:136:ASP:HB3	1.99	0.45
4:D:445:ASP:O	4:D:535:TYR:OH	2.21	0.45
4:D:1058:HIS:CE1	6:F:910:ARG:CZ	3.00	0.45
5:E:217:CYS:HB3	5:E:220:ASN:O	2.17	0.45
6:F:538:HIS:CE1	6:F:556:TYR:CD1	3.03	0.45
6:F:638:TRP:O	6:F:642:GLN:HG2	2.16	0.45
7:G:82:LYS:HZ2	7:G:99:TYR:N	2.14	0.45
7:G:88:GLU:HB2	7:G:93:TRP:CE2	2.51	0.45
7:G:195:ARG:NH1	7:G:197:GLU:HG2	2.32	0.45
8:H:355:ARG:NH2	8:H:358:LYS:HZ2	2.13	0.45
8:H:436:TRP:CD2	8:H:504:HIS:HD2	2.30	0.45
8:H:577:ILE:HD12	8:H:612:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:134:LYS:HZ3	9:I:136:LEU:HG	1.82	0.45
9:I:168:MET:HE1	9:I:178:TYR:HB2	1.97	0.45
9:I:181:ASN:ND2	9:I:183:LEU:O	2.45	0.45
9:I:658:LEU:HD11	9:I:671:ALA:HB1	1.98	0.45
9:I:845:ASN:O	9:I:848:GLU:HG3	2.17	0.45
1:J:69:ARG:HH21	2:K:246:HIS:CE1	2.35	0.45
1:J:438:GLU:CD	1:J:463:GLN:HE22	2.17	0.45
4:M:397:LEU:HD21	4:M:400:PHE:CD1	2.51	0.45
4:M:1025:ASP:OD2	4:M:1028:ARG:HG2	2.17	0.45
4:M:1068:ARG:O	4:M:1072:VAL:HG13	2.17	0.45
4:M:1127:CYS:O	4:M:1131:LEU:HG	2.16	0.45
4:M:1324:LEU:HA	4:M:1327:ARG:HG2	1.99	0.45
4:M:1339:LEU:HA	4:M:1339:LEU:HD13	1.67	0.45
6:O:494:VAL:HG12	6:O:498:ILE:CG1	2.45	0.45
8:Q:479:THR:HG23	8:Q:482:SER:H	1.82	0.45
8:Q:745:LEU:O	8:Q:749:GLU:OE1	2.35	0.45
8:Q:809:TYR:HE1	8:Q:852:LEU:HD21	1.82	0.45
8:Q:852:LEU:CG	8:Q:868:LEU:CD1	2.92	0.45
9:R:76:GLN:HG3	9:R:466:ARG:NH2	2.32	0.45
9:R:290:ASP:HB3	9:R:293:SER:OG	2.17	0.45
9:R:560:ALA:HA	9:R:565:TRP:C	2.38	0.45
9:R:745:PRO:HB2	9:R:815:ARG:CZ	2.47	0.45
10:S:390:HIS:CD2	10:S:391:LYS:HD3	2.44	0.45
10:S:908:GLU:O	10:S:911:PHE:N	2.49	0.45
10:S:979:MET:O	10:S:982:ILE:HB	2.17	0.45
10:S:1091:GLN:NE2	10:S:1092:LEU:HG	2.32	0.45
10:S:1258:ASN:O	10:S:1262:GLN:OE1	2.34	0.45
10:S:1349:ARG:HH12	10:S:1429:GLN:HG2	1.82	0.45
10:S:1536:ARG:O	10:S:1539:LEU:HG	2.17	0.45
10:S:1837:GLY:O	10:S:1840:GLN:HG2	2.16	0.45
10:S:1965:GLU:HA	10:S:1968:ASN:ND2	2.31	0.45
11:T:758:ASP:HA	11:T:761:LEU:HG	1.99	0.45
12:U:181:VAL:HG12	12:U:185:TYR:CE2	2.51	0.45
12:U:218:ASP:OD1	12:U:221:VAL:HB	2.17	0.45
1:A:540:ARG:HH21	1:A:544:ARG:N	2.15	0.45
2:B:31:ASP:O	2:B:49:ALA:HA	2.16	0.45
2:B:137:SER:O	2:B:140:GLU:HG2	2.17	0.45
2:B:347:SER:OG	2:B:363:ASP:OD2	2.35	0.45
3:C:120:LYS:O	3:C:130:LEU:HG	2.17	0.45
4:D:433:GLY:H	11:T:112:GLY:C	2.20	0.45
4:D:829:ARG:HA	4:D:832:PHE:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1140:TRP:HB2	4:D:1176:ILE:HG22	1.97	0.45
5:E:22:VAL:HG23	5:E:36:LEU:HD21	1.98	0.45
6:F:387:TRP:CG	6:F:644:LEU:HD13	2.51	0.45
6:F:577:TYR:CE1	6:F:622:SER:O	2.70	0.45
6:F:759:VAL:HG21	6:F:779:PHE:CE2	2.52	0.45
7:G:157:SER:HB3	7:G:183:VAL:CG2	2.47	0.45
8:H:643:ALA:HB3	8:H:694:LYS:HZ3	1.82	0.45
8:H:770:GLN:HE21	8:H:779:HIS:CG	2.35	0.45
8:H:853:HIS:O	8:H:857:HIS:HB2	2.17	0.45
9:I:620:VAL:HG13	9:I:747:HIS:ND1	2.32	0.45
9:I:827:ARG:NH2	5:N:2:LYS:HD3	2.30	0.45
1:J:106:ARG:CZ	1:J:144:TRP:HD1	2.29	0.45
1:J:328:SER:HB3	1:J:332:MET:HE1	1.98	0.45
1:J:388:HIS:HA	1:J:391:TYR:OH	2.17	0.45
1:J:545:MET:HE1	1:J:557:LEU:HB3	1.99	0.45
1:J:552:SER:HA	1:J:590:PHE:CE1	2.52	0.45
2:K:20:ARG:H	2:K:33:PHE:HA	1.81	0.45
4:M:633:CYS:HB3	5:N:165:ARG:HH12	1.82	0.45
4:M:656:ASN:HB3	4:M:659:GLU:HB2	1.99	0.45
4:M:911:PHE:HE2	4:M:943:LEU:HD13	1.81	0.45
4:M:1113:THR:HB	10:S:478:GLY:C	2.37	0.45
5:N:222:LEU:HD12	5:N:237:MET:O	2.17	0.45
6:O:500:GLU:OE1	6:O:503:LEU:HD13	2.17	0.45
6:O:610:GLU:HG3	6:O:612:GLN:H	1.82	0.45
7:P:269:TRP:HA	7:P:275:ILE:O	2.17	0.45
8:Q:445:LYS:HD2	8:Q:445:LYS:N	2.32	0.45
8:Q:501:GLU:HB2	8:Q:504:HIS:ND1	2.32	0.45
8:Q:863:LYS:O	8:Q:867:ARG:CG	2.61	0.45
9:R:512:ALA:HA	9:R:527:MET:HE1	1.99	0.45
9:R:643:HIS:NE2	9:R:654:ILE:HG13	2.32	0.45
9:R:972:LEU:HD23	9:R:975:LYS:HZ1	1.82	0.45
10:S:273:MET:SD	10:S:385:PHE:HA	2.57	0.45
10:S:379:PHE:O	10:S:385:PHE:HD2	1.99	0.45
10:S:540:GLU:OE2	10:S:541:ASN:ND2	2.50	0.45
10:S:740:VAL:O	10:S:743:ARG:N	2.50	0.45
10:S:1178:ARG:HG3	10:S:1180:ILE:HG22	1.98	0.45
10:S:1753:GLN:HE22	10:S:1888:LEU:C	2.16	0.45
10:S:1796:GLN:O	10:S:1798:SER:N	2.39	0.45
11:T:700:TYR:OH	11:T:818:HIS:HA	2.16	0.45
11:T:920:ILE:O	11:T:924:LEU:HG	2.17	0.45
12:U:476:ALA:O	12:U:479:PHE:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:528:ASN:HB3	12:U:531:ARG:HB3	1.98	0.45
12:U:642:LEU:O	12:U:646:LEU:HG	2.16	0.45
2:B:195:TRP:HB3	2:B:200:GLN:NE2	2.30	0.45
3:C:138:VAL:HG12	3:C:140:ARG:HH11	1.82	0.45
4:D:629:GLU:HG2	4:D:772:TYR:CE2	2.52	0.45
6:F:765:ALA:HA	6:F:768:VAL:HG12	1.99	0.45
9:I:107:GLY:HA2	9:I:447:CYS:SG	2.57	0.45
9:I:464:VAL:HB	9:I:465:ALA:H	1.61	0.45
1:J:63:ILE:HD12	1:J:72:PHE:HD2	1.81	0.45
1:J:107:SER:O	1:J:110:ARG:NH1	2.50	0.45
1:J:355:ILE:HD12	1:J:385:PHE:CD1	2.52	0.45
2:K:194:LEU:O	2:K:205:THR:HB	2.16	0.45
2:K:334:GLN:OE1	2:K:334:GLN:N	2.46	0.45
3:L:229:PRO:HG2	3:L:289:THR:C	2.37	0.45
4:M:228:LEU:HD22	4:M:242:LYS:HG2	1.99	0.45
4:M:649:LEU:O	4:M:653:ASP:HB2	2.17	0.45
4:M:840:PHE:CE1	4:M:850:ARG:HD3	2.52	0.45
5:N:150:ARG:HD3	5:N:152:TRP:HZ2	1.82	0.45
6:O:435:GLU:H	6:O:435:GLU:CD	2.20	0.45
6:O:494:VAL:HA	6:O:497:TYR:CD2	2.52	0.45
6:O:809:ILE:HD12	6:O:812:LEU:HD23	1.99	0.45
7:P:288:TRP:CE2	7:P:298:CYS:HB2	2.53	0.45
9:R:618:MET:CE	9:R:748:VAL:H	2.30	0.45
9:R:1029:GLU:HG2	9:R:1088:VAL:HG22	1.99	0.45
10:S:410:ARG:HA	10:S:413:GLU:HG3	1.98	0.45
10:S:805:HIS:CE1	10:S:810:SER:HA	2.52	0.45
10:S:1538:LEU:O	10:S:1543:PRO:HB3	2.17	0.45
11:T:308:ASP:OD1	11:T:309:ARG:N	2.50	0.45
12:U:145:LEU:O	12:U:148:LEU:HG	2.17	0.45
12:U:516:GLN:OE1	12:U:525:ARG:HD2	2.17	0.45
1:A:525:SER:O	1:A:528:LEU:HG	2.17	0.44
4:D:494:TRP:HZ2	4:D:781:LEU:HD13	1.82	0.44
4:D:1055:VAL:O	4:D:1057:LEU:HG	2.18	0.44
4:D:1302:ASN:HB2	4:D:1304:LEU:CD1	2.47	0.44
4:D:1329:LYS:HE2	4:D:1329:LYS:HB3	1.88	0.44
5:E:17:ASP:HA	5:E:317:ARG:CZ	2.47	0.44
6:F:251:PHE:CD1	7:G:304:LYS:HG2	2.52	0.44
6:F:571:CYS:HB3	6:F:583:PHE:CZ	2.53	0.44
6:F:650:SER:O	6:F:654:GLN:HG3	2.16	0.44
6:F:916:TYR:CE2	11:T:993:ILE:HG12	2.52	0.44
8:H:276:PHE:HD2	8:H:344:LEU:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:355:ARG:HH22	8:H:359:ARG:HH21	1.63	0.44
8:H:660:ARG:NH2	8:H:664:ASP:OD2	2.50	0.44
8:H:710:SER:O	8:H:714:ILE:HG13	2.18	0.44
9:I:466:ARG:C	9:I:466:ARG:CD	2.86	0.44
9:I:627:SER:HB2	9:I:736:TYR:CG	2.52	0.44
9:I:823:TYR:HA	9:I:826:LYS:HG2	1.98	0.44
9:I:1110:LEU:HD12	9:I:1119:LYS:HZ3	1.83	0.44
1:J:487:TRP:CG	1:J:490:ARG:NH2	2.86	0.44
2:K:18:ARG:NE	2:K:82:GLN:OE1	2.50	0.44
4:M:1097:GLY:O	4:M:1127:CYS:HB3	2.17	0.44
4:M:1180:ARG:HA	4:M:1183:GLU:OE1	2.17	0.44
4:M:1194:THR:HA	4:M:1197:LYS:CE	2.47	0.44
4:M:1247:CYS:CB	4:M:1251:ARG:HH21	2.30	0.44
5:N:146:ASP:O	5:N:148:THR:HG23	2.17	0.44
7:P:189:ASN:OD1	7:P:213:TRP:HD1	2.00	0.44
8:Q:880:TYR:O	8:Q:880:TYR:CG	2.70	0.44
9:R:818:ILE:HD13	9:R:821:MET:CE	2.46	0.44
10:S:328:THR:HA	10:S:365:VAL:HG21	1.99	0.44
10:S:379:PHE:CE1	10:S:385:PHE:HB3	2.52	0.44
10:S:1229:LEU:HA	10:S:1232:ARG:NE	2.31	0.44
10:S:1753:GLN:NE2	10:S:1891:LEU:HB2	2.32	0.44
10:S:1757:SER:OG	10:S:1895:ILE:HD11	2.17	0.44
11:T:508:LEU:HG	11:T:512:ILE:HD11	1.99	0.44
1:A:48:ALA:HA	3:C:9:ALA:O	2.17	0.44
1:A:517:LEU:CD1	1:A:540:ARG:HD3	2.47	0.44
6:F:382:LEU:HD12	6:F:601:CYS:HG	1.76	0.44
6:F:494:VAL:HA	6:F:497:TYR:CD2	2.52	0.44
6:F:723:GLN:HG3	6:F:724:TRP:N	2.33	0.44
6:F:841:LEU:HD22	8:Q:472:GLU:HG2	1.98	0.44
7:G:124:SER:C	7:G:126:ASP:H	2.21	0.44
7:G:211:SER:H	7:G:238:ARG:NH2	2.13	0.44
9:I:649:LEU:O	9:I:692:LYS:NZ	2.45	0.44
9:I:683:GLU:HA	9:I:686:PHE:CE2	2.52	0.44
9:I:693:GLU:OE2	9:I:714:VAL:HG21	2.18	0.44
9:I:855:ILE:O	9:I:859:ILE:HG12	2.17	0.44
1:J:639:ARG:NH2	4:M:1088:ILE:O	2.50	0.44
4:M:777:GLY:HA2	4:M:819:ILE:HD11	1.99	0.44
4:M:1325:ILE:O	4:M:1329:LYS:HG2	2.17	0.44
4:M:1347:GLU:O	4:M:1350:ALA:HB3	2.17	0.44
5:N:103:LYS:NZ	5:N:121:GLU:HA	2.33	0.44
6:O:391:LYS:HD2	6:O:394:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:560:PHE:HB3	6:O:570:ALA:C	2.38	0.44
6:O:685:HIS:ND1	6:O:686:VAL:N	2.59	0.44
7:P:39:ILE:H	7:P:49:LEU:HD11	1.81	0.44
7:P:65:TRP:HA	7:P:73:ILE:O	2.17	0.44
7:P:74:LEU:HG	7:P:93:TRP:CH2	2.51	0.44
8:Q:126:ILE:HD12	12:U:160:GLN:HG2	2.00	0.44
8:Q:165:LEU:HD23	8:Q:547:PHE:CE1	2.53	0.44
8:Q:355:ARG:HH22	8:Q:359:ARG:HH21	1.63	0.44
8:Q:627:THR:O	8:Q:631:VAL:HG23	2.16	0.44
8:Q:812:LEU:HD23	8:Q:812:LEU:HA	1.81	0.44
10:S:386:ILE:H	10:S:386:ILE:HD12	1.82	0.44
10:S:502:LEU:HB3	10:S:547:GLY:O	2.17	0.44
10:S:813:LEU:O	10:S:817:LEU:HG	2.16	0.44
11:T:252:LEU:O	11:T:253:ARG:NH1	2.47	0.44
12:U:209:CYS:HA	12:U:212:ALA:HB3	1.97	0.44
12:U:411:THR:O	12:U:414:TYR:HB3	2.17	0.44
12:U:811:ARG:HE	12:U:814:GLN:HE21	1.64	0.44
1:A:36:GLU:O	3:C:15:ILE:HD11	2.16	0.44
1:A:68:LEU:O	1:A:72:PHE:HD2	2.00	0.44
1:A:97:GLN:HG3	1:A:100:GLN:HE22	1.82	0.44
1:A:106:ARG:CZ	1:A:144:TRP:CD1	3.01	0.44
1:A:227:MET:HB3	1:A:278:MET:SD	2.57	0.44
1:A:356:HIS:O	1:A:360:LYS:HG3	2.16	0.44
1:A:434:LYS:HD3	1:A:467:ILE:HD11	1.98	0.44
2:B:186:VAL:HG11	2:B:232:THR:OG1	2.17	0.44
3:C:22:PHE:HB3	3:C:67:HIS:CE1	2.52	0.44
3:C:296:SER:HA	3:C:301:THR:O	2.17	0.44
4:D:1353:VAL:HA	4:D:1356:TYR:CD2	2.52	0.44
5:E:236:GLU:HB3	5:E:239:ARG:NH2	2.33	0.44
6:F:295:LYS:HD2	7:G:11:SER:N	2.32	0.44
6:F:531:TRP:CE2	6:F:599:ASP:OD2	2.71	0.44
6:F:574:LEU:HB3	6:F:578:LEU:HD23	2.00	0.44
7:G:18:ASP:HB2	7:G:31:CYS:SG	2.57	0.44
7:G:100:THR:HG22	7:G:101:GLY:N	2.32	0.44
8:H:628:LYS:HZ2	8:H:678:GLU:HB3	1.82	0.44
8:H:637:LYS:HZ3	8:H:658:GLU:HG3	1.83	0.44
1:J:567:ALA:HB1	1:J:571:PHE:HB2	1.99	0.44
1:J:580:LEU:O	1:J:583:LEU:HB2	2.17	0.44
3:L:25:ARG:HB3	3:L:26:ARG:NH2	2.25	0.44
4:M:79:TYR:HE2	4:M:158:ASN:ND2	2.15	0.44
4:M:682:MET:SD	4:M:725:ARG:NH2	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:681:ILE:O	6:O:687:ARG:HD3	2.18	0.44
6:O:751:GLN:HE21	6:O:754:GLN:CD	2.20	0.44
6:O:815:ILE:HD12	6:O:828:LEU:HD22	1.98	0.44
7:P:181:ARG:HH11	7:P:181:ARG:HG3	1.83	0.44
7:P:198:ASP:HB2	7:P:202:LYS:HE3	1.99	0.44
7:P:242:TRP:CZ3	7:P:254:PRO:HD3	2.52	0.44
8:Q:610:GLN:NE2	8:Q:611:ARG:HG2	2.33	0.44
9:R:126:SER:H	9:R:129:LYS:NZ	2.15	0.44
9:R:343:VAL:HA	9:R:364:THR:HA	1.99	0.44
9:R:580:SER:O	9:R:640:LYS:HD2	2.16	0.44
9:R:685:ILE:HA	9:R:688:CYS:HB2	1.99	0.44
10:S:136:TRP:CH2	10:S:221:ILE:HG12	2.52	0.44
10:S:435:ASP:HA	10:S:438:HIS:ND1	2.32	0.44
10:S:1666:LEU:HD21	10:S:1747:ASP:OD2	2.16	0.44
12:U:31:ARG:HH22	12:U:35:GLU:HG3	1.82	0.44
12:U:640:LEU:O	12:U:643:THR:HG22	2.17	0.44
12:U:660:ASN:HA	12:U:663:ARG:HG2	1.99	0.44
1:A:207:MET:HB2	1:A:235:LEU:HB3	1.99	0.44
2:B:6:ALA:HA	2:B:62:TYR:CZ	2.52	0.44
2:B:181:THR:C	2:B:197:LEU:HD13	2.37	0.44
3:C:129:MET:CE	3:C:143:GLU:HG2	2.48	0.44
4:D:259:GLN:N	4:D:265:ARG:HH21	2.15	0.44
4:D:1180:ARG:CZ	4:D:1183:GLU:HG3	2.47	0.44
8:H:232:PHE:CG	8:H:232:PHE:O	2.70	0.44
9:I:524:ALA:HB1	9:I:600:PHE:HE1	1.82	0.44
1:J:478:ASN:HB2	1:J:480:ARG:HG2	1.99	0.44
1:J:545:MET:CE	1:J:554:ALA:HA	2.47	0.44
1:J:627:ASN:O	1:J:631:GLU:OE1	2.35	0.44
1:J:653:GLU:HG3	4:M:1044:SER:HB2	1.98	0.44
3:L:222:VAL:HA	3:L:242:THR:CG2	2.45	0.44
4:M:163:ARG:NH2	4:M:200:ASN:OD1	2.50	0.44
4:M:220:TRP:CE2	4:M:228:LEU:HB2	2.53	0.44
4:M:229:PHE:O	4:M:240:VAL:HA	2.18	0.44
4:M:529:GLU:OE2	9:R:76:GLN:NE2	2.50	0.44
4:M:911:PHE:CZ	4:M:933:ALA:HB1	2.53	0.44
4:M:944:GLU:HA	4:M:947:ILE:HG12	1.99	0.44
4:M:1228:ILE:HG23	4:M:1298:TYR:OH	2.17	0.44
5:N:147:HIS:ND1	5:N:164:LEU:O	2.51	0.44
6:O:259:TRP:CZ2	7:P:274:ASN:N	2.85	0.44
7:P:286:THR:HG1	7:P:288:TRP:HE1	1.65	0.44
8:Q:493:LYS:HA	8:Q:496:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:558:GLU:HA	8:Q:561:VAL:HG22	2.00	0.44
8:Q:621:LEU:HD12	8:Q:621:LEU:HA	1.79	0.44
8:Q:718:TRP:NE1	8:Q:724:ASP:HA	2.32	0.44
9:R:504:ASP:OD1	9:R:508:HIS:NE2	2.50	0.44
9:R:860:CYS:O	9:R:864:ASP:HA	2.17	0.44
9:R:1051:GLU:OE2	9:R:1104:PRO:HD3	2.18	0.44
10:S:998:ASN:O	10:S:1001:MET:HE2	2.17	0.44
10:S:1131:SER:HB3	10:S:1135:ARG:NH1	2.26	0.44
10:S:1190:SER:HB3	10:S:1192:GLU:HG2	2.00	0.44
10:S:1387:PHE:CE2	10:S:1457:VAL:HG11	2.53	0.44
10:S:1653:ASP:N	10:S:1653:ASP:OD1	2.51	0.44
10:S:1828:TYR:HA	10:S:1831:ILE:CG2	2.48	0.44
11:T:945:VAL:O	11:T:948:GLN:HB2	2.17	0.44
11:T:949:GLU:OE2	11:T:990:ARG:NH1	2.51	0.44
1:A:69:ARG:HH22	2:B:244:VAL:HA	1.82	0.44
3:C:21:ASP:HA	3:C:65:TRP:CE3	2.53	0.44
3:C:122:ALA:HB1	3:C:126:MET:SD	2.58	0.44
3:C:187:ASP:O	3:C:221:PRO:HB3	2.17	0.44
3:C:277:HIS:HA	3:C:303:ARG:NH2	2.30	0.44
3:C:308:ASN:ND2	3:C:310:MET:H	2.16	0.44
4:D:651:ALA:HA	11:T:557:GLY:HA2	2.00	0.44
5:E:91:PRO:HD2	5:E:110:ASP:O	2.17	0.44
6:F:324:PRO:O	6:F:328:GLU:HG2	2.16	0.44
8:H:177:ILE:HG23	8:H:181:LYS:NZ	2.32	0.44
9:I:1077:ILE:HD13	9:I:1131:ASN:OD1	2.16	0.44
4:M:1073:ASP:HB2	4:M:1151:GLU:HB3	1.99	0.44
4:M:1285:ASP:HA	4:M:1288:TRP:CD1	2.53	0.44
5:N:38:TYR:CZ	5:N:45:VAL:HB	2.51	0.44
5:N:123:HIS:HD2	5:N:150:ARG:HD2	1.82	0.44
6:O:343:PHE:CG	6:O:679:LEU:HB2	2.52	0.44
7:P:67:HIS:CG	7:P:68:PRO:HD2	2.52	0.44
8:Q:416:ARG:NH2	8:Q:432:VAL:HB	2.24	0.44
8:Q:451:LEU:O	8:Q:455:GLU:OE1	2.35	0.44
8:Q:576:GLN:HG3	8:Q:579:LEU:HG	1.99	0.44
8:Q:603:ILE:HG23	8:Q:608:GLN:HG2	1.99	0.44
8:Q:749:GLU:HA	8:Q:752:ASN:ND2	2.33	0.44
9:R:61:VAL:HB	9:R:76:GLN:NE2	2.31	0.44
9:R:246:ILE:H	9:R:259:PRO:HG2	1.80	0.44
9:R:572:GLU:H	9:R:668:ASN:HB3	1.82	0.44
9:R:1014:GLN:NE2	9:R:1018:LEU:HD21	2.33	0.44
10:S:862:ASP:HA	10:S:865:ARG:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:583:GLU:C	11:T:587:LYS:HZ2	2.20	0.44
12:U:21:GLU:O	12:U:28:HIS:NE2	2.51	0.44
12:U:34:GLN:O	12:U:37:GLN:HB2	2.18	0.44
12:U:359:ASN:O	12:U:362:ARG:NH1	2.49	0.44
1:A:237:LYS:HB3	1:A:259:TRP:CD1	2.53	0.44
1:A:348:LEU:O	1:A:351:PHE:N	2.51	0.44
1:A:400:LEU:O	1:A:404:TYR:HB2	2.18	0.44
2:B:17:THR:N	2:B:350:SER:OG	2.50	0.44
2:B:35:THR:O	2:B:45:VAL:HA	2.17	0.44
3:C:67:HIS:O	3:C:70:PHE:HB2	2.16	0.44
3:C:120:LYS:HD2	3:C:121:PHE:O	2.17	0.44
3:C:236:HIS:ND1	3:C:237:ILE:N	2.66	0.44
3:C:253:LEU:HD12	3:C:254:ARG:N	2.32	0.44
4:D:432:ALA:N	11:T:110:ASP:O	2.51	0.44
4:D:1312:LYS:O	4:D:1316:HIS:ND1	2.51	0.44
5:E:207:VAL:HG22	5:E:243:PRO:HG2	1.99	0.44
6:F:255:TRP:CD2	7:G:270:SER:HB2	2.52	0.44
6:F:295:LYS:HZ1	6:F:302:PHE:HB2	1.83	0.44
6:F:600:VAL:HG23	6:F:623:SER:HG	1.72	0.44
6:F:651:GLY:HA2	6:F:654:GLN:OE1	2.18	0.44
6:F:834:SER:O	6:F:837:LYS:N	2.44	0.44
7:G:65:TRP:HA	7:G:73:ILE:O	2.17	0.44
8:H:718:TRP:CD2	8:H:727:LEU:HG	2.52	0.44
8:H:755:PHE:HA	8:H:758:ILE:HG12	1.98	0.44
9:I:767:HIS:CD2	9:I:789:LEU:HD21	2.52	0.44
9:I:1076:PRO:HB2	9:I:1131:ASN:OD1	2.17	0.44
1:J:196:ASP:OD1	1:J:298:LEU:HD11	2.17	0.44
2:K:240:CYS:HA	2:K:252:SER:O	2.17	0.44
3:L:228:ALA:N	3:L:236:HIS:CE1	2.86	0.44
4:M:242:LYS:HB2	4:M:253:THR:OG1	2.18	0.44
4:M:1143:GLN:HG3	4:M:1175:GLU:H	1.82	0.44
5:N:22:VAL:HG23	5:N:38:TYR:HB3	1.98	0.44
6:O:571:CYS:HB3	6:O:583:PHE:CZ	2.52	0.44
6:O:800:LYS:HA	6:O:803:LEU:HB3	1.98	0.44
8:Q:151:LEU:HD23	8:Q:154:PHE:CD2	2.53	0.44
8:Q:364:TRP:CH2	8:Q:365:ARG:HD2	2.52	0.44
8:Q:606:PRO:O	8:Q:610:GLN:HG3	2.17	0.44
9:R:642:HIS:HA	9:R:645:LYS:HE2	1.99	0.44
9:R:1044:ASP:N	9:R:1047:GLU:OE1	2.51	0.44
10:S:937:ASP:HB3	10:S:940:VAL:HG23	1.98	0.44
10:S:942:GLN:O	10:S:945:MET:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1341:THR:HG21	10:S:1423:SER:CA	2.46	0.44
10:S:1578:ILE:HB	10:S:1643:GLN:HB3	2.00	0.44
10:S:1758:ASN:C	10:S:1758:ASN:HD22	2.21	0.44
11:T:159:VAL:HG11	11:T:223:VAL:HG11	2.00	0.44
12:U:210:THR:HG22	12:U:214:GLU:OE2	2.18	0.44
1:A:72:PHE:O	1:A:75:SER:OG	2.29	0.44
1:A:95:LYS:HE2	1:A:153:GLU:HA	1.99	0.44
1:A:121:GLU:C	1:A:124:ARG:HH22	2.21	0.44
3:C:65:TRP:HA	3:C:74:LEU:HG	1.99	0.44
4:D:344:LEU:HD23	4:D:359:VAL:HG13	1.98	0.44
4:D:996:GLN:O	4:D:999:LEU:HG	2.17	0.44
6:F:576:PRO:CD	6:F:624:ALA:CB	2.94	0.44
7:G:69:MET:H	7:G:69:MET:HE3	1.82	0.44
8:H:730:GLU:HG2	8:H:731:ASP:N	2.33	0.44
9:I:652:SER:HB2	9:I:692:LYS:NZ	2.33	0.44
9:I:690:VAL:O	9:I:694:GLU:OE1	2.36	0.44
1:J:641:LEU:O	1:J:645:ILE:HG12	2.18	0.44
2:K:286:TRP:HE1	2:K:337:ILE:HG23	1.82	0.44
2:K:358:LEU:HB3	2:K:370:THR:OG1	2.18	0.44
3:L:303:ARG:HD2	3:L:318:VAL:HG22	2.00	0.44
4:M:850:ARG:HH21	4:M:853:ASN:HB2	1.82	0.44
4:M:1112:ARG:HH22	4:M:1204:ALA:HA	1.82	0.44
4:M:1402:GLN:HG3	4:M:1405:GLN:NE2	2.33	0.44
8:Q:532:LEU:HD23	8:Q:532:LEU:H	1.82	0.44
8:Q:581:ALA:HB3	8:Q:619:ALA:HB3	1.99	0.44
8:Q:589:GLN:O	8:Q:593:ILE:HG12	2.18	0.44
9:R:302:MET:CE	9:R:306:LEU:HD12	2.47	0.44
9:R:689:LEU:HD12	9:R:714:VAL:HG13	1.99	0.44
10:S:628:LEU:O	10:S:632:GLN:HG2	2.18	0.44
10:S:808:ASN:ND2	10:S:872:ILE:O	2.42	0.44
10:S:1320:ILE:HD11	10:S:1329:LEU:CD1	2.44	0.44
10:S:1400:ARG:CZ	10:S:1468:ILE:HG13	2.47	0.44
10:S:1668:SER:HA	10:S:1671:GLU:OE1	2.17	0.44
11:T:512:ILE:HG13	11:T:543:LEU:HD11	1.99	0.44
12:U:310:GLN:HB2	12:U:385:ASP:HB2	2.00	0.44
12:U:584:LEU:O	12:U:599:ILE:HG12	2.18	0.44
1:A:52:PRO:O	3:C:47:TRP:NE1	2.51	0.44
1:A:480:ARG:HH11	2:B:86:LYS:CE	2.30	0.44
2:B:66:PRO:C	2:B:67:LYS:HD3	2.38	0.44
4:D:402:PHE:HA	4:D:408:ASN:O	2.18	0.44
4:D:749:GLY:HA3	11:T:364:ARG:NE	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:813:THR:HG21	4:D:821:GLU:OE1	2.18	0.44
4:D:910:HIS:CB	4:D:933:ALA:HB2	2.46	0.44
5:E:14:ASP:HA	5:E:318:LYS:HD3	1.99	0.44
6:F:575:PRO:CG	6:F:597:GLN:OE1	2.56	0.44
6:F:805:TYR:O	6:F:809:ILE:HG13	2.18	0.44
6:F:924:SER:HA	11:T:982:ARG:HH21	1.82	0.44
8:H:548:PHE:O	8:H:553:LEU:N	2.48	0.44
9:I:143:SER:HB2	9:I:145:TRP:CZ2	2.53	0.44
1:J:94:ARG:O	1:J:98:LEU:HG	2.18	0.44
1:J:480:ARG:HH21	3:L:98:ARG:HH22	1.66	0.44
1:J:587:GLN:OE1	1:J:643:ARG:NH2	2.49	0.44
2:K:183:ILE:HG23	2:K:197:LEU:HD11	1.99	0.44
3:L:106:ARG:CZ	3:L:150:LEU:HB2	2.48	0.44
4:M:810:ARG:NH2	4:M:825:GLU:OE1	2.51	0.44
4:M:937:VAL:HG11	4:M:961:TYR:OH	2.18	0.44
4:M:1070:ARG:HD3	4:M:1148:ALA:O	2.18	0.44
4:M:1351:GLU:O	4:M:1355:GLU:OE1	2.36	0.44
6:O:353:HIS:NE2	6:O:389:GLN:O	2.51	0.44
6:O:528:GLN:NE2	6:O:533:ARG:HH12	2.16	0.44
6:O:843:GLN:CB	6:O:853:GLN:HB2	2.47	0.44
8:Q:340:TYR:O	8:Q:343:THR:OG1	2.35	0.44
8:Q:628:LYS:O	8:Q:632:GLU:OE1	2.36	0.44
8:Q:629:THR:HA	8:Q:632:GLU:OE2	2.17	0.44
8:Q:745:LEU:O	8:Q:748:HIS:HB3	2.17	0.44
9:R:222:ARG:NE	9:R:234:ARG:HH21	2.16	0.44
9:R:916:HIS:NE2	9:R:918:HIS:HB3	2.32	0.44
10:S:457:ALA:HA	10:S:460:TYR:CD2	2.51	0.44
10:S:704:PHE:O	10:S:707:LEU:HB3	2.18	0.44
10:S:767:TYR:HE1	10:S:852:LEU:HD13	1.83	0.44
10:S:837:LYS:HA	10:S:840:GLU:OE1	2.18	0.44
10:S:952:LEU:O	10:S:955:GLU:HG2	2.18	0.44
10:S:1281:LEU:HG	10:S:1285:ARG:HH12	1.82	0.44
10:S:1334:ALA:HB1	10:S:1419:HIS:HB2	2.00	0.44
10:S:1730:LEU:HD22	10:S:1748:MET:HG2	2.00	0.44
11:T:204:ALA:O	11:T:209:ARG:N	2.51	0.44
11:T:692:TYR:HD1	11:T:781:ILE:HA	1.81	0.44
12:U:363:ARG:HH21	12:U:397:ARG:HG3	1.83	0.44
12:U:502:LEU:O	12:U:503:LEU:HB2	2.18	0.44
1:A:426:PRO:HB2	1:A:430:ARG:HH11	1.83	0.44
1:A:500:ILE:HG22	1:A:504:PHE:CE1	2.52	0.44
2:B:244:VAL:HG13	2:B:247:GLY:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:606:ILE:HD12	4:D:678:LEU:CD2	2.48	0.44
4:D:819:ILE:HG21	4:D:890:GLN:HG2	1.99	0.44
4:D:973:GLY:N	5:E:275:LYS:HZ1	2.16	0.44
5:E:11:TYR:HB2	5:E:321:PHE:CD2	2.53	0.44
6:F:428:GLU:OE2	6:F:528:GLN:NE2	2.51	0.44
6:F:438:ILE:HG12	6:F:502:ARG:CD	2.48	0.44
6:F:725:ILE:O	6:F:729:LYS:HG2	2.18	0.44
8:H:621:LEU:HB3	8:H:626:ILE:HD11	2.00	0.44
8:H:662:LYS:O	8:H:665:VAL:HG12	2.17	0.44
8:H:813:LEU:HD21	8:H:871:ILE:HG23	1.99	0.44
9:I:774:TYR:CE1	9:I:782:ARG:HB3	2.53	0.44
2:K:264:VAL:HG22	2:K:276:THR:HG23	1.98	0.44
3:L:283:ARG:NH1	3:L:294:ALA:O	2.51	0.44
4:M:1026:THR:HA	4:M:1029:GLN:HB2	1.99	0.44
6:O:482:ILE:CG2	6:O:510:SER:HB3	2.48	0.44
6:O:776:LEU:O	6:O:780:LEU:HD23	2.18	0.44
7:P:131:ILE:HG22	7:P:143:LYS:HB2	1.99	0.44
8:Q:276:PHE:HD2	8:Q:344:LEU:HD21	1.82	0.44
8:Q:318:ALA:HA	8:Q:321:ARG:CZ	2.47	0.44
8:Q:494:ARG:O	8:Q:497:GLU:HG2	2.18	0.44
9:R:302:MET:HE1	9:R:332:TYR:CG	2.53	0.44
9:R:576:PHE:HB2	9:R:669:LEU:HG	1.99	0.44
9:R:780:GLY:O	9:R:784:ILE:HG13	2.18	0.44
9:R:803:GLN:HB3	9:R:819:LEU:HD21	1.99	0.44
9:R:1060:LYS:HA	9:R:1063:LYS:HD3	1.99	0.44
10:S:306:TYR:O	10:S:310:ILE:HD12	2.18	0.44
10:S:499:SER:HA	10:S:510:TYR:OH	2.17	0.44
10:S:928:GLU:H	10:S:928:GLU:CD	2.22	0.44
10:S:1913:HIS:N	10:S:2010:ARG:HH12	2.16	0.44
10:S:1995:ILE:HG13	10:S:1996:GLN:H	1.82	0.44
12:U:615:SER:O	12:U:618:GLU:HG3	2.18	0.44
1:A:50:ARG:HA	3:C:9:ALA:HA	2.00	0.43
1:A:305:PHE:HE2	1:A:332:MET:HB2	1.83	0.43
2:B:6:ALA:HA	2:B:62:TYR:CE2	2.53	0.43
4:D:228:LEU:HD21	4:D:242:LYS:HE2	2.00	0.43
4:D:888:TYR:C	4:D:892:GLN:HE22	2.22	0.43
4:D:1239:THR:HG22	4:D:1308:CYS:SG	2.57	0.43
4:D:1332:ASP:OD1	4:D:1332:ASP:N	2.51	0.43
6:F:384:GLU:OE1	6:F:388:GLY:HA3	2.18	0.43
7:G:62:GLN:CD	7:G:109:VAL:HG22	2.38	0.43
7:G:156:VAL:HA	7:G:184:SER:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:206:GLN:CB	8:H:503:TYR:HD2	2.30	0.43
8:H:299:ARG:HH12	8:H:310:LEU:HB2	1.83	0.43
8:H:851:LEU:O	8:H:855:VAL:HG23	2.18	0.43
9:I:197:SER:OG	9:I:246:ILE:HG12	2.18	0.43
9:I:951:LYS:HE3	9:I:955:LEU:HD11	2.00	0.43
9:I:1069:ALA:HA	9:I:1121:ASN:CG	2.37	0.43
9:I:1100:LYS:CB	9:I:1136:MET:HG2	2.48	0.43
1:J:116:MET:HA	1:J:119:LEU:HD12	1.99	0.43
1:J:390:LEU:HD12	1:J:393:GLY:O	2.18	0.43
1:J:489:ILE:CG2	2:K:27:LEU:H	2.31	0.43
3:L:224:ASP:OD2	3:L:284:VAL:N	2.38	0.43
4:M:79:TYR:HE2	4:M:158:ASN:HD22	1.65	0.43
4:M:376:CYS:HB2	4:M:382:TYR:CE2	2.53	0.43
4:M:921:GLY:HA3	5:N:253:ARG:HD2	2.00	0.43
4:M:1225:ASP:O	4:M:1228:ILE:HB	2.17	0.43
6:O:243:MET:HA	6:O:247:MET:HE2	2.00	0.43
6:O:249:ARG:HA	7:P:265:TRP:CH2	2.53	0.43
6:O:384:GLU:OE1	6:O:388:GLY:HA3	2.18	0.43
6:O:829:HIS:HA	6:O:832:VAL:HG12	2.00	0.43
8:Q:868:LEU:CA	8:Q:871:ILE:HG22	2.48	0.43
8:Q:874:SER:C	8:Q:879:LEU:O	2.56	0.43
9:R:201:ALA:N	9:R:214:SER:O	2.42	0.43
9:R:1019:TYR:CZ	9:R:1034:LYS:HE2	2.53	0.43
10:S:756:TRP:HB3	10:S:838:HIS:HB2	2.00	0.43
12:U:208:LEU:HA	12:U:211:GLU:OE2	2.18	0.43
12:U:333:MET:SD	12:U:334:ALA:N	2.91	0.43
12:U:477:ILE:HD13	12:U:480:LEU:HD12	2.00	0.43
12:U:750:LEU:HD13	12:U:812:LEU:HD21	1.99	0.43
1:A:16:LEU:HG	3:C:4:ALA:CB	2.49	0.43
2:B:45:VAL:HG11	2:B:101:PHE:CE2	2.46	0.43
2:B:193:LYS:HA	2:B:206:GLN:O	2.17	0.43
3:C:250:MET:HA	3:C:267:GLU:O	2.18	0.43
3:C:254:ARG:HB3	3:C:265:LYS:CB	2.46	0.43
4:D:794:LEU:HB2	4:D:884:ARG:HH11	1.81	0.43
4:D:976:GLU:HG2	4:D:977:LEU:HD22	2.00	0.43
4:D:1177:LEU:HB3	4:D:1182:LEU:HD21	2.00	0.43
4:D:1364:GLY:HA2	4:D:1367:TYR:CE2	2.54	0.43
5:E:309:PRO:O	5:E:324:THR:HG22	2.18	0.43
6:F:528:GLN:NE2	6:F:533:ARG:HH12	2.16	0.43
6:F:711:GLU:O	6:F:715:ILE:HG12	2.18	0.43
6:F:837:LYS:O	6:F:840:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:148:GLU:O	1:J:152:ILE:N	2.51	0.43
1:J:406:SER:HA	1:J:409:PHE:CD2	2.53	0.43
2:K:183:ILE:HG12	2:K:197:LEU:HD21	2.01	0.43
2:K:224:PRO:HG2	2:K:271:PRO:HB3	1.99	0.43
4:M:135:CYS:HB3	4:M:157:THR:HB	2.00	0.43
4:M:290:VAL:H	4:M:346:LEU:HD13	1.82	0.43
4:M:372:PHE:HB2	4:M:384:LEU:HD22	2.00	0.43
6:O:615:LEU:HD23	6:O:615:LEU:H	1.83	0.43
6:O:787:GLU:HA	6:O:790:LYS:HZ3	1.83	0.43
7:P:17:HIS:NE2	7:P:33:SER:HB2	2.33	0.43
7:P:61:TRP:NE1	7:P:105:SER:OG	2.50	0.43
7:P:87:LYS:O	7:P:93:TRP:HA	2.19	0.43
8:Q:299:ARG:HH12	8:Q:310:LEU:HB2	1.83	0.43
9:R:627:SER:HB2	9:R:736:TYR:CE2	2.53	0.43
10:S:400:MET:O	10:S:404:VAL:HG23	2.19	0.43
10:S:774:GLU:OE1	10:S:856:LYS:NZ	2.45	0.43
10:S:989:ILE:HG22	10:S:993:GLU:OE2	2.18	0.43
10:S:1401:ASN:HA	10:S:1404:GLU:OE2	2.18	0.43
10:S:1642:GLY:O	10:S:1646:GLN:HG2	2.18	0.43
10:S:1806:TRP:CZ2	10:S:1943:ASN:HA	2.53	0.43
10:S:1881:LEU:HB3	10:S:1885:ARG:HH21	1.83	0.43
11:T:734:ILE:HD11	11:T:738:TRP:CE2	2.53	0.43
11:T:810:ILE:HA	11:T:813:PHE:HD2	1.83	0.43
12:U:103:LYS:HE2	12:U:104:ASN:HD21	1.83	0.43
12:U:470:THR:O	12:U:472:GLN:NE2	2.51	0.43
12:U:516:GLN:NE2	12:U:524:VAL:O	2.51	0.43
2:B:173:HIS:CD2	2:B:188:SER:HG	2.36	0.43
3:C:222:VAL:HA	3:C:242:THR:CG2	2.48	0.43
3:C:235:PHE:CE2	3:C:249:THR:HG23	2.52	0.43
3:C:301:THR:HG22	3:C:320:LYS:HG3	2.00	0.43
4:D:100:ASN:HB3	4:D:119:LEU:HB3	2.01	0.43
4:D:1135:ARG:HG2	4:D:1136:PRO:HD2	1.99	0.43
7:G:34:ASP:O	7:G:35:ARG:HB2	2.18	0.43
7:G:131:ILE:HB	7:G:143:LYS:HB2	1.99	0.43
7:G:215:ARG:HH11	7:G:263:VAL:HG12	1.83	0.43
8:H:375:TYR:HB2	8:H:395:ARG:NH2	2.28	0.43
8:H:558:GLU:O	8:H:562:GLU:HG2	2.19	0.43
9:I:74:ASN:HB3	9:I:465:ALA:HA	2.00	0.43
9:I:576:PHE:CG	11:T:643:VAL:N	2.85	0.43
1:J:458:ARG:HG3	1:J:458:ARG:O	2.18	0.43
1:J:542:PHE:CE1	1:J:554:ALA:HB1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:26:ARG:HH11	3:L:40:ASP:HB3	1.81	0.43
3:L:283:ARG:NH2	3:L:296:SER:HB2	2.33	0.43
4:M:218:THR:HG22	4:M:230:ALA:HB3	1.99	0.43
4:M:354:ILE:HG23	4:M:374:LEU:O	2.18	0.43
4:M:414:LEU:HD22	9:R:183:LEU:HD11	2.01	0.43
4:M:991:ASP:OD1	4:M:992:ASP:N	2.51	0.43
4:M:1320:LEU:HG	4:M:1321:PRO:HD2	2.00	0.43
5:N:275:LYS:HA	5:N:275:LYS:HD3	1.65	0.43
6:O:387:TRP:CZ2	6:O:608:TYR:HB2	2.53	0.43
6:O:603:HIS:N	6:O:606:LYS:HZ3	2.16	0.43
6:O:621:PRO:O	6:O:625:THR:OG1	2.34	0.43
7:P:17:HIS:ND1	7:P:60:VAL:O	2.51	0.43
7:P:27:ARG:HG3	7:P:50:ILE:HD11	2.00	0.43
9:R:155:GLN:H	9:R:164:SER:HB3	1.82	0.43
9:R:528:VAL:HG21	9:R:604:VAL:HG11	1.99	0.43
9:R:532:PHE:CD2	9:R:606:LEU:HD11	2.53	0.43
9:R:1002:LEU:HB3	9:R:1007:MET:HB2	2.00	0.43
10:S:1387:PHE:HA	10:S:1390:ILE:HG12	2.00	0.43
11:T:197:ILE:H	11:T:197:ILE:HD12	1.83	0.43
11:T:887:ILE:HD12	11:T:887:ILE:H	1.83	0.43
1:A:395:ASN:ND2	1:A:398:GLU:HB2	2.34	0.43
1:A:500:ILE:CG1	1:A:503:ARG:HH21	2.30	0.43
2:B:1:MET:O	2:B:309:ARG:NH2	2.52	0.43
2:B:40:ASN:HB2	2:B:44:LYS:NZ	2.33	0.43
2:B:282:SER:HB2	2:B:284:TRP:CH2	2.53	0.43
2:B:284:TRP:NE1	2:B:339:ASN:HB2	2.32	0.43
3:C:121:PHE:CD1	3:C:130:LEU:HD12	2.53	0.43
4:D:149:ASN:O	4:D:171:ARG:NE	2.49	0.43
4:D:325:LEU:HD11	4:D:334:ILE:HB	1.99	0.43
4:D:1049:LEU:HA	4:D:1052:PHE:CD2	2.53	0.43
4:D:1095:LYS:NZ	6:F:902:GLU:O	2.51	0.43
6:F:464:ARG:HE	6:F:468:LEU:HG	1.84	0.43
6:F:618:LEU:HB3	6:F:638:TRP:HZ2	1.83	0.43
6:F:753:ASN:O	6:F:756:HIS:HB3	2.18	0.43
6:F:864:LEU:HA	6:F:867:VAL:HG22	1.99	0.43
7:G:135:THR:OG1	7:G:139:PRO:HD2	2.18	0.43
9:I:910:ALA:O	9:I:914:GLN:HG3	2.18	0.43
1:J:200:GLY:O	1:J:204:GLN:HG2	2.18	0.43
1:J:390:LEU:HD21	1:J:396:MET:HG3	1.99	0.43
1:J:514:PHE:HZ	1:J:543:HIS:CD2	2.36	0.43
2:K:30:PRO:HD2	2:K:357:ASN:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:87:GLU:OE1	3:L:106:ARG:HD3	2.19	0.43
3:L:100:GLN:HB2	3:L:102:HIS:NE2	2.34	0.43
3:L:193:ILE:HB	3:L:196:LYS:HE2	1.99	0.43
4:M:101:ARG:HE	4:M:121:ILE:HD11	1.83	0.43
4:M:197:ASP:C	4:M:199:ASN:N	2.71	0.43
4:M:1228:ILE:HG23	4:M:1298:TYR:HE2	1.82	0.43
4:M:1262:GLU:HA	4:M:1265:GLU:CD	2.39	0.43
4:M:1340:TYR:HE2	4:M:1352:LEU:CD2	2.32	0.43
5:N:258:ARG:HB3	5:N:304:TRP:HD1	1.84	0.43
6:O:438:ILE:HG12	6:O:502:ARG:CD	2.48	0.43
6:O:574:LEU:HB3	6:O:578:LEU:HD23	2.00	0.43
7:P:230:ILE:C	7:P:241:ILE:HD12	2.39	0.43
8:Q:163:PHE:O	8:Q:167:GLU:OE1	2.36	0.43
8:Q:543:HIS:O	8:Q:547:PHE:CD2	2.72	0.43
9:R:188:TYR:O	9:R:189:ILE:HD13	2.19	0.43
9:R:220:LEU:HB3	9:R:236:LEU:HD13	2.00	0.43
10:S:554:HIS:HA	10:S:557:HIS:NE2	2.32	0.43
10:S:805:HIS:HE1	10:S:810:SER:HA	1.84	0.43
10:S:1218:ASN:ND2	10:S:1224:VAL:HG23	2.33	0.43
10:S:1345:SER:HA	10:S:1430:ILE:HD11	1.99	0.43
10:S:1416:VAL:O	10:S:1420:LEU:HG	2.18	0.43
12:U:397:ARG:NH1	12:U:423:CYS:HA	2.32	0.43
12:U:412:GLU:HG2	12:U:413:ASP:N	2.32	0.43
12:U:714:VAL:O	12:U:718:LEU:HG	2.18	0.43
12:U:727:SER:HB3	12:U:731:ARG:NH1	2.33	0.43
1:A:15:GLY:HA3	3:C:4:ALA:H	1.84	0.43
1:A:76:HIS:CG	1:A:417:LEU:HD13	2.54	0.43
1:A:252:PHE:CE2	1:A:315:PRO:HB2	2.54	0.43
1:A:263:CYS:HB2	1:A:286:LEU:HD21	2.00	0.43
1:A:317:VAL:HB	1:A:322:LEU:HD21	2.00	0.43
1:A:596:TYR:HB3	1:A:600:ARG:HH21	1.83	0.43
2:B:153:PHE:CE1	2:B:160:VAL:HA	2.53	0.43
2:B:255:ASN:ND2	2:B:332:LYS:O	2.52	0.43
4:D:410:TRP:CZ3	4:D:553:VAL:HG11	2.54	0.43
4:D:433:GLY:H	11:T:113:ILE:N	2.16	0.43
4:D:1142:VAL:HB	4:D:1174:ILE:CD1	2.49	0.43
4:D:1347:GLU:O	4:D:1350:ALA:HB3	2.18	0.43
6:F:291:PRO:O	7:G:47:GLN:NE2	2.46	0.43
8:H:139:GLY:O	8:H:143:THR:HG23	2.19	0.43
8:H:496:LEU:HD23	8:H:496:LEU:HA	1.73	0.43
9:I:116:ARG:NE	9:I:118:ILE:HD11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:652:SER:O	9:I:655:GLN:NE2	2.51	0.43
9:I:814:GLU:O	9:I:818:ILE:HG13	2.18	0.43
9:I:822:GLU:HA	9:I:825:GLN:OE1	2.18	0.43
9:I:1055:LEU:HD11	9:I:1112:SER:HB2	1.99	0.43
9:I:1076:PRO:HG3	9:I:1126:PHE:CZ	2.53	0.43
1:J:105:TYR:O	1:J:109:LEU:HG	2.19	0.43
1:J:207:MET:N	1:J:207:MET:SD	2.92	0.43
1:J:277:HIS:O	1:J:281:VAL:HG23	2.18	0.43
1:J:305:PHE:CE2	1:J:329:SER:HA	2.54	0.43
1:J:489:ILE:HD12	2:K:26:SER:OG	2.18	0.43
1:J:588:VAL:HG22	1:J:643:ARG:HH11	1.82	0.43
2:K:179:ARG:HB2	2:K:182:GLU:OE1	2.18	0.43
2:K:259:ALA:HB1	2:K:279:GLU:HG2	1.99	0.43
3:L:199:ILE:HD13	3:L:215:LEU:HD23	1.99	0.43
4:M:615:MET:HE3	4:M:661:ILE:HG12	2.00	0.43
8:Q:484:PHE:CD2	8:Q:512:LEU:HD21	2.53	0.43
9:R:661:ARG:HB3	9:R:688:CYS:SG	2.58	0.43
9:R:693:GLU:OE2	9:R:711:VAL:HA	2.19	0.43
9:R:766:GLN:OE1	9:R:770:ILE:HG13	2.18	0.43
10:S:254:GLU:O	10:S:321:LYS:HG2	2.18	0.43
10:S:599:GLN:NE2	10:S:642:GLU:OE1	2.50	0.43
10:S:671:GLN:HG3	10:S:681:GLY:HA2	2.00	0.43
10:S:1629:ILE:O	10:S:1633:SER:OG	2.33	0.43
10:S:1882:ILE:HA	10:S:1885:ARG:NH1	2.33	0.43
10:S:1906:HIS:ND1	10:S:1910:TYR:OH	2.49	0.43
11:T:98:LEU:HD13	11:T:105:VAL:HB	2.00	0.43
11:T:655:GLN:O	11:T:659:ARG:HG2	2.19	0.43
11:T:682:ASP:O	11:T:686:GLN:HG2	2.19	0.43
12:U:243:LEU:O	12:U:246:ARG:HG2	2.19	0.43
12:U:775:PRO:O	12:U:779:GLN:HG3	2.18	0.43
1:A:80:VAL:O	1:A:84:LYS:HG2	2.18	0.43
1:A:137:LEU:HD23	1:A:140:MET:CE	2.49	0.43
1:A:367:SER:HB3	3:C:330:TYR:OH	2.19	0.43
2:B:287:ASP:CG	2:B:297:PHE:HB2	2.39	0.43
4:D:427:PHE:CA	11:T:113:ILE:HD13	2.48	0.43
4:D:438:VAL:HG12	4:D:440:VAL:HG13	2.00	0.43
4:D:1426:THR:O	4:D:1430:LYS:HD3	2.19	0.43
6:F:500:GLU:OE1	6:F:503:LEU:HD13	2.17	0.43
6:F:613:TYR:C	12:U:187:ARG:NH2	2.72	0.43
6:F:658:HIS:ND1	6:F:681:ILE:HD13	2.33	0.43
6:F:735:ARG:NE	6:F:735:ARG:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:436:TRP:HB2	8:H:498:GLU:CD	2.38	0.43
8:H:622:ASP:OD1	8:H:622:ASP:N	2.51	0.43
9:I:118:ILE:HG22	9:I:120:TRP:CE3	2.53	0.43
9:I:684:ILE:HA	9:I:687:GLU:OE2	2.19	0.43
1:J:576:LEU:CD1	1:J:605:ARG:HH21	2.29	0.43
3:L:26:ARG:HB2	3:L:65:TRP:HZ3	1.82	0.43
3:L:272:ALA:HB1	3:L:274:PHE:CE2	2.53	0.43
4:M:59:ARG:NE	4:M:60:ASN:OD1	2.51	0.43
4:M:436:ASN:OD1	4:M:587:HIS:NE2	2.49	0.43
4:M:1106:ARG:HE	4:M:1149:VAL:HB	1.84	0.43
4:M:1288:TRP:HB2	4:M:1289:ARG:CZ	2.49	0.43
4:M:1313:LEU:HD22	4:M:1318:VAL:HG11	2.01	0.43
4:M:1340:TYR:CB	4:M:1349:ALA:HB2	2.48	0.43
6:O:556:TYR:HE1	6:O:570:ALA:HB1	1.83	0.43
6:O:830:THR:O	6:O:833:MET:HG2	2.19	0.43
6:O:842:ILE:O	6:O:843:GLN:HB2	2.18	0.43
7:P:79:TYR:CD1	7:P:105:SER:HB2	2.54	0.43
7:P:174:GLN:O	7:P:175:LYS:HD3	2.19	0.43
7:P:225:LEU:HD13	7:P:226:PRO:HD2	1.99	0.43
8:Q:341:LEU:HD12	8:Q:341:LEU:HA	1.79	0.43
8:Q:868:LEU:C	8:Q:868:LEU:CD2	2.87	0.43
9:R:618:MET:SD	9:R:620:VAL:HB	2.59	0.43
9:R:1012:PRO:HA	9:R:1038:LEU:HD22	1.99	0.43
10:S:567:ARG:NH2	10:S:570:LEU:HD22	2.33	0.43
10:S:687:GLU:OE2	10:S:700:LEU:HD23	2.18	0.43
10:S:733:LEU:O	10:S:736:LEU:HG	2.19	0.43
10:S:843:VAL:O	10:S:846:CYS:HB3	2.18	0.43
10:S:1289:GLU:O	10:S:1293:THR:HG22	2.19	0.43
10:S:1437:PRO:HB3	10:S:1879:VAL:HG13	2.01	0.43
10:S:1812:GLY:HA2	10:S:1815:ILE:HG22	2.00	0.43
10:S:1826:PHE:HE2	10:S:1977:ARG:HE	1.59	0.43
12:U:35:GLU:HA	12:U:35:GLU:OE2	2.19	0.43
12:U:397:ARG:HH12	12:U:423:CYS:HA	1.83	0.43
12:U:544:ASP:HB3	12:U:546:ARG:NH1	2.33	0.43
1:A:145:ASN:ND2	1:A:171:HIS:CE1	2.86	0.43
1:A:260:ARG:NH1	1:A:285:LEU:O	2.47	0.43
1:A:406:SER:HA	1:A:409:PHE:HD2	1.84	0.43
3:C:241:ALA:C	3:C:246:ARG:HH22	2.22	0.43
3:C:303:ARG:HB3	3:C:315:CYS:SG	2.59	0.43
4:D:156:LEU:HD11	4:D:219:ALA:HB2	2.01	0.43
4:D:771:TYR:HA	4:D:774:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:973:GLY:O	5:E:275:LYS:HD2	2.19	0.43
4:D:1415:MET:HE2	4:D:1419:PHE:CE2	2.51	0.43
5:E:305:HIS:HB2	5:E:310:LEU:HB3	2.01	0.43
6:F:556:TYR:HE1	6:F:570:ALA:HB1	1.83	0.43
6:F:560:PHE:HB3	6:F:570:ALA:C	2.38	0.43
6:F:732:ARG:HH21	6:F:735:ARG:CB	2.32	0.43
7:G:193:ILE:HB	7:G:205:GLN:HB2	2.00	0.43
8:H:166:ILE:HA	8:H:169:TYR:CD2	2.51	0.43
8:H:181:LYS:HD3	8:H:201:LEU:HD21	2.01	0.43
8:H:231:MET:O	8:H:231:MET:HG3	2.19	0.43
8:H:784:LYS:HB2	8:H:785:LYS:NZ	2.34	0.43
8:H:808:ILE:O	8:H:812:LEU:HG	2.18	0.43
1:J:63:ILE:HG12	1:J:411:HIS:CE1	2.53	0.43
1:J:597:GLU:HG2	1:J:598:LEU:N	2.34	0.43
3:L:169:SER:HB3	3:L:227:PHE:HE1	1.83	0.43
3:L:239:ALA:HB3	3:L:286:TRP:HE1	1.83	0.43
4:M:369:PHE:HD2	4:M:392:THR:HG1	1.65	0.43
4:M:441:ASN:C	4:M:441:ASN:ND2	2.72	0.43
5:N:44:VAL:HG23	5:N:69:PHE:HB3	2.00	0.43
6:O:259:TRP:CZ2	7:P:274:ASN:HB2	2.53	0.43
6:O:267:LYS:H	6:O:270:GLU:HG2	1.82	0.43
6:O:464:ARG:HE	6:O:468:LEU:HG	1.84	0.43
6:O:481:LEU:HB3	8:Q:363:ALA:HB1	2.00	0.43
6:O:620:ASP:OD1	6:O:623:SER:OG	2.35	0.43
6:O:723:GLN:NE2	6:O:727:LYS:HD3	2.33	0.43
8:Q:214:ILE:HG12	8:Q:510:VAL:HG11	1.99	0.43
8:Q:374:LEU:HA	8:Q:395:ARG:HD2	2.00	0.43
9:R:901:GLN:CD	9:R:909:LEU:HD22	2.39	0.43
9:R:909:LEU:HD23	9:R:923:HIS:NE2	2.34	0.43
10:S:555:PHE:CE2	10:S:559:LEU:HD11	2.54	0.43
10:S:875:PRO:HD2	10:S:878:GLN:HE22	1.82	0.43
10:S:1304:HIS:O	10:S:1308:ILE:HG12	2.19	0.43
12:U:484:GLU:HA	12:U:487:ARG:CZ	2.48	0.43
1:A:7:ASP:H	3:C:331:GLN:CG	2.32	0.43
1:A:499:LEU:HB3	1:A:503:ARG:NH2	2.34	0.43
2:B:37:SER:HB2	2:B:43:ASN:HA	2.00	0.43
3:C:171:ASN:HB3	3:C:181:MET:H	1.84	0.43
4:D:202:TYR:CG	4:D:252:VAL:HG11	2.54	0.43
4:D:1017:TYR:O	4:D:1021:THR:HG23	2.19	0.43
4:D:1143:GLN:NE2	4:D:1175:GLU:OE1	2.51	0.43
5:E:54:GLU:HG3	5:E:308:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:537:ILE:HG23	6:F:541:TYR:CD2	2.52	0.43
6:F:671:TRP:O	6:F:672:GLU:C	2.56	0.43
8:H:688:ARG:HH22	8:H:833:ARG:HE	1.67	0.43
8:H:805:LYS:O	8:H:809:TYR:HD2	2.02	0.43
9:I:67:ALA:HB3	9:I:461:LEU:HD11	2.01	0.43
9:I:288:ASP:OD1	9:I:295:SER:HB2	2.18	0.43
9:I:360:TYR:OH	9:I:392:MET:O	2.36	0.43
1:J:283:ARG:HD2	1:J:283:ARG:HA	1.91	0.43
2:K:144:VAL:HG12	2:K:150:ILE:HG13	2.00	0.43
2:K:186:VAL:HG12	2:K:192:LEU:HD21	2.00	0.43
2:K:245:ARG:HD3	2:K:245:ARG:N	2.34	0.43
2:K:267:HIS:NE2	2:K:356:GLN:HA	2.33	0.43
3:L:27:MET:SD	3:L:28:ALA:N	2.91	0.43
3:L:123:PRO:HG2	3:L:126:MET:SD	2.58	0.43
4:M:121:ILE:HD12	4:M:183:ILE:HG21	2.00	0.43
4:M:620:ILE:HG21	4:M:730:ARG:HH21	1.83	0.43
4:M:1223:LEU:HB3	4:M:1226:THR:HB	2.01	0.43
5:N:206:SER:OG	5:N:243:PRO:HD3	2.19	0.43
6:O:779:PHE:O	6:O:782:GLU:HG2	2.19	0.43
7:P:54:ARG:HH11	7:P:56:HIS:H	1.65	0.43
8:Q:290:GLU:HB2	12:U:46:LYS:HE3	2.01	0.43
8:Q:534:LEU:HB2	8:Q:537:LEU:HD13	1.99	0.43
8:Q:853:HIS:CE1	8:Q:894:LYS:HB3	2.54	0.43
9:R:191:SER:HB3	9:R:231:MET:HB3	1.99	0.43
9:R:224:THR:HB	9:R:232:ASN:HB3	2.01	0.43
9:R:562:ASP:O	9:R:565:TRP:N	2.49	0.43
9:R:622:THR:O	9:R:626:LEU:HG	2.19	0.43
10:S:186:ILE:HD12	10:S:232:LEU:HD13	1.99	0.43
10:S:492:SER:OG	10:S:496:ARG:NH2	2.50	0.43
10:S:688:LEU:HD12	10:S:692:GLU:HB2	2.00	0.43
10:S:1059:LEU:HA	10:S:1062:GLN:HB2	2.01	0.43
10:S:1178:ARG:CG	10:S:1180:ILE:HG22	2.49	0.43
10:S:1246:ALA:HB3	10:S:1250:ARG:NH1	2.34	0.43
10:S:1808:LEU:HG	10:S:1949:LEU:HA	2.01	0.43
11:T:477:ALA:HB3	11:T:488:PHE:CZ	2.54	0.43
12:U:442:GLN:HB3	12:U:446:PHE:CZ	2.54	0.43
12:U:712:PHE:O	12:U:716:GLU:OE1	2.35	0.43
1:A:156:PRO:O	1:A:160:LEU:HG	2.19	0.43
1:A:487:TRP:CH2	2:B:24:ALA:HB3	2.54	0.43
2:B:17:THR:OG1	2:B:352:ASP:OD2	2.29	0.43
2:B:76:GLY:HA2	2:B:94:SER:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:432:ALA:HB1	11:T:109:TYR:CZ	2.54	0.43
4:D:631:ALA:O	4:D:636:GLN:HB3	2.18	0.43
4:D:670:ASN:HD22	11:T:367:GLY:HA3	1.84	0.43
4:D:747:LEU:HD22	11:T:363:GLU:HG2	2.00	0.43
4:D:1100:MET:HG3	4:D:1123:SER:HA	2.00	0.43
4:D:1124:TYR:HB2	4:D:1186:TYR:CD1	2.54	0.43
4:D:1222:GLY:HA2	4:D:1224:PHE:CE1	2.54	0.43
4:D:1232:GLN:O	4:D:1235:LYS:HE3	2.19	0.43
4:D:1313:LEU:O	4:D:1318:VAL:N	2.52	0.43
6:F:257:PRO:O	6:F:260:THR:HG22	2.18	0.43
6:F:378:LEU:HD12	6:F:416:TRP:HZ2	1.84	0.43
6:F:411:LYS:O	6:F:414:SER:OG	2.28	0.43
6:F:438:ILE:CG2	6:F:501:GLU:HG2	2.41	0.43
6:F:758:LEU:HD12	6:F:759:VAL:N	2.33	0.43
6:F:786:PRO:O	6:F:790:LYS:HG2	2.19	0.43
7:G:116:PHE:CG	7:G:180:LYS:HE3	2.54	0.43
8:H:242:LYS:HB2	8:H:376:HIS:CD2	2.54	0.43
8:H:367:ALA:HA	8:H:370:GLU:OE1	2.19	0.43
8:H:420:ALA:O	8:H:429:LEU:HD11	2.19	0.43
8:H:863:LYS:HG3	8:H:867:ARG:HH22	1.84	0.43
9:I:243:LEU:HD12	9:I:258:SER:HB3	2.01	0.43
9:I:607:PHE:O	9:I:738:ASN:ND2	2.52	0.43
9:I:980:ALA:HA	9:I:983:GLU:CD	2.39	0.43
1:J:59:SER:O	3:L:330:TYR:OH	2.31	0.43
1:J:360:LYS:HE3	1:J:360:LYS:HB3	1.82	0.43
2:K:4:LYS:HZ3	2:K:373:LEU:HD21	1.83	0.43
2:K:173:HIS:HB2	2:K:186:VAL:HG23	2.00	0.43
4:M:325:LEU:HB3	4:M:330:VAL:HG22	2.01	0.43
4:M:1114:LEU:H	10:S:478:GLY:HA2	1.84	0.43
4:M:1326:ASN:HA	4:M:1329:LYS:HE3	2.01	0.43
6:O:721:PRO:O	6:O:724:TRP:HD1	2.01	0.43
7:P:59:PRO:HD2	7:P:79:TYR:CB	2.48	0.43
7:P:132:LEU:HD12	7:P:141:GLU:O	2.19	0.43
8:Q:349:MET:HE2	8:Q:352:GLU:HG3	2.00	0.43
8:Q:359:ARG:HH12	12:U:32:ASN:HB2	1.82	0.43
8:Q:507:GLN:O	8:Q:510:VAL:HB	2.19	0.43
9:R:341:GLY:HA3	9:R:367:ASP:N	2.30	0.43
9:R:1015:LEU:HB2	9:R:1038:LEU:HD13	2.00	0.43
9:R:1022:GLU:OE1	9:R:1063:LYS:HE3	2.18	0.43
10:S:40:ASP:HB2	10:S:169:MET:SD	2.58	0.43
10:S:354:GLU:O	10:S:358:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:528:PHE:O	10:S:552:TRP:HH2	2.01	0.43
10:S:754:GLU:O	10:S:758:VAL:HG23	2.19	0.43
10:S:1560:THR:O	10:S:1564:LYS:HG3	2.19	0.43
12:U:172:ALA:HB3	12:U:177:SER:N	2.34	0.43
12:U:223:ASP:O	12:U:226:VAL:HB	2.19	0.43
1:A:104:ASN:O	1:A:108:VAL:HG23	2.18	0.43
1:A:289:GLU:OE1	1:A:305:PHE:HE1	2.01	0.43
2:B:85:ASP:OD2	3:C:96:LYS:HB3	2.18	0.43
3:C:134:SER:C	3:C:136:ASP:H	2.21	0.43
4:D:376:CYS:HA	4:D:382:TYR:HD1	1.84	0.43
4:D:1105:MET:HE2	4:D:1124:TYR:OH	2.19	0.43
5:E:93:LEU:HB3	5:E:109:SER:HB2	2.01	0.43
5:E:94:ARG:NH1	5:E:138:THR:HA	2.34	0.43
6:F:352:ILE:HD12	6:F:384:GLU:OE1	2.19	0.43
6:F:699:CYS:HB3	6:F:729:LYS:HD3	2.00	0.43
6:F:850:ARG:HD2	6:F:850:ARG:C	2.40	0.43
7:G:22:ASP:CG	7:G:27:ARG:HD3	2.40	0.43
7:G:81:ARG:O	7:G:100:THR:HG23	2.19	0.43
8:H:494:ARG:HH21	8:H:498:GLU:CD	2.21	0.43
9:I:74:ASN:ND2	9:I:466:ARG:HB3	2.33	0.43
9:I:560:ALA:HA	9:I:565:TRP:HE1	1.84	0.43
9:I:690:VAL:O	9:I:693:GLU:HB2	2.19	0.43
9:I:729:ARG:NH2	9:I:733:ASN:HA	2.34	0.43
1:J:302:TRP:HB3	1:J:333:PHE:CD2	2.54	0.43
4:M:413:TRP:CZ3	4:M:423:LYS:HE2	2.54	0.43
4:M:472:ILE:HG13	4:M:497:LEU:CD2	2.49	0.43
4:M:474:ALA:HB1	4:M:538:CYS:HA	2.00	0.43
4:M:913:LEU:HG	4:M:917:TYR:CZ	2.54	0.43
4:M:1072:VAL:HG12	4:M:1153:PRO:HG3	2.00	0.43
5:N:174:HIS:HD2	5:N:180:LYS:HB3	1.83	0.43
5:N:302:LEU:HA	5:N:312:VAL:O	2.19	0.43
6:O:250:SER:N	7:P:265:TRP:CZ3	2.87	0.43
6:O:857:ALA:HA	6:O:860:VAL:HG12	2.01	0.43
7:P:40:PHE:CZ	7:P:49:LEU:HD13	2.54	0.43
8:Q:667:ASP:HB2	8:Q:671:PHE:CZ	2.53	0.43
9:R:333:LEU:HB2	9:R:345:LEU:HG	2.01	0.43
9:R:817:ASN:O	9:R:821:MET:HG3	2.19	0.43
10:S:511:LEU:HB3	10:S:515:ARG:CZ	2.49	0.43
10:S:713:GLU:OE2	10:S:714:SER:OG	2.37	0.43
10:S:866:GLU:CD	10:S:866:GLU:H	2.18	0.43
10:S:1075:GLY:O	10:S:1079:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1177:ARG:HB2	10:S:1182:ARG:CZ	2.49	0.43
10:S:1401:ASN:O	10:S:1404:GLU:HG2	2.19	0.43
11:T:453:LEU:HA	11:T:475:PHE:HB3	1.99	0.43
11:T:513:PRO:HA	11:T:534:ALA:HB1	2.00	0.43
12:U:294:VAL:O	12:U:298:LEU:HD23	2.19	0.43
12:U:323:ILE:HG22	12:U:327:MET:CE	2.48	0.43
12:U:658:GLN:C	12:U:663:ARG:HH12	2.22	0.43
1:A:5:ASP:OD2	3:C:308:ASN:HB3	2.19	0.42
1:A:22:HIS:HE1	3:C:297:GLY:O	2.02	0.42
1:A:532:ARG:HH12	1:A:568:PRO:HD3	1.83	0.42
1:A:583:LEU:HD23	1:A:590:PHE:CE1	2.54	0.42
1:A:593:GLU:HG2	1:A:594:GLN:OE1	2.20	0.42
2:B:173:HIS:HD2	2:B:187:ASN:C	2.22	0.42
3:C:274:PHE:HB3	3:C:276:ASN:OD1	2.19	0.42
4:D:111:THR:HG21	4:D:129:ARG:CZ	2.49	0.42
4:D:974:LEU:O	4:D:978:VAL:HG23	2.19	0.42
6:F:380:TRP:CZ2	6:F:633:LEU:CA	2.87	0.42
6:F:607:LEU:HB2	6:F:613:TYR:HD2	1.83	0.42
6:F:773:TYR:O	6:F:777:ARG:CB	2.67	0.42
7:G:195:ARG:NH2	7:G:202:LYS:HB2	2.34	0.42
7:G:218:ALA:HB2	7:G:267:VAL:HB	1.99	0.42
8:H:134:GLN:HB2	10:S:1507:ARG:HD2	2.01	0.42
8:H:280:ILE:HG23	8:H:283:TYR:CD2	2.54	0.42
8:H:374:LEU:HA	8:H:395:ARG:HD2	2.00	0.42
9:I:926:ASN:O	9:I:926:ASN:ND2	2.52	0.42
9:I:1014:GLN:CD	9:I:1017:GLN:HE21	2.22	0.42
9:I:1076:PRO:HD3	9:I:1126:PHE:HE2	1.84	0.42
1:J:14:PRO:O	1:J:18:GLN:HG3	2.18	0.42
1:J:551:PHE:CE2	1:J:589:ILE:HG12	2.47	0.42
2:K:13:LYS:HB2	2:K:38:TRP:O	2.18	0.42
2:K:16:ARG:HH22	2:K:45:VAL:HG13	1.84	0.42
2:K:29:GLN:HE21	2:K:371:ARG:HH12	1.67	0.42
4:M:543:GLU:HG3	9:R:132:VAL:HA	2.01	0.42
4:M:938:GLU:HB2	4:M:939:ARG:NH1	2.34	0.42
4:M:1049:LEU:HA	4:M:1052:PHE:CD2	2.54	0.42
4:M:1104:GLY:HA3	4:M:1124:TYR:CE1	2.54	0.42
5:N:106:ILE:O	5:N:117:TYR:HA	2.19	0.42
6:O:537:ILE:HG23	6:O:541:TYR:CD2	2.52	0.42
6:O:632:ARG:HG2	6:O:636:HIS:NE2	2.34	0.42
7:P:218:ALA:HB1	7:P:269:TRP:CD1	2.54	0.42
7:P:290:GLU:HA	7:P:295:GLN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:367:ALA:HA	8:Q:370:GLU:OE1	2.19	0.42
8:Q:375:TYR:HB2	8:Q:395:ARG:NH2	2.28	0.42
8:Q:558:GLU:HG2	8:Q:559:VAL:N	2.34	0.42
8:Q:800:LEU:O	8:Q:804:VAL:HG23	2.18	0.42
9:R:578:ASN:HB2	9:R:670:THR:HG21	2.00	0.42
9:R:809:LYS:HG2	9:R:813:GLU:OE1	2.19	0.42
10:S:511:LEU:HB3	10:S:515:ARG:NH1	2.34	0.42
10:S:613:LEU:HA	10:S:616:CYS:SG	2.59	0.42
10:S:661:TRP:HZ3	10:S:712:VAL:HA	1.84	0.42
10:S:1121:LEU:CD2	10:S:1291:ILE:HD13	2.48	0.42
10:S:1356:MET:CG	10:S:1357:THR:H	2.32	0.42
10:S:1630:LEU:HD22	10:S:1637:HIS:CD2	2.54	0.42
10:S:1720:ARG:O	10:S:1800:VAL:HG11	2.19	0.42
10:S:1904:TRP:HE1	10:S:2001:ARG:CD	2.32	0.42
12:U:267:TYR:OH	12:U:301:ARG:NH1	2.52	0.42
12:U:310:GLN:O	12:U:311:ASP:HB2	2.19	0.42
12:U:344:HIS:CD2	12:U:345:GLN:HG3	2.53	0.42
12:U:572:SER:O	12:U:575:VAL:HG12	2.19	0.42
1:A:306:LEU:HD11	1:A:325:TYR:HB3	2.00	0.42
1:A:401:LEU:CD2	1:A:421:TYR:HB3	2.48	0.42
1:A:596:TYR:CE2	4:D:1128:LEU:HD11	2.54	0.42
2:B:8:LYS:HG3	2:B:61:GLU:OE1	2.19	0.42
3:C:16:HIS:CG	3:C:61:TRP:HA	2.55	0.42
3:C:158:GLU:O	3:C:159:ILE:HD13	2.19	0.42
4:D:309:ARG:HG2	4:D:321:VAL:HG13	2.01	0.42
4:D:1000:ARG:HE	4:D:1023:ILE:HD13	1.84	0.42
4:D:1087:HIS:HA	4:D:1092:ASN:ND2	2.25	0.42
4:D:1293:SER:O	4:D:1297:LYS:HG2	2.19	0.42
4:D:1305:TYR:O	4:D:1309:ILE:HD12	2.19	0.42
4:D:1393:LEU:O	4:D:1397:GLU:HG3	2.19	0.42
5:E:240:SER:HB2	5:E:242:TYR:O	2.18	0.42
5:E:252:ASP:OD2	5:E:272:TYR:HB3	2.19	0.42
7:G:30:THR:O	7:G:37:VAL:HG13	2.19	0.42
8:H:181:LYS:CD	8:H:201:LEU:HD21	2.50	0.42
9:I:415:ILE:HD12	9:I:434:PHE:CE2	2.54	0.42
9:I:825:GLN:O	9:I:829:GLU:OE1	2.36	0.42
9:I:979:ILE:O	9:I:983:GLU:OE1	2.36	0.42
9:I:1030:ASN:HA	9:I:1033:MET:HG3	2.00	0.42
1:J:7:ASP:HB3	1:J:8:PRO:HD2	2.02	0.42
1:J:70:LYS:HZ2	2:K:246:HIS:H	1.68	0.42
1:J:87:GLU:HB2	2:K:309:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:107:SER:HA	1:J:110:ARG:CD	2.49	0.42
1:J:434:LYS:O	1:J:435:LEU:C	2.58	0.42
4:M:155:ILE:CG2	4:M:162:HIS:HB2	2.49	0.42
4:M:156:LEU:HD23	4:M:231:LEU:HG	2.01	0.42
4:M:974:LEU:HB2	4:M:977:LEU:HD12	2.00	0.42
4:M:1085:ALA:HA	4:M:1088:ILE:HD13	2.01	0.42
4:M:1426:THR:O	4:M:1430:LYS:HD3	2.19	0.42
5:N:174:HIS:CD2	5:N:180:LYS:HB3	2.54	0.42
6:O:343:PHE:CE2	6:O:679:LEU:HD12	2.53	0.42
6:O:739:LYS:H	6:O:739:LYS:HG2	1.69	0.42
7:P:263:VAL:HG12	7:P:265:TRP:CD1	2.54	0.42
8:Q:338:LEU:HD13	8:Q:414:TYR:CD2	2.55	0.42
9:R:120:TRP:HE1	9:R:460:MET:HE1	1.84	0.42
9:R:236:LEU:O	9:R:238:GLN:NE2	2.46	0.42
9:R:365:VAL:HG12	9:R:376:ILE:HG12	2.00	0.42
9:R:614:GLN:NE2	9:R:617:GLY:H	2.17	0.42
9:R:800:TYR:CD2	9:R:823:TYR:HD1	2.36	0.42
9:R:873:MET:SD	9:R:881:PHE:HB3	2.59	0.42
10:S:153:ARG:O	10:S:238:GLN:NE2	2.52	0.42
10:S:255:LYS:HD3	10:S:321:LYS:NZ	2.34	0.42
10:S:844:ALA:O	10:S:848:MET:HG3	2.18	0.42
10:S:1064:ILE:H	10:S:1064:ILE:HD12	1.83	0.42
10:S:1329:LEU:HD12	10:S:1330:MET:N	2.34	0.42
10:S:1330:MET:O	10:S:1334:ALA:CB	2.67	0.42
10:S:1602:ARG:NH2	10:S:1614:ARG:HH12	2.17	0.42
10:S:1679:ILE:HG23	10:S:1683:ALA:HB3	2.01	0.42
11:T:232:THR:O	11:T:234:GLN:HG2	2.19	0.42
11:T:538:SER:H	11:T:541:GLU:CD	2.18	0.42
11:T:579:ARG:O	11:T:583:GLU:OE1	2.37	0.42
11:T:859:ARG:HA	11:T:862:GLN:HG2	2.01	0.42
12:U:37:GLN:O	12:U:41:GLU:HG2	2.19	0.42
12:U:41:GLU:OE1	12:U:44:ARG:HD2	2.19	0.42
12:U:207:ASP:O	12:U:208:LEU:C	2.57	0.42
12:U:483:LEU:HD23	12:U:485:ARG:N	2.32	0.42
12:U:629:LEU:HD12	12:U:632:LEU:HD12	2.01	0.42
1:A:148:GLU:HG3	1:A:152:ILE:CG1	2.48	0.42
1:A:299:MET:O	1:A:300:THR:OG1	2.30	0.42
1:A:386:GLN:HA	1:A:389:ASN:OD1	2.19	0.42
1:A:444:THR:HG21	1:A:447:LYS:NZ	2.34	0.42
1:A:515:THR:HB	2:B:106:ASN:OD1	2.19	0.42
1:A:569:CYS:HA	1:A:605:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:138:SER:HA	2:B:139:PRO:HA	1.64	0.42
2:B:178:LEU:CD2	2:B:245:ARG:HA	2.46	0.42
3:C:16:HIS:H	3:C:31:SER:HA	1.84	0.42
3:C:205:ASN:O	3:C:207:ARG:NH1	2.35	0.42
4:D:645:ILE:HD12	4:D:730:ARG:HH21	1.84	0.42
4:D:1059:ASN:OD1	6:F:910:ARG:NH2	2.52	0.42
4:D:1150:TYR:OH	4:D:1152:ARG:O	2.28	0.42
4:D:1215:VAL:HG13	4:D:1241:ILE:HD11	2.02	0.42
4:D:1272:LEU:HD21	4:D:1290:LEU:HD13	2.01	0.42
7:G:21:MET:CE	7:G:42:VAL:HG21	2.49	0.42
7:G:40:PHE:CZ	7:G:49:LEU:HD13	2.55	0.42
9:I:1125:GLU:O	9:I:1128:LEU:HB3	2.19	0.42
1:J:299:MET:HA	1:J:304:HIS:ND1	2.35	0.42
1:J:310:LEU:HD12	1:J:317:VAL:HB	2.01	0.42
1:J:587:GLN:CD	1:J:643:ARG:HH22	2.22	0.42
3:L:92:GLU:H	3:L:99:GLY:H	1.67	0.42
4:M:131:LYS:HE3	4:M:131:LYS:HB3	1.78	0.42
4:M:293:LEU:HD22	4:M:382:TYR:HE1	1.83	0.42
4:M:482:LEU:HD22	4:M:505:VAL:HG22	2.01	0.42
4:M:483:ARG:HA	4:M:507:LYS:NZ	2.34	0.42
4:M:506:GLU:OE1	5:N:242:TYR:HB3	2.18	0.42
4:M:540:GLN:HB3	9:R:83:PRO:HG3	2.01	0.42
4:M:974:LEU:HD21	5:N:273:PRO:O	2.19	0.42
4:M:1280:GLU:O	4:M:1281:SER:HB3	2.19	0.42
4:M:1289:ARG:HH21	4:M:1292:ILE:HD11	1.85	0.42
6:O:725:ILE:H	6:O:725:ILE:HD12	1.83	0.42
8:Q:339:LYS:HD2	8:Q:414:TYR:OH	2.20	0.42
8:Q:520:ASP:O	8:Q:524:GLU:OE1	2.37	0.42
8:Q:845:LEU:HD11	8:Q:879:LEU:HD21	2.00	0.42
9:R:855:ILE:O	9:R:859:ILE:HG12	2.18	0.42
9:R:873:MET:SD	9:R:881:PHE:HD2	2.42	0.42
10:S:327:ALA:CB	10:S:360:ALA:HA	2.48	0.42
10:S:759:ALA:O	10:S:762:VAL:HG12	2.18	0.42
10:S:926:ILE:HG23	10:S:930:ILE:HD11	2.01	0.42
10:S:1037:LEU:HD11	10:S:1060:CYS:HB3	2.01	0.42
10:S:1104:ILE:HD11	10:S:1273:CYS:SG	2.59	0.42
11:T:307:SER:HB2	11:T:323:GLU:OE2	2.19	0.42
11:T:677:LEU:HD23	11:T:679:ASP:H	1.83	0.42
11:T:955:HIS:O	11:T:960:ASN:N	2.51	0.42
12:U:115:GLU:HG2	12:U:118:ARG:NH2	2.34	0.42
12:U:289:GLY:O	12:U:293:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:659:SER:N	12:U:663:ARG:HH12	2.17	0.42
1:A:260:ARG:NH1	1:A:286:LEU:HA	2.35	0.42
1:A:480:ARG:HH21	1:A:481:LEU:HG	1.85	0.42
1:A:514:PHE:CE2	1:A:540:ARG:HA	2.54	0.42
2:B:34:ALA:HB3	2:B:83:PHE:HZ	1.84	0.42
3:C:106:ARG:HD2	3:C:106:ARG:HA	1.77	0.42
4:D:41:ASN:OD1	4:D:429:ARG:HD2	2.19	0.42
4:D:366:GLN:O	4:D:366:GLN:HG2	2.20	0.42
5:E:282:ILE:HD13	5:E:292:LEU:HD23	1.99	0.42
6:F:688:GLU:HA	6:F:691:VAL:HG22	2.01	0.42
6:F:767:ALA:CB	6:F:776:LEU:HD12	2.49	0.42
6:F:827:LYS:H	6:F:827:LYS:HG2	1.62	0.42
7:G:122:CYS:O	7:G:129:ILE:HG23	2.19	0.42
7:G:183:VAL:HG12	7:G:193:ILE:CD1	2.45	0.42
7:G:282:ASP:O	7:G:284:LYS:NZ	2.31	0.42
8:H:232:PHE:O	8:H:232:PHE:CD2	2.72	0.42
8:H:365:ARG:O	8:H:369:LEU:HG	2.18	0.42
8:H:845:LEU:HB2	8:H:846:PRO:HD3	2.00	0.42
9:I:498:ASP:HB3	4:M:178:ILE:HG21	2.01	0.42
9:I:1067:TRP:HB3	9:I:1121:ASN:ND2	2.34	0.42
1:J:480:ARG:NH1	2:K:102:ARG:HH12	2.17	0.42
2:K:102:ARG:HB2	2:K:113:ASN:HB2	2.01	0.42
2:K:321:LEU:HD13	2:K:332:LYS:HD2	2.01	0.42
3:L:106:ARG:HD2	3:L:106:ARG:HA	1.74	0.42
4:M:618:ASP:OD1	4:M:619:TYR:N	2.52	0.42
4:M:686:THR:OG1	4:M:867:GLN:HB3	2.19	0.42
4:M:1116:GLY:O	4:M:1119:LYS:N	2.52	0.42
4:M:1128:LEU:O	4:M:1132:ARG:HG2	2.19	0.42
4:M:1143:GLN:N	4:M:1175:GLU:O	2.33	0.42
5:N:25:ASN:OD1	5:N:35:LEU:HB3	2.19	0.42
6:O:459:LYS:HD3	6:O:459:LYS:HA	1.73	0.42
6:O:529:LEU:HD11	6:O:571:CYS:SG	2.60	0.42
6:O:801:VAL:CG1	6:O:805:TYR:HE2	2.32	0.42
7:P:95:LYS:HE3	7:P:98:GLU:HB2	1.99	0.42
8:Q:693:SER:HB2	8:Q:695:LYS:HZ3	1.84	0.42
8:Q:819:TRP:C	8:Q:821:VAL:H	2.23	0.42
9:R:104:HIS:CD2	9:R:152:ILE:HD11	2.54	0.42
9:R:171:THR:O	9:R:173:GLU:N	2.50	0.42
9:R:305:VAL:HG23	9:R:306:LEU:H	1.84	0.42
9:R:655:GLN:HA	9:R:671:ALA:HB3	2.01	0.42
10:S:276:LEU:O	10:S:388:ARG:NE	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:335:LEU:HD22	10:S:399:LEU:HD12	2.01	0.42
10:S:482:GLN:H	10:S:483:ARG:NH1	2.17	0.42
10:S:679:ARG:HG3	10:S:682:VAL:HG11	2.00	0.42
10:S:908:GLU:O	10:S:912:GLU:OE1	2.36	0.42
11:T:588:LYS:HA	11:T:591:LEU:HG	2.02	0.42
11:T:748:TYR:HA	11:T:750:PRO:HD3	2.01	0.42
12:U:216:LEU:HB3	12:U:218:ASP:OD2	2.19	0.42
1:A:194:PHE:O	1:A:198:VAL:HG23	2.19	0.42
1:A:535:PHE:HB2	1:A:566:ILE:HD12	2.00	0.42
2:B:101:PHE:HD2	2:B:110:LEU:HD22	1.85	0.42
2:B:346:LEU:CD2	10:S:747:ARG:HH21	2.33	0.42
3:C:227:PHE:HD1	3:C:236:HIS:CE1	2.36	0.42
4:D:624:MET:CE	4:D:645:ILE:HG12	2.49	0.42
4:D:718:ILE:HD11	4:D:820:VAL:HB	2.01	0.42
4:D:883:MET:HE1	4:D:891:LEU:HD22	2.02	0.42
4:D:941:ASP:OD1	4:D:941:ASP:N	2.53	0.42
4:D:982:ALA:O	4:D:986:ILE:HG23	2.19	0.42
5:E:1:MET:H3	5:E:252:ASP:H	1.68	0.42
5:E:102:LYS:HE3	5:E:125:GLY:C	2.40	0.42
5:E:298:VAL:HB	5:E:316:TYR:CZ	2.54	0.42
6:F:410:ARG:CZ	6:F:549:VAL:HG22	2.49	0.42
7:G:65:TRP:CG	7:G:74:LEU:HD21	2.54	0.42
7:G:135:THR:HB	7:G:138:GLY:H	1.85	0.42
8:H:404:ARG:HH22	8:H:469:LEU:HA	1.84	0.42
8:H:644:HIS:CG	8:H:645:HIS:H	2.37	0.42
9:I:99:MET:HE2	9:I:114:ASN:H	1.85	0.42
9:I:766:GLN:NE2	9:I:770:ILE:HD11	2.35	0.42
1:J:68:LEU:HB3	1:J:72:PHE:CZ	2.54	0.42
1:J:629:LYS:HA	1:J:632:MET:HG2	2.01	0.42
2:K:372:ARG:HG3	2:K:373:LEU:HG	2.02	0.42
3:L:145:PRO:HD2	3:L:152:GLN:HG3	2.01	0.42
3:L:161:CYS:C	3:L:163:LEU:H	2.22	0.42
4:M:125:ASN:O	4:M:187:PHE:HB2	2.20	0.42
4:M:282:ALA:HA	4:M:304:GLN:HE21	1.84	0.42
4:M:457:GLN:HB3	4:M:531:TRP:CZ3	2.54	0.42
6:O:428:GLU:OE2	6:O:528:GLN:NE2	2.52	0.42
6:O:572:TYR:OH	6:O:598:ARG:HD2	2.20	0.42
6:O:635:TRP:CZ3	6:O:636:HIS:CE1	3.08	0.42
6:O:788:HIS:O	6:O:792:ILE:HG13	2.20	0.42
6:O:840:GLU:HG3	6:O:853:GLN:NE2	2.35	0.42
8:Q:165:LEU:HD23	8:Q:547:PHE:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:315:ASP:HB2	8:Q:318:ALA:HB2	2.01	0.42
8:Q:404:ARG:HH22	8:Q:469:LEU:HA	1.84	0.42
8:Q:809:TYR:O	8:Q:813:LEU:HB2	2.20	0.42
9:R:546:ALA:HA	9:R:549:GLN:HG2	2.01	0.42
9:R:631:GLU:HG2	9:R:725:ALA:HA	2.02	0.42
9:R:658:LEU:HD11	9:R:675:TYR:HB2	2.00	0.42
10:S:673:VAL:HG22	10:S:726:ALA:HB2	2.01	0.42
10:S:1839:LEU:HD13	10:S:1878:LEU:HB2	2.01	0.42
11:T:962:ILE:H	11:T:962:ILE:HD12	1.84	0.42
12:U:546:ARG:O	12:U:549:LEU:HB2	2.19	0.42
12:U:703:TYR:CD1	12:U:756:ILE:HD11	2.54	0.42
1:A:5:ASP:HB3	3:C:314:LYS:CB	2.46	0.42
2:B:267:HIS:NE2	2:B:270:ASN:OD1	2.53	0.42
2:B:299:LEU:HD12	2:B:302:ARG:NH1	2.34	0.42
3:C:80:ASP:O	3:C:82:THR:HG23	2.19	0.42
4:D:974:LEU:HD22	5:E:275:LYS:NZ	2.35	0.42
4:D:999:LEU:HD12	4:D:1000:ARG:N	2.35	0.42
4:D:1146:SER:HA	4:D:1166:SER:HA	2.02	0.42
5:E:220:ASN:OD1	5:E:221:THR:N	2.52	0.42
6:F:328:GLU:HA	6:F:331:ASN:HB3	2.01	0.42
6:F:686:VAL:HG22	7:G:162:VAL:HG12	2.01	0.42
6:F:784:ALA:HA	6:F:795:TRP:NE1	2.34	0.42
7:G:12:HIS:HE1	7:G:15:MET:HA	1.83	0.42
7:G:74:LEU:HG	7:G:93:TRP:CH2	2.55	0.42
7:G:184:SER:OG	7:G:194:TRP:CH2	2.70	0.42
9:I:1017:GLN:NE2	9:I:1018:LEU:HG	2.34	0.42
1:J:517:LEU:HD11	1:J:540:ARG:HD3	2.02	0.42
3:L:40:ASP:OD2	3:L:50:THR:HG21	2.19	0.42
3:L:158:GLU:O	3:L:159:ILE:HD13	2.19	0.42
3:L:270:THR:HG22	3:L:273:GLN:CD	2.39	0.42
4:M:1117:LEU:HA	4:M:1120:GLN:OE1	2.20	0.42
4:M:1348:GLU:H	4:M:1348:GLU:CD	2.20	0.42
5:N:260:SER:HA	5:N:304:TRP:CG	2.54	0.42
8:Q:455:GLU:HA	8:Q:458:ALA:HB3	2.02	0.42
9:R:69:GLU:H	9:R:69:GLU:CD	2.23	0.42
9:R:793:LEU:HD11	9:R:830:LEU:HD13	2.02	0.42
10:S:194:ASP:O	10:S:198:GLU:HG2	2.19	0.42
10:S:506:LEU:HA	10:S:506:LEU:HD23	1.84	0.42
10:S:977:ARG:O	10:S:980:THR:OG1	2.27	0.42
10:S:1217:LYS:HA	10:S:1223:THR:HA	2.01	0.42
10:S:1225:CYS:SG	10:S:1229:LEU:HD22	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1405:PHE:O	10:S:1409:THR:HG23	2.19	0.42
10:S:2009:SER:OG	10:S:2010:ARG:N	2.53	0.42
11:T:145:LEU:HB3	11:T:149:LEU:HB2	2.01	0.42
12:U:239:ALA:HB1	12:U:244:LYS:HB2	2.02	0.42
12:U:428:ALA:HB1	12:U:432:PRO:HB3	2.00	0.42
12:U:552:PHE:CD2	12:U:571:VAL:HG12	2.55	0.42
12:U:647:LEU:O	12:U:651:VAL:HG23	2.20	0.42
1:A:6:VAL:HA	3:C:331:GLN:HE21	1.84	0.42
1:A:497:ALA:HB3	1:A:530:SER:HB2	2.00	0.42
1:A:592:ALA:O	1:A:595:THR:OG1	2.22	0.42
1:A:642:ALA:O	1:A:646:VAL:HG23	2.20	0.42
3:C:318:VAL:O	3:C:320:LYS:NZ	2.44	0.42
4:D:349:SER:HB3	4:D:352:LEU:HD13	2.01	0.42
4:D:585:GLY:HA3	4:D:610:ILE:HG23	2.01	0.42
4:D:1282:SER:O	4:D:1286:GLU:HG3	2.19	0.42
6:F:251:PHE:CD1	7:G:304:LYS:HE3	2.55	0.42
6:F:540:TRP:HB2	6:F:541:TYR:CE2	2.55	0.42
6:F:776:LEU:HA	6:F:779:PHE:CB	2.47	0.42
9:I:207:LYS:HG3	9:I:270:TRP:CZ2	2.54	0.42
9:I:405:GLN:HG3	9:I:424:ARG:H	1.85	0.42
9:I:831:LEU:CB	5:N:1:MET:HB2	2.39	0.42
1:J:483:SER:O	1:J:487:TRP:HD1	2.02	0.42
2:K:224:PRO:HD3	2:K:266:PHE:CG	2.55	0.42
4:M:1218:LEU:HD11	4:M:1226:THR:HB	2.00	0.42
4:M:1401:ASN:OD1	4:M:1403:HIS:HB3	2.19	0.42
6:O:641:LEU:O	6:O:646:TYR:N	2.51	0.42
8:Q:570:ARG:O	8:Q:574:GLU:OE1	2.38	0.42
10:S:126:THR:O	10:S:130:VAL:HG23	2.19	0.42
10:S:266:LYS:CD	10:S:378:SER:HB3	2.49	0.42
10:S:499:SER:HB2	10:S:534:ASN:ND2	2.33	0.42
10:S:532:LYS:CA	10:S:552:TRP:HZ3	2.32	0.42
10:S:756:TRP:HB3	10:S:838:HIS:HB3	2.00	0.42
10:S:1222:GLN:HG2	10:S:1224:VAL:HG22	2.02	0.42
10:S:1282:GLU:HA	10:S:1285:ARG:NH2	2.35	0.42
10:S:1317:HIS:HD2	10:S:1398:ILE:HD11	1.83	0.42
10:S:1902:ILE:HG23	10:S:1906:HIS:HD2	1.83	0.42
10:S:1902:ILE:O	10:S:1905:ARG:HG3	2.19	0.42
10:S:1907:LEU:HD13	10:S:2005:LEU:HB2	2.02	0.42
11:T:584:TRP:HA	11:T:587:LYS:HG2	2.02	0.42
11:T:704:GLN:O	11:T:708:LEU:HG	2.20	0.42
11:T:858:LEU:HB2	11:T:884:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:206:VAL:O	12:U:210:THR:OG1	2.25	0.42
12:U:603:THR:C	12:U:604:ARG:HD3	2.39	0.42
1:A:497:ALA:CB	1:A:530:SER:HB2	2.50	0.42
1:A:514:PHE:HE2	1:A:540:ARG:HA	1.84	0.42
1:A:550:GLN:NE2	1:A:553:GLU:OE2	2.44	0.42
2:B:15:SER:O	2:B:350:SER:HB2	2.20	0.42
2:B:100:ILE:O	2:B:115:ARG:NH1	2.37	0.42
2:B:210:VAL:H	2:B:214:ARG:HD2	1.85	0.42
4:D:1292:ILE:HA	4:D:1295:LEU:HD12	2.02	0.42
4:D:1297:LYS:HG3	4:D:1298:TYR:N	2.34	0.42
6:F:250:SER:HG	7:G:265:TRP:HH2	1.66	0.42
6:F:387:TRP:CD1	6:F:644:LEU:HD13	2.55	0.42
6:F:488:ASP:O	6:F:492:LEU:HG	2.19	0.42
6:F:811:MET:SD	6:F:812:LEU:N	2.93	0.42
8:H:637:LYS:NZ	8:H:658:GLU:HG3	2.34	0.42
1:J:593:GLU:HA	1:J:596:TYR:CD2	2.55	0.42
1:J:603:GLU:HA	1:J:606:MET:HB3	2.02	0.42
3:L:105:LYS:HD3	3:L:108:THR:OG1	2.20	0.42
4:M:260:SER:O	4:M:265:ARG:NE	2.51	0.42
4:M:469:ARG:HG3	4:M:470:PHE:CD2	2.54	0.42
4:M:797:LEU:HD11	4:M:888:TYR:OH	2.19	0.42
4:M:844:GLY:HA3	4:M:850:ARG:CZ	2.50	0.42
4:M:1183:GLU:O	4:M:1187:VAL:HG23	2.20	0.42
6:O:339:PRO:HB2	6:O:724:TRP:CZ2	2.54	0.42
6:O:406:ASN:HB3	6:O:548:THR:HA	2.01	0.42
6:O:472:MET:HE1	6:O:509:LEU:HD22	2.02	0.42
6:O:825:LEU:HB3	6:O:871:GLN:NE2	2.34	0.42
7:P:72:ASN:HB2	7:P:88:GLU:CB	2.46	0.42
7:P:241:ILE:HG21	7:P:296:TRP:HE1	1.85	0.42
8:Q:162:VAL:O	8:Q:165:LEU:HB3	2.18	0.42
8:Q:237:PRO:HG2	8:Q:461:ILE:HG12	2.02	0.42
8:Q:242:LYS:HD2	8:Q:242:LYS:N	2.35	0.42
8:Q:365:ARG:O	8:Q:369:LEU:HG	2.19	0.42
8:Q:377:ASP:OD1	8:Q:378:ALA:N	2.52	0.42
8:Q:404:ARG:N	8:Q:404:ARG:HD2	2.35	0.42
9:R:570:PRO:HB3	9:R:668:ASN:HB2	2.02	0.42
10:S:233:TYR:CE1	10:S:273:MET:HG3	2.55	0.42
10:S:641:ALA:CB	10:S:700:LEU:HD13	2.48	0.42
10:S:1013:SER:HA	10:S:1079:ARG:NH2	2.32	0.42
10:S:1721:PHE:HB3	10:S:1752:MET:SD	2.59	0.42
10:S:1795:ARG:O	10:S:1796:GLN:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:52:PRO:HD3	11:T:77:PRO:HA	2.02	0.42
11:T:144:HIS:CD2	11:T:145:LEU:HG	2.55	0.42
12:U:338:VAL:HG22	12:U:341:ARG:NH2	2.31	0.42
12:U:407:VAL:HG12	12:U:454:PHE:CD1	2.55	0.42
12:U:623:PHE:CD2	12:U:624:GLU:HG3	2.55	0.42
12:U:709:ASP:OD1	12:U:710:LEU:N	2.53	0.42
1:A:127:ALA:HA	1:A:130:TYR:CD2	2.55	0.42
1:A:391:TYR:HE1	1:A:395:ASN:OD1	2.03	0.42
1:A:430:ARG:HG2	1:A:431:GLU:OE2	2.20	0.42
1:A:576:LEU:HD12	1:A:602:LEU:HD21	2.02	0.42
2:B:3:ASP:CB	2:B:372:ARG:HB3	2.49	0.42
2:B:3:ASP:HB3	2:B:372:ARG:O	2.20	0.42
2:B:10:VAL:HG12	2:B:366:ALA:CA	2.48	0.42
2:B:47:VAL:HB	2:B:69:LEU:HB2	2.02	0.42
2:B:303:SER:O	2:B:306:ASN:ND2	2.45	0.42
4:D:334:ILE:HD13	4:D:368:GLN:HE22	1.85	0.42
4:D:645:ILE:HD12	4:D:730:ARG:NH2	2.35	0.42
4:D:663:ASN:HA	4:D:666:GLN:OE1	2.20	0.42
4:D:677:PHE:O	4:D:680:GLN:HG3	2.20	0.42
4:D:1004:PHE:CZ	4:D:1036:LEU:HD12	2.53	0.42
4:D:1078:ASN:HB2	4:D:1081:GLU:CG	2.46	0.42
7:G:54:ARG:CG	7:G:55:GLY:N	2.82	0.42
7:G:112:ALA:HB2	7:G:158:TRP:CH2	2.55	0.42
8:H:349:MET:HE2	8:H:352:GLU:HG3	2.00	0.42
8:H:763:GLN:HB2	8:H:790:PHE:HD1	1.85	0.42
8:H:862:TYR:O	8:H:866:LEU:HG	2.20	0.42
8:H:864:ASP:O	8:H:868:LEU:HG	2.20	0.42
1:J:548:GLN:HG2	1:J:550:GLN:OE1	2.20	0.42
2:K:195:TRP:HE1	2:K:204:PRO:HA	1.85	0.42
2:K:267:HIS:HD1	2:K:270:ASN:H	1.68	0.42
3:L:85:VAL:HG11	3:L:153:TRP:CH2	2.54	0.42
4:M:417:ASP:C	9:R:183:LEU:HD21	2.40	0.42
4:M:460:TYR:CG	4:M:531:TRP:HB3	2.54	0.42
4:M:685:GLU:HB2	4:M:873:ASN:HD21	1.83	0.42
4:M:1186:TYR:O	4:M:1190:GLN:HG3	2.20	0.42
5:N:306:ARG:HD2	5:N:307:ARG:HH11	1.85	0.42
6:O:378:LEU:HD12	6:O:416:TRP:HZ2	1.84	0.42
9:R:480:LEU:O	9:R:483:VAL:HG12	2.20	0.42
9:R:931:GLU:HB2	9:R:932:LYS:HZ2	1.84	0.42
10:S:741:PHE:HA	10:S:744:TYR:HD1	1.85	0.42
10:S:1016:ASN:HD22	10:S:1079:ARG:HH22	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1233:VAL:O	10:S:1237:GLU:HG2	2.20	0.42
10:S:1355:PRO:HB3	10:S:1360:GLY:CA	2.49	0.42
12:U:171:GLY:N	12:U:540:PHE:HA	2.34	0.42
12:U:672:ALA:HB2	12:U:690:PHE:HE2	1.85	0.42
1:A:420:ASP:O	1:A:423:ASP:HB3	2.19	0.42
1:A:631:GLU:O	1:A:635:LEU:HG	2.19	0.42
2:B:162:ARG:NH2	2:B:164:ILE:HA	2.34	0.42
4:D:701:LEU:HA	4:D:704:LEU:HB3	2.01	0.42
4:D:1087:HIS:HB3	4:D:1096:ALA:HB2	2.01	0.42
4:D:1135:ARG:HB3	4:D:1138:TYR:CD2	2.55	0.42
5:E:1:MET:H2	5:E:251:ALA:N	2.18	0.42
6:F:382:LEU:O	6:F:386:LEU:HG	2.20	0.42
6:F:393:LEU:HA	6:F:396:SER:OG	2.19	0.42
7:G:218:ALA:HB2	7:G:267:VAL:CG2	2.50	0.42
8:H:180:LEU:CD2	8:H:201:LEU:HD13	2.48	0.42
8:H:242:LYS:HD2	8:H:242:LYS:N	2.35	0.42
8:H:292:THR:HA	8:H:295:THR:HG22	2.01	0.42
8:H:860:LYS:HE2	8:H:860:LYS:HB2	1.91	0.42
9:I:392:MET:CE	9:I:394:LEU:HB2	2.50	0.42
9:I:661:ARG:CD	9:I:681:GLN:HG3	2.45	0.42
9:I:937:LEU:HD13	9:I:957:LEU:HB3	2.01	0.42
1:J:489:ILE:HB	2:K:26:SER:CA	2.49	0.42
1:J:490:ARG:HH11	2:K:25:SER:HA	1.84	0.42
2:K:16:ARG:NH2	2:K:45:VAL:HG22	2.35	0.42
2:K:20:ARG:HG3	2:K:103:HIS:CE1	2.54	0.42
3:L:272:ALA:N	3:L:273:GLN:OE1	2.53	0.42
4:M:448:LEU:HB3	4:M:459:ALA:HB1	2.02	0.42
4:M:1334:ALA:O	4:M:1337:LEU:HB3	2.20	0.42
5:N:150:ARG:HD3	5:N:152:TRP:CZ2	2.55	0.42
5:N:306:ARG:HD2	5:N:307:ARG:NH1	2.34	0.42
6:O:250:SER:N	7:P:265:TRP:HZ3	2.18	0.42
6:O:250:SER:H	7:P:265:TRP:HZ3	1.66	0.42
6:O:393:LEU:HA	6:O:396:SER:OG	2.20	0.42
6:O:720:LEU:HD23	6:O:725:ILE:HD11	2.01	0.42
8:Q:181:LYS:CD	8:Q:201:LEU:HD21	2.48	0.42
8:Q:209:VAL:HB	8:Q:264:TRP:HZ2	1.85	0.42
8:Q:222:ILE:HD11	8:Q:551:LEU:HD22	2.02	0.42
8:Q:685:ALA:O	8:Q:688:ARG:HB2	2.20	0.42
8:Q:687:MET:HA	8:Q:690:PHE:CD2	2.55	0.42
8:Q:748:HIS:CE1	8:Q:752:ASN:HD21	2.38	0.42
9:R:64:HIS:CD2	9:R:65:PRO:HD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:270:TRP:CZ3	9:R:276:PHE:HB2	2.54	0.42
9:R:754:SER:C	9:R:758:GLY:HA3	2.40	0.42
9:R:931:GLU:HG2	9:R:967:PHE:CZ	2.55	0.42
10:S:1090:SER:O	10:S:1094:HIS:ND1	2.52	0.42
10:S:1234:LEU:O	10:S:1238:VAL:HG13	2.20	0.42
10:S:1279:HIS:HA	10:S:1282:GLU:OE1	2.19	0.42
10:S:1316:LEU:O	10:S:1320:ILE:HG22	2.19	0.42
10:S:1436:GLU:H	10:S:1450:ARG:HH22	1.68	0.42
10:S:1877:ARG:NH2	10:S:1880:LYS:HD2	2.35	0.42
11:T:86:PHE:CE2	11:T:88:TRP:HB3	2.55	0.42
11:T:152:PHE:CE1	11:T:211:LEU:HD23	2.55	0.42
11:T:715:LYS:HG3	11:T:716:TRP:CD1	2.55	0.42
12:U:543:THR:HG22	12:U:544:ASP:N	2.35	0.42
12:U:546:ARG:HA	12:U:549:LEU:CD1	2.49	0.42
1:A:25:PHE:CG	1:A:26:SER:N	2.88	0.41
1:A:135:SER:O	1:A:138:SER:OG	2.31	0.41
1:A:357:GLN:O	1:A:361:GLU:HG3	2.20	0.41
1:A:441:PRO:HA	3:C:23:HIS:CE1	2.54	0.41
1:A:445:GLU:HA	2:B:25:SER:CB	2.50	0.41
1:A:532:ARG:NH1	1:A:568:PRO:HD3	2.34	0.41
1:A:569:CYS:N	1:A:605:ARG:HH21	2.18	0.41
1:A:627:ASN:O	1:A:631:GLU:OE1	2.38	0.41
3:C:166:SER:OG	3:C:185:GLY:O	2.38	0.41
4:D:939:ARG:H	4:D:939:ARG:HD3	1.85	0.41
4:D:1143:GLN:C	4:D:1174:ILE:HG13	2.40	0.41
5:E:201:ILE:HG13	5:E:202:LEU:N	2.35	0.41
6:F:684:PRO:HA	6:F:687:ARG:NE	2.35	0.41
6:F:841:LEU:HD21	8:Q:471:ARG:NH1	2.35	0.41
7:G:21:MET:HE1	7:G:28:LEU:HB2	2.01	0.41
7:G:259:LYS:HE2	12:U:280:GLN:CG	2.50	0.41
8:H:820:MET:O	8:H:837:MET:HE3	2.20	0.41
1:J:573:LEU:O	1:J:577:LEU:HG	2.20	0.41
2:K:226:GLN:HB2	2:K:229:VAL:HB	2.01	0.41
2:K:360:CYS:SG	2:K:368:TYR:HB2	2.60	0.41
3:L:42:SER:HB3	3:L:44:ASN:OD1	2.20	0.41
4:M:242:LYS:HD3	4:M:313:TYR:HE1	1.85	0.41
4:M:611:GLN:O	4:M:615:MET:HG3	2.20	0.41
4:M:640:ARG:O	4:M:643:GLU:HG3	2.20	0.41
4:M:649:LEU:HB2	4:M:658:MET:CE	2.50	0.41
4:M:725:ARG:HA	4:M:728:ILE:HD12	2.02	0.41
5:N:125:GLY:HA3	5:N:145:ASP:OD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:293:SER:H	10:S:724:LEU:HA	1.85	0.41
6:O:530:ASP:O	6:O:534:THR:HG23	2.20	0.41
6:O:603:HIS:HD2	6:O:606:LYS:HZ1	1.67	0.41
6:O:646:TYR:HA	6:O:648:HIS:CE1	2.55	0.41
7:P:20:GLN:CB	7:P:65:TRP:HE1	2.18	0.41
7:P:110:CYS:O	7:P:120:LEU:HA	2.20	0.41
8:Q:433:CYS:CB	8:Q:438:ASP:HB3	2.47	0.41
8:Q:443:HIS:CE1	8:Q:486:GLU:HB3	2.55	0.41
8:Q:718:TRP:HD1	8:Q:724:ASP:OD1	2.02	0.41
9:R:559:PRO:CB	9:R:565:TRP:HB3	2.50	0.41
9:R:1054:LYS:O	9:R:1058:LEU:HG	2.19	0.41
10:S:154:LYS:NZ	10:S:162:HIS:H	2.17	0.41
10:S:357:ALA:O	10:S:361:ILE:HG12	2.20	0.41
10:S:383:GLU:HG2	10:S:452:PHE:CD2	2.55	0.41
10:S:531:LEU:HA	10:S:534:ASN:HB2	2.02	0.41
10:S:609:GLU:OE2	10:S:612:ARG:NH2	2.40	0.41
11:T:474:ASN:HA	11:T:491:THR:OG1	2.20	0.41
12:U:35:GLU:O	12:U:38:GLN:HB3	2.20	0.41
1:A:329:SER:HA	1:A:332:MET:HE3	2.02	0.41
1:A:347:LEU:O	1:A:350:ALA:HB3	2.20	0.41
1:A:541:GLU:HA	1:A:544:ARG:NE	2.34	0.41
3:C:78:SER:OG	3:C:79:PHE:N	2.53	0.41
4:D:410:TRP:CD1	4:D:424:HIS:HB3	2.55	0.41
6:F:622:SER:HB3	6:F:628:PRO:HB3	2.01	0.41
6:F:655:GLY:HA2	6:F:658:HIS:ND1	2.35	0.41
7:G:242:TRP:CZ2	7:G:254:PRO:HB3	2.56	0.41
8:H:173:CYS:SG	8:H:204:LEU:HD11	2.60	0.41
8:H:437:GLU:O	8:H:441:TRP:HB2	2.21	0.41
8:H:443:HIS:CE1	8:H:486:GLU:HB3	2.55	0.41
8:H:492:LYS:HB3	8:H:493:LYS:H	1.73	0.41
9:I:242:MET:CE	9:I:243:LEU:H	2.32	0.41
9:I:782:ARG:O	9:I:785:LEU:HB3	2.20	0.41
9:I:1086:VAL:O	9:I:1090:GLN:OE1	2.38	0.41
1:J:293:LEU:HA	1:J:296:ARG:HG3	2.02	0.41
1:J:441:PRO:HB2	3:L:25:ARG:HD2	2.02	0.41
1:J:551:PHE:HD2	1:J:590:PHE:CZ	2.38	0.41
1:J:557:LEU:HD23	1:J:558:LEU:HD22	2.01	0.41
3:L:289:THR:O	3:L:289:THR:HG22	2.20	0.41
4:M:1185:GLU:OE2	4:M:1192:ARG:NH2	2.53	0.41
4:M:1314:LEU:HD13	4:M:1314:LEU:HA	1.94	0.41
4:M:1383:PHE:O	4:M:1385:TYR:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:287:PHE:HE1	10:S:575:ASN:OD1	2.03	0.41
6:O:455:ARG:CZ	6:O:459:LYS:HE2	2.50	0.41
6:O:622:SER:OG	6:O:628:PRO:HA	2.21	0.41
6:O:671:TRP:CZ2	6:O:710:LYS:HD2	2.55	0.41
7:P:35:ARG:HH22	7:P:60:VAL:HG23	1.84	0.41
8:Q:803:ASP:O	8:Q:807:LYS:HG2	2.19	0.41
9:R:812:ASN:HB3	9:R:815:ARG:CD	2.50	0.41
10:S:53:LEU:O	10:S:54:PHE:HB2	2.20	0.41
10:S:190:ILE:HA	10:S:225:GLN:OE1	2.20	0.41
10:S:272:LEU:O	10:S:276:LEU:HG	2.19	0.41
10:S:502:LEU:H	10:S:547:GLY:N	2.17	0.41
10:S:1113:LEU:HA	10:S:1113:LEU:HD23	1.61	0.41
10:S:1918:ASP:OD2	10:S:1955:SER:OG	2.37	0.41
11:T:129:VAL:HG12	11:T:158:VAL:HG23	2.02	0.41
11:T:187:LEU:HD23	11:T:210:HIS:HB2	2.02	0.41
11:T:532:VAL:HB	11:T:537:LEU:HD11	2.02	0.41
12:U:171:GLY:O	12:U:542:PRO:HB2	2.19	0.41
12:U:441:PHE:O	12:U:445:LEU:HG	2.20	0.41
1:A:446:LYS:HE2	1:A:447:LYS:HZ3	1.85	0.41
1:A:476:LEU:HB2	1:A:484:ALA:HB2	2.02	0.41
4:D:40:VAL:HG21	11:T:90:LYS:NZ	2.35	0.41
4:D:329:PRO:HD2	11:T:115:LYS:NZ	2.35	0.41
4:D:413:TRP:HE3	4:D:421:VAL:HG23	1.85	0.41
4:D:672:ILE:HA	4:D:675:ILE:HG12	2.02	0.41
4:D:1107:LEU:HB3	4:D:1120:GLN:NE2	2.35	0.41
4:D:1128:LEU:HA	4:D:1131:LEU:HB2	2.02	0.41
4:D:1218:LEU:HD13	4:D:1227:ALA:HA	2.01	0.41
5:E:223:ARG:HH12	5:E:264:GLU:HB2	1.84	0.41
6:F:668:VAL:HG23	6:F:670:LEU:HD23	2.01	0.41
6:F:911:GLY:HA2	6:F:914:GLN:HE22	1.86	0.41
7:G:256:LEU:H	7:G:256:LEU:HD23	1.85	0.41
8:H:147:TYR:N	8:H:148:PRO:HD2	2.35	0.41
8:H:757:HIS:CE1	8:H:797:LEU:HB2	2.55	0.41
8:H:843:LEU:O	8:H:846:PRO:HD2	2.20	0.41
9:I:772:LYS:O	9:I:775:PRO:HD2	2.21	0.41
9:I:794:ASN:HA	9:I:797:LEU:HG	2.02	0.41
9:I:853:PHE:O	9:I:857:VAL:HG23	2.21	0.41
9:I:857:VAL:O	9:I:861:GLU:OE1	2.38	0.41
9:I:1092:LEU:HB3	9:I:1097:ILE:HB	2.01	0.41
1:J:70:LYS:CA	2:K:245:ARG:HH21	2.31	0.41
2:K:287:ASP:HB2	2:K:294:LYS:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:46:TYR:CD1	4:M:573:PRO:HA	2.55	0.41
4:M:522:GLU:O	4:M:526:ILE:HG13	2.20	0.41
4:M:1077:HIS:HB3	4:M:1079:TYR:CE2	2.55	0.41
4:M:1088:ILE:HD12	4:M:1088:ILE:H	1.85	0.41
4:M:1363:LYS:NZ	4:M:1373:PRO:HA	2.35	0.41
5:N:106:ILE:HD13	5:N:106:ILE:HA	1.93	0.41
5:N:213:SER:CB	5:N:256:MET:HA	2.50	0.41
6:O:325:LEU:HD22	6:O:636:HIS:HE1	1.85	0.41
6:O:342:HIS:CG	6:O:687:ARG:HH12	2.38	0.41
6:O:382:LEU:O	6:O:386:LEU:HG	2.20	0.41
6:O:444:TYR:CD1	6:O:449:ARG:HD3	2.55	0.41
6:O:540:TRP:HB2	6:O:541:TYR:CE2	2.55	0.41
6:O:774:ARG:HE	6:O:777:ARG:NH1	2.17	0.41
8:Q:693:SER:HB2	8:Q:695:LYS:NZ	2.35	0.41
8:Q:784:LYS:NZ	8:Q:787:GLU:OE1	2.29	0.41
9:R:496:ARG:HB3	9:R:507:LYS:HD2	2.02	0.41
9:R:555:ILE:HG13	9:R:556:ASP:N	2.35	0.41
10:S:285:GLU:CD	10:S:487:ARG:HG2	2.39	0.41
10:S:315:GLN:OE1	10:S:356:MET:HE2	2.19	0.41
10:S:501:LEU:HD12	10:S:546:GLY:HA2	2.02	0.41
10:S:1104:ILE:HA	10:S:1107:MET:CE	2.51	0.41
10:S:1268:ASN:O	10:S:1272:GLN:OE1	2.39	0.41
11:T:68:TYR:CE1	11:T:115:LYS:HA	2.54	0.41
11:T:858:LEU:HD22	11:T:884:ASN:CB	2.50	0.41
12:U:174:GLY:N	12:U:544:ASP:OD2	2.53	0.41
1:A:26:SER:O	1:A:33:LEU:CB	2.48	0.41
1:A:435:LEU:O	1:A:438:GLU:HG3	2.20	0.41
2:B:115:ARG:H	2:B:158:ARG:NE	2.18	0.41
2:B:183:ILE:O	2:B:194:LEU:HD12	2.19	0.41
2:B:307:ILE:O	2:B:308:SER:OG	2.34	0.41
3:C:142:TYR:HB3	3:C:153:TRP:HE3	1.85	0.41
4:D:47:MET:HB2	4:D:574:CYS:SG	2.61	0.41
4:D:1077:HIS:CG	4:D:1078:ASN:N	2.87	0.41
4:D:1180:ARG:HG3	4:D:1184:LYS:HE2	2.03	0.41
6:F:613:TYR:CA	12:U:187:ARG:NH2	2.83	0.41
8:H:419:TYR:CD1	8:H:422:LEU:HD12	2.53	0.41
9:I:655:GLN:HE22	9:I:656:LEU:HG	1.85	0.41
9:I:804:LEU:HD11	9:I:823:TYR:CD2	2.55	0.41
9:I:1121:ASN:HB3	9:I:1124:PHE:HB3	2.03	0.41
1:J:569:CYS:HA	1:J:572:TRP:CE3	2.55	0.41
1:J:626:ASP:O	1:J:630:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:74:HIS:CE1	2:K:93:SER:HB2	2.55	0.41
2:K:132:THR:N	2:K:144:VAL:O	2.54	0.41
2:K:153:PHE:CE1	2:K:160:VAL:HA	2.55	0.41
2:K:273:HIS:NE2	2:K:374:PHE:O	2.53	0.41
3:L:61:TRP:HD1	3:L:78:SER:HA	1.85	0.41
3:L:86:TRP:HE1	3:L:105:LYS:HZ3	1.67	0.41
3:L:306:LYS:O	3:L:314:LYS:HG2	2.19	0.41
4:M:159:GLN:OE1	4:M:210:ARG:HB3	2.20	0.41
4:M:456:PRO:HG2	4:M:524:ARG:O	2.21	0.41
4:M:484:LYS:HD3	9:R:457:LYS:HB2	2.02	0.41
4:M:705:TYR:OH	4:M:852:LEU:HD13	2.21	0.41
4:M:1407:ILE:O	4:M:1411:LEU:HD23	2.20	0.41
5:N:126:TYR:N	5:N:145:ASP:OD2	2.53	0.41
5:N:225:GLY:HA3	5:N:257:PHE:CZ	2.55	0.41
6:O:335:ASP:OD2	6:O:344:ARG:HG2	2.20	0.41
6:O:382:LEU:HA	6:O:382:LEU:HD23	1.70	0.41
6:O:488:ASP:O	6:O:492:LEU:HG	2.19	0.41
8:Q:505:ILE:HG23	8:Q:508:LYS:HE3	2.02	0.41
8:Q:742:ARG:O	8:Q:745:LEU:HG	2.20	0.41
8:Q:827:THR:O	8:Q:831:PRO:HD3	2.20	0.41
10:S:393:VAL:O	10:S:397:PRO:HD3	2.20	0.41
10:S:1285:ARG:O	10:S:1286:GLN:C	2.59	0.41
10:S:1421:TYR:OH	10:S:1483:ASP:OD2	2.29	0.41
11:T:635:CYS:O	11:T:638:ALA:N	2.53	0.41
11:T:697:ILE:HG23	11:T:701:TYR:HE2	1.84	0.41
12:U:57:ASN:CG	12:U:78:LEU:HD22	2.41	0.41
12:U:99:GLN:HG2	12:U:100:GLY:N	2.35	0.41
12:U:262:TYR:HA	12:U:265:GLN:CD	2.40	0.41
12:U:263:LEU:HD11	12:U:328:ARG:HH22	1.85	0.41
1:A:514:PHE:CE2	1:A:540:ARG:HD2	2.55	0.41
2:B:242:TRP:HA	2:B:249:MET:O	2.20	0.41
3:C:73:VAL:O	3:C:74:LEU:HD12	2.20	0.41
3:C:91:GLY:C	3:C:92:GLU:HG3	2.41	0.41
3:C:211:LYS:HE2	3:C:213:GLU:C	2.40	0.41
5:E:174:HIS:HB2	5:E:216:TRP:CZ2	2.55	0.41
8:H:177:ILE:HD12	8:H:208:MET:CE	2.50	0.41
9:I:139:PRO:HD3	9:I:177:ARG:HD2	2.01	0.41
9:I:1100:LYS:HA	9:I:1136:MET:HG2	2.01	0.41
1:J:409:PHE:CD1	1:J:415:TRP:HA	2.47	0.41
2:K:239:LEU:HD11	2:K:335:LEU:HD11	2.01	0.41
3:L:87:GLU:CG	3:L:104:VAL:HB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:79:TYR:HE1	4:M:215:THR:HG22	1.85	0.41
4:M:197:ASP:C	4:M:199:ASN:H	2.24	0.41
4:M:207:ILE:HA	4:M:208:PRO:HA	1.81	0.41
4:M:587:HIS:O	4:M:591:VAL:HG23	2.20	0.41
4:M:634:HIS:ND1	4:M:636:GLN:OE1	2.51	0.41
4:M:1106:ARG:HE	4:M:1149:VAL:CG2	2.34	0.41
4:M:1125:LEU:O	4:M:1128:LEU:HB3	2.20	0.41
6:O:355:TYR:O	6:O:359:VAL:HG23	2.21	0.41
6:O:435:GLU:HB2	6:O:436:ARG:NH1	2.35	0.41
6:O:839:VAL:HG13	6:O:856:MET:HG2	2.01	0.41
8:Q:152:LYS:O	8:Q:156:GLU:OE1	2.38	0.41
9:R:960:LEU:O	9:R:963:LEU:HG	2.20	0.41
9:R:1051:GLU:CD	9:R:1104:PRO:HD3	2.40	0.41
10:S:595:ILE:HG13	10:S:596:ALA:N	2.35	0.41
10:S:799:GLY:O	10:S:800:PHE:C	2.58	0.41
10:S:799:GLY:C	10:S:803:MET:HE1	2.41	0.41
10:S:803:MET:O	10:S:806:LEU:N	2.53	0.41
10:S:1934:PHE:HZ	10:S:1950:ARG:HH21	1.68	0.41
11:T:466:GLN:O	11:T:472:THR:OG1	2.23	0.41
11:T:839:TRP:O	11:T:843:GLN:HG2	2.20	0.41
12:U:441:PHE:CZ	12:U:445:LEU:HD11	2.56	0.41
12:U:728:VAL:HG13	12:U:796:PHE:HB2	2.02	0.41
1:A:344:ASP:OD1	1:A:344:ASP:N	2.53	0.41
1:A:370:TRP:CD1	1:A:404:TYR:CE1	3.06	0.41
1:A:453:ARG:HA	1:A:456:GLU:OE2	2.20	0.41
1:A:565:ARG:C	1:A:565:ARG:HH11	2.24	0.41
2:B:73:LYS:HZ2	6:O:278:ARG:H	1.69	0.41
2:B:104:HIS:HB3	2:B:107:ASN:HB2	2.03	0.41
2:B:184:LEU:HD21	2:B:194:LEU:HD13	2.02	0.41
2:B:346:LEU:HB2	2:B:364:ALA:N	2.36	0.41
4:D:41:ASN:HD21	4:D:429:ARG:NH1	2.16	0.41
4:D:310:MET:SD	4:D:382:TYR:HB2	2.59	0.41
4:D:870:TRP:HB3	4:D:873:ASN:HB2	2.03	0.41
4:D:1235:LYS:HA	4:D:1235:LYS:HE2	2.03	0.41
6:F:339:PRO:HB2	6:F:724:TRP:HE1	1.85	0.41
6:F:406:ASN:HB3	6:F:548:THR:HA	2.01	0.41
6:F:435:GLU:HB2	6:F:436:ARG:NH1	2.36	0.41
6:F:492:LEU:HB3	6:F:494:VAL:HG23	2.02	0.41
8:H:212:ARG:NH2	8:H:267:SER:OG	2.54	0.41
8:H:525:TRP:HB3	8:H:533:LEU:HD21	2.02	0.41
9:I:576:PHE:CZ	11:T:642:GLU:O	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:822:GLU:HA	9:I:825:GLN:NE2	2.36	0.41
1:J:594:GLN:HA	1:J:597:GLU:OE2	2.20	0.41
1:J:605:ARG:HG2	1:J:609:LYS:NZ	2.35	0.41
1:J:648:GLU:O	1:J:651:LEU:HB2	2.20	0.41
2:K:208:PHE:HD1	2:K:248:LYS:HG3	1.85	0.41
4:M:392:THR:HG22	4:M:393:ASN:H	1.86	0.41
4:M:615:MET:HA	4:M:618:ASP:OD2	2.20	0.41
4:M:863:SER:O	4:M:867:GLN:HG3	2.21	0.41
4:M:1094:ARG:HA	4:M:1131:LEU:CD2	2.51	0.41
4:M:1209:SER:HA	4:M:1213:GLU:OE1	2.21	0.41
4:M:1351:GLU:O	4:M:1352:LEU:C	2.58	0.41
5:N:23:GLU:O	5:N:36:LEU:HD12	2.21	0.41
6:O:424:ARG:O	6:O:428:GLU:OE1	2.38	0.41
6:O:485:GLN:O	6:O:488:ASP:HB2	2.20	0.41
6:O:606:LYS:HE2	6:O:606:LYS:HB2	1.87	0.41
6:O:619:LEU:HD13	6:O:634:SER:O	2.20	0.41
6:O:684:PRO:N	6:O:687:ARG:HH21	2.19	0.41
6:O:720:LEU:HD12	6:O:721:PRO:HD2	2.02	0.41
8:Q:365:ARG:O	8:Q:368:THR:OG1	2.25	0.41
8:Q:574:GLU:C	8:Q:575:LYS:HG3	2.41	0.41
8:Q:703:PHE:HA	8:Q:706:ILE:HG12	2.02	0.41
8:Q:805:LYS:HA	8:Q:808:ILE:HD12	2.02	0.41
9:R:304:ARG:O	9:R:307:ARG:HB2	2.21	0.41
9:R:565:TRP:HA	9:R:568:SER:HB3	2.02	0.41
9:R:716:THR:HA	9:R:719:LYS:HZ3	1.84	0.41
9:R:783:THR:O	9:R:786:ILE:HG22	2.20	0.41
9:R:800:TYR:HD2	9:R:823:TYR:HD1	1.68	0.41
9:R:839:GLN:HB3	9:R:842:TRP:HD1	1.82	0.41
10:S:374:VAL:HG21	10:S:446:LEU:HD21	2.01	0.41
10:S:511:LEU:HB3	10:S:515:ARG:HH12	1.86	0.41
10:S:671:GLN:C	10:S:674:ARG:HH12	2.24	0.41
10:S:674:ARG:NE	10:S:674:ARG:HA	2.35	0.41
10:S:1665:SER:O	10:S:1669:LEU:HG	2.21	0.41
11:T:633:LEU:HB3	11:T:655:GLN:NE2	2.34	0.41
11:T:951:LEU:HG	11:T:955:HIS:HE1	1.78	0.41
12:U:31:ARG:HH22	12:U:35:GLU:CG	2.32	0.41
12:U:117:SER:O	12:U:121:THR:HG23	2.21	0.41
12:U:231:MET:HA	12:U:234:VAL:HG22	2.03	0.41
12:U:415:LEU:HD11	12:U:466:VAL:HG22	2.03	0.41
12:U:674:ARG:HB3	12:U:678:GLN:OE1	2.20	0.41
12:U:693:LEU:O	12:U:696:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:ASN:HB3	1:A:74:GLU:OE1	2.21	0.41
1:A:545:MET:HB3	1:A:554:ALA:HB2	2.02	0.41
2:B:245:ARG:NH1	2:B:246:HIS:CD2	2.88	0.41
2:B:346:LEU:HD23	10:S:747:ARG:HH21	1.85	0.41
3:C:106:ARG:NH1	3:C:150:LEU:HB2	2.34	0.41
3:C:316:ILE:O	3:C:316:ILE:HG22	2.21	0.41
4:D:1151:GLU:HB3	4:D:1152:ARG:HH11	1.86	0.41
4:D:1307:HIS:CE1	4:D:1328:TYR:OH	2.73	0.41
5:E:18:TYR:H	5:E:317:ARG:NH1	2.19	0.41
6:F:455:ARG:CZ	6:F:459:LYS:HE2	2.50	0.41
6:F:721:PRO:HB2	6:F:723:GLN:HG2	2.03	0.41
6:F:757:LYS:O	6:F:760:THR:OG1	2.33	0.41
6:F:913:THR:HA	11:T:997:TYR:OH	2.20	0.41
7:G:62:GLN:HG3	7:G:109:VAL:HG22	2.03	0.41
7:G:163:ILE:HD11	7:G:219:TRP:HE1	1.86	0.41
8:H:773:PHE:HZ	1:J:563:THR:HG23	1.82	0.41
9:I:783:THR:O	9:I:787:GLU:OE1	2.38	0.41
9:I:971:VAL:HG12	9:I:975:LYS:HZ3	1.85	0.41
9:I:979:ILE:HA	9:I:982:GLN:HG2	2.02	0.41
1:J:23:ILE:HD12	1:J:35:TYR:O	2.20	0.41
1:J:65:SER:OG	1:J:66:PRO:HD2	2.21	0.41
1:J:113:MET:O	1:J:117:HIS:CG	2.73	0.41
1:J:474:GLN:NE2	1:J:478:ASN:OD1	2.52	0.41
3:L:240:VAL:HG12	3:L:242:THR:HG23	2.03	0.41
4:M:104:HIS:NE2	4:M:115:VAL:HB	2.36	0.41
4:M:374:LEU:HD22	4:M:382:TYR:HB3	2.02	0.41
4:M:1069:ALA:HB1	4:M:1080:TYR:CZ	2.56	0.41
4:M:1179:LEU:HB3	4:M:1180:ARG:NH2	2.36	0.41
4:M:1228:ILE:CD1	4:M:1297:LYS:HZ1	2.34	0.41
4:M:1356:TYR:O	4:M:1360:LEU:HG	2.21	0.41
4:M:1407:ILE:HD13	4:M:1410:LYS:NZ	2.36	0.41
5:N:147:HIS:HA	5:N:168:GLY:H	1.85	0.41
5:N:254:ALA:HA	5:N:270:THR:O	2.20	0.41
6:O:424:ARG:HA	6:O:427:GLU:HG2	2.02	0.41
6:O:747:LEU:HD12	6:O:783:LEU:HD23	2.02	0.41
7:P:61:TRP:HE1	7:P:105:SER:HG	1.68	0.41
7:P:70:TYR:HB2	7:P:73:ILE:HD11	2.03	0.41
8:Q:242:LYS:HB2	8:Q:376:HIS:CD2	2.54	0.41
8:Q:420:ALA:O	8:Q:429:LEU:HD11	2.19	0.41
8:Q:509:PHE:HD2	8:Q:518:LEU:HD13	1.86	0.41
9:R:125:SER:HA	9:R:129:LYS:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:367:ASP:HA	9:R:372:ILE:HA	2.01	0.41
9:R:562:ASP:N	9:R:565:TRP:HD1	2.11	0.41
9:R:818:ILE:HA	9:R:821:MET:HE3	2.03	0.41
9:R:889:TYR:CE2	9:R:901:GLN:HG2	2.55	0.41
10:S:13:LEU:O	10:S:138:GLY:HA3	2.21	0.41
10:S:196:ASN:N	10:S:196:ASN:OD1	2.54	0.41
10:S:507:TYR:OH	10:S:549:PRO:O	2.26	0.41
10:S:1268:ASN:HA	10:S:1271:LEU:HD12	2.03	0.41
10:S:1672:LEU:O	10:S:1676:THR:HG23	2.20	0.41
11:T:961:TYR:HD2	11:T:1001:LEU:HD13	1.86	0.41
1:A:394:ALA:HB2	3:C:309:TYR:CD2	2.56	0.41
2:B:15:SER:HB3	2:B:38:TRP:CA	2.50	0.41
2:B:179:ARG:HH22	2:B:181:THR:HG1	1.66	0.41
2:B:372:ARG:HH11	2:B:373:LEU:N	2.17	0.41
3:C:62:ARG:NH2	3:C:118:ASP:HA	2.35	0.41
3:C:270:THR:O	3:C:272:ALA:N	2.53	0.41
4:D:431:GLN:C	11:T:110:ASP:O	2.59	0.41
4:D:478:ALA:HA	4:D:481:ILE:HG22	2.01	0.41
4:D:1013:ASN:HD21	4:D:1043:ARG:HH22	1.68	0.41
4:D:1055:VAL:HG11	11:T:957:GLN:HA	2.03	0.41
4:D:1135:ARG:HH11	4:D:1136:PRO:HD2	1.85	0.41
4:D:1393:LEU:HD22	6:F:299:GLU:CD	2.41	0.41
5:E:134:SER:HB2	5:E:137:GLY:CA	2.51	0.41
6:F:383:CYS:HB3	6:F:637:MET:SD	2.42	0.41
6:F:648:HIS:CG	12:U:175:ARG:HH21	2.37	0.41
6:F:769:ILE:HG12	6:F:855:GLU:OE2	2.20	0.41
7:G:65:TRP:HA	7:G:74:LEU:HD23	2.02	0.41
7:G:301:ASP:OD1	7:G:302:VAL:N	2.54	0.41
8:H:243:THR:O	8:H:247:LYS:HG3	2.21	0.41
8:H:404:ARG:HD2	8:H:404:ARG:N	2.35	0.41
8:H:703:PHE:HA	8:H:706:ILE:HD12	2.03	0.41
9:I:309:TYR:CD2	9:I:376:ILE:HB	2.55	0.41
9:I:499:GLN:HG3	9:I:500:ILE:H	1.84	0.41
9:I:788:GLN:O	9:I:792:LEU:HG	2.21	0.41
9:I:856:LEU:HA	9:I:859:ILE:HG12	2.03	0.41
1:J:141:GLU:O	1:J:144:TRP:HB3	2.21	0.41
1:J:390:LEU:C	1:J:392:PHE:H	2.22	0.41
1:J:486:SER:HB3	1:J:490:ARG:NH1	2.27	0.41
1:J:620:LYS:HB3	1:J:620:LYS:HE2	1.90	0.41
1:J:632:MET:O	1:J:635:LEU:HB3	2.21	0.41
4:M:119:LEU:HD21	4:M:559:MET:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:414:LEU:HD23	4:M:420:THR:HG23	2.02	0.41
4:M:976:GLU:O	4:M:980:GLN:HG2	2.20	0.41
4:M:1063:GLY:O	4:M:1066:GLU:HG3	2.20	0.41
4:M:1183:GLU:HB2	4:M:1184:LYS:NZ	2.36	0.41
4:M:1191:THR:O	4:M:1195:LEU:HG	2.20	0.41
5:N:75:VAL:HG11	5:N:78:ILE:HD11	2.03	0.41
6:O:372:VAL:HB	6:O:376:TRP:CZ2	2.56	0.41
6:O:532:LYS:H	6:O:532:LYS:HG3	1.64	0.41
7:P:89:GLU:OE1	7:P:89:GLU:N	2.54	0.41
8:Q:188:THR:OG1	8:Q:191:GLN:OE1	2.22	0.41
8:Q:292:THR:HA	8:Q:295:THR:HG22	2.02	0.41
8:Q:296:LEU:HA	8:Q:299:ARG:HD2	2.03	0.41
8:Q:419:TYR:CD1	8:Q:422:LEU:HD12	2.53	0.41
9:R:512:ALA:HA	9:R:527:MET:CE	2.50	0.41
10:S:273:MET:HE1	10:S:384:PHE:O	2.21	0.41
10:S:388:ARG:NH2	10:S:392:LEU:HD21	2.36	0.41
10:S:672:THR:N	10:S:674:ARG:HH12	2.19	0.41
10:S:1178:ARG:HB3	10:S:1181:LEU:HB3	2.03	0.41
10:S:1216:HIS:NE2	10:S:1225:CYS:HA	2.36	0.41
10:S:1246:ALA:O	10:S:1249:GLN:N	2.51	0.41
10:S:1305:ARG:NH2	10:S:1347:SER:OG	2.53	0.41
11:T:690:PRO:HB3	11:T:785:PHE:O	2.21	0.41
11:T:715:LYS:HZ2	11:T:716:TRP:HE1	1.69	0.41
11:T:849:LEU:HD11	11:T:880:VAL:HG22	2.02	0.41
12:U:371:LYS:HB2	12:U:371:LYS:HE2	1.79	0.41
12:U:451:GLU:HG3	12:U:463:TYR:CE1	2.55	0.41
12:U:657:PRO:HA	12:U:662:GLU:OE2	2.20	0.41
1:A:136:ILE:HG13	1:A:137:LEU:N	2.36	0.41
1:A:139:ALA:O	1:A:142:LEU:HG	2.20	0.41
1:A:182:VAL:HA	1:A:191:HIS:CG	2.55	0.41
1:A:188:PRO:O	1:A:194:PHE:HB2	2.20	0.41
1:A:238:MET:HE2	1:A:238:MET:HB2	1.90	0.41
1:A:310:LEU:HD21	1:A:317:VAL:HG11	2.02	0.41
1:A:330:LEU:CD1	1:A:348:LEU:HD11	2.51	0.41
1:A:581:PRO:O	1:A:584:GLU:HB3	2.20	0.41
1:A:583:LEU:HA	1:A:590:PHE:CZ	2.56	0.41
2:B:1:MET:O	2:B:375:SER:HB2	2.19	0.41
2:B:15:SER:HA	2:B:349:ASN:HB2	2.02	0.41
2:B:177:PHE:O	2:B:222:ARG:HD3	2.21	0.41
3:C:16:HIS:NE2	3:C:59:SER:HB3	2.36	0.41
3:C:27:MET:HE3	3:C:27:MET:HB3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:227:PHE:HB3	3:C:236:HIS:HE1	1.79	0.41
4:D:44:ARG:HD2	4:D:573:PRO:HB3	2.03	0.41
4:D:365:ARG:HH12	11:T:69:HIS:CE1	2.39	0.41
4:D:690:MET:SD	4:D:875:ASN:ND2	2.94	0.41
4:D:999:LEU:HD12	4:D:1000:ARG:HG3	2.02	0.41
4:D:1048:ASP:HA	4:D:1051:GLU:OE1	2.21	0.41
4:D:1062:VAL:HA	4:D:1065:ILE:CG2	2.51	0.41
5:E:6:ALA:HA	5:E:293:ILE:HB	2.03	0.41
5:E:74:ARG:O	5:E:100:GLY:N	2.54	0.41
5:E:220:ASN:HD22	5:E:223:ARG:NH1	2.19	0.41
5:E:292:LEU:HD21	5:E:322:TRP:HB3	2.03	0.41
6:F:267:LYS:HE2	6:F:270:GLU:N	2.36	0.41
6:F:303:LYS:HD2	6:F:303:LYS:C	2.41	0.41
6:F:316:LYS:HA	6:F:316:LYS:HD2	1.79	0.41
6:F:342:HIS:CE1	6:F:687:ARG:NH1	2.89	0.41
6:F:355:TYR:O	6:F:359:VAL:HG23	2.21	0.41
6:F:368:GLU:N	6:F:368:GLU:OE1	2.54	0.41
6:F:380:TRP:CD2	6:F:633:LEU:HG	2.56	0.41
6:F:755:CYS:SG	6:F:779:PHE:HZ	2.44	0.41
6:F:768:VAL:HG13	6:F:769:ILE:HG13	2.02	0.41
6:F:796:GLU:HA	6:F:800:LYS:NZ	2.33	0.41
7:G:20:GLN:HB2	7:G:65:TRP:NE1	2.32	0.41
7:G:268:SER:C	7:G:276:LEU:HD12	2.41	0.41
8:H:437:GLU:OE1	8:H:498:GLU:OE2	2.39	0.41
8:H:495:VAL:O	8:H:495:VAL:HG12	2.21	0.41
8:H:611:ARG:HE	8:H:614:GLU:CD	2.23	0.41
8:H:753:GLU:HG3	8:H:756:LYS:HZ1	1.84	0.41
9:I:99:MET:HG3	9:I:100:ALA:N	2.33	0.41
9:I:220:LEU:H	9:I:240:GLN:HE21	1.68	0.41
9:I:868:ARG:O	9:I:872:TYR:HD2	2.04	0.41
9:I:1065:ASP:CG	9:I:1083:SER:HB3	2.41	0.41
1:J:30:GLY:HA3	1:J:410:SER:OG	2.21	0.41
1:J:58:ARG:NH2	1:J:63:ILE:HG21	2.35	0.41
1:J:106:ARG:CZ	1:J:144:TRP:CD1	3.03	0.41
1:J:358:VAL:HA	1:J:361:GLU:OE1	2.20	0.41
1:J:395:ASN:HB3	1:J:397:ARG:HG2	2.01	0.41
1:J:503:ARG:NH1	1:J:506:LYS:HE2	2.35	0.41
1:J:603:GLU:OE2	4:M:1125:LEU:HD11	2.21	0.41
2:K:120:HIS:CE1	2:K:144:VAL:HA	2.56	0.41
2:K:264:VAL:HG11	2:K:286:TRP:CZ3	2.55	0.41
3:L:22:PHE:C	3:L:24:GLY:H	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:166:SER:HB3	3:L:187:ASP:H	1.85	0.41
3:L:280:GLN:O	3:L:298:ASP:N	2.54	0.41
4:M:257:LEU:HB3	4:M:311:TRP:CG	2.56	0.41
4:M:365:ARG:O	4:M:394:GLN:HB3	2.20	0.41
4:M:373:GLN:HG3	4:M:387:THR:OG1	2.21	0.41
4:M:844:GLY:HA3	4:M:850:ARG:NE	2.36	0.41
4:M:1291:MET:O	4:M:1295:LEU:HG	2.21	0.41
5:N:45:VAL:HG22	5:N:68:THR:HG23	2.02	0.41
5:N:294:GLY:HA3	5:N:322:TRP:CZ2	2.56	0.41
6:O:240:MET:HG3	6:O:243:MET:SD	2.60	0.41
6:O:248:GLY:C	6:O:249:ARG:HD2	2.42	0.41
6:O:662:ALA:HB1	6:O:674:ALA:HB1	2.03	0.41
6:O:685:HIS:CE1	7:P:166:SER:O	2.74	0.41
6:O:774:ARG:HA	6:O:777:ARG:NH1	2.36	0.41
7:P:27:ARG:C	7:P:28:LEU:HD22	2.42	0.41
7:P:27:ARG:NH1	7:P:65:TRP:HH2	2.19	0.41
8:Q:177:ILE:HG23	8:Q:205:GLN:NE2	2.36	0.41
8:Q:233:GLU:OE2	8:Q:247:LYS:HB3	2.21	0.41
8:Q:243:THR:O	8:Q:247:LYS:HG3	2.20	0.41
8:Q:280:ILE:HG23	8:Q:283:TYR:CD2	2.55	0.41
8:Q:437:GLU:O	8:Q:441:TRP:HB2	2.21	0.41
8:Q:676:ARG:NH2	8:Q:717:GLN:HG3	2.34	0.41
8:Q:751:PHE:HZ	12:U:813:VAL:HG21	1.85	0.41
8:Q:827:THR:HG22	8:Q:831:PRO:HA	2.02	0.41
8:Q:846:PRO:HB3	8:Q:887:GLU:CD	2.42	0.41
8:Q:874:SER:O	8:Q:879:LEU:CB	2.69	0.41
9:R:300:TRP:CH2	9:R:306:LEU:HD11	2.56	0.41
9:R:342:LEU:N	9:R:365:VAL:O	2.53	0.41
9:R:607:PHE:HA	9:R:610:LEU:HG	2.03	0.41
9:R:682:MET:O	9:R:685:ILE:HG22	2.21	0.41
9:R:853:PHE:O	9:R:857:VAL:HG13	2.21	0.41
9:R:934:HIS:CE1	9:R:962:ALA:HB2	2.55	0.41
10:S:67:VAL:HG21	10:S:105:GLU:HB3	2.03	0.41
10:S:163:SER:O	10:S:167:VAL:HG23	2.21	0.41
10:S:515:ARG:HG2	10:S:600:LEU:HA	2.02	0.41
10:S:1076:PRO:HA	10:S:1079:ARG:NE	2.36	0.41
10:S:1203:ASP:O	10:S:1206:GLN:N	2.54	0.41
10:S:1215:GLU:HA	10:S:1225:CYS:HB2	2.03	0.41
10:S:1417:ARG:O	10:S:1421:TYR:CD2	2.74	0.41
10:S:1795:ARG:HB3	10:S:1801:SER:H	1.86	0.41
10:S:1867:THR:HB	10:S:1871:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:88:TRP:CZ3	11:T:108:LEU:HD11	2.56	0.41
11:T:278:ASP:OD1	11:T:278:ASP:N	2.54	0.41
11:T:543:LEU:HD22	11:T:566:TRP:CH2	2.55	0.41
11:T:693:ASN:ND2	11:T:784:SER:O	2.53	0.41
11:T:928:PHE:HB3	11:T:933:GLN:OE1	2.20	0.41
12:U:168:SER:HB3	12:U:539:LYS:HD3	2.02	0.41
12:U:203:PRO:HG2	12:U:208:LEU:HD21	2.02	0.41
12:U:527:LEU:HD21	12:U:532:LEU:HB2	2.03	0.41
12:U:580:GLU:O	12:U:584:LEU:HD12	2.21	0.41
1:A:8:PRO:HA	3:C:316:ILE:CA	2.51	0.41
2:B:7:ALA:N	2:B:62:TYR:OH	2.40	0.41
2:B:284:TRP:CB	2:B:337:ILE:HB	2.51	0.41
3:C:51:ALA:HB1	3:C:103:TRP:HE1	1.86	0.41
3:C:170:TRP:CE3	3:C:182:ILE:HD11	2.55	0.41
3:C:200:TYR:HA	3:C:210:ALA:O	2.21	0.41
4:D:163:ARG:NH1	4:D:249:GLU:OE2	2.44	0.41
4:D:254:ILE:O	4:D:262:VAL:HG21	2.21	0.41
4:D:641:VAL:O	4:D:645:ILE:HG13	2.20	0.41
5:E:23:GLU:HG2	5:E:303:SER:CB	2.51	0.41
5:E:255:ARG:HE	5:E:255:ARG:HB3	1.59	0.41
6:F:293:SER:HA	7:G:11:SER:CB	2.51	0.41
6:F:530:ASP:O	6:F:534:THR:HG23	2.20	0.41
6:F:892:ALA:N	6:F:893:PRO:HD2	2.36	0.41
7:G:21:MET:CG	7:G:25:GLY:HA2	2.51	0.41
7:G:181:ARG:HD2	7:G:181:ARG:C	2.41	0.41
7:G:282:ASP:O	7:G:284:LYS:HG2	2.21	0.41
8:H:285:LYS:HD2	8:H:285:LYS:HA	1.94	0.41
8:H:296:LEU:HA	8:H:299:ARG:HD2	2.02	0.41
8:H:538:LEU:HD13	8:H:567:TYR:N	2.36	0.41
8:H:781:HIS:CD2	2:K:57:SER:HB3	2.56	0.41
9:I:193:THR:HG23	9:I:233:GLN:OE1	2.20	0.41
1:J:297:ASP:O	1:J:300:THR:OG1	2.36	0.41
1:J:323:HIS:HE1	1:J:324:PHE:CZ	2.38	0.41
1:J:544:ARG:O	1:J:548:GLN:OE1	2.39	0.41
1:J:607:ALA:O	1:J:611:GLU:HG2	2.21	0.41
3:L:82:THR:HB	3:L:108:THR:CG2	2.51	0.41
3:L:118:ASP:OD2	3:L:167:CYS:HA	2.21	0.41
4:M:963:ASN:O	4:M:967:ARG:HG2	2.21	0.41
4:M:1072:VAL:C	4:M:1151:GLU:HA	2.41	0.41
4:M:1180:ARG:HH21	4:M:1183:GLU:CD	2.19	0.41
6:O:684:PRO:HG3	7:P:170:GLN:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:688:GLU:OE2	7:P:172:SER:HB3	2.20	0.41
7:P:53:LEU:O	7:P:56:HIS:HE1	2.04	0.41
7:P:85:ILE:HG22	7:P:96:THR:CG2	2.50	0.41
7:P:86:TRP:HB3	7:P:93:TRP:CE3	2.55	0.41
7:P:138:GLY:HA3	7:P:139:PRO:HD2	1.94	0.41
7:P:227:THR:OG1	7:P:245:ASP:OD1	2.36	0.41
8:Q:215:ALA:HB1	8:Q:219:ARG:NH2	2.35	0.41
8:Q:253:THR:O	8:Q:256:ARG:HB3	2.21	0.41
8:Q:341:LEU:HA	8:Q:344:LEU:HB2	2.03	0.41
8:Q:403:TRP:CD1	8:Q:404:ARG:NH1	2.89	0.41
9:R:181:ASN:HB3	9:R:184:HIS:HD2	1.86	0.41
9:R:774:TYR:CZ	9:R:782:ARG:HB3	2.56	0.41
9:R:814:GLU:O	9:R:818:ILE:HG12	2.21	0.41
9:R:859:ILE:HG13	9:R:860:CYS:N	2.36	0.41
9:R:886:PHE:HB3	9:R:912:PHE:CD2	2.56	0.41
10:S:1:MET:SD	10:S:66:ARG:NE	2.81	0.41
10:S:587:THR:HB	10:S:590:GLU:HG3	2.02	0.41
10:S:757:GLU:HA	10:S:760:GLU:OE1	2.21	0.41
10:S:1037:LEU:HD13	10:S:1061:TYR:CE1	2.56	0.41
10:S:1526:ASP:OD1	10:S:1580:ARG:NH2	2.41	0.41
10:S:1783:PRO:HB2	10:S:1962:LEU:HD22	2.03	0.41
11:T:146:HIS:HB2	11:T:249:MET:O	2.21	0.41
11:T:962:ILE:O	11:T:966:GLN:HG2	2.21	0.41
12:U:117:SER:HA	12:U:120:ARG:HH21	1.86	0.41
12:U:585:LEU:CD2	12:U:599:ILE:HD11	2.51	0.41
12:U:610:ILE:HG23	12:U:629:LEU:CG	2.47	0.41
1:A:55:TYR:OH	3:C:5:ARG:N	2.52	0.40
1:A:473:MET:CE	3:C:69:GLU:HA	2.51	0.40
2:B:127:MET:SD	10:S:674:ARG:HB2	2.60	0.40
4:D:599:ASP:O	4:D:603:ALA:N	2.42	0.40
4:D:831:HIS:CD2	4:D:868:LEU:HD11	2.56	0.40
4:D:1303:THR:O	4:D:1307:HIS:CD2	2.74	0.40
5:E:46:ILE:HG13	5:E:66:LEU:HB2	2.03	0.40
6:F:424:ARG:O	6:F:428:GLU:OE1	2.38	0.40
7:G:270:SER:OG	7:G:273:ALA:N	2.54	0.40
8:H:237:PRO:HG2	8:H:461:ILE:HG12	2.02	0.40
8:H:253:THR:O	8:H:256:ARG:HB3	2.21	0.40
8:H:276:PHE:HZ	8:H:340:TYR:CD1	2.39	0.40
8:H:660:ARG:NH1	8:H:663:ILE:HB	2.36	0.40
9:I:105:GLU:N	9:I:401:ASN:OD1	2.51	0.40
9:I:179:TRP:CD1	9:I:188:TYR:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:629:HIS:HD2	9:I:632:LYS:NZ	2.19	0.40
9:I:666:PRO:HD2	9:I:669:LEU:HD12	2.02	0.40
9:I:755:GLY:HA3	4:M:795:GLN:HE22	1.85	0.40
1:J:296:ARG:HA	1:J:299:MET:HG2	2.02	0.40
1:J:296:ARG:HA	1:J:299:MET:CG	2.51	0.40
1:J:639:ARG:HA	4:M:1088:ILE:HG21	2.03	0.40
2:K:88:ARG:NH1	2:K:155:ALA:HB1	2.31	0.40
2:K:208:PHE:CD1	2:K:248:LYS:HA	2.56	0.40
3:L:113:ARG:NH2	4:M:1367:TYR:HE2	2.17	0.40
4:M:286:VAL:HG21	4:M:338:ALA:O	2.21	0.40
4:M:466:ALA:HB1	4:M:469:ARG:HH11	1.86	0.40
4:M:1087:HIS:HA	4:M:1092:ASN:OD1	2.21	0.40
4:M:1095:LYS:HD3	4:M:1095:LYS:N	2.35	0.40
4:M:1114:LEU:HD23	4:M:1115:ARG:HH22	1.86	0.40
4:M:1152:ARG:HB2	4:M:1159:ARG:NH1	2.36	0.40
4:M:1188:LEU:HB3	4:M:1192:ARG:NH1	2.36	0.40
4:M:1379:GLN:OE1	4:M:1379:GLN:N	2.54	0.40
6:O:683:ASP:HB3	6:O:685:HIS:HE1	1.83	0.40
6:O:683:ASP:C	6:O:687:ARG:HE	2.25	0.40
6:O:842:ILE:HD12	6:O:842:ILE:HG23	1.89	0.40
7:P:139:PRO:HG2	7:P:141:GLU:OE2	2.21	0.40
8:Q:128:LEU:O	8:Q:132:MET:CB	2.69	0.40
8:Q:203:LEU:HD23	8:Q:206:GLN:OE1	2.21	0.40
8:Q:248:LEU:HD22	8:Q:455:GLU:HG2	2.03	0.40
8:Q:541:MET:HA	8:Q:544:LEU:HD13	2.03	0.40
8:Q:629:THR:HA	8:Q:632:GLU:OE1	2.20	0.40
8:Q:686:ILE:HG22	8:Q:690:PHE:CE1	2.56	0.40
8:Q:819:TRP:CZ3	8:Q:840:LEU:HB3	2.56	0.40
8:Q:850:PHE:CE1	8:Q:891:LEU:HD13	2.57	0.40
9:R:218:ASN:OD1	9:R:265:LEU:HB2	2.21	0.40
9:R:641:ASN:O	9:R:645:LYS:HG3	2.22	0.40
9:R:770:ILE:HG21	9:R:789:LEU:HD22	2.01	0.40
10:S:530:LEU:HD12	10:S:530:LEU:HA	1.89	0.40
10:S:814:GLU:O	10:S:817:LEU:HB2	2.21	0.40
10:S:1204:ARG:NH1	10:S:1208:GLU:OE2	2.54	0.40
10:S:1555:LYS:O	10:S:1559:LEU:HD23	2.21	0.40
10:S:1594:ASP:HB2	10:S:1599:PHE:CD2	2.57	0.40
10:S:1636:GLN:NE2	10:S:1639:GLN:OE1	2.54	0.40
10:S:1716:ALA:C	10:S:1720:ARG:HE	2.23	0.40
11:T:824:SER:O	11:T:828:ILE:HG12	2.21	0.40
12:U:686:ILE:HD12	12:U:686:ILE:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:VAL:HA	1:A:83:GLN:OE1	2.21	0.40
2:B:144:VAL:HB	2:B:172:MET:CE	2.51	0.40
2:B:245:ARG:NH1	2:B:246:HIS:HB3	2.36	0.40
4:D:1357:VAL:O	4:D:1360:LEU:HB2	2.22	0.40
6:F:263:HIS:C	6:F:304:VAL:HG13	2.41	0.40
6:F:358:TRP:CE2	6:F:362:PHE:HB2	2.57	0.40
6:F:543:LEU:HB3	6:F:544:PRO:HD2	2.03	0.40
6:F:834:SER:HB2	6:F:838:TRP:HZ3	1.87	0.40
8:H:182:LYS:O	8:H:186:ARG:NH1	2.54	0.40
8:H:403:TRP:CD1	8:H:404:ARG:NH1	2.89	0.40
8:H:425:ASN:O	8:H:429:LEU:HG	2.21	0.40
8:H:697:GLU:HG2	8:H:698:ALA:N	2.36	0.40
8:H:765:PRO:HB2	8:H:767:LEU:CD1	2.51	0.40
9:I:1078:GLU:O	9:I:1081:LYS:HG2	2.21	0.40
9:I:1115:LEU:HD21	9:I:1128:LEU:CD2	2.50	0.40
1:J:71:LEU:HD21	1:J:112:CYS:CB	2.51	0.40
1:J:546:TYR:O	1:J:549:GLU:N	2.48	0.40
2:K:133:ALA:HB3	2:K:144:VAL:HG22	2.03	0.40
4:M:98:THR:HB	4:M:101:ARG:HB2	2.03	0.40
4:M:156:LEU:HG	4:M:161:VAL:HG12	2.02	0.40
4:M:975:PRO:HB3	4:M:1006:HIS:NE2	2.36	0.40
4:M:1357:VAL:O	4:M:1360:LEU:HB2	2.21	0.40
6:O:342:HIS:CE1	6:O:681:ILE:O	2.74	0.40
6:O:356:ALA:HB2	6:O:380:TRP:HB3	2.03	0.40
6:O:543:LEU:HB3	6:O:544:PRO:HD2	2.04	0.40
6:O:615:LEU:HG	6:O:649:LEU:HD22	2.03	0.40
6:O:795:TRP:CD1	6:O:800:LYS:NZ	2.86	0.40
7:P:33:SER:CA	7:P:35:ARG:HH21	2.33	0.40
7:P:39:ILE:H	7:P:49:LEU:CD1	2.34	0.40
7:P:43:LYS:HD3	7:P:43:LYS:HA	1.84	0.40
8:Q:359:ARG:CZ	12:U:31:ARG:NH1	2.85	0.40
8:Q:447:MET:HE1	8:Q:483:VAL:HG22	2.03	0.40
8:Q:841:ARG:CA	8:Q:845:LEU:CD2	2.98	0.40
9:R:330:ILE:HG23	9:R:348:ALA:HB2	2.03	0.40
9:R:719:LYS:HE2	9:R:788:GLN:HG2	2.02	0.40
10:S:619:ALA:HA	10:S:622:MET:HE2	2.02	0.40
10:S:643:LEU:O	10:S:646:THR:OG1	2.30	0.40
10:S:1232:ARG:HH11	10:S:1233:VAL:HG23	1.83	0.40
10:S:1811:LEU:HD21	10:S:1906:HIS:CD2	2.56	0.40
11:T:312:LEU:HD12	11:T:318:MET:SD	2.62	0.40
11:T:500:PHE:O	11:T:503:LYS:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:552:GLU:HA	11:T:625:TYR:HE1	1.86	0.40
11:T:630:THR:OG1	11:T:659:ARG:NH1	2.53	0.40
12:U:391:VAL:O	12:U:395:ILE:HG13	2.20	0.40
12:U:640:LEU:HA	12:U:643:THR:HG22	2.02	0.40
1:A:258:HIS:O	1:A:261:GLU:HG3	2.20	0.40
3:C:169:SER:HB2	3:C:227:PHE:HD2	1.86	0.40
3:C:197:VAL:O	3:C:214:THR:HA	2.21	0.40
4:D:1328:TYR:CA	4:D:1331:MET:HE2	2.43	0.40
4:D:1349:ALA:HA	4:D:1352:LEU:HD12	2.04	0.40
6:F:709:ALA:HA	6:F:712:ASN:ND2	2.37	0.40
6:F:710:LYS:O	6:F:714:LEU:HG	2.22	0.40
6:F:746:LEU:HB3	6:F:755:CYS:SG	2.61	0.40
6:F:838:TRP:HD1	6:F:841:LEU:HD12	1.86	0.40
6:F:848:LYS:HA	6:F:848:LYS:HD2	1.89	0.40
7:G:195:ARG:HH22	7:G:202:LYS:HE2	1.85	0.40
8:H:198:ALA:O	8:H:202:TRP:CE3	2.74	0.40
8:H:542:THR:HA	8:H:545:LEU:HD12	2.03	0.40
8:H:785:LYS:HE3	2:K:56:THR:HA	2.03	0.40
8:H:794:LYS:HD3	8:H:797:LEU:HD23	2.03	0.40
8:H:814:PHE:CE2	8:H:815:VAL:HG22	2.55	0.40
9:I:358:ILE:HD11	9:I:388:GLN:H	1.85	0.40
9:I:719:LYS:C	9:I:719:LYS:HD3	2.41	0.40
9:I:1103:LEU:HD23	9:I:1132:TYR:HD1	1.86	0.40
1:J:93:SER:CA	2:K:318:ASN:H	2.32	0.40
1:J:100:GLN:HB3	2:K:320:SER:OG	2.22	0.40
1:J:142:LEU:HG	1:J:167:TRP:NE1	2.37	0.40
1:J:415:TRP:HE1	1:J:447:LYS:NZ	2.19	0.40
2:K:16:ARG:HD2	2:K:81:MET:HB3	2.03	0.40
2:K:80:ASP:OD2	2:K:133:ALA:HA	2.21	0.40
3:L:36:VAL:O	3:L:52:SER:HA	2.20	0.40
3:L:139:VAL:O	3:L:158:GLU:HA	2.21	0.40
4:M:334:ILE:O	4:M:342:HIS:HE1	2.05	0.40
4:M:365:ARG:C	4:M:394:GLN:HB3	2.41	0.40
4:M:899:LEU:HD11	4:M:906:VAL:HG13	2.02	0.40
5:N:61:ILE:HD11	5:N:321:PHE:HE2	1.86	0.40
5:N:273:PRO:HG3	5:N:299:GLY:H	1.86	0.40
6:O:410:ARG:CZ	6:O:549:VAL:HG22	2.49	0.40
6:O:596:LEU:HA	6:O:596:LEU:HD23	1.81	0.40
7:P:278:VAL:HB	7:P:286:THR:OG1	2.22	0.40
8:Q:534:LEU:CD1	8:Q:570:ARG:HH12	2.33	0.40
8:Q:604:THR:HA	8:Q:609:ARG:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:636:LYS:HD2	8:Q:636:LYS:HA	1.88	0.40
9:R:182:ILE:HG13	9:R:183:LEU:N	2.37	0.40
9:R:267:SER:HB3	9:R:279:LEU:HB3	2.02	0.40
9:R:895:ARG:O	9:R:899:LEU:HG	2.21	0.40
10:S:293:GLU:HA	10:S:296:LYS:NZ	2.36	0.40
10:S:639:LEU:O	10:S:643:LEU:HG	2.21	0.40
10:S:741:PHE:CE2	10:S:812:MET:HG3	2.57	0.40
10:S:743:ARG:HA	10:S:743:ARG:NE	2.36	0.40
10:S:1107:MET:SD	10:S:1277:LYS:HD2	2.61	0.40
10:S:1274:LEU:CB	10:S:1278:ARG:HH21	2.35	0.40
10:S:1330:MET:O	10:S:1334:ALA:HB2	2.20	0.40
11:T:515:GLY:HA2	11:T:518:ARG:HE	1.86	0.40
11:T:578:LEU:O	11:T:581:VAL:HG12	2.22	0.40
11:T:590:THR:HA	11:T:593:LYS:HG2	2.03	0.40
11:T:670:TRP:CH2	11:T:793:ILE:HG12	2.56	0.40
12:U:609:ILE:H	12:U:609:ILE:HD12	1.86	0.40
1:A:394:ALA:HB1	1:A:399:PHE:HE2	1.86	0.40
1:A:544:ARG:HA	1:A:547:SER:OG	2.21	0.40
1:A:642:ALA:HB1	4:D:1088:ILE:CG2	2.52	0.40
2:B:299:LEU:HB3	2:B:307:ILE:HG22	2.03	0.40
3:C:66:ALA:HB2	3:C:121:PHE:CZ	2.56	0.40
3:C:222:VAL:HA	3:C:242:THR:HG22	2.03	0.40
4:D:1043:ARG:O	4:D:1044:SER:OG	2.37	0.40
4:D:1087:HIS:HD2	4:D:1092:ASN:OD1	2.04	0.40
5:E:110:ASP:OD2	5:E:114:LYS:HE2	2.21	0.40
5:E:205:GLU:HB2	5:E:241:SER:O	2.21	0.40
6:F:253:VAL:HG11	7:G:285:VAL:HG11	2.03	0.40
6:F:424:ARG:HA	6:F:427:GLU:HG2	2.02	0.40
6:F:572:TYR:CD2	6:F:592:LYS:HD3	2.56	0.40
6:F:710:LYS:HA	6:F:713:PHE:CD2	2.55	0.40
6:F:828:LEU:HA	6:F:831:LYS:NZ	2.36	0.40
7:G:87:LYS:HD2	7:G:89:GLU:OE2	2.22	0.40
8:H:264:TRP:O	8:H:268:ILE:HG13	2.22	0.40
9:I:665:VAL:HG23	9:I:674:VAL:HG21	2.03	0.40
9:I:814:GLU:HG2	9:I:815:ARG:H	1.86	0.40
9:I:1086:VAL:CG1	9:I:1090:GLN:HE22	2.35	0.40
1:J:596:TYR:O	1:J:600:ARG:HG2	2.22	0.40
1:J:624:SER:O	1:J:628:THR:HG23	2.22	0.40
3:L:303:ARG:HB2	3:L:305:TRP:NE1	2.37	0.40
4:M:46:TYR:CE2	4:M:410:TRP:HH2	2.40	0.40
4:M:452:ASP:HA	4:M:524:ARG:CZ	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:312:GLU:HB3	6:O:314:LYS:NZ	2.36	0.40
6:O:842:ILE:CG2	6:O:843:GLN:H	2.28	0.40
7:P:282:ASP:N	7:P:282:ASP:OD1	2.53	0.40
8:Q:151:LEU:HA	8:Q:154:PHE:CD2	2.57	0.40
8:Q:355:ARG:NH2	8:Q:358:LYS:NZ	2.66	0.40
8:Q:534:LEU:HA	8:Q:570:ARG:NH2	2.36	0.40
9:R:399:VAL:HG12	9:R:401:ASN:O	2.21	0.40
9:R:491:VAL:HG22	9:R:522:LEU:HB3	2.04	0.40
9:R:728:TYR:CE2	9:R:732:LYS:HG3	2.56	0.40
9:R:826:LYS:HA	9:R:826:LYS:HD3	1.90	0.40
10:S:747:ARG:HB2	10:S:749:TYR:CZ	2.57	0.40
10:S:805:HIS:CE1	10:S:811:PRO:HD2	2.56	0.40
10:S:810:SER:HB2	10:S:812:MET:CE	2.51	0.40
10:S:811:PRO:HA	10:S:814:GLU:HG2	2.03	0.40
10:S:1043:VAL:HG23	10:S:1094:HIS:CD2	2.56	0.40
10:S:1201:PHE:HB2	10:S:1202:PHE:CZ	2.57	0.40
10:S:1220:ARG:HB2	10:S:1222:GLN:HE22	1.86	0.40
10:S:1285:ARG:O	10:S:1289:GLU:OE1	2.38	0.40
10:S:1659:LEU:HA	10:S:1672:LEU:HD11	2.03	0.40
11:T:355:ILE:HG21	11:T:453:LEU:HD23	2.03	0.40
12:U:180:ASN:OD1	12:U:181:VAL:N	2.54	0.40
12:U:207:ASP:HA	12:U:229:LYS:HZ3	1.85	0.40
1:A:61:GLU:OE2	3:C:1:MET:HG2	2.22	0.40
1:A:189:THR:HG21	1:A:220:THR:OG1	2.21	0.40
1:A:370:TRP:NE1	1:A:374:HIS:CE1	2.89	0.40
1:A:408:LEU:HD13	1:A:417:LEU:HB2	2.04	0.40
2:B:75:PRO:HB2	2:B:95:THR:HG21	2.03	0.40
2:B:267:HIS:CE1	2:B:269:SER:HB3	2.43	0.40
3:C:235:PHE:HB3	3:C:251:LYS:CD	2.51	0.40
4:D:346:LEU:HD22	4:D:355:LEU:HD21	2.03	0.40
4:D:1138:TYR:CD1	6:F:901:PRO:HB3	2.56	0.40
5:E:30:GLY:HA2	5:E:85:ARG:NH1	2.36	0.40
6:F:256:GLY:C	7:G:271:ILE:HG21	2.42	0.40
6:F:675:ILE:HG13	6:F:694:LEU:HD22	2.03	0.40
6:F:684:PRO:HG2	7:G:171:PRO:HA	2.03	0.40
8:H:883:PHE:HB3	8:H:888:MET:HB3	2.04	0.40
9:I:96:ASP:HA	9:I:440:ASN:HB2	2.03	0.40
9:I:223:LEU:HD12	9:I:233:GLN:HB3	2.02	0.40
9:I:310:ILE:HD11	9:I:363:VAL:HG21	2.04	0.40
1:J:630:VAL:O	1:J:633:LEU:HG	2.21	0.40
2:K:88:ARG:HH21	3:L:95:ASP:CB	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:129:MET:HG3	3:L:143:GLU:HB3	2.04	0.40
3:L:245:VAL:HB	3:L:274:PHE:HB2	2.04	0.40
3:L:267:GLU:HB3	3:L:269:HIS:NE2	2.37	0.40
4:M:527:ASN:HA	4:M:531:TRP:CZ3	2.57	0.40
4:M:801:GLU:HB3	4:M:968:LEU:HG	2.04	0.40
4:M:870:TRP:CD1	4:M:872:SER:HB2	2.56	0.40
4:M:891:LEU:HD21	4:M:912:MET:HG3	2.03	0.40
4:M:915:GLN:O	4:M:919:VAL:HG23	2.21	0.40
4:M:1113:THR:HA	10:S:477:LEU:O	2.21	0.40
5:N:50:ARG:HH12	5:N:307:ARG:NH2	2.19	0.40
5:N:87:ASP:OD1	5:N:87:ASP:N	2.52	0.40
6:O:249:ARG:HA	7:P:265:TRP:HZ3	1.85	0.40
6:O:324:PRO:O	6:O:327:ILE:HB	2.21	0.40
6:O:444:TYR:CG	6:O:449:ARG:NH1	2.90	0.40
6:O:701:VAL:HG12	6:O:732:ARG:CZ	2.51	0.40
6:O:741:LYS:HD3	6:O:745:TYR:CE2	2.56	0.40
7:P:151:ILE:HG22	7:P:152:GLY:N	2.35	0.40
8:Q:176:GLN:NE2	8:Q:180:LEU:HG	2.36	0.40
8:Q:290:GLU:O	8:Q:293:LEU:HB3	2.22	0.40
8:Q:293:LEU:HD23	12:U:46:LYS:NZ	2.36	0.40
8:Q:370:GLU:HA	8:Q:373:LYS:HZ3	1.85	0.40
8:Q:694:LYS:HG3	8:Q:694:LYS:O	2.22	0.40
9:R:99:MET:SD	9:R:113:CYS:HA	2.62	0.40
9:R:789:LEU:O	9:R:793:LEU:HD23	2.22	0.40
9:R:1027:ALA:HA	9:R:1031:ASP:OD2	2.21	0.40
10:S:314:LEU:HD22	10:S:356:MET:CE	2.51	0.40
10:S:448:ARG:HH11	10:S:516:GLY:CA	2.35	0.40
10:S:730:GLU:HA	10:S:733:LEU:HB3	2.03	0.40
10:S:749:TYR:HD1	10:S:754:GLU:OE1	2.05	0.40
10:S:1302:THR:HG22	10:S:1305:ARG:HD3	2.04	0.40
10:S:1545:LEU:HD21	10:S:1547:LYS:HE2	2.02	0.40
10:S:1581:LEU:HB3	10:S:1647:PHE:HE2	1.86	0.40
11:T:1008:LEU:HA	11:T:1011:GLU:OE1	2.21	0.40
12:U:253:MET:O	12:U:257:ARG:HG2	2.21	0.40
12:U:579:ARG:HA	12:U:581:PHE:CZ	2.57	0.40
12:U:796:PHE:HA	12:U:799:MET:HG3	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	651/653 (100%)	594 (91%)	56 (9%)	1 (0%)	47	81
1	J	651/653 (100%)	607 (93%)	44 (7%)	0	100	100
2	B	373/375 (100%)	314 (84%)	57 (15%)	2 (0%)	29	69
2	K	373/375 (100%)	333 (89%)	37 (10%)	3 (1%)	19	60
3	C	331/360 (92%)	280 (85%)	50 (15%)	1 (0%)	41	77
3	L	323/360 (90%)	286 (88%)	35 (11%)	2 (1%)	25	66
4	D	1392/1439 (97%)	1294 (93%)	95 (7%)	3 (0%)	47	81
4	M	1392/1439 (97%)	1293 (93%)	95 (7%)	4 (0%)	41	77
5	E	324/326 (99%)	299 (92%)	25 (8%)	0	100	100
5	N	324/326 (99%)	299 (92%)	25 (8%)	0	100	100
6	F	685/924 (74%)	612 (89%)	69 (10%)	4 (1%)	25	66
6	O	635/924 (69%)	556 (88%)	79 (12%)	0	100	100
7	G	292/320 (91%)	262 (90%)	30 (10%)	0	100	100
7	P	292/320 (91%)	253 (87%)	38 (13%)	1 (0%)	41	77
8	H	796/916 (87%)	745 (94%)	50 (6%)	1 (0%)	51	86
8	Q	778/916 (85%)	719 (92%)	55 (7%)	4 (0%)	29	69
9	I	1074/1140 (94%)	989 (92%)	77 (7%)	8 (1%)	22	63
9	R	1080/1140 (95%)	1013 (94%)	66 (6%)	1 (0%)	51	86
10	S	2009/2011 (100%)	1874 (93%)	133 (7%)	2 (0%)	51	86
11	T	1011/2408 (42%)	960 (95%)	50 (5%)	1 (0%)	51	86
12	U	818/820 (100%)	756 (92%)	53 (6%)	9 (1%)	14	52
All	All	15604/18145 (86%)	14338 (92%)	1219 (8%)	47 (0%)	44	77

All (47) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	567	ALA
2	B	61	GLU
3	C	217	SER
6	F	597	GLN
6	F	615	LEU
2	K	62	TYR
4	M	1278	THR
12	U	27	PRO
12	U	155	ALA
4	D	1374	LEU
6	F	249	ARG
9	I	471	VAL
3	L	95	ASP
8	Q	820	MET
12	U	241	ASP
4	D	1275	VAL
8	H	228	GLU
9	I	184	HIS
9	I	464	VAL
9	I	473	PRO
3	L	97	LEU
4	M	198	PRO
12	U	503	LEU
4	D	134	ASN
6	F	300	SER
4	M	1164	GLU
8	Q	880	TYR
9	R	114	ASN
12	U	381	ARG
12	U	399	ASP
9	I	328	ILE
2	K	310	SER
8	Q	647	PHE
12	U	87	PHE
9	I	494	ASP
9	I	496	ARG
9	I	1071	ASP
4	M	93	SER
7	P	295	GLN
8	Q	872	VAL
10	S	481	HIS
2	B	30	PRO
2	K	203	ASP

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Mol	Chain	Res	Type
11	T	788	LYS
12	U	545	PRO
10	S	1809	PRO
12	U	91	GLU

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	580/580 (100%)	576 (99%)	4 (1%)	84	90
1	J	580/580 (100%)	577 (100%)	3 (0%)	88	93
2	B	329/329 (100%)	326 (99%)	3 (1%)	78	87
2	K	329/329 (100%)	327 (99%)	2 (1%)	86	92
3	C	288/309 (93%)	284 (99%)	4 (1%)	67	80
3	L	282/309 (91%)	279 (99%)	3 (1%)	73	84
4	D	1230/1262 (98%)	1220 (99%)	10 (1%)	81	89
4	M	1230/1262 (98%)	1224 (100%)	6 (0%)	88	93
5	E	275/275 (100%)	274 (100%)	1 (0%)	91	94
5	N	275/275 (100%)	274 (100%)	1 (0%)	91	94
6	F	608/816 (74%)	599 (98%)	9 (2%)	65	80
6	O	563/816 (69%)	561 (100%)	2 (0%)	91	94
7	G	250/272 (92%)	248 (99%)	2 (1%)	81	89
7	P	250/272 (92%)	249 (100%)	1 (0%)	91	94
8	H	712/816 (87%)	702 (99%)	10 (1%)	67	80
8	Q	695/816 (85%)	680 (98%)	15 (2%)	52	71
9	I	944/993 (95%)	935 (99%)	9 (1%)	76	86
9	R	950/993 (96%)	948 (100%)	2 (0%)	93	96
10	S	1779/1779 (100%)	1771 (100%)	8 (0%)	91	94
11	T	895/2166 (41%)	894 (100%)	1 (0%)	93	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	U	721/721 (100%)	715 (99%)	6 (1%)	81	89
All	All	13765/15970 (86%)	13663 (99%)	102 (1%)	84	90

All (102) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	LYS
1	A	469	LYS
1	A	544	ARG
1	A	640	ASN
2	B	73	LYS
2	B	86	LYS
2	B	245	ARG
3	C	5	ARG
3	C	113	ARG
3	C	246	ARG
3	C	283	ARG
4	D	67	ARG
4	D	498	LYS
4	D	530	ASN
4	D	939	ARG
4	D	994	ARG
4	D	1135	ARG
4	D	1190	GLN
4	D	1197	LYS
4	D	1270	ASN
4	D	1338	ARG
5	E	307	ARG
6	F	303	LYS
6	F	349	VAL
6	F	352	ILE
6	F	436	ARG
6	F	598	ARG
6	F	610	GLU
6	F	717	ARG
6	F	774	ARG
6	F	862	ASN
7	G	27	ARG
7	G	195	ARG
8	H	233	GLU
8	H	270	LYS
8	H	413	LYS

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Mol	Chain	Res	Type
8	H	493	LYS
8	H	494	ARG
8	H	496	LEU
8	H	508	LYS
8	H	565	LYS
8	H	617	LYS
8	H	896	ARG
9	I	464	VAL
9	I	466	ARG
9	I	471	VAL
9	I	472	LEU
9	I	827	ARG
9	I	926	ASN
9	I	946	ARG
9	I	959	LYS
9	I	1073	LYS
1	J	110	ARG
1	J	237	LYS
1	J	446	LYS
2	K	222	ARG
2	K	245	ARG
3	L	62	ARG
3	L	126	MET
3	L	140	ARG
4	M	441	ASN
4	M	498	LYS
4	M	669	ARG
4	M	725	ARG
4	M	1297	LYS
4	M	1338	ARG
5	N	85	ARG
6	O	436	ARG
6	O	598	ARG
7	P	54	ARG
8	Q	185	LYS
8	Q	270	LYS
8	Q	413	LYS
8	Q	508	LYS
8	Q	575	LYS
8	Q	700	LYS
8	Q	756	LYS
8	Q	867	ARG

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Mol	Chain	Res	Type
8	Q	870	ASP
8	Q	872	VAL
8	Q	876	ASN
8	Q	878	LYS
8	Q	879	LEU
8	Q	880	TYR
8	Q	881	THR
9	R	959	LYS
9	R	1137	LYS
10	S	468	GLN
10	S	487	ARG
10	S	584	ARG
10	S	977	ARG
10	S	1130	ARG
10	S	1232	ARG
10	S	1349	ARG
10	S	1758	ASN
11	T	455	ARG
12	U	50	ARG
12	U	388	LYS
12	U	487	ARG
12	U	546	ARG
12	U	587	LYS
12	U	809	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (140) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	133	GLN
1	A	268	GLN
1	A	374	HIS
1	A	395	ASN
1	A	411	HIS
1	A	463	GLN
2	B	74	HIS
2	B	114	GLN
2	B	173	HIS
2	B	218	HIS
2	B	226	GLN
2	B	227	GLN
2	B	257	HIS
2	B	356	GLN

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Mol	Chain	Res	Type
3	C	157	HIS
3	C	223	HIS
4	D	554	HIS
4	D	692	GLN
4	D	766	GLN
4	D	890	GLN
4	D	892	GLN
4	D	1045	GLN
4	D	1077	HIS
4	D	1143	GLN
4	D	1232	GLN
4	D	1307	HIS
4	D	1412	GLN
4	D	1420	GLN
5	E	71	HIS
6	F	305	HIS
6	F	538	HIS
6	F	551	GLN
6	F	563	GLN
6	F	648	HIS
6	F	658	HIS
7	G	20	GLN
7	G	62	GLN
7	G	67	HIS
7	G	149	HIS
7	G	235	GLN
8	H	168	GLN
8	H	176	GLN
8	H	205	GLN
8	H	230	ASN
8	H	279	ASN
8	H	425	ASN
8	H	504	HIS
8	H	595	GLN
8	H	675	GLN
8	H	763	GLN
8	H	770	GLN
9	I	74	ASN
9	I	440	ASN
9	I	655	GLN
9	I	727	GLN
1	J	83	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	104	ASN
1	J	117	HIS
1	J	389	ASN
1	J	395	ASN
1	J	457	GLN
2	K	218	HIS
2	K	235	GLN
2	K	246	HIS
3	L	56	HIS
3	L	157	HIS
3	L	312	ASN
4	M	366	GLN
4	M	393	ASN
4	M	579	HIS
4	M	687	ASN
4	M	766	GLN
4	M	817	GLN
4	M	831	HIS
4	M	849	HIS
4	M	873	ASN
4	M	932	GLN
4	M	996	GLN
4	M	1190	GLN
4	M	1253	GLN
4	M	1306	HIS
4	M	1365	HIS
6	O	258	ASN
6	O	463	HIS
6	O	471	GLN
6	O	538	HIS
6	O	551	GLN
6	O	563	GLN
6	O	603	HIS
6	O	654	GLN
6	O	658	HIS
6	O	696	ASN
6	O	751	GLN
6	O	853	GLN
7	P	62	GLN
7	P	67	HIS
7	P	114	HIS
8	Q	205	GLN

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Mol	Chain	Res	Type
8	Q	279	ASN
8	Q	425	ASN
8	Q	528	ASN
8	Q	536	HIS
8	Q	675	GLN
8	Q	682	GLN
8	Q	696	HIS
8	Q	752	ASN
8	Q	836	GLN
8	Q	877	GLN
8	Q	893	GLN
9	R	104	HIS
9	R	299	ASN
9	R	382	GLN
9	R	499	GLN
9	R	586	GLN
9	R	730	GLN
9	R	767	HIS
10	S	226	GLN
10	S	497	GLN
10	S	668	GLN
10	S	719	ASN
10	S	884	ASN
10	S	892	ASN
10	S	1016	ASN
10	S	1094	HIS
10	S	1108	ASN
10	S	1317	HIS
10	S	1346	GLN
10	S	1651	HIS
11	T	273	GLN
11	T	474	ASN
11	T	494	GLN
11	T	818	HIS
11	T	840	GLN
11	T	877	HIS
11	T	897	HIS
12	U	34	GLN
12	U	37	GLN
12	U	108	ASN
12	U	258	GLN
12	U	814	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

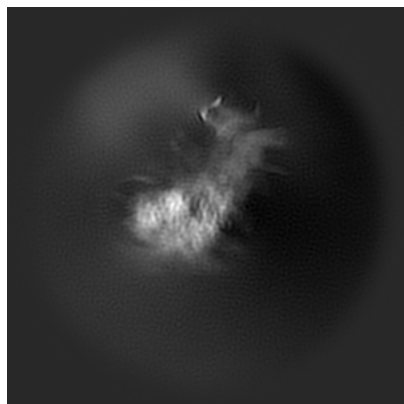
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-31891. These allow visual inspection of the internal detail of the map and identification of artifacts.

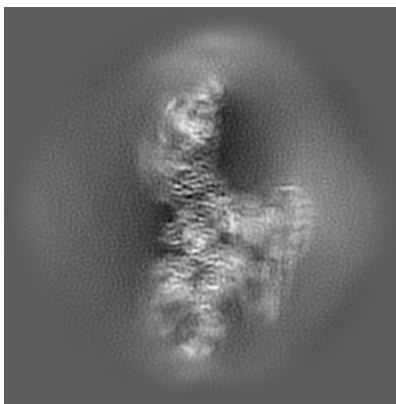
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

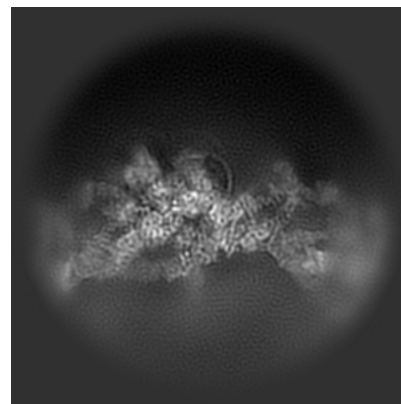
6.1.1 Primary map



X

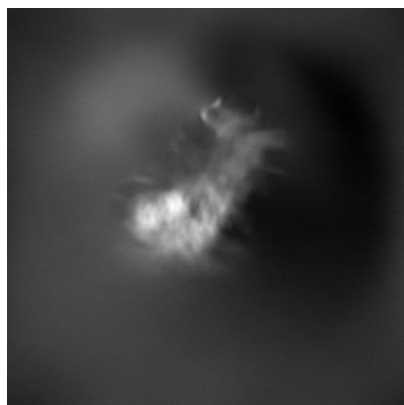


Y

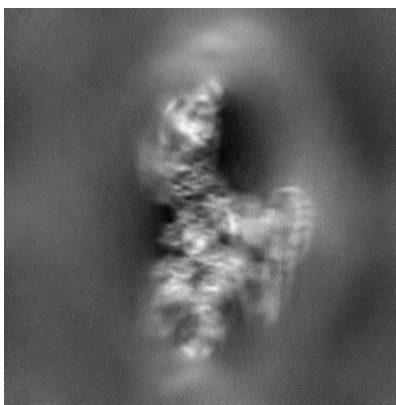


Z

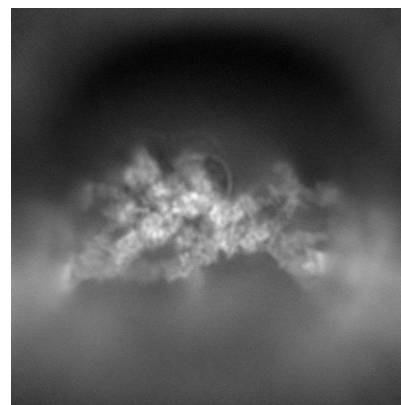
6.1.2 Raw map



X



Y

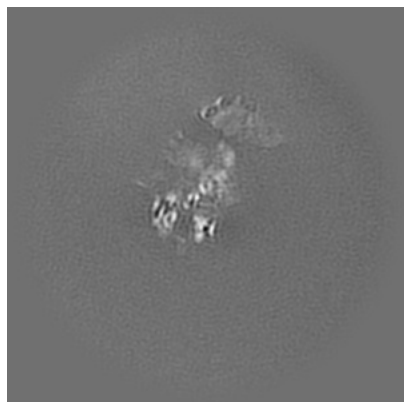


Z

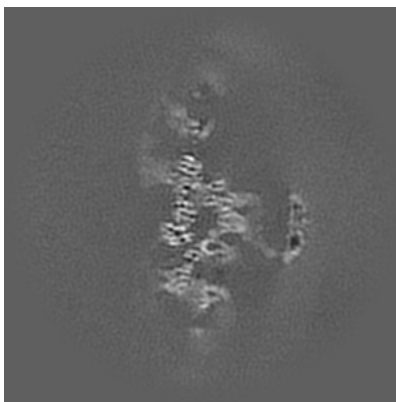
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

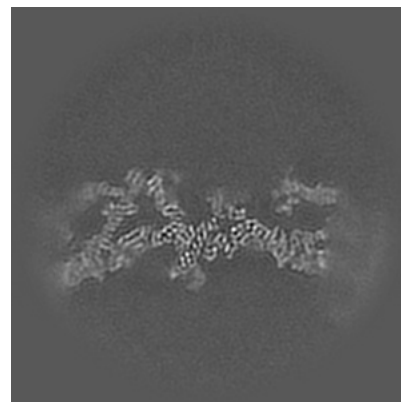
6.2.1 Primary map



X Index: 160

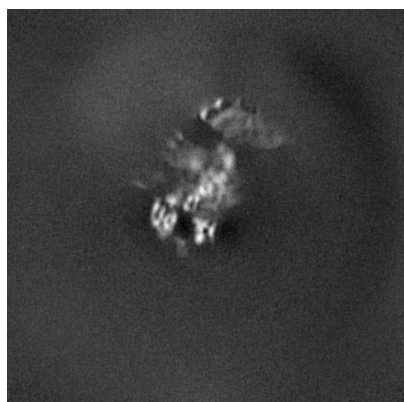


Y Index: 160

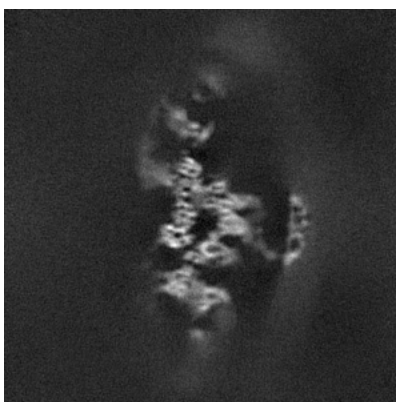


Z Index: 160

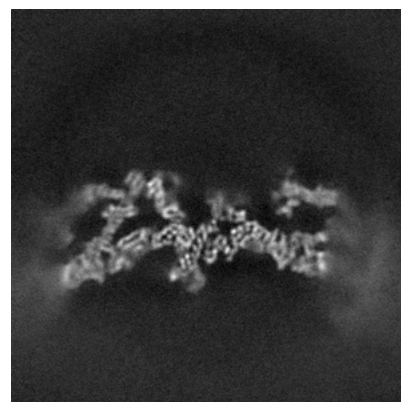
6.2.2 Raw map



X Index: 160



Y Index: 160

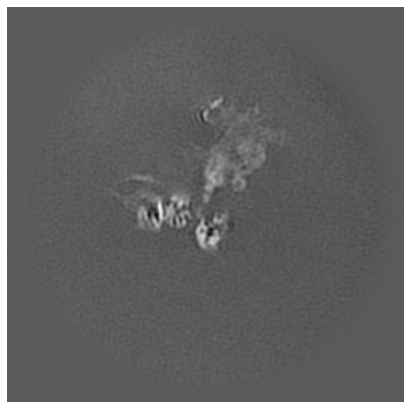


Z Index: 160

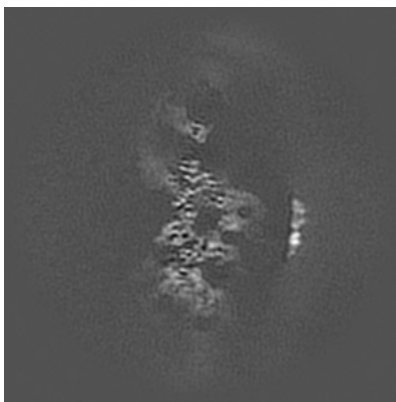
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

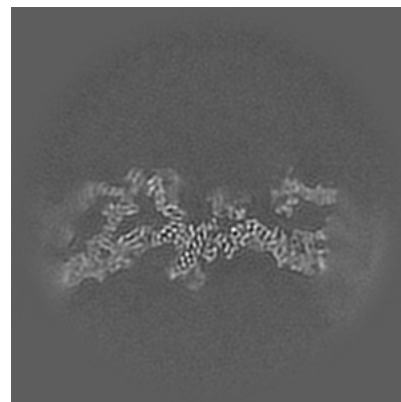
6.3.1 Primary map



X Index: 140

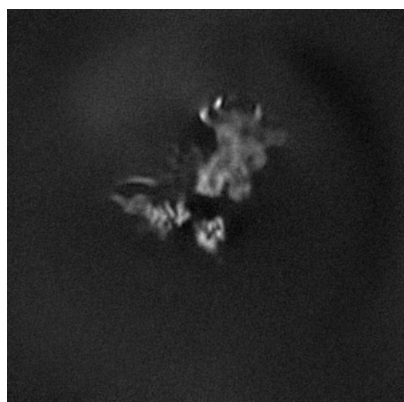


Y Index: 157

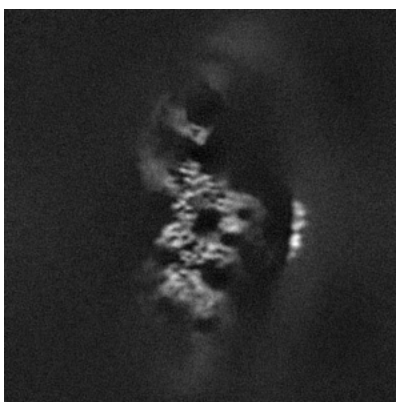


Z Index: 159

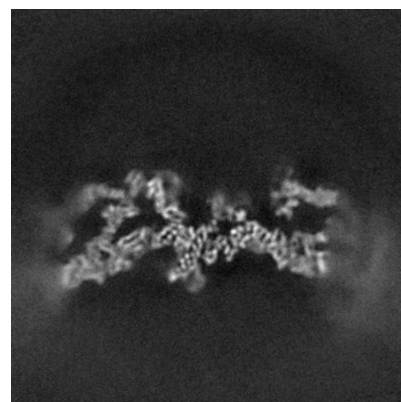
6.3.2 Raw map



X Index: 146



Y Index: 157

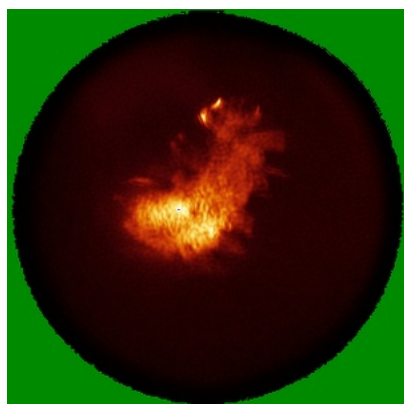


Z Index: 159

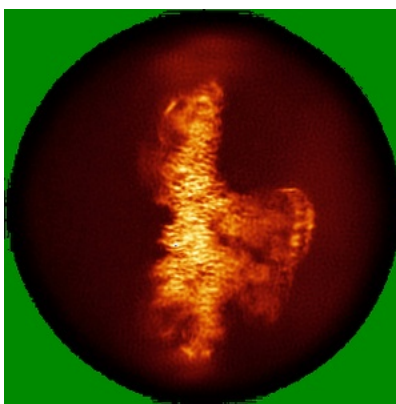
The images above show the largest variance slices of the map in three orthogonal directions.

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

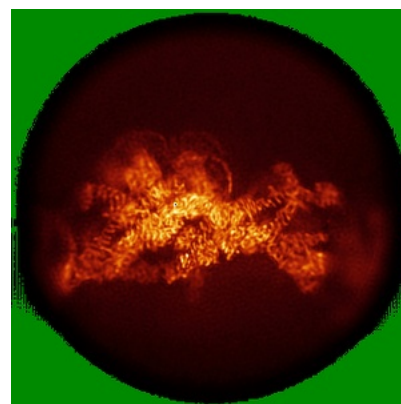
6.4.1 Primary map



X

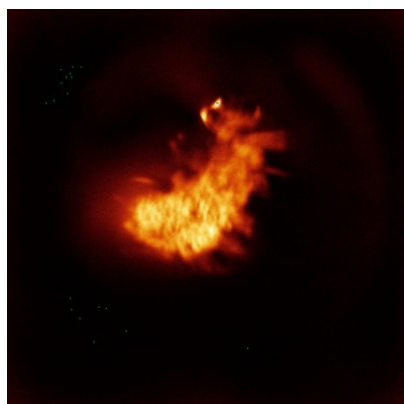


Y

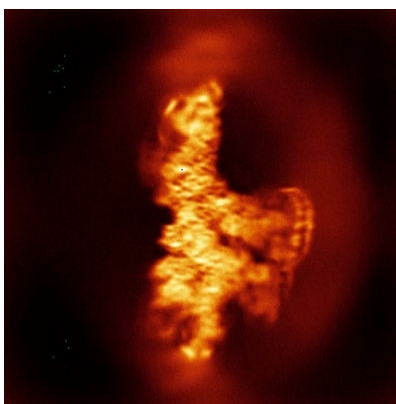


Z

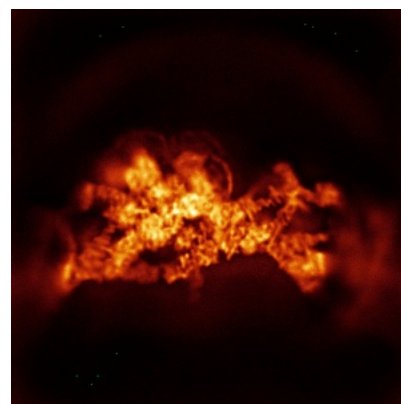
6.4.2 Raw map



X



Y

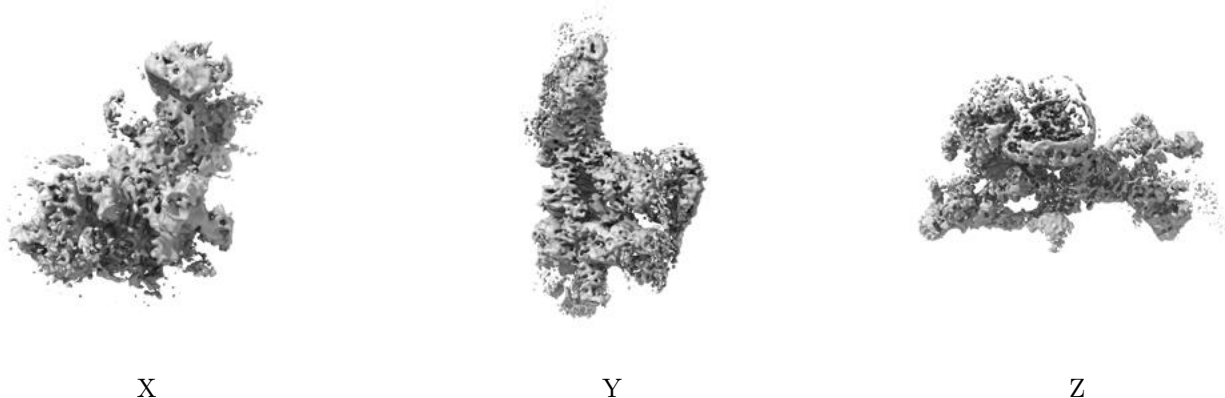


Z

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

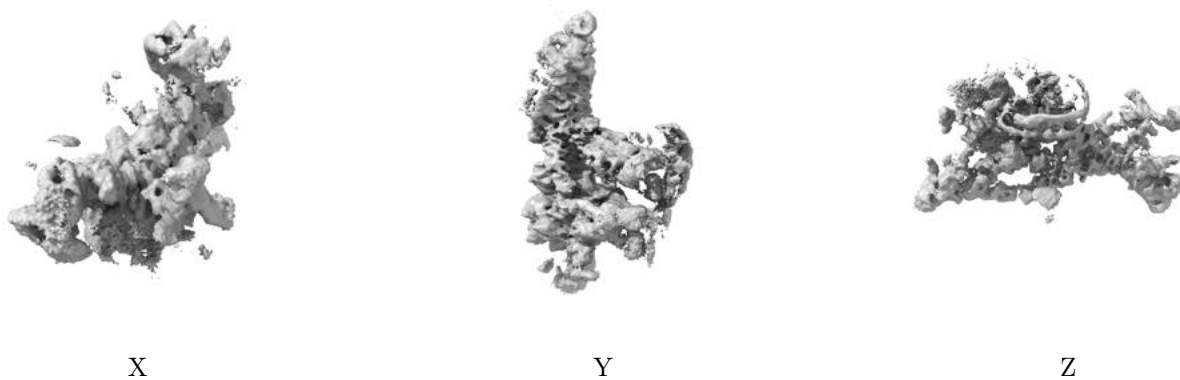
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.4. 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.

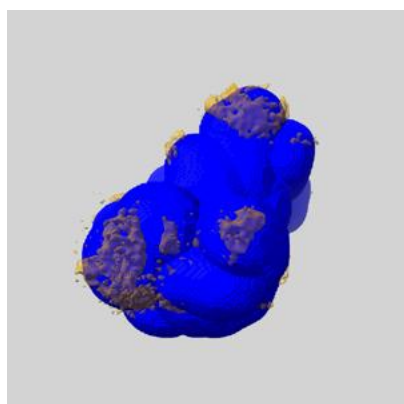
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

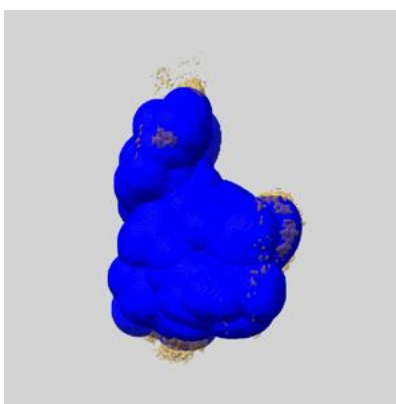
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

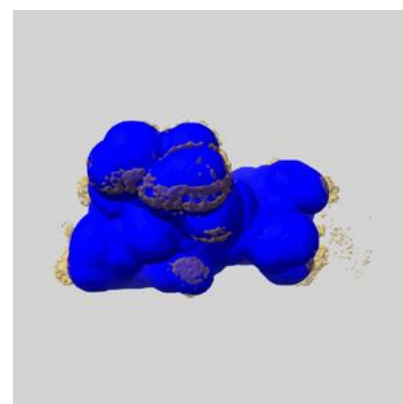
6.6.1 emd_31891_msk_1.map [i](#)



X



Y

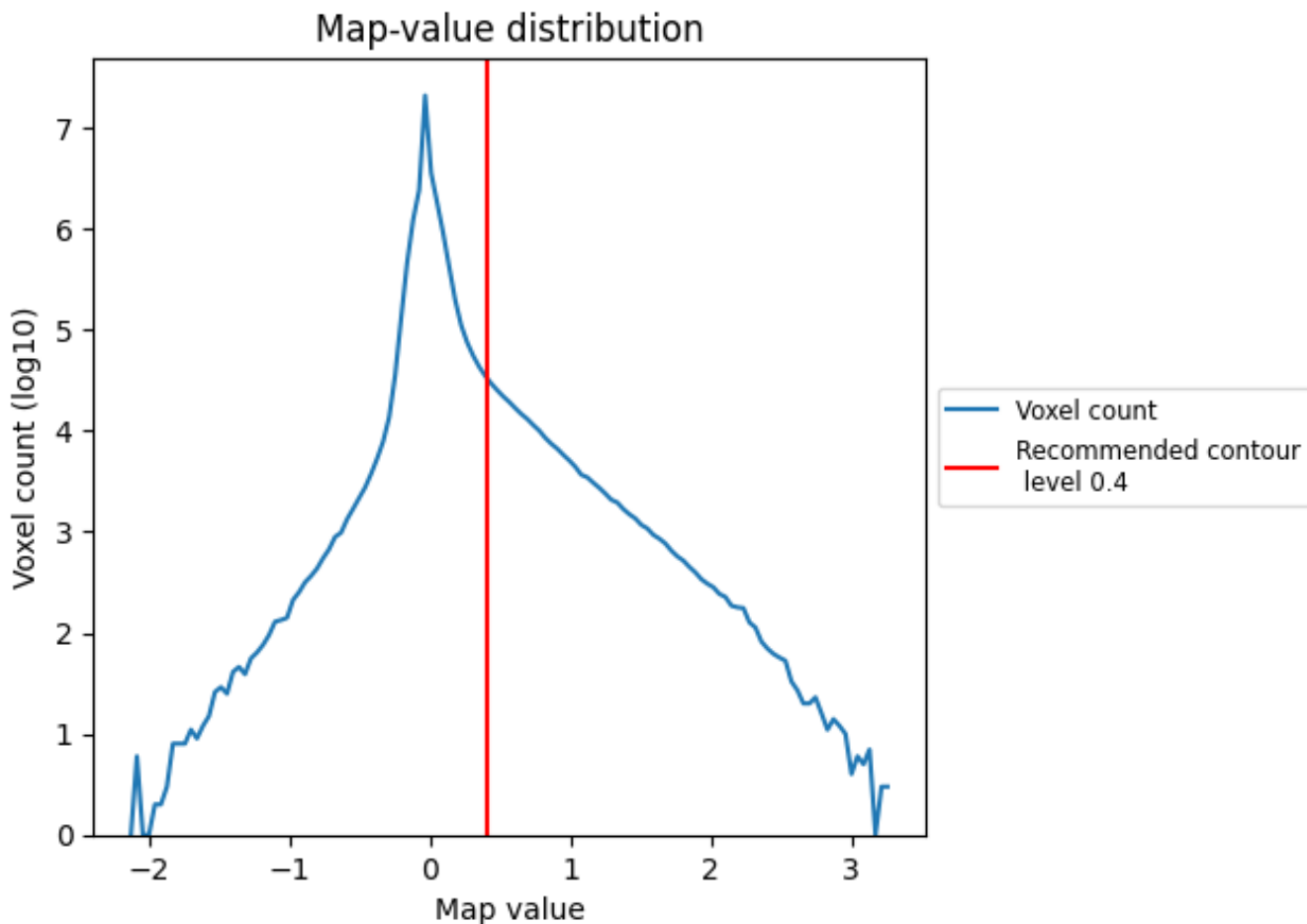


Z

7 Map analysis [i](#)

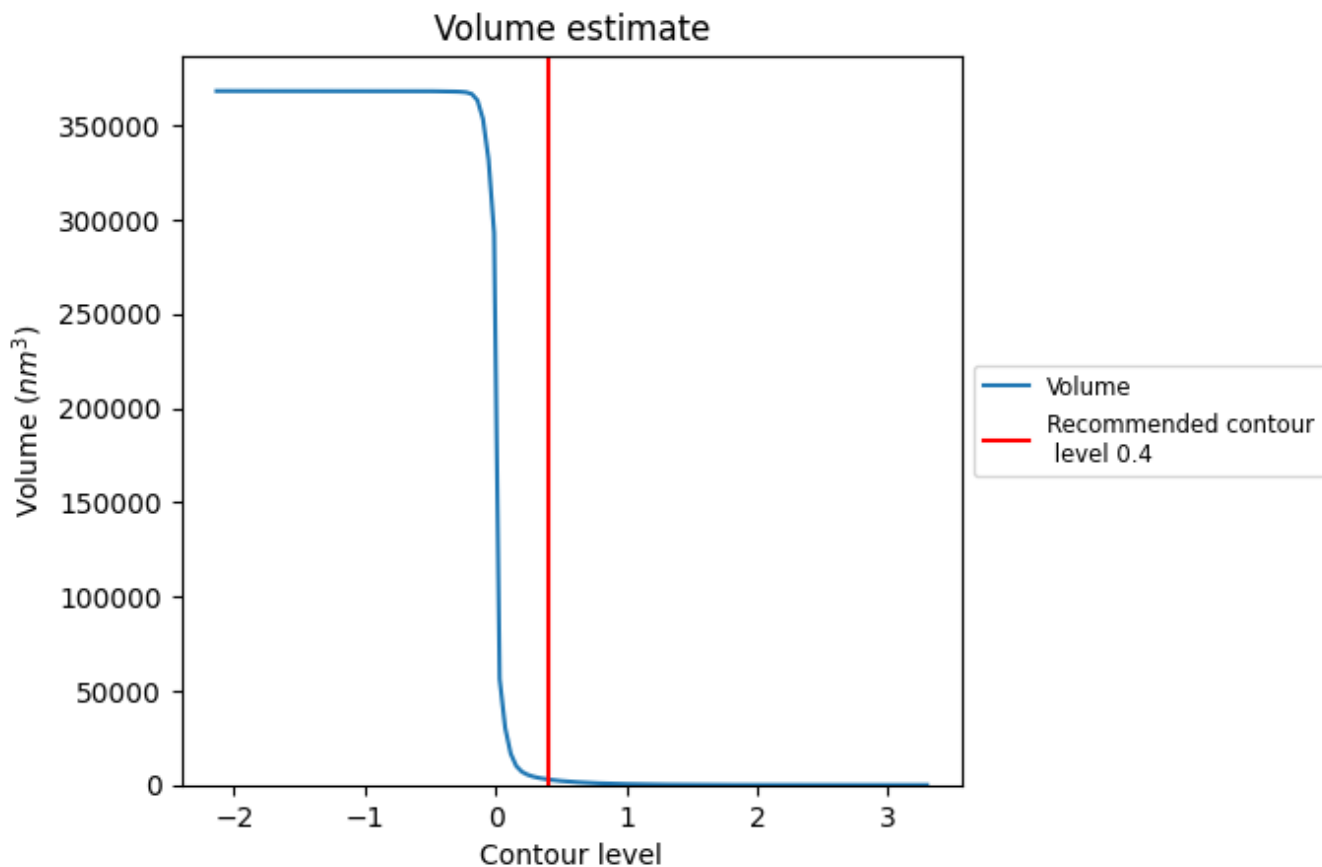
This section contains the results of statistical analysis of the map.

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.

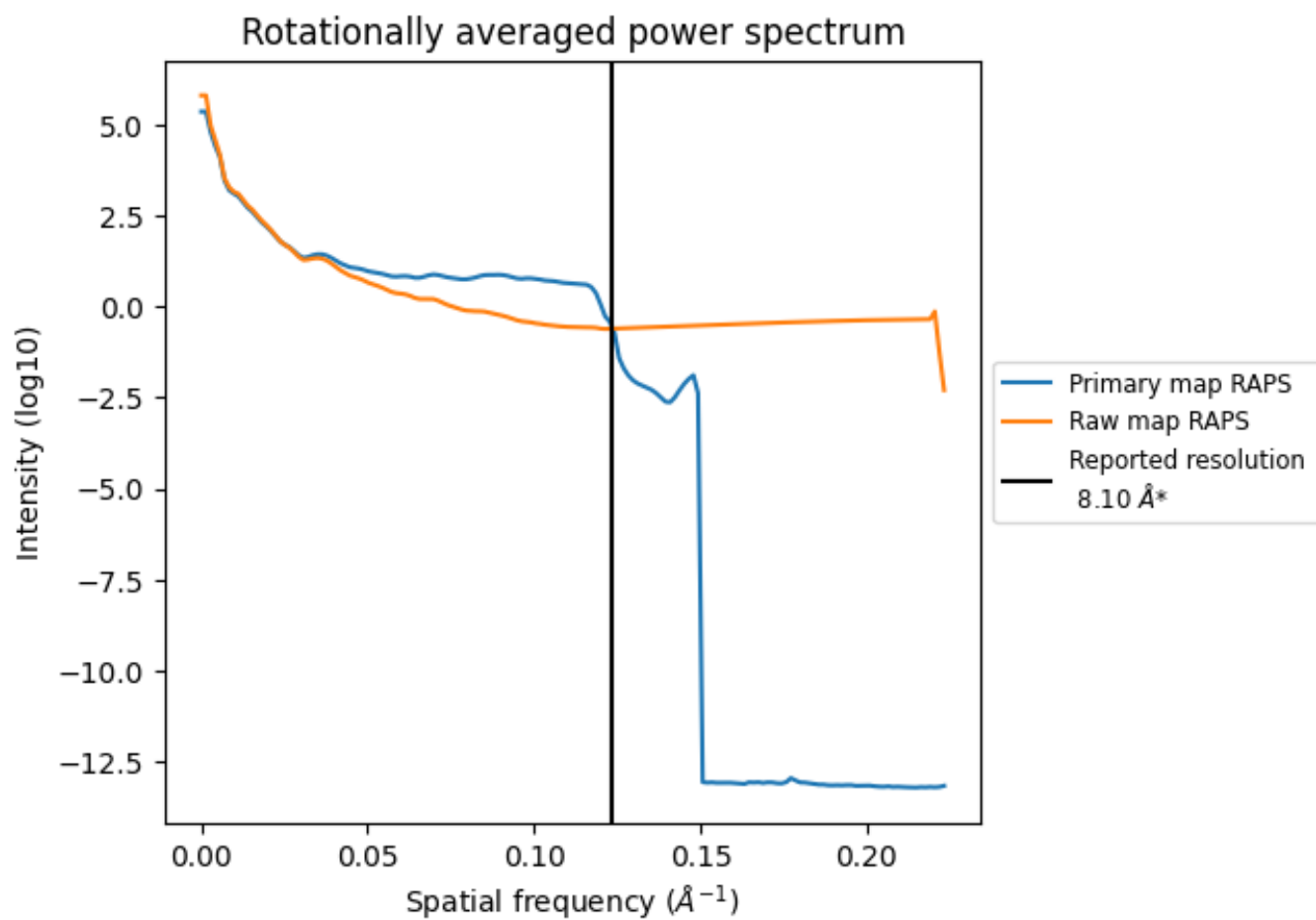
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2954 nm^3 ; this corresponds to an approximate mass of 2669 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)

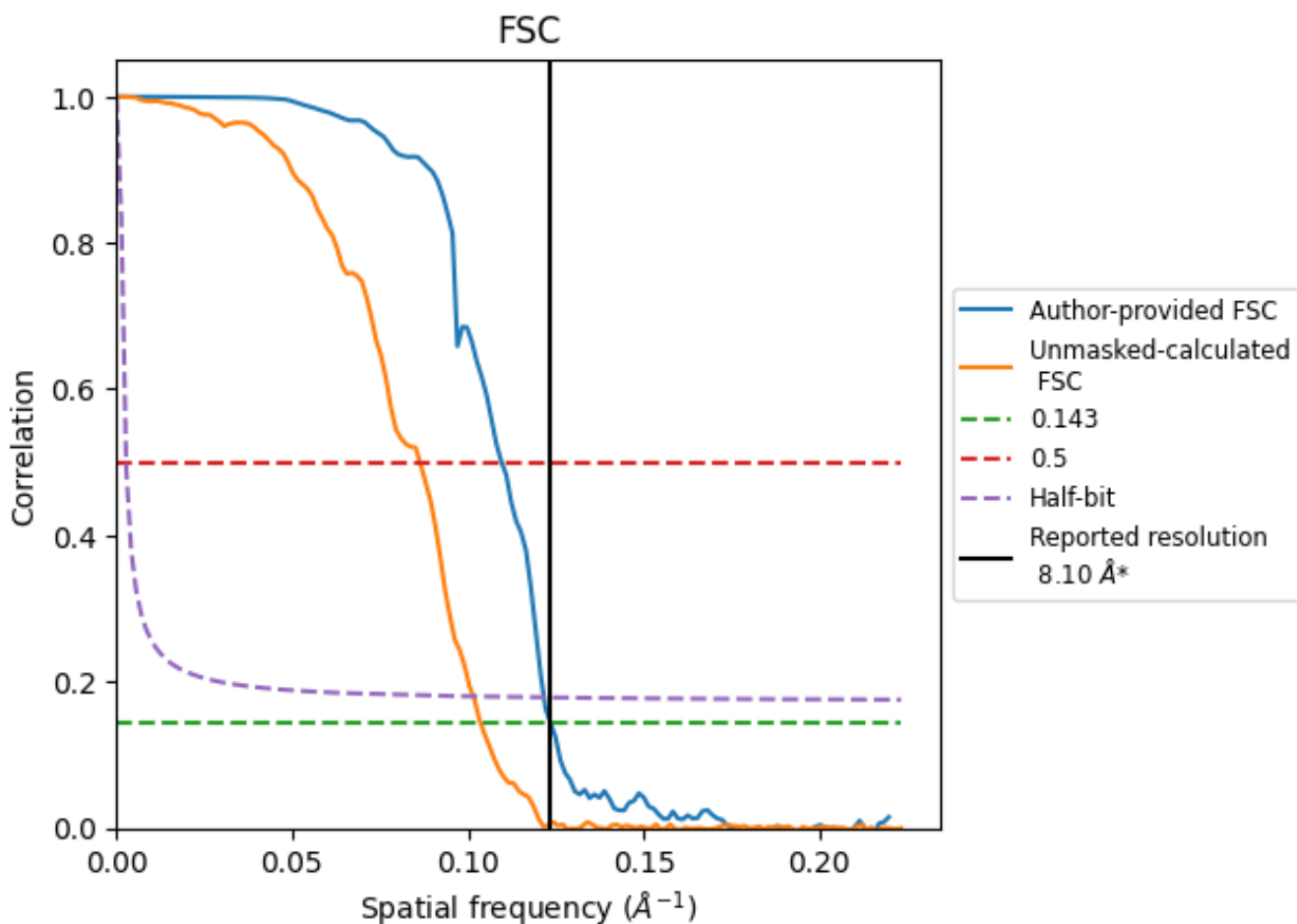


*Reported resolution corresponds to spatial frequency of 0.123 Å⁻¹

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 0.123 \AA^{-1}

8.2 Resolution estimates [i](#)

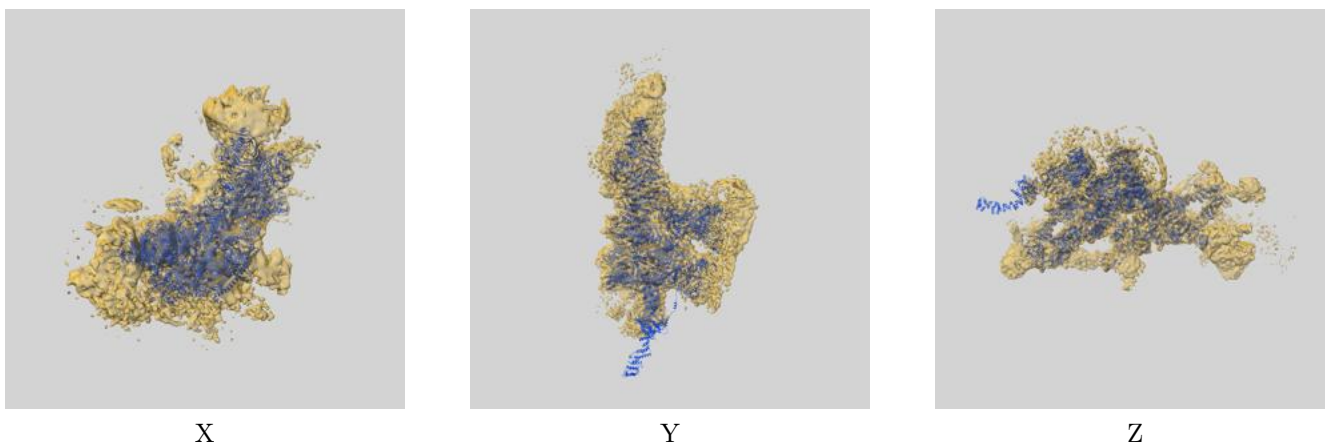
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	8.10	-	-
Author-provided FSC curve	8.10	9.12	8.22
Unmasked-calculated*	9.64	11.57	9.84

*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 9.64 differs from the reported value 8.1 by more than 10 %

9 Map-model fit [i](#)

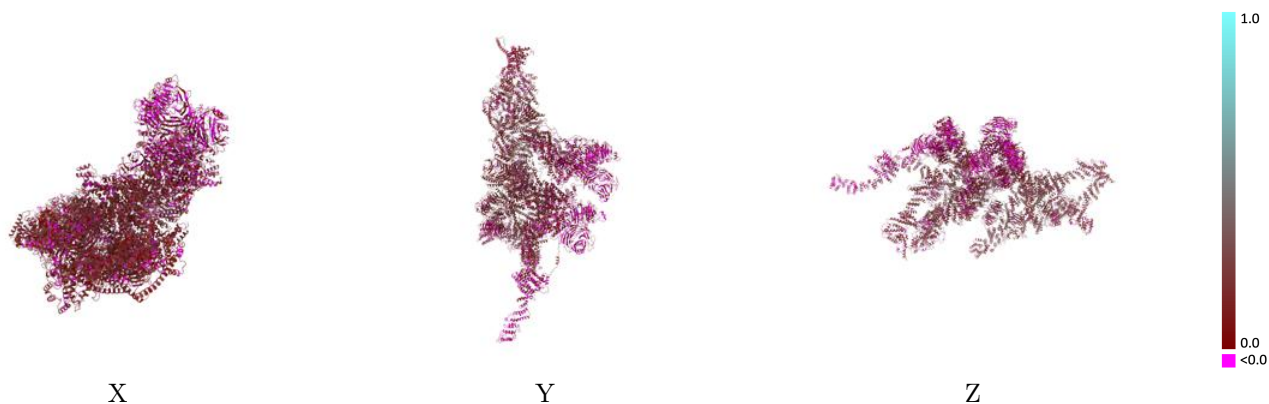
This section contains information regarding the fit between EMDB map EMD-31891 and PDB model 7VCI. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



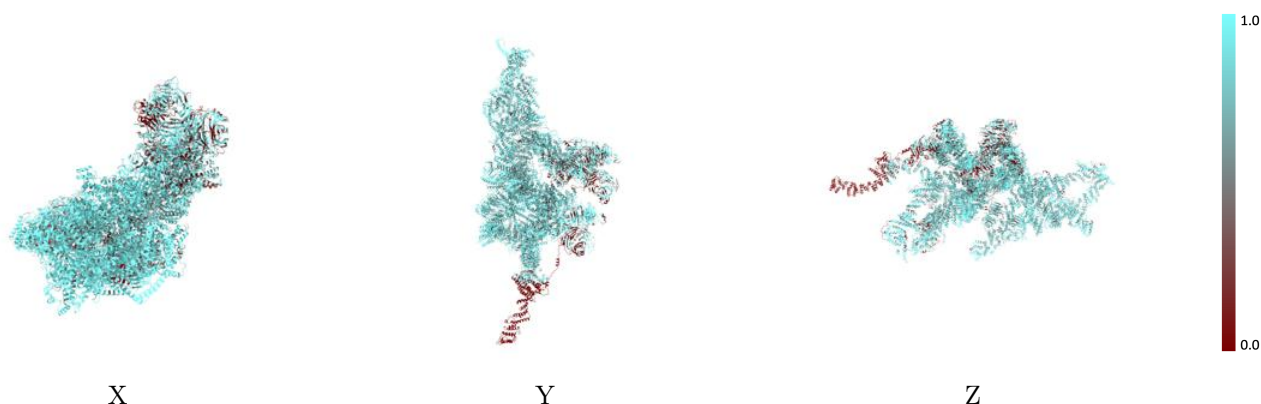
The images above show the 3D surface view of the map at the recommended contour level 0.4 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



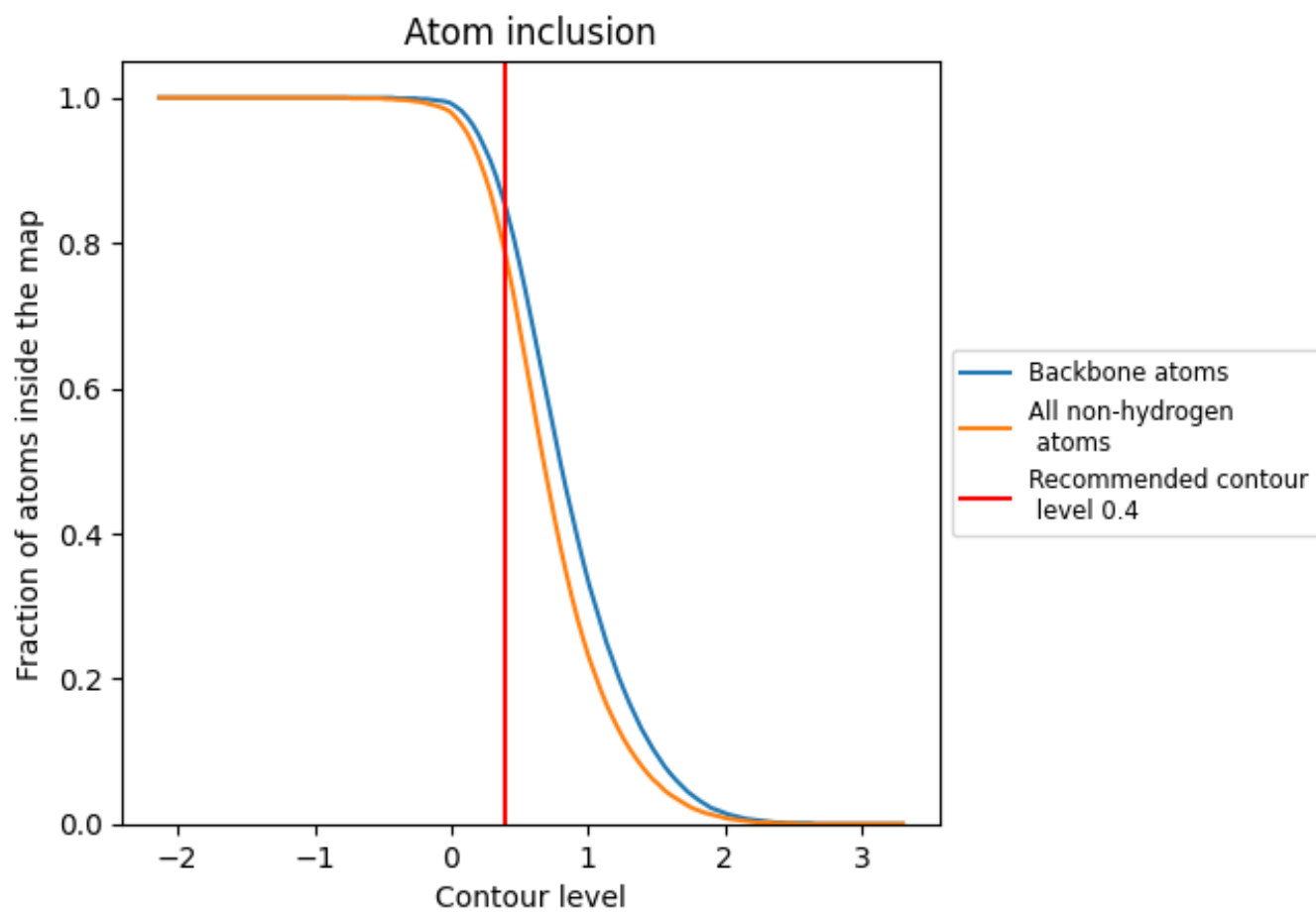
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.4).













































9.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 78% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7810	 0.1300
A	 0.8540	 0.1760
B	 0.7860	 0.1290
C	 0.9010	 0.1700
D	 0.7970	 0.1160
E	 0.9200	 0.1150
F	 0.8320	 0.1610
G	 0.8570	 0.1570
H	 0.8030	 0.1390
I	 0.6720	 0.0990
J	 0.8920	 0.1590
K	 0.8480	 0.1030
L	 0.9230	 0.1560
M	 0.8340	 0.1070
N	 0.8670	 0.1180
O	 0.8610	 0.1840
P	 0.9080	 0.1580
Q	 0.8180	 0.1640
R	 0.2590	 0.0390
S	 0.8480	 0.1480
T	 0.6470	 0.0980
U	 0.8870	 0.1570

